APPENDIX A

DOCUMENTATION OF INPUT PROPERTIES FOR TRIM. Fate MERCURY TEST CASE

Appendix A DOCUMENTATION OF INPUT PROPERTIES FOR TRIM.FaTE MERCURY TEST CASE

This appendix contains the following sets of tables, including supplemental tables where appropriate, listing and describing the model input properties used in the TRIM.FaTE mercury test case:

- Chemical-independent parameters for abiotic compartment types;
- Chemical-independent parameters for biotic compartment types;
- Chemical-dependent (i.e., value varies by chemical) parameters independent of compartment type;
- Chemical-dependent parameters for abiotic compartment types;
- Chemical-dependent parameters for biotic compartment types; and
- Source, meteorological, and other input parameters.

For each property listed, the parameter name, input units, value used, and a reference are given. Full citations for each reference are provided at the end. Several attachments, referred to in the tables, provide additional detailed documentation. [For a small number of properties modeled as time-varying, different values were used in steady-state model runs. See Chapter 4 and Appendix C for details.]

Within the framework of the TRIM.FaTE computer model, several different kinds of "properties" are defined and used. The input properties listed in this appendix fall into the following categories of TRIM.FaTE properties:

- Compartment properties (includes by far the largest number of input parameters);
- Volume element (VE) properties;
- Link properties;
- Chemical properties;
- Source properties; and
- Scenario properties.

In the following tables, the property category is identified for all input properties that are **not** compartment properties.

Note that the units listed in these tables are the units in which model input values need to be expressed for the algorithms in the TRIM.FaTE library used for the test case. In a few cases, these computer model input units do not match the units used for the same parameter in equations and derivations in *TRIM.FaTE Technical Support Document Volume II:*Description of Chemical Transport and Transformation Algorithms (EPA 453/R-02-011b, September 2002). In such cases, there are internal units conversions in the computer model that account for the differences.

Note on Chemical Abbreviations

Throughout the attached tables, Hg(0) = elemental mercury, Hg(2) = divalent mercury, and MHg = methyl mercury.

Chemical-Independent / Abiotic (same values used for all air compartments)

Air Compartment Type

Parameter Name	Units	Value Used	Reference
Atmospheric dust particle load	hospheric dust particle load kg[dust particles]/m³[air compartment]		Bidleman 1988
Density of air	ir g/cm ³		EPA 1997
Density of dust particles	kg[dust particles]/m³[dust particles]	1,400	Bidleman 1988
Fraction organic matter on particulates	unitless (wet wt)	0.2	Harner and Bidleman 1998
		mixing height (varies	
Height [VE property] ^a	m	hourly) ^b	local met data, 1987-1991
Particulate washout ratio	m³[air]/m³[rain]	200,000	Mackay et al. 1986

^a Height of air volume elements is set in TRIM.FaTE using two properties, the bottom of the volume element (set at 0 meters for the mercury test case) and the top of the volume element (set to the mixing height, which varies hourly, for the mercury test case).

^b A minimum value of 20 meters was used for the mercury test case.

Chemical-Independent / Abiotic (same values used for all soil compartments of each type, except where noted)

Soil Compartment Types

Parameter Name	Units	Value Used	Reference		
Surface Soil Compartment Type					
Air content	volume[air]/volume[compartment]	0.438	average for region in McKone et al. 2001		
Average vertical velocity of water (percolation)	m ³ [water]/m ² [surface area]-day (or m/day)	6.00E-04	assumed as 0.2 times average precipitation for region in McKone et al. 2001		
Boundary layer thickness above surface soil	m	0.005	Thibodeaux 1996		
Density of soil solids (dry weight)	kg[soil]/m ³ [soil]	2600	Caltox value cited in McKone et al. 2001		
Depth [VE property] ^a	m	0.01	Caltox value cited in McKone et al. 2001		
Erosion fraction [Link property]	unitless	link-specific ^b	estimated from site watershed and topo maps ^c		
Fraction of area available for erosion	m²[area available]/m²[total]	1	professional judgment; area assumed rural		
Fraction of area available for runoff	m²[area available]/m²[total]	1	professional judgment; area assumed rural		
Fraction of area available for vertical diffusion	m²[area available]/m²[total]	1	professional judgment; area assumed rural		
Organic carbon fraction	kg [organic carbon]/kg[soil wet wt]	0.0166	average for region in McKone et al. 2001		
Runoff fraction [Link property]	unitless	link-specific ^b	estimated from site watershed and topo maps ^c		
Total erosion rate	kg[soil solids]/m ² [surface soil]-day	2.89E-04	average for region in McKone et al. 2001		
Total runoff rate	m³[water]/m²[surface soil]-day	0.00101	average for region in McKone et al. 2001		
Water content	volume[water]/volume[compartment]	0.16	average for region in McKone et al. 2001		
Root Zone Soil Compartment Type					
Air content	volume[air]/volume[compartment]	0.36	average for region in McKone et al. 2001		
Average vertical velocity of water (percolation)	m ³ [water]/m ² [surface area]-day (or m/day)	6.00E-04	assumed as 0.2 times average precipitation for region in McKone et al. 2001		

Chemical-Independent / Abiotic (same values used for all soil compartments of each type, except where noted)

Soil Compartment Types

Parameter Name	Units	Value Used	Reference
Density of soil solids (dry weight)	kg[soil]/m ³ [soil]	2,600	Caltox value cited in McKone et al. 2001
Depth [VE property] ^a	m	0.55	average for region in McKone et al. 2001
Organic carbon fraction	kg[organic carbon]/kg[soil wet wt]	0.0166	average for region in McKone et al. 2001
Water content	volume[water]/volume[compartment]	0.16	average for region in McKone et al. 2001
Vadose Zone Soil Compartment Type			
Air content	volume[air]/volume[compartment]	0.216	McKone et al. 1998
Average vertical velocity of water (percolation)	m ³ [water]/m ² [surface area]-day (or m/day)	6.00E-04	assumed as 0.2 times average precipitation for region in McKone et al. 2001
Density of soil solids (dry weight)	kg[soil]/m³[soil]	2,600	Caltox value cited in McKone et al. 2001
Depth [VE property] ^a	m	0.75	professional judgment
Organic carbon fraction	kg[organic carbon]/kg[soil wet wt]	0.00128	McKone et al. 1998
Water content	volume[water]/volume[compartment]	0.16	McKone et al. 1998
Ground Water Compartment Type			
Depth [VE property] ^a	m	3	Caltox value cited in McKone et al. 2001
Organic carbon fraction	kg[organic carbon]/kg[soil wet wt]	0.01	Schwarzenbach et al. 1993
Porosity	volume[total pore space]/volume[compartment]	0.2	Caltox value cited in McKone et al. 2001
Recharge rate to surface water [Link property]	m³[water]/m²[area]-day	1.42E-04 McKone et al. 1998	
Solid material density in aquifer	kg[soil]/m ³ [soil]	2,600	Caltox value cited in McKone et al. 2001

^a Set using the volume element properties named "top" and "bottom."

^b See attached erosion/runoff fraction table.

^c See Attachment A-1 for method summary.

Values Used for Erosion and Runoff Fractions: Surface Soil Compartment Type

Sending Compartment	Receiving Compartment ^a	Runoff/Erosion Fraction ^b
Source	River	1.00
E1	River	1.00
SE1	River	1.00
W1	N1	0.40
	River	0.60
N1	River	1.00
NE2	E1	0.10
	River	0.90
ESE2	E1	0.05
	NE2	0.10
	SSE2	0.80
	ESE3	0.05
SSE2	SSE3	0.70
	River	0.30
SW2	River	0.80
	Surface Soil Advection Sink	0.20
W2	W1	0.90
	SW2	0.10
N2	N1	0.10
	W2	0.50
	River	0.35
	Surface Soil Advection Sink	0.05
NE3	NE2	0.05
	E4	0.05
	Stream N	0.70
	Surface Soil Advection Sink	0.20
ESE3	ESE2	0.15
	Fields	0.15
	Brewer	0.10
	Stream N	0.60

Values Used for Erosion and Runoff Fractions: Surface Soil Compartment Type

Sending Compartment	Receiving Compartment ^a	Runoff/Erosion Fraction ^b		
SSE4	ESE3	0.10		
	SSE3	0.05		
	Swetts	0.75		
	Surface Soil Advection Sink	0.10		
SSE3	SSE2	0.10		
	SSE4	0.05		
	River	0.05		
	Surface Soil Advection Sink	0.80		
ESE4	SSE4	0.10		
	Brewer	0.80		
	Stream S	0.10		
E4	NE3	0.10		
	ESE5	0.05		
	Fields	0.70		
	Surface Soil Advection Sink	0.15		
ESE5	Brewer	0.80		
	Stream S	0.10		
	Surface Soil Advection Sink	0.10		
SE6	Stream S	0.70		
	Thurston	0.10		
	Surface Soil Advection Sink	0.20		
SSE5	SSE4	0.15		
	ESE4	0.20		
	Stream S	0.05		
	Thurston	0.55		
	Surface Soil Advection Sink	0.05		

^aAdjacent compartments not receiving any runoff/erosion (i.e., runoff/erosion fraction = 0) not shown in table.

^bLink properties. Same values used for both runoff fraction and erosion fraction for a given link. All values estimated using site watershed and topographic maps (see Attachment A-1 for method summary).

Chemical-Independent / Abiotic (same values used for all surface water compartments, except where noted)

Surface Water Compartment Type

Parameter Name	Units	Value Used	Reference
Algae carbon content (fraction)	g[carbon]/g[algae dry wt]	0.465	APHA 1995
Algae density in water column	g[algae wet wt]/L[water]	0.0025	derived from Millard et al. 1996
Algae growth rate constant	1/day	0.7	Hudson et al. 1994 as cited in Mason et al. 1995b
Algae radius	um	2.5	Mason et al. 1995b
Algae water content (fraction)	unitless	0.9	APHA 1995
Average algae cell density (per vol cell, not water)	g[algae]/m³[algae]	1,000,000	Mason et al. 1995b, Mason et al. 1996
Boundary layer thickness above sediment	m	0.02	Cal EPA 1993
Bulk water flow [Link property] ^a	m³[water]/day	varies by water	for River, average of annual flow data for nearest USGS gauging station; for other water bodies, calculated using runoff coefficient (1.5 cfs/mi², mean for relevant watershed) and watershed dimensions
Chloride concentration		varies by water body - see attached	
Chlorophyll concentration	mg[chloride]/L[water] mg[chlorophyll]/L[water]	0.0053	raw lake data supplied by state agency, 1999 average for Swetts Pond, 1990 and 1997 data; raw data supplied by state agency, 1999
Current velocity ^c	m/s	varies by water body - see attached table	calculated from flow and cross-sectional area
Depth [VE property] ^d	m	_	estimated based on state lake average (provided by state agency, 1999), USGS map data, and/or professional judgment
Dispersion coefficient for exchange between surface water compartments [Link property] ^a	m²/day		median of values cited in Ambrose et al. 1995 from a study of Lake Erie by Di Toro and Connolly 1980
Dimensionless viscous sublayer thickness	unitless	4	Ambrose et al. 1995

Chemical-Independent / Abiotic (same values used for all surface water compartments, except where noted)

Surface Water Compartment Type

Parameter Name Units		Value Used	Reference
		varies by water	
Distance between midpoints [Link		body - see attached	
property] ^a	m	table	calculated from GIS maps
Drag coefficient for water body	unitless	0.0011	Ambrose et al. 1995
			Swetts Pond - supplied by state agency, 1999; River
		varies by water	- calculated based on flow data for closest USGS
		body - see attached	gauging station (upstream) and volume of River
Flush rate ^e	1/year	table	compartment
Organic carbon fraction in suspended			
sediments	unitless	0.02	McKone et al. 2001
pH	unitless	6.8	raw data supplied by state agency, 1999
	kg[suspended sediment		11 7
	particles]/m ³ [suspended sediment		
Suspended sediment density	particles]	2,650	EPA 1998b
Suspended sediment deposition velocity	m/day	2	EPA 1997
		varies by water	
	kg[suspended sediment	body - see attached	
Total suspended sediment concentration	particles]/m ³ [water]	table	raw lake data supplied by state agency, 1999 ⁹
Water temperature [VE property]	degrees K	293	professional judgment

^aApplies to all surface water compartments connected to other surface water compartments.

^bAverage of available lake data, except for River; average of available data for closest USGS gauging station for River.

^cApplies to flowing water bodies only (i.e., rivers, streams).

^dSet using the volume element properties named "top" and "bottom."

^eApplies to all surface water compartments connected to a flush rate sink (i.e., all or part of discharge modeled to a sink).

^fAverage of five values from two ponds in the same state used for all water bodies.

⁹State average for lakes, except for River; Schwalen and Kiefer 1996 for River.

Surface Water Compartment Properties that Vary by Water Body

		Swetts	Thurston	Stream	Brewer	Fields	Stream	
Parameter	Units	Pond	Pond	South	Lake	Pond	North	River
Bulk water flow [Link property] ^a	m³/day	N/A	8,060	16,000	43,000	53,000	74,100	N/A
Chloride concentration	mg/L	2.8.	2.8.	2.8.	2.8.	2.8.	2.8.	3.4
Current velocity	m/sec	N/A	N/A	0.0247	N/A	N/A	0.736	_b
Depth [VE property] ^c	m	3	3	0.1	8	4	0.2	6
Distance between midpoints [Link property]	m	N/A	2,075 ^d	3,015 ^e	2,230 ^f	4,195 ⁹	3,715 ^h	N/A
Flush rate	1/year	4.31	N/A	N/A	N/A	N/A	N/A	_i
Surface area ^j	m^2	396,000	635,000	165,000	3,670,000	701,000	34,500	3,990,000
Total suspended sediment concentration	kg/m³	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.015

^aFlow at discharge point to connecting surface water compartment.

^bVaries monthly, from 0.088 in August to 0.425 in April. Different value used for steady-state modeling (see Chapter 4).

^cSet using the volume element properties named "top" and "bottom."

^dThurston Pond - Stream South midpoint.

^eStream South - Brewer Lake midpoint.

^fBrewer Lake - Fields Pond midpoint.

^gFields Pond - Stream North midpoint.

^hStream North - River midpoint.

ⁱVaries monthly, from 283 in August to 1,360 in April. Different value used for steady-state modeling (see Chapter 4).

^jNot actually a required input property, but calculated from parcel coordinates, which are model inputs.

Chemical-Independent / Abiotic (same values used for all sediment compartments)

Sediment Compartment Type

Parameter Name	eter Name Units		Reference
Depth [VE property] ^a	m	0.05	Caltox value cited in McKone et al. 2001
Organic carbon fraction	kg[organic carbon]/kg[soil wet wt]	0.02	Caltox value cited in McKone et al. 2001
-	m³[pore water]/m³[sediment		
Porosity of the sediment zone	compartment]	0.6	EPA 1998a
	kg[sediment particles]/m3[sediment		
Solid material density in sediment	particles]	2,650	EPA 1998a

^aSet using the volume element properties named "top" and "bottom."

(same values used for all terrestrial plant compartments of a given type) Terrestrial Plant Compartment Types

		D	eciduous ^a	Co	niferous ^a	Gr	ass/Herb ^a
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference
Leaf Compartment Type							•
Allow exchange	1=yes, 0=no	seasonal ^b	see note b	1	professional judgment	seasonal ^b	see note b
	m ² [total leaf area]/m ² [underlying		Harvard Forest, dominant red oak and red maple, http://		representative value for conifers, personal comm., N. Nikolov,		mid-range of 4-6 for old fields, personal comm., R.J. Luxmoore, ORNL
Average leaf area index	soil area]	3.4	cdiac.esd.ornl.gov	5	ORNL 1999	5	1999
Calculate wet dep interception fraction (boolean)	1=yes, 0=no	0	professional judgment	0	professional judgment	0	professional judgment
Correction exponent, octanol to lipid	unitless	0.76	from roots, Trapp 1995	0.76	from roots, Trapp 1995	0.76	from roots, Trapp 1995
Degree stomatal opening	unitless	1	set to 1 for daytime based on professional judgment (stomatal diffusion is turned off at night using a different property, IsDay)	1	set to 1 for daytime based on professional judgment (stomatal diffusion is turned off at night using a different property, IsDay)	1	set to 1 for daytime based on professional judgment (stomatal diffusion is turned off at night using a different property, IsDay)
	kg[leaf wet		1 7. 7/		,,		,,
Density of wet leaf	wt]/m ³ [leaf]	820	Paterson et al. 1991	820	Paterson et al. 1991	820	Paterson et al. 1991
Leaf wetting factor	m	3.00E-04	1E-04 to 6E-04 for different crops and elements, Muller and Prohl 1993	3.00E-04	1E-04 to 6E-04 for different crops and elements, Muller and Prohl 1993	3.00E-04	1E-04 to 6E-04 for different crops and elements, Muller and Prohl 1993
					professional		
Length of leaf	m	0.1	professional judgment	0.01	judgment	0.05	professional judgment
Lipid content of leaf	kg[lipid]/kg[leaf wet wt]	0.00224	European beech, Riederer 1995	0.00224	European beech, Riederer 1995	0.00224	European beech, Riederer 1995
Litter fall rate	1/day	seasonal ^c	see note c	0.0021 ^d	see note d	seasonal ^c	see note c
Stomatal area, normalized for	47	222	Wilmer and Fricker	000	Wilmer and Fricker	000	Wilmer and Fricker
effective diffusion path length	1/m	200	1996	200	1996	200	1996
Vegetation attenuation factor	m²/kg	2.9	grass/hay, Baes et al. 1984	2.9	grass/hay, Baes et al. 1984	2.9	grass/hay, Baes et al. 1984
Water content	kg[water]/kg[leaf wet wt]	0.8	Paterson et al. 1991	0.8	Paterson et al. 1991	0.8	Paterson et al. 1991
Wet dep interception fraction (user supplied)	unitless	0.2	calculated based on 5 years of local met data, 1987-1991	0.2	calculated based on 5 years of local met data, 1987-1991	0.2	calculated based on 5 years of local met data, 1987-1991

(same values used for all terrestrial plant compartments of a given type) Terrestrial Plant Compartment Types

		D	eciduous ^a	Co	niferous ^a	Gra	ass/Herb ^a
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference
			calculated from leaf		calculated from leaf		
			area index, leaf		area index, leaf		
			thickness (Simonich &		thickness (Simonich		calculated from leaf
	kg[leaf wet		Hites 1994), density of		& Hites 1994),		area index and Leith
Wet mass of leaf per unit area	wt]/m ² [surface soil]	0.6	wet foliage	2	density of wet foliage	0.6	1975
Particle-on-leaf Compartment T	уре						
		h			professional	h	ļ
Allow exchange	1=yes, 0=no	seasonal⁵	see note b	1	judgment	seasonal	see note b
					based on particle		based on particle
			based on particle		density and size		density and size
			density and size		distribution for		distribution for
			distribution for		atmospheric particles		atmospheric particles
			atmospheric particles		measured on an		measured on an
			measured on an		adhesive surface,		adhesive surface,
	m³[leaf		adhesive surface, Coe		Coe and Lindberg		Coe and Lindberg
Volume particle per area leaf	particles]/m ² [leaf]	1.00E-09	and Lindberg 1987	1.00E-09	1987	1.00E-09	1987
Root Compartment Type - Nonv	woody Plants Only ^e						
						۵.	
Allow exchange	1=yes, 0=no					seasonal ^b	see note b
Correction exponent, octanol to lipid	unitless					0.76	Trapp 1995
	kg[lipid]/kg [root wet						from bean root, Trapp
Lipid content of root	wt]					0.011	1995
	kg[water]/kg[root wet						
Water content of root	wt])					0.8	professional judgment
	kg[root wet						soybean, Paterson et
Wet density of root	wt]/m ³ [root]					820	al. 1991
	kg[root wet						temperate grassland,
Wet mass per area	wt]/m ² [surface soil]					1.4	Jackson et al. 1996
Stem Compartment Type - Non		•				1	odokoon et di. 1000
Allow exchange	1=yes, 0=no					seasonal ^b	see note b
							from roots, Trapp
Correction exponent, octanol to lipid						0.76	1995
	kg[phloem]/m ³ [phloe						
Density of phloem fluid	m]					1,000	professional judgment
Density of xylem fluid	kg[xylem]/m ³ [xylem]					900	professional judgment

(same values used for all terrestrial plant compartments of a given type)

Terrestrial Plant Compartment Types

		De	eciduous ^a	Coi	niferous ^a	Gra	ass/Herb ^a
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference
Flow rate of transpired water per	m ³ [water]/m ² [leaf]-						
leaf area	day					0.0048	Crank et al. 1981
Fraction of transpiration flow rate							
that is phloem rate	unitless					0.05	Paterson et al. 1991
	kg[lipid]/kg [stem wet						leaves of European
Lipid content of stem	wt]					0.00224	beech, Riederer 1995
	kg[water]/kg[stem						
Water content of stem	wet wt]					0.8	Paterson et al. 1991
	kg[stem wet						
Wet density of stem	wt]/m ³ [stem]					830	professional judgment
							calculated from leaf
							and root biomass
	kg[stem wet						density based on
Wet mass per area	wt]/m ² [surface soil]					0.24	professional judgment

^aSee attached table for assignment of vegetation types to surface soil volume elements.

^bBegins May 12 (set to 1), ends September 30 (set to 0). Set to average days of last and first frost for modeling location. Different value used for steady-state modeling (see Chapter 4).

^cBegins September 30, ends October 29; rate = 0.15/day during this time (value assumes first-order relationship and that 99 percent of leaves fall in 30 days). Rate is zero at all other times. Different value used for steady-state modeling (see Chapter 4).

^dValue assumes first-order relationship and that 99 percent of leaves fall in six years.

eRoots and stems are not modeled for deciduous or coniferous forest in the current version of TRIM.FaTE.

Terrestrial Vegetation Types^a

Surface Soil				
Volume	Deciduous	Coniferous	Grasses/	
Element	Forest	Forest	Herbs	None
source				Χ
E1	X			
SE1		X		
W1			X	
N1			X	
NE2			Χ	
ESE2	X			
SSE2		Χ		
SW2			Х	
W2		Χ		
N2	Χ			
NE3	Χ			
ESE3		Χ		
SSE3	Х			
E4		Χ		
ESE4		Χ		
SSE4		Χ		·
ESE5	Χ			·
SSE5	Χ			·
SE6	X			

^aAssignments made based on review of land use maps.

Chemical-Independent / Biotic (same values used for all macrophyte compartments, except where noted)

Aquatic Plant Compartment Type

Parameter Name	Units	Value Used	Reference
Macrophyte Compartment Type			
Biomass per water area ^a	kg/m²	1.5	Bonar et al. 1993
Density of macrophytes	kg/L	1	professional judgment

^aThe macrophyte compartment type was included in the Swetts Pond, Thurston Pond, Brewer Lake, Fields Pond, and River surface water compartments. The macrophyte compartment type was not included in the Stream S or Stream N compartments.

(same values used for all terrestrial animal compartments of a given type, except where noted) Terrestrial Animal Compartment Types

Parameter Name	Units	Value Used	Reference
Soil Detritivore Compartment Type	- Earthworm	-	
Density	kg[worm wet wt]/L[worm]	1	professional judgment
Density per soil area ^a	kg[worm wet wt]/m²[soil]	0.045	avg of oak and beech values in Satchell 1983
Water content of worm	unitless	0.84	EPA 1993
Soil Detritivore Compartment Type	- Soil Arthropod	1	
Biomass per soil area ^a	kg[arthropod wet wt]/m²[soil]	3.01E-04	grasshopper, Porter et al. 1996
Body weight (BW)	kg	1.31E-04	grasshopper, Porter et al. 1996

^aPresence/absence varies by surface soil compartment; see attached table.

(same values used for all terrestrial animal compartments of a given type, except where noted)

Terrestrial Animal Compartment Types

		Terrestrial Ground- Invertebrate Feeder - Short tailed Shrew Value Used Reference Value Used Reference			l Herbivore - ailed Deer		Insectivore -		Omnivore -		l Carnivore - led Weasel		l Carnivore - iled hawk		
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference
All Other Terrestrial Animal Compartmen	nt Types ^a														
Body weight (BW)	kg	0.022	0.015-0.029 kg reported for Manitoba, Silva and Downing 1995	0.0441	Reich 1981	74.8	Silva and Downing 1995	0.0108	Dunning 1993	0.02	North America, Silva and Downing 1995	0.147	Mumford and Whitaker 1982	1.13	North America, Dunning 1993
Food ingestion rate ^b	kg[diet wet wt]/kg[body wet wt]-day	0.47	Barrett and Stueck 1976	0.097	mean Microtus spp., Dark et al. 1983, Burt and Grossenheider 1976, Dice 1922	0.05	Mautz et al. 1976	0.74	calculated from Bell 1990, Dunning 1993	0.2	Green and Millar 1987	0.0735	calc from Brown and Lasiewski 1972, Golley 1961, EPA 1993	0.12	Preston and Beane 1993
Fraction diet - black-capped chickadee	unitless													0.257	approximate from Sherrod 1978
Fraction diet - mouse	unitless											0.5	professional judgment	0.303	approximate from Sherrod 1978
Fraction diet - terrestrial plants	unitless			1	professional judgment	1	professional judgment	0.3	Martin et al. 1951	0.5	professional judgment				
Fraction diet - short-tailed shrew	unitless											0.25	professional judgment	0.2	approximate from Sherrod 1978
Fraction diet - soil arthropod	unitless	0.415	Whitaker and Ferraro 1963					0.7	Smith 1993, Martin et al. 1951	0.5	professional judgment			0.04	approximate from Sherrod 1978
Fraction diet - vole	unitless											0.25	professional judgment	0.2	approximate from Sherrod 1978
Fraction diet - worm	unitless	0.585	Whitaker and Ferraro 1963, slugs represented by earthworms, Ithaca, NY												
Fraction excretion to soil	unitless	1	professional judgment	1	professional judgment	1	professional judgment	1	professional judgment	1	professional judgment	1	professional judgment	1	professional judgment
Fraction excretion to water	unitless	0	professional judgment	0	professional judgment	0	professional judgment	0	professional judgment	0	professional judgment	0	professional judgment	0	professional judgment
			average value for state,		average of 0.011/m ² , Klaas et al. 1998, and		12-80/km ² , forest avg from Smith 1987, Torgerson and Porath 1984, Wishart		avg of 0.2 and 0.3 /ha in British		average of range 6-		average of 6- 7/ha,		average of range 0.0034 and 0.01 for
Population per soil area ^c	#/m²	6.10E-04	contact at state university	0.006	0.0015/m², Getz 1961	4.60E-05	1984, Cook 1984	3.50E-05	Columbia, Smith 1993	0.0023	57/ha, Wolff 1985	6.50E-06	Svendsen 1982	6.7E-07	Colorado, EPA 1993
Scaling constant A - inhalation rate	unitless	0.546	Stahl 1967	0.546	Stahl 1967	0.546	Stahl 1967	0.409	Lasiewski and Calder 1971	0.546	Stahl 1967	0.546	Stahl 1967	0.409	Lasiewski and Calder 1971
Scaling constant B - inhalation rate	unitless	0.8	Stahl 1967	0.8	Stahl 1967	0.8	Stahl 1967	0.8	Calder 1971	0.8	Stahl 1967	0.8	Stahl 1967	0.8	Lasiewski and Calder 1971
Scaling constant A - water ingestion rate	unitless	0.099	Calder and Braun 1983	0.099	Calder and Braun 1983	0.099	Calder and Braun 1983	0.059	Calder and Braun 1983	0.099	Calder and Braun 1983	0.099	Calder and Braun 1983	0.059	Calder and Braun 1983

(same values used for all terrestrial animal compartments of a given type, except where noted)

Terrestrial Animal Compartment Types

		Terrestrial Ground- Invertebrate Feeder - Short- tailed Shrew		Terrestrial Herbivore - Meadow Vole			Herbivore -		Insectivore - ed Chickadee		Omnivore -		Carnivore - led Weasel		I Carnivore - iled hawk
Parameter Name	Units			Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference
			Calder and		Calder and		Calder and		Calder and		Calder and		Calder and		Calder and
Scaling constant B - water ingestion rate	unitless	0.9	Braun 1983	0.9	Braun 1983	0.9	Braun 1983	0.67	Braun 1983	0.9	Braun 1983	0.9	Braun 1983	0.67	Braun 1983
									assumed,						
							calculated		rarely		calculated				
	kg[soil dry				calculated using		using data		observed on		using data				
	wt]/kg[body wet		Talmage and		data from Beyer		from Beyer at		ground, Smith		from Beyer at		professional		professional
Soil ingestion rate	wt]-day	0.0611	Walton 1993	0.0006	at al. 1994	0.00013	al. 1994	0	1993	0.001	al. 1994	0	judgment	0	judgment

^aSee attached table for documentation of compartment links for ingestion, inhalation, and excretion. For test case, all terrestrial animals were assumed to get 100% of their diet from a single volume element (i.e., FractionSpecificCompartmentDiet link property always set to 1.0).

^bSee Attachment A-2 for documentation of food ingestion rate calculations.

^cPresence/absence varies by surface soil compartment; see attached table.

Population (or Biomass) per Soil Area: Terrestrial Animal Compartment Types (number of animals per m², except where noted)

									Surfa	ace Soil V	olume Ele	ment								
Compartment Type	Source	E1	SE1	W1	N1	NE2	ESE2	SSE2	SW2	W2	N2	NE3	ESE3	SSE3	E4	ESE4	SSE4	ESE5	SSE5	SE6
Terrestrial Ground-																				
Invertebrate Feeder -																				1
Short-tailed Shrew	0	6.10E-04	6.10E-04	0	0	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04	6.10E-04
Terrestrial Herbivore -																				
Meadow Vole	0	0	0	0	0	6.00E-03	0	0	6.00E-03	0	0	0	0	0	0	0	0	0	0	0
Terrestrial Herbivore -																				
White-tailed Deer	0	4.60E-05	4.60E-05	0	0	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05	4.60E-05
Terrestrial Insectivore -																				1
Black-capped Chickadee	0	3.50E-05	3.50E-05	0	0	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05	3.50E-05
Terrestrial Omnivore -																				
Mouse	0	2.30E-03	2.30E-03	0	0	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03	2.30E-03
Terrestrial Carnivore -																				1
Long-tailed Weasel	0	6.50E-06	6.50E-06	0	0	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06	6.50E-06
Terrestrial Carnivore -																				1
Red-tailed hawk	0	6.70E-07	6.70E-07	0	0	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07	6.70E-07
Soil Detritivore																				1
Compartment Type -																				1
Earthworm (kg/m²)a	0	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02								
Soil Detritivore																				i
Compartment Type - Soil																				i l
Arthropod (kg/m²)	0	3.01E-04	3.01E-04	0	0	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04	3.01E-04

^aAssociated with root zone soil volume elements (rather than surface soil).

Semi-aquatic Animal Compartment Types

(same values used for all semi-aquatic animal compartment types, except where noted)

		Semi-aquatic Insectivore - Tree Swallow			ic Omnivore -	- Semi-aquatic Omnivore - Raccoon			tic Piscivore -		ic Carnivore - ink		ic Carnivore - I Eagle
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference
All Compartment Types ^a													
Body weight (BW)	kg	0.0201	Dunning 1993	1.13	Nelson and Martin 1953	6.35	Anderson 1979	4.13	Dunning 1993	0.831	Mumford and Whitaker 1982	4.74	Dunning 1993
Food ingestion rate ^b	(kg[diet wet wt]/kg[body wet wt] day)		calculated from Williams 1988, Quinney and Ankney 1985, and Bell 1990	0.1	Heinz et al. 1987	0.11	based on allometric equation (Nagy et al.1999) and professional	0.23	Barr 1996	0.14	mink in captivity, Bleavins and Aulerich 1981	0.12	Stalmaster and Gessaman 1984
Fraction diet - benthic carnivores ^c	unitless											0.17	EPA 2002
Fraction diet - benthic invertebrates	unitless			0.335	EPA 1993 and professional judgment	0.69	representing molluscs, crustacea, Tyson 1950			0.17	Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980 Hamilton		
Fraction diet - benthic omnivores°	unitless					0.046	Tyson 1950	0.5	professional judgment	0.15	1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980	0.17	EPA 2002
Fraction diet - black-capped chickadee	unitless									0.08	Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980	0.1	professional judgment
Fraction diet - emerging benthic			professional										
insect (benthic invertebrate) Fraction diet - mouse	unitless unitless	1	judgment		Martin et al.					0.23	Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980	0.23	professional judgment
Fraction diet - terrestrial plants	unitless			0.665	Martin et al. 1951								

Semi-aquatic Animal Compartment Types

(same values used for all semi-aquatic animal compartment types, except where noted)

		Semi-aquatic Insectivore - Tree Swallow			ic Omnivore -		c Omnivore -		tic Piscivore -		c Carnivore -		tic Carnivore - I Eagle
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference
Fraction diet - vole	unitless									0.23	Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980		
Fraction diet - water-column carnivores ^c										5.20		0.11	assumed based on approximate trophic levels of several consumed fish
Fraction diet - water-column	unitless										Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider	0.11	assumed based on approximate trophic levels of several consumed fish
herbivores ^c	unitless					0.04	Tyson 1950			0.103	1980	0.11	species
Fraction diet - water-column omnivores ^c	unitless					0.014	Tyson 1950	0.5	professional judgment	0.037	Hamilton 1940, Sealander 1943, Korschgen 1958, Burgess and Bider 1980	0.11	assumed based on approximate trophic levels of several consumed fish species
Fraction diet - worm	unitless					0.21	coastal mudflats of SW Washington, Tyson 1950						
Encoding and the second			professional	٥٠	professional	0.5	professional	0.5	professional	0.5	professional	0.5	professional
Fraction excretion to soil Fraction excretion to water	unitless unitless	0	judgment professional judgment	0.5	judgment professional judgment	0.5	judgment professional judgment	0.5	judgment professional judgment	0.5	judgment professional judgment	0.5	judgment professional judgment
Traction excitation to water	uniless	0	De Graaf et al.	0.0	average of 0.012 and 0.0174/ha, North Dakota,	varies by compartment, depending on available shoreline; based on 2 raccoons per	<u>Juaginetit</u>		State Dept Inland Fisheries &	varies by compartment, depending on available shoreline; based on 0.6 mink per km	<u> даадттепк</u>	0.0	State Dept Inland Fisheries &
Population per soil aread	#/m ²	7.00E-04	1981	9.30E-06	EPA 1993	km shoreline	Kaufman 1982	4.90E-08	Wildlife	shoreline	Marshall 1936	1.30E-08	Wildlife
Scaling constant A - inhalation rate	unitless	0.409	Lasiewski and Calder 1971	0.409	Lasiewski and Calder 1971	0.546	Stahl 1967	0.409	Lasiewski and Calder 1971	0.546	Stahl 1967	0.409	Lasiewski and Calder 1971
Scaling constant B - inhalation rate	unitless	0.8	Lasiewski and Calder 1971	0.8	Lasiewski and Calder 1971	0.8	Stahl 1967	0.8	Lasiewski and Calder 1971	0.8	Stahl 1967	0.8	Lasiewski and Calder 1971

Semi-aquatic Animal Compartment Types

(same values used for all semi-aquatic animal compartment types, except where noted)

		Semi-aquatic Insectivore - Tree Swallow		- Semi-aquatic Omnivore - Mallard		•	c Omnivore -	•	tic Piscivore - ion Loon	Semi-aquati M	c Carnivore - ink		ic Carnivore - I Eagle
Parameter Name	Units			Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used Reference		Value Used	Reference
Scaling constant A - water		Calder and		Calder and			Calder and		Calder and		Calder and		Calder and
ingestion rate	unitless	0.059 Braun 1983		0.059	Braun 1983	0.099	Braun 1983	0.059	Braun 1983	0.099	Braun 1983	0.059	Braun 1983
Scaling constant B - water			Calder and	Calder and			Calder and		Calder and		Calder and		Calder and
ingestion rate	unitless	0.67	Braun 1983	0.67	Braun 1983	0.9	Braun 1983	0.67	Braun 1983	0.9	Braun 1983	0.67	Braun 1983
	kg[soil dry wt]/kg[body wet wt]		professional		calculated using data from Beyer		calculated using data from Beyer		professional		professional		professional
Soil ingestion rate	day	0	judgment	0.00085	at al. 1994	0.0029	at al. 1994	0	judgment	0	judgment	0	judgment

^aSee attached table for documentation of compartment links for ingestion, inhalation, and excretion. For test case, all semi-aquatic animals were assumed to get 100% of their water-based diet from a single volume element and 100% of their land-based diet from a single volume element (i.e., FractionSpecificCompartmentDiet link property always set to 1.0).

^bSee Attachment A-2 for documentation of food ingestion rate calculations.

^cProportion of fish in wildlife species diet based on EPA 1993 and professional judgment; distribution of fish in diet among the different fish compartment types based on general size classes of fish consumed (EPA 2002) and relative abundance of fish in the different compartment types (trophic levels).

^dPresence/absence of mallard and common loon varies by surface water compartment, and presence/absence of other species varies by surface soil compartment; density value for mink and raccoon varies by surface soil compartment; see attached table.

Population per Soil or Water Area: Semi-aquatic Animal Compartment Types (number of animals per m² of soil or water)

									Surface	Soil Volu	ıme Eleme	ent								
Compartment Type	Source	E1	SE1	W1	N1	NE2	ESE2	SSE2	SW2	W2	N2	NE3	ESE3	SSE3	E4	ESE4	SSE4	ESE5	SSE5	SE6
Semi-aquatic Insectivore - Tree																				1
Swallow	0	7.00E-04	7.00E-04	0	0	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04
																				i
Semi-aquatic Omnivore - Raccoon	0	9.06E-07	9.06E-07	0	0	9.06E-07	0	9.06E-07	1.23E-06	0	1.23E-06	0	7.65E-07	9.06E-07	2.01E-06	7.00E-07	7.00E-07	2.01E-06	6.52E-07	6.52E-07
																				1
Semi-aquatic Carnivore - Mink	0	2.72E-07	2.72E-07	0	0	2.72E-07	0	2.72E-07	3.70E-07	0	3.70E-07	0	2.29E-07	2.72E-07	6.02E-07	2.10E-07	2.10E-07	6.02E-07	1.96E-07	1.96E-07
Semi-aquatic Carnivore - Bald																				1
Eagle	0	1.30E-08	1.30E-08	0	0	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08

			Surface V	Vater Volu	me Eleme	nt	
	Swetts Thurston			Brewer	Fields		
Compartment Type	Pond	Pond	Stream S	Lake	Pond	Stream N	River
Semi-aquatic Omnivore - Mallard	9.30E-06	9.30E-06	0	9.30E-06	9.30E-06	0	9.30E-06
Semi-aquatic Piscivore - Common							
Loon	4.90E-08	4.90E-08	0	4.90E-08	4.90E-08	0	4.90E-08

Compartment Links for Terrestrial and Land-based Semi-aquatic Animals

			Surfa	ice Soil Vo	lume Elem	ent that An	imal Is Bas	ed in		
Type of Link	Source	E1	SE1	W1	N1	NE2	ESE2	SSE2	SW2	W2
Compartment Link for Inhalation	n/a	ESE1	SSE1	n/a	n/a	ENE2	ESE2	SSE2	SSW2	W2
Compartment Link for Drinking Water	n/a	River	River	n/a	n/a	River	River StreamN	River	River	River
Compartment Link for Terrestrial Diet Components ^a	n/a	E1 ^b	SE1 ^c	n/a	n/a	NE2	ESE2 ^b	SSE2 ^c	SW2	W2 ^c
Compartment Link for Aquatic Diet Components ^d	n/a	River	River	n/a	n/a	River	River	River	River	River

			Surfa	ice Soil Vo	lume Elem	ent that An	imal Is Bas	ed in		
Type of Link	N2	NE3	ESE3	SSE3	E4	ESE4	SSE4	ESE5	SSE5	SE6
Compartment Link for Inhalation	NNW2	ENE3	ESE3	SSE3	ENE4	ESE4	SSE4	ESE5	SSE4	ESE5
Compartment Link for Drinking Water	River	River StreamN	Fields	River	Fields	Brewer	Swetts	Brewer	Thurston	Thurston
Compartment Link for Terrestrial Diet Components ^a	N2 ^b	NE3 ^b	ESE3 ^b	SSE3 ^c	E4 ^b	ESE4 ^c	SSE4 ^c	ESE5 ^b	SSE5 ^c	SE6 ^c
Compartment Link for Aquatic Diet Components ^d	River	River	Fields	River	Fields	Brewer	Swetts	Brewer	Thurston	Thurston

^aSame links for soil ingestion and for excretion to surface soil.

^bNE2 for voles in diet.

^cSW2 for voles in diet.

^dSame links for excretion to surface water.

Compartment Links for Water-based Semi-aquatic Animals

		Surface Water Vol	ume Element that	Animal Is Based In	
Type of Link	Swetts Pond	Thurston Pond	Brewer Lake	Fields Pond	River
Compartment Link for Inhalation	SSE3	SSE5	ESE4	ESE4	SSW2
Compartment Link for Drinking Water	Swetts	Thurston	Brewer	Fields	River
Compartment Link for Terrestrial Diet Components	NE2	NE2	NE2	NE2	W1
Compartment Link for Soil Ingestion ^a	SSE4	SSE5	ESE4	ESE3	SSE2
Compartment Link for Aquatic Diet Components ^b	Swetts	Thurston	Brewer	Fields	River

^aSame links for excretion to surface soil.

^bSame links for excretion to surface water.

Aquatic Animal Compartment Types

(same values used for all aquatic animal compartments of a given type, except where noted)

		Water-co	lumn Carnivore	Water-col	lumn Herbivore	Water-co	lumn Omnivore	Benth	ic Carnivore	Benth	ic Omnivore
Parameter Name	Units	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference	Value Used	Reference
All Fish Compartment Types ^a											
			professional		professional		professional		professional		professional
Body weight (BW)	kg[fish wet wt]	2	judgment	0.025	judgment	0.25	judgment	2	judgment	0.25	judgment
					value set based on						
					definition of trophic						
Fraction diet - algae	unitless			1	levels						
											value set based on
											definition of trophic
Fraction diet - benthic invertebrates	unitless									1	levels
									value set based on		
								_	definition of trophic		
Fraction diet - benthic omnivores	unitless							1	levels		
							value set based on				
							definition of trophic				
Fraction diet - water-column herbivores	unitless					1	levels				
			value set based on								
For effect diet westen automatien er eine	24		definition of trophic								
Fraction diet - water-column omnivores	unitless	1	levels								
Constinu linial conimba	kg[lipid]/kg[fish	0.057	Thomann 1989	0.034	Thomann 1989	0.07	Thomann 1989	0.057	Thomann 1989	0.07	Thomann 1989
Fraction lipid weight	wet wt]			0.034		0.07				0.07	
			biomass per area		biomass per area		biomass per area		biomass per area		biomass per area
			divided by body		divided by body		divided by body		divided by body		divided by body
			weight of		weight of		weight of		weight of		weight of
			individual; biomass		individual; biomass		individual; biomass		individual; biomass		individual; biomass
			(1.79E-04 kg/m ²)		(0.00165 kg/m ²)		(5.85E-04 kg/m ²)		(2.14E-04 kg/m ²)		(0.00189 kg/m ²)
	ĺ		taken as mean of		taken as mean of		taken as mean of		taken as mean of		taken as mean of
			selected lake data		selected lake data		selected lake data		selected lake data		selected lake data
	2		in Kelso and		in Kelso and		in Kelso and		in Kelso and		in Kelso and
Population per water area ^D	#/m ²	8.95E-05	Johnson 1991	0.0658	Johnson 1991	0.00234	Johnson 1991	1.07E-04	Johnson 1991	0.00755	Johnson 1991

Parameter Name	Units	Value Used	Reference					
Benthic Invertebrate Compartment Type								
Biomass per water area ^b	kg/m²	0.0373	value for Bewer Lake, state agency					
Body weight (BW)	kg[inv wet wt]	2.55E-04	professional judgment					

^aFor test case, all aquatic animals were assumed to get 100% of their diet from a single volume element (i.e., FractionSpecificCompartmentDiet link property always set to 1.0).

^bAll six aquatic animal compartment types were included in the Swetts Pond, Thurston Pond, Brewer Lake, Fields Pond, and River surface water compartments. No aquatic animal types were included in the Stream S or Stream N compartments.

Chemical-Dependent / Independent of Compartment Type^a

			Value		
Parameter Name	Units	Hg(0) ^b	Hg(2) ^b	MHg ^b	Reference
Diffusion coefficient in pure air	m²[air]/day	0.478	0.478	0.456	EPA 1997
Diffusion coefficient in pure water	m²[water]/day	5.54E-05	5.54E-05	5.28E-05	EPA 1997
Henry's Law constant	Pa-m³/mol	719	7.19E-05	0.0477	EPA 1997
Melting point	degrees K	234	550	443	CARB 1994
Molecular weight	g/mol	201	201	216	EPA 1997
Octanol-water partition coefficient (Kow)	L[water]/kg[octanol]	4.15	3.33	1.7	Mason et al. 1996
Vapor washout ratio	m ³ [air]/m ³ [rain]	1,200	1.6E+06		EPA 1997, based on Petersen et al. 1995

^aAll parameters in this table are TRIM.FaTE chemical properties.

^bOn this and all following tables, Hg(0) = elemental mercury, Hg(2) = divalent mercury, and MHg = methyl mercury.

Chemical-Dependent / Abiotic (same values used for all air compartments, except where noted)

Air Compartment Type

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
	2			_	Case C based on "boundary contributions
Initial concentration	g/m ³	_ a	- a	_a _	only" run
Boundary concentration [VE property] ^b	g/m³	1.60E-09	1.60E-11	0	EPA 1997
	Ū				
Particle dry deposition velocity	m/day	500	500	500	Caltox value cited in McKone et al. 2001
Demethylation rate	1/day	N/A	N/A	0	professional judgment
Methylation rate	1/day	0	0	0	professional judgment
					low end of half-life range (6 months to 2
Oxidation rate	1/day	0.00385	0	0	years) in EPA 1997
Reduction rate	1/day	0	0	0	professional judgment

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^bOnly used in model runs specified as including non-zero boundary contributions (Case C, and also the "boundary contributions only" run). Only applicable for air volume elements with at least one boundary on the outer edge of the modeling region (zero boundary contribution for all internal air compartments).

Chemical-Dependent / Abiotic (same values used for all soil compartments of each type)

Soil Compartment Types

Son Compartment Types			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Surface Soil Compartment Type					
Initial concentration	g/m³	_a	_a	_a	Case C based on "boundary contributions only" run
Input characteristic depth (user supplied)	m	0.08	0.08	0.08	not used (model set to calculate value)
Soil-water partition coefficient	L[water]/kg[soil wet wt]	1,000	58,000	7,000	EPA 1997
Use input characteristic depth (boolean)	0 = no, Else = yes	0	0	0	professional judgment
Vapor dry deposition velocity	m/day	8.64	864	0	EPA 1997 ^b
Demethylation rate	1/day	N/A	N/A		range reported in Porvari and Verta 1995 is 3E-2 to 6E-2 /day; value is average maximum potential demethylation rate constant under anaerobic conditions
Methylation rate	1/day	0	0.001	0	range reported in Porvari and Verta 1995 is 2E-4 to 1E-3 /day; value is average maximum potential methylation rate constant under anaerobic conditions
Oxidation rate	1/day	0	0	0	value assumed in EPA 1997
Reduction rate	1/day	0	1.25E-05	0	value used for untilled surface soil (2cm), 10% moisture content, in EPA 1997; general range is (0.0013/day)*moisture content to (0.0001/day)*moisture content for forested region (Lindberg 1996; Carpi and Lindberg 1997)
Root Zone Soil Compartment Type					<u></u>
Initial concentration	g/m³	_a	_a	_a	Case C based on "boundary contributions only" run
Input characteristic depth (user supplied)	m	0.08	0.08	0.08	not used (model set to calculate value)
Soil-water partition coefficient	L[water]/kg[soil wet wt]	1,000	58,000	7,000	EPA 1997
Use input characteristic depth (boolean)	0 = no, Else = yes	0	0	0	professional judgment

Chemical-Dependent / Abiotic (same values used for all soil compartments of each type)

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
					range reported in Porvari and Verta 1995 is 3E-2 to 6E-2 /day; value is average maximum potential
					demethylation rate constant under anaerobic
Demethylation rate	1/day	N/A	N/A		conditions
					range reported in Porvari and Verta 1995 is 2E-4 to
					1E-3 /day; value is average maximum potential
Mathylatica rate	4 /do. (0.004		methylation rate constant under anaerobic
Methylation rate	1/day	0	0.001	0	conditions
Oxidation rate	1/day	0	0	0	value assumed in EPA 1997
					value used for tilled surface soil (20cm), 10%
	4/1		0.055.00		moisture content, in EPA 1997 (Lindberg 1996;
Reduction rate Vadose Zone Soil Compartment Type	1/day	0	3.25E-06	0	Carpi and Lindberg, 1997)
vadose zone son compartment Type					
Initial concentration	g/m³	_a	_a	_a	Case C based on "boundary contributions only" run
Input characteristic depth (user supplied)	m	0.08	0.08	0.08	not used (model set to calculate value)
	L[water]/kg[soil wet				,
Soil-water partition coefficient	wt]	1,000	58,000	7,000	EPA 1997
Use input characteristic depth (boolean)	0 = no, Else = yes	0	0	0	professional judgment
Coc input orial acterious depair (posicality	0 = 110, Lise = yes	0	U		range reported in Porvari and Verta 1995 is 3E-2 to
					6E-2 /day; value is average maximum potential
					demethylation rate constant under anaerobic
Demethylation rate	1/day	N/A	N/A	0.06	conditions
					range reported in Porvari and Verta 1995 is 2E-4 to 1E-3 /day; value is average maximum potential
					methylation rate constant under anaerobic
Methylation rate	1/day	0	0.001		conditions
Oxidation rate	1/day	0	0	0	value assumed in EPA 1997
Oxidation fate	1/uay	U	U	0	value assumed in EPA 1997 value used for tilled surface soil (20cm), 10%
					moisture content, in EPA 1997 (Lindberg 1996;
Reduction rate	1/day	0	3.25E-06		Carpi and Lindberg, 1997)

Chemical-Dependent / Abiotic (same values used for all soil compartments of each type)

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Ground Water Compartment Type					
Initial concentration	g/L	_a	_a	_a	Case C based on "boundary contributions only" run
Soil-water partition coefficient	L[water]/kg[soil wet wt]	1,000	58,000	7,000	EPA 1997
					range reported in Porvari and Verta 1995 is 3E-2 to 6E-2 /day; value is average maximum potential demethylation rate constant under anaerobic
Demethylation rate	1/day	N/A	N/A	0.06	conditions
					range reported in Porvari and Verta 1995 is 2E-4 to 1E-3 /day; value is average maximum potential methylation rate constant under anaerobic
Methylation rate	1/day	0	0.001	_	conditions
Oxidation rate	1/day	1.00E-08	0		small default nonzero value (0 assumed in EPA 1997)
Reduction rate	1/day	0	3.25E-06		value used for tilled surface soil (20cm), 10% moisture content, in EPA 1997 (Lindberg 1996; Carpi and Lindberg, 1997)

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment. ^bValues in EPA 1997 actually 50 (Hg0) and 2,500 (Hg2). Listed values used inadvertantly.

Chemical-Dependent / Abiotic (same values used for all surface water compartments)

Surface Water Compartment Type

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Initial concentration	g/L	_a	_a	_a	Case C based on "boundary contributions only" run
Algal surface area-specific uptake rate constant	nmol/[µm²-day-nM]	0	2.04E-10	3.60E-10	Mason et al. 1996; zero assumed for Hg(0)
Dow ("overall Kow")	L[water]/kg[octanol]	0	_b	_c	derived from Figure 2 in Mason et al. 1996
Solids-water partition coefficient	L[water]/kg[solids wet wt]	1,000	100,000	100,000	EPA 1997
Vapor dry deposition velocity	m/day	N/A	864	N/A	EPA 1997 ^d
Demethylation rate	1/day	N/A	N/A	0.013	average of range of 1E-3 to 2.5E-2/day from Gilmour and Henry 1991
Methylation rate	1/day	0	0.001	0	value used in EPA 1997; range is from 1E-4 to 3E-3/day (Gilmour and Henry 1991)
Oxidation rate	1/day	0	0	0	professional judgment
Reduction rate	1/day	0	0.0075	0	value used in EPA 1997; reported values range from less than 5E-3/day for depths greater than 17m, up to 3.5/day (Xiao et al. 1995; Vandal et al. 1995; Mason et al. 1995a; Amyot et al. 1997)

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^bTRIM.FaTE Formula Property (*i.e.,* calculated, not an input), which varies from 0.025 to 1.625 depending on input pH and chloride concentration.

^cTRIM.FaTE Formula Property (*i.e.,* calculated, not an input), which varies from 0.075 to 1.7 depending on input pH and chloride concentration.

^dValue in EPA 1997 actually 2,500 (Hg2). Listed value used inadvertantly.

Chemical-Dependent / Abiotic (same values used for all sediment compartments)

Sediment Compartment Type

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Initial concentration	g/m³	_a	_a	_a	Case C based on "boundary contributions only" run
Solids-water partition coefficient	L[water]/kg[solids wet wt]	3,000	50,000		EPA 1997
					average of range of 2E-4 to 1E-1/day from Gilmour and
Demethylation rate	1/day	N/A	N/A		Henry 1991
					value used in EPA 1997; range is from 1E-5 to 1E-3/day
Methylation rate	1/day	0	1.00E-04	0	(Gilmour and Henry 1991)
Oxidation rate	1/day	0	0		professional judgment
					inferred value based on presence of Hg(0) in sediment
Reduction rate	1/day	0	1.00E-06	0	porewater (EPA 1997; Vandal et al. 1995)

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

Chemical-Dependent / Biotic

(same values used for all terrestrial plant compartments of each type, except for initial concentration)

Terrestrial Plant Compartment Types^a

Terrestriai i iant compartment	1		Value			
Parameter Name	Units	Hg(0) Hg(2)		MHg	Reference	
Leaf Compartment Type						
		b	b	5	Case C based on "boundary contributions	
Initial concentration	g/kg	_b	_b	_b	only" run	
Transfer factor to leaf particle	1/day	0.002	0.002	0.002	professional judgment (assumed 1% of transfer factor from leaf particle to leaf)	
Transfer factor to lear particle	1/day	0.002	0.002	0.002	transfer factor from lear particle to lear)	
Demethylation rate	1/day	N/A	N/A	0.03	calculated from Bache et al. 1973	
Methylation rate	1/day	0	0	0	assumed from Gay 1975, Bache et al. 1973	
					professional judgment; assumed close to	
Oxidation rate	1/day	1.0E+06	0	0	instantaneous	
Reduction rate	1/day	0	0	0	professional judgment	
Particle-on-leaf Compartment	Туре					
Initial concentration	g/kg	_b	_b	_b	Case C based on "boundary contributions only" run	
Transfer factor to leaf	1/day	0.2	0.2	0.2	professional judgment	
Transier factor to lear	1/day	0.2	0.2	0.2	professional judgment	
Demethylation rate	1/day	N/A	N/A	0	professional judgment	
Methylation rate	1/day	0	0	0	professional judgment	
Oxidation rate	1/day	0	0	0	professional judgment	
Reduction rate	1/day	0	0	0	professional judgment	
Root Compartment Type - Non	woody Plants Only	, ^c			•	
Initial concentration	g/kg	_b	_b	_b	Case C based on "boundary contributions only" run	
Alpha for root-root zone bulk soil	unitless	0.95	0.95	0.95	selected value	
	_				Hg2- geometric mean Leonard et al. 1998,	
Root/root-zone-soil-water partition	m ³ [bulk root				John 1972, Hogg et al. 1978; MHg-	
coefficient	soil]/m³[root]	0	0.18	1.2	assumed, based on Hogg et al. 1978	

Chemical-Dependent / Biotic

(same values used for all terrestrial plant compartments of each type, except for initial concentration)

Terrestrial Plant Compartment Types^a

	Value				
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
t-alpha for root-root zone bulk soil	day	21	21	21	professional judgment
Demethylation rate	1/day	N/A	N/A	0	professional judgment
Methylation rate	1/day	0	0	0	professional judgment
Oxidation rate	1/day	0	0	0	professional judgment
Reduction rate	1/day	0	0	0	professional judgment
Stem Compartment Type - No	nwoody Plants Only	С			
Initial concentration	g/kg	_b	_b	_b	Case C based on "boundary contributions only" run
Transpiration stream concentration factor (TSCF)	m ³ [soil pore water]/m ³ [xylem fluid]	0	0.5	0.2	calculation from Norway spruce, Scots pine, Bishop et al. 1998
Demethylation rate	1/day	N/A	N/A	0.03	calculated from Bache et al. 1973
Methylation rate	1/day	0	0	0	professional judgment
Oxidation rate	1/day	0	0	0	professional judgment
Reduction rate	1/day	0	0	0	professional judgment

^aTRIM.FaTE currently includes four kinds of terrestrial plants (*i.e.*, vegetation types): deciduous forest, coniferous forest, grasses/herbs, and agricultural (agricultural not used in mercury test case). Same chemical-dependent values used for each, except for initial concentration in Case C.

^bSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^cRoots and stems are not modeled for deciduous or coniferous forest vegetation type in the current version of TRIM.FaTE.

Chemical-Dependent / Biotic (same values used for all macrophyte compartments)

Aquatic Plant Compartment Type

			Value				
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference		
Macrophyte Compartment Type							
					Case C based on "boundary contributions only"		
Initial concentration	g/kg	_a	_a	_ a	run		
Alpha for macrophyte	unitless	0.95	0.95	0.95	selected value		
	L[water]/kg[mac		0.00				
Macrophyte/water partition coefficient	rophyte wet wt]	0.883	0.883	4.4	Elodea densa, Ribeyre and Boudou 1994		
Oxidation rate	1/day	1.00E+09	0	0	professional judgment		
	·				experiment duration from Ribeyre and Boudou		
t-alpha	day	18	18	18	1994		

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

Chemical-Dependent / Biotic (same values used for all terrestrial animal compartments of each type)

Terrestrial Animal Compartment Types

		Value				
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference	
Soil Detritivore - Earthworm						
					Case C based on "boundary contributions	
Initial concentration	g/kg	_a	_a	_a	only" run	
Alpha for worm-bulk soil	unitless	0.95	0.95	0.95	selected value	
Earthworm/dry-soil partition coefficient	kg [soil dry wt]/kg[worm dry wt]	0.36	0.36	0.36	Bull et al. 1977	
Larthworth/dry-son partition coefficient	wtj/kg[worm dry wtj	0.30	0.30	0.50	assumed same as metals in earthworms,	
t-alpha for worm-bulk soil	day	21	21	21	Janssen et al. 1997	
Soil Detritivore - Soil Arthropod	,		•		-	
Initial concentration	g/kg	_a	_a	_a	Case C based on "boundary contributions only" run	
Alpha for arthropod-soil	unitless	0.95	0.95	0.95	selected value	
	kg[soil wet wt]/kg[arthropod wet				Hg(2) - median from Talmage and Walton 1993; MHg - median from Nuorteva and	
Arthropod/bulk-soil partition coefficient	wt])	0	0.46	2.9	Nuorteva 1982	
	1/				assumed same as metals in earthworms,	
t-alpha for arthropod-soil	day	21	21	21	Janssen et al. 1997	
All Other Terrestrial Animal Con	npartment Types ^b					
Initial concentration	g/kg	_a	_a	_a	Case C based on "boundary contributions only" run	
Assimilation efficiency for inhalation	unitless	0.75	0.4	0.75	Hg(0) - based on human values, ATSDR 1997, Teisinger and Fiserova-Bergerova 1965; Hg(2) - based on dog value, EPA 1997; MHg - assumed same as Hg(0)	
Assimilation efficiency from arthropods	unitless	1	1	1	set to 1 ^c	
Assimilation efficiency from food	unitless	1	1	1	set to 1 ^c	
Assimilation efficiency from terrestrial plants	unitless	1	1	1	set to 1 ^c	

Chemical-Dependent / Biotic (same values used for all terrestrial animal compartments of each type)

Terrestrial Animal Compartment Types

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Assimilation efficiency from soils	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from water	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from worms	unitless	1	1	1	set to 1 ^c
Total elimination rate	1/day	0.05	0.48	0.26 ^d /0.086 ^e	see Attachment A-3 for documentation
Demethylation rate	1/day	N/A	N/A	0.09	for rats, Takeda and Ukita 1970
Methylation rate	1/day	0	0	0	professional judgment
Oxidation rate	1/day	1	0	0	professional judgment
Reduction rate	1/day	0	0	0	professional judgment

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^bTest case includes Terrestrial Ground-Invertebrate Feeder - Short-tailed Shrew, Terrestrial Herbivore - Meadow Vole, Terrestrial Herbivore - White-tailed Deer, Terrestrial Insectivore - Black-capped Chickadee, Terrestrial Omnivore - Mouse, Terrestrial Carnivore - Long-tailed Weasel, and Terrestrial Carnivore - Red-tailed Hawk.

^cAll ingestion assimilation efficiencies set to 1 to be consistent with excretion rate calculations. Excretion rates are all based on ingested (not absorbed) dose, hence assimilation efficiency must equal 1.

^dValue for all mammals.

^eValue for all birds.

Chemical-Dependent / Biotic (same values used for all semi-aquatic animal compartments of each type)

Semi-aquatic Animal Compartment Types^a

			Value		
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference
Initial concentration	g/kg	_b	_b	_b	Case C based on "boundary contributions only" run
					Hg(0) - based on human values, ATSDR 1997, Teisinger and Fiserova-Bergerova 1965; Hg(2) - based on dog value, EPA 1997; MHg -
Assimilation efficiency for inhalation	unitless	0.75	0.4	0.75	assumed same as Hg(0)
Assimilation efficiency from arthropods	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from food	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from terrestrial plants	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from soils	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from water	unitless	1	1	1	set to 1 ^c
Assimilation efficiency from worms	unitless	1	1	1	set to 1 ^c
Total elimination rate	1/day	0.05	0.48	0.26 ^d /0.086 ^e	see Attachment A-3 for documentation
Demethylation rate	1/day	N/A	N/A	0.09	for rats, Takeda and Ukita 1970
Methylation rate	1/day	0	0	0	professional judgment
Oxidation rate	1/day	1	0	0	professional judgment
Reduction rate	1/day	0	0	0	professional judgment

^aTest case includes Semi-aquatic Insectivore - Tree Swallow, Semi-aquatic Omnivore - Mallard, Semi-aquatic Omnivore - Raccoon, Semi-aquatic Piscivore - Common Loon, Semi-aquatic Carnivore - Mink, and Semi-aquatic Carnivore - Bald Eagle.

^bSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^cAll ingestion assimilation efficiencies set to 1 to be consistent with excretion rate calculations. Excretion rates are all based on ingested (not absorbed) dose, hence assimilation efficiency must equal 1.

^dValue for all mammals.

^eValue for all birds.

Chemical-Dependent / Biotic (same values used for all aquatic animal compartments of each type)

Aquatic Animal Compartment Types

	Value					
Parameter Name	Units	Hg(0)	Hg(2)	MHg	Reference	
Benthic Invertebrate Compartment	Туре					
Initial concentration	g/kg	_a	_a	_a	Case C based on "boundary contributions only" run	
Alpha of equilibrium for sediment partitioning		0.95	0.95	0.95	selected value	
Benthic invertebrate-bulk sediment partition coefficient	kg[bulk sediment]/kg[invert ebrate wet wt]	0.0824	0.0824	5.04	Hg(0) - assumed based on Hg(2) value; Hg(2) and MHg - Saouter et al. 1991	
t-alpha for equilibrium for sediment partitioning	day	14	14	14	experiment duration from Saouter et al. 1991	
All Fish Compartment Types ^b						
Initial concentration	g/kg	_a	_a	_a	Case C based on "boundary contributions only" run	
Assimilation efficiency from food	unitless	0.04	0.04	0.2	Phillips and Gregory 1979	
Elimination adjustment factor	unitless	3	3	1	Trudel and Rasmussen 1997	
Demethylation rate	1/day	N/A	N/A	0	professional judgment	
Methylation rate	1/day	0	0	0	professional judgment	
Oxidation rate	1/day	1.0E+06	0	0	professional judgment	
Reduction rate	1/day	0	0	0	professional judgment	

^aSet to zero for Cases A and B. Values for Case C set to final concentration from 30-year "boundary contributions only" run for each compartment.

^bTest case includes Benthic Carnivore, Benthic Omnivore, Water-column Carnivore, Water-column Herbivore, and Water-column Omnivore.

Source, Meteorological, and Other Input Data and Settings

g/day g/day m	335.6 ^a 17.663	Total mercury test case) Total mercury based on estimates supplied by state agency, 1999, speciation assumed to be 95% Hg0 Total mercury based on estimates supplied by state agency, 1999, speciation assumed to be 5% Hg2
g/day m	17.663	speciation assumed to be 95% Hg0 Total mercury based on estimates supplied by state agency, 1999,
g/day m	17.663	Total mercury based on estimates supplied by state agency, 1999,
m		
m		speciation assumed to be 5% Hg2
	0.04	
scenario nro	0.01	Assumed value for ground-level fugitive emissions
scenario pro	perties, except mixir	ng height)
egrees K	varies hourly ^b	Local composite met data, 1987-1991 (ave = 280 K)
		Local composite met data, 1987-1991 (ave = 3.64 m/sec); used minimum
	varies hourly ^b	value of 0.75 m/sec for mercury test case
	h	
	varies hourly ⁵	Local composite met data, 1987-1991
		Local composite met data, 1987-1991 (annual totals = 93, 78, 112, 123,
ea]-day	varies hourly ^D	and 113 cm) ^c
		Calculated from hourly local composite met data, 1987-1991 (used
		calculated values for rural setting) (ave = 887 m); used minimum value of
m	varies hourly⁵	20 m for mercury test case
ay, 0=night	varies hourly ^d	Based on sunrise/sunset data for source latitude and longitude
o properties)	
ato/timo	1/1/1097 midnight	Selected to match start of meteorological data set
ate/time		·
-1-/1:		Selected to provide 30-year (Case A and B) or 40-year (Case C) modeling
ate/time	1/1/2027, midnight	period
hr	1	Selected value
hr	2	Selected value
	egrees K m/sec es clockwise N (blowing from) n]/m²[surface rea]-day m ay, 0=night o properties ate/time hr hr	egrees K varies hourlyb varies hourlyd varies hourlyb varies hourlyb varies hourlyd varies hourlyd varies hourlyd varies hourlyb varies hourl

^aValue used for Dynamic Cases B and C and Steady-state Case. Set to 0 for Dynamic Case A.

^bInput data used repeats in five-year cycle throughout modeling period based on 1987-1991 meteorological data. Different value (and approach for wind data) used for steady-state modeling (see Chapter 4).

^cRainfall data missing for April 1988 in data source; zero precipitation assumed for that month.

^dDifferent value used for steady-state modeling (see Chapter 4).

^eOutput time step is set in TRIM.FaTE using the scenario properties "simulationStepsPerOutputStep" and "simulationTimeStep."

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Attachment A-1 Summary of Method Used to Estimate Runoff/Erosion Fractions for the Mercury Test Case

Starting point. Final surface parcel layout map (GIS) for the modeling region, along with watershed delineation map (GIS) and USGS topographic map (hard copy) for the modeling region.

- *Step 1*. Identified the main watersheds within the modeling region and define the watershed boundaries.
- *Step 2*. For each soil parcel, identified the watersheds located within (or partly within) the parcel, and the percentage of the parcel surface area covered by each watershed. The percentages of parcel area covered by each watershed were calculated using GIS software.
- *Step 3*. For each soil parcel (i.e., sending parcel for runoff/erosion), determined all neighboring parcels (i.e., potential receiving parcels, which can be either soil or surface water parcels or soil advection sinks) based on the existence of a common border.
- *Step 4*. Created a transparent map overlay of watershed boundaries and surface parcel boundaries, scaled to the topographic map. Lined up the overlay on the topographic map.
- Step 5. For each watershed portion located within each soil parcel (sending parcel), estimated the percentage of the watershed portion surface area that drains into each neighboring parcel (receiving parcel). Made these estimates based on the elevation data and water body locations shown on the topographic map. Drainage was assumed to be downhill and perpendicular to lines of elevation. It was assumed that water will not cross watershed boundaries. Estimates were made in 5% increments.

See Table 1 for illustrative sample data. For example, assume Parcel A contains two different watersheds. Watershed 1 covers 60% of the parcel. 50% of the Watershed 1 portion in Parcel A is estimated to drain to Parcel B, with 25% estimated to drain to Parcel C and 25% to Parcel D.

Table 1
Sample Data and Calculations

Sending			Receiving		% Total Flow
Parcel	Watershed	% Parcel	Parcel	% Runoff	(% Parcel x % Runoff)
A	1	60%	В	50%	30%
			C	25%	15%
			D		15%
A	2	40%	В	0%	0%
			C	50%	20%
			D	50%	20%
В	1	100%	A	0%	0%
			C	0%	0%
			E	0%	0%
			F	100%	100%

The % Runoff estimates were done independently by two people to minimize error in map interpretation and as a check on subjective judgments in assigning percentages.

Step 6. Compared % Runoff estimates made by different people to identify and reconcile obvious discrepancies. For the mercury test case, estimates differing by 20% or more were reevaluated. After discrepancies were addressed, we averaged the estimates and rounded to the nearest 5%.

Step 7. For each watershed within each sending parcel, estimated the % Total Flow to each receiving parcel by multiplying the % Parcel by the % Runoff (see Table 1 for sample calculations).

Step 8. For each combination of sending parcel-receiving parcel (e.g., $A \rightarrow B$, $B \rightarrow A$, $A \rightarrow C$), summed the % Total Flow for all contributing watersheds. These sums were then converted to the runoff/erosion fractions used as inputs to TRIM FaTE for the mercury test case. As a QA check, we made sure that the values for each sending parcel sum to 100%. For the Table 1 illustrative example, the runoff/erosion percentages are shown for each parcel combination in Table 2.

Table 2
Sample Runoff/Erosion Percentages and Fractions

Parcel Combination	Runoff/Erosion %	Runoff/Erosion Fraction
A→B	30%	0.3
A→C	35%	0.35
A→D	35%	0.35
B→A	0%	0
B→C	0%	0
B→E	0%	0
B→F	100%	1.0

Attachment A-2

Documentation of Food Ingestion Rate Values for Terrestrial and Semiaquatic Animals for Mercury Test Case

(1) Chickadee

Food ingestion rate: 0.74 kg[food wet wt]/kg[body weight (BW) wet]-day

Smith (1993) reports that while no data on nutrition and food ingestion by black-capped chickadees are available, parids of comparable size require 10 kcal/day (41.8 kJ/day). Assuming that the chickadee diet consists 100 percent of insects, the chickadee wet body weight (BW) is 0.0108 kg (Dunning 1993), and energy and water content of insects are 22.1 kJ/g dry weight (5.28 kcal/g dry wt) and 76.3 percent, respectively (Bell 1990), daily food ingestion by chickadees would be 0.74 kg[food wet wt]/kg[BW wet]-day.

(2) Short-tailed shrew

Food ingestion rate: 0.47 kg[food wet wt]/kg[BW wet]-day

The mean daily ingestion rate of shrews in Barrett and Stueck (1976) was 0.49 kg[food wet wt]/kg[BW wet]-day. The value of 0.47 that was included in the mercury test simulations is close to the value from Barrett and Stueck (1976). Caged shrews were fed mealworms, which have essentially the same water content as the natural prey of shrews.

(3) Meadow vole

Food ingestion rate: 0.097 kg[food wet wt]/kg[BW wet]-day

Food intake by meadow voles when exposed to 14-h days was 0.095 ± 0.002 (mean \pm SE) kg[food wet wt]/kg[BW wet]-day; intake by individuals exposed to 10-h days was 0.085 ± 0.005 kg/kg-day (wet wt) (Dark et al. 1983). Mean food consumption by prairie voles (assumed to weigh 35 g; Burt and Grossenheider 1976) was 0.088 kg/kg-day (wet wt) and 0.12 kg/kg-day (wet wt) when ambient temperatures were 21 degrees and 28 degrees Celsius, respectively (Dice 1922).

(4) White-tailed deer

Food ingestion rate: 0.05 kg[food wet wt]/kg[BW wet]-day

Mautz et al. (1976) reported a 1.74 kg/day diet for a 35 kg deer, which represents maintenance of the deer through the winter. There is no value adjustment for summer, because the energy required by females to thermoregulate and gestate in the winter might be roughly equivalent to the energy for late gestation and lactation.

(5) Tree swallow

Food ingestion rate: 0.198 kg[food wet wt]/kg[BW wet]-day

Female tree swallows in New Brunswick, Canada in the summer were observed to require $5.73 \pm 1.40 \text{ kJ/g-day}$ (mean \pm SD; n=10; Williams 1988). Using body weights reported in Williams (1988, 22.6 g), assuming that the diet consists exclusively of insects (Quinney and Ankney

1985), and that the energy and water content of insects are 22.09 kJ/g dry weight (5.28 kcal/g dry wt) and 76.3 percent, respectively (Bell 1990), daily food consumption by tree swallows is estimated to be 0.198 ± 0.048 kg[food wet wt]/kg[BW wet]-day. [Note: the calculation for food ingestion rate is incorrect; it should have been 0.34 kg/kg-day (wet wt).]

(6) White-footed mouse

Food ingestion rate: 0.20 kg[food wet wt]/kg[BW wet]-day

Green and Millar (1987) observed an ingestion rate of 3.4 g/day, for laboratory mice fed Purina rat chow of an average weight of 21 g eating standard food, or a food ingestion rate of 0.16 kg[food dry wt]/kg[BW wet]-day. Body weight and gut dimensions of male and female mice did not differ, so data from both sexes were pooled (reported as g food consumed/individual-day). Food ingestion rate was normalized to body weight using body weights reported in study. The water content of Purina rat chow is approximately 0.10 (or 10 percent). The water content (WC) of the natural diet of white-footed mice is higher. Their diet includes seeds (WC of 0.09), vegetation (WC of 0.10 for mature dry grass, 0.7 to 0.88 for growing grasses), and soil arthropods (WC of 0.60 to 0.70) (US EPA 1993). We assumed that the diet consists primarily of seeds and dry grasses (80 percent), but includes also soil arthropods (20 percent), for an overall moisture content of approximately 0.20. The wet food ingestion rate = the dry food ingestion rate divided by (1-WC), or in this case, the wet food ingestion rate = 0.20 kg[food wet wt]/kg[BW]-day/(1-0.20)).

(7) Long-tailed weasel

Food ingestion rate: 0.0735 kg[food wet wt]/kg[BW wet]-day

Brown and Lasiewski (1972) reported the mean metabolism of male and female long-tailed weasels to be 1.36 ± 0.2 and 0.84 ± 0.12 (SE) kcal/hr, respectively. Assuming that male and female weasels weigh 0.297 kg and 0.153 kg (Brown and Lasiewski 1972), respectively, that the diet consists exclusively of small mammals with an energy content of 5163 kcal/kg (or 5.163 kcal/g) dry weight (Golley 1961), and that the water content of small mammals is 68 percent (US EPA 1993), male and female weasels consume 0.067 and 0.080 kg[food wet wt]/kg[BW wet]-day, respectively.

(8) Red-tailed hawk

Food ingestion rate: 0.12 kg[food wet wt]/kg[BW wet]-day

Preston and Beane (1993) cite a study (Craighead and Craighead 1956) in which males ate an average of 147 g/day (13 percent of body weight) and females an average of 136 g/day (11 percent of body weight) during fall-winter. Males ingested 82 g/day (7 percent of body weight), and females only 85 g/day (7 percent), during spring-summer. To be conservative, the fall-winter food ingestion rate (average of 12 percent) was used.

(9) Mallard

Food ingestion rate: 0.1 kg[food wet wt]/kg[BW wet]-day

Heinz et al. (1987) report that mallards maintained in the laboratory consumed 0.1 kg[food dry wt]/kg[BW wet]-day. The water content of this diet (mostly seeds) ranged from 7-10 percent.

Because the plant material consumed by mallards consists largely of seeds, and the mean water content of seeds is 9.3 percent (US EPA 1993), the food ingestion rate used by Heinz may be used to represent the wet weight food ingestion rate without adjusting for water content.

(10) Mink

Food ingestion rate: 0.14 kg[food wet wt]/kg[BW wet]-day

Bleavins and Aulerich (1981) reported a food ingestion rate of 0.14 kg[food wet wt]/kg[BW wet]-day for male and female mink in captivity. The diet consisted of chicken (20 percent), commercial mink cereal (17 percent), fish scraps (13 percent), beef parts, cooked eggs, powdered milk, and added water. The water content of that diet as fed to the mink was 66.2 percent, which is roughly equivalent to the water content of a natural mink diet.

(11) Raccoon

Food ingestion rate: 0.11 kg[food wet wt]/kg[BW wet]-day

Using a body weight of 6.35 kg for an adult raccoon from EPA (1993) and the allometric equation for omnivorous mammals from Nagy et al. (1999), it is estimated that a raccoon would need 548 kcal daily or 86 kcal/kg-day. Assuming 0.95 kcal/g as an average gross energy content of the diet (wet wt), and an assimilation efficiency of 0.85, a raccoon would need 678 g of the diet daily, or 0.11 kg[food wet wt]/kg[BW wet]-day.

(12) Common loon

Food ingestion rate: 0.23 kg[food wet wt]/kg[BW wet]-day

Assuming a diet of 100 percent fish, a gross energy content of 1.2 kcal/g[fish wet wt], and an energy assimilation efficiency of 79 percent for seabirds eating fish and using Nagy et al.'s (1999) allometric equation for seabirds consuming fish, we calculated a food ingestion rate for loons of 0.23 kg[food wet wt]/kg[BW wet]-day.

(13) Bald eagle

Food ingestion rate: 0.12 kg[food wet wt]/kg[BW wet]-day

The value of 0.12 kg[food wet wt]/kg[BW wet] is for adults with an assumed body weight of 4.5 kg eating 100 percent fish. It is based on a field study conducted in the winter by Stalmaster and Gessaman (1984) where the eagles were provisioned with fish of known weights.

References for Attachment A-2

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Attachment A-3

Documentation of Total Elimination Rate Values for Terrestrial and Semiaquatic Animals for the Mercury Test Case

First-order rate constants used to derive the mercury elimination rate constants for wildlife in the current TRIM.FaTE library are summarized in Table 1. Supporting information is presented in the subsections that follow.

Table 1
Mean First-order Rate Constants (day⁻¹) for Elimination of Mercury from Birds and Mammals

	Chemical Species	Urine and Feces (E_{uf})	Lactation (E_{lact})	$\frac{\textbf{Eggs}}{(E_{egg})}$	Fur, Feathers, or Hair $(E_{\it ff})$
	Hg^{2+}	$0.48^{\rm a}$	0.00001	NA	0.00001
mammals	Hg^0	0.0502 ^b	$0_{\rm p}$	NA	O_p
	organic Hg	0.26^{a}	0.00001°	NA	0.00014 ^d
	Hg ²⁺	0.48 ^e	NA	$0^{\rm f}$	0.00011 ^g
birds	Hg ⁰	0.0502 ^b	NA	$0_{\rm p}$	O_p
	organic Hg	0.0282ª	NA	0.0244	0.0559

^a Averages of elimination rate constants for oral and dietary doses.

For each mercury species, the total elimination rate constant for birds or mammals is equal to the sum of the excretion rate constants in Table 1 for urine and feces; lactation (mammals), and fur, hair (mammals), or feathers (birds). In the current TRIM.FaTE library, chemical excretion to eggs is assumed to remain within the bird population compartment, hence it is not included in the total bird elimination rate constant for organic mercury.

Elemental Mercury

Elemental mercury vapor is rapidly absorbed in the lungs (75 to 85 percent in humans), and to a much lesser extent (three percent), it can be absorbed dermally (ATSDR 1997, U.S. EPA 1997). Five human subjects inhaled from 107 to 202 $\mu g[Hg]/m^3[air]$ and retained an average of 74 percent of the dose (Teisinger and Fiserova-Bergerova 1965). The inhaled vapor readily distributes throughout the body and can cross the blood-brain and placental barriers.

Rats exposed for 5 hours to 1.4 mg/m³ radio-labeled mercury vapor retained an average body burden of 0.256 mg/kg BW (37 µg[Hg]/rat) and had excreted (urine and feces) 8.5 percent of the initial body burden in 1 day, 24.8 percent in 5 days, and 42.9 percent in 15 days (Hayes

^bRate constant based on inhalation study for mammals; same value assumed for birds.

^c Assume same as lactation rate constant for Hg²⁺.

^d Averages of elimination rate constants for oral dose and injection.

^e Assume same as elimination rate constant to mammalian urine and feces.

^f No information available.

g Assume same as elimination rate constant to mammal fur.

and Rothstein 1962). Cherian et al. (1978) exposed 5 human volunteers to approximately 1 μ Ci of radio-labeled Hg vapor for approximately 19 minutes. Mean cumulative excretion over the first 7 days after exposure was 2.4 percent of the retained dose in urine and 9.2 percent in feces for a total excretion of 11.6 percent of the retained dose (Cherian et al. 1978).

Rates of excretion of elemental mercury by mammals (rats and humans) are summarized in Table 2 (mean value presented in Table 1). No information on excretion by avian species is available.

Table 2
Excretion of Inhaled Elemental Mercury (Hg°) in Mammals

Test Species	Dose	Elimination Route	Percent of Dose	Days	Rate Constant (Day ⁻¹)	Source
Rat	0.256 mg/kg	urine + feces	8.5	1	0.08883	Hayes & Rothstein 1962
Rat	0.256 mg/kg	urine + feces	24.8	5	0.05700	Hayes & Rothstein 1962
Rat	0.256 mg/kg	urine + feces	42.9	15	0.03736	Hayes & Rothstein 1962
Human	1 μCi	urine + feces	11.6	7	0.01761	Cherian et al. 1978
			≅ <u>+</u> S	E	0.0	05020 <u>+</u> 0.01518

Divalent Mercury

Divalent mercury can be absorbed through oral, dermal, and inhalation routes; however, absorption is lower than for elemental mercury by all routes. In mice, only 20 percent of the administered dose is absorbed from the GI tract, 2-3 percent of the dose was absorbed dermally in exposed guinea pigs, and limited information on inhalation exposure indicates that 40 percent of the dose was absorbed in the lungs of dogs (U.S. EPA 1997). Additionally, the absorption of mercuric salts varies with the solubility of the specific salt. For example, the less soluble sulfide salt is more poorly absorbed as mercuric sulfide than the more soluble chloride salt as mercuric chloride (U.S. EPA 1997). Divalent mercury distributes widely throughout the body; however, it cannot cross the blood-brain or placental barriers.

The metabolism and distribution of mercuric chloride (HgCl₂) has been described in dairy cows and rats. Potter et al. (1972) orally administered 344 µCi of radio-labeled mercuric chloride by gelatin capsule using balling gum to 2 Holstein cows. After 6 days, 94.87 percent of the dose was excreted in feces, 0.044 percent in urine, and 0.0097 percent in milk, for a total excretion of 94.92 percent of the dose. The biological half-life was calculated as 28.5 hours. Rats dosed by intravenous injection with 1 mg[Hg]/kg[body weight] mercuric chloride excreted 15.2 percent of the dose in feces and 16.3 percent in urine over 4 days for a total excretion (fecal and urinary) of 31.5 percent of the administered dose in 4 days (Gregus and Klaassen 1986).

The metabolism and distribution of mercuric nitrate [Hg(NO₃)₂] have also been described for dairy cows and rats. Four Holstein dairy cows were given an oral dose of 1.7 mCi radiolabeled Hg(NO₃)₂ in a gelatin capsule via balling gum. Urine, feces, and milk were collected for 10 days and analyzed. Results indicated that 74.91 percent of the administered dose was excreted in feces, 0.08 percent in urine, and 0.01 percent in milk with a total excretion of 75 percent of the dose in 10 days (Mullen et al. 1975). Mullen et al. (1975) also reported a biological half-life for the transfer of orally ingested mercury to milk of 5 days. Transfer of mercury to feces was slightly more complicated with an initial half-life of 15 hr (probably reflecting the unabsorbed dose), then a decrease in elimination time which resulted in a 3 day half-life (probably representing excretion of the absorbed dose) (Mullen et al. 1975). Rothstein and Hayes (1960) dosed 7 Wistar rats with 50 µg (0.2 mg[Hg]/kg[body wt]) radio-labeled mercury as Hg(NO₃)₂ via intravenous injection. After 52 days the cumulative percent excretion was 25 percent of the administered dose in urine and 37 percent in feces for a total excretion of 62 percent of the injected dose over 52 days (Rothstein and Hayes 1960). In another study, 6 Holtzman rats were dosed by subcutaneous injection with 20 μCi of radio-labeled Hg(NO₃)₂, and 0.018 percent of the dose was recovered in the hair 20 days after administration (Mansour et al. 1973). For pregnant female rats, a clearance half-time of 16.2 days was also reported (18 measurements over a 3-week period).

Fitzhugh et al. (1950) exposed rats (20/dose group) to mercuric acetate in the diet at concentrations of 0.5, 2.5, 10, 40, and 160 ppm Hg. The average intake of Hg in a 24-hour period was 7.5, 37.5, 150, 600, and 2,400 μ g per rat, and the 24-hour excretion was 52, 40, 43, 47, and 43 percent of those doses, respectively, in feces and 4.8, 1.0, 0.5, 0.37, and 1.7 percent, respectively, in urine (Fitzhugh et al. 1950).

Divalent mercury is poorly absorbed from the GI tract (20 percent, see above), therefore, elimination rates obtained from oral or dietary exposure may be misleading. Hayes and Rothstein (1962) reported an initial half-life for fecal elimination of inorganic mercury of 0.6 days in Holstein cows. Later, the half-life increased to 3 days, as in the study by Mullen et al. (1975). This indicates that a large proportion of the dose is initially excreted via the feces due to lack of absorption. In the current TRIM.FaTE library, the elimination rate constant for terrestrial wildlife represents the elimination of both absorbed and unabsorbed mercury in feces (and urine). As long as the concentration of mercury in the tissues of the wildlife (birds and mammals) is not needed for the risk assessment, these elimination rates can be used for purposes of estimating the transfer of ingested mercury from wildlife to surface soil and water by setting the assimilation efficiency property in the wildlife compartment to 1.0. However, if the concentration of Hg in the animals tissues is needed for the risk assessment (e.g., to track risks to humans that consume meat from deer or cows in the modeling region), it would be necessary to determine a true assimilation efficiency to estimate the proportion of the ingested mercury that is absorbed by the animal. Then, separate rate constants and algorithms would be needed to track separately the elimination of the absorbed mercury and unabsorbed mercury.

Rates of excretion of divalent mercury by mammals (rats and cows) are summarized in Table 3 (mean values for excretion to urine and feces, lactation, and excretion to hair presented in Table 1). No information on excretion by avian species is available.

Table 3 **Excretion of Divalent Mercury in Mammals**

Test Species ^a	Form	Dose	Dose Route ^b	Elimination Route	Percent of Dose	Days	Rate (Day ⁻¹)	Dose Vehi- cle	Source		
Cow- Holstein	$HgCl_2$	344 μCi	oral	urine + feces	94.91	6	0.49632	gel cap	Potter et al. 1972		
Cow- Holstein	Hg(NO ₃) ₂	1.7 mCi	oral	urine + feces	74.99	10	0.13859	gel cap	Mullen et al. 1975		
		₹ <u>+</u> SE			0.31745 <u>+</u> 0.17886						
Rat-SD	HgCl_2	1 mg/kg	iv	urine + feces	31.5	4	0.09458	saline sol	Gregus & Klaassen 1986		
Rat-Wistar	Hg(NO ₃) ₂	50 μg	iv	urine + feces	62	52	0.01861	sodium chloride	Rothstein & Hayes 1960		
					≅ <u>+</u> S	E		0.05660 <u>+</u> 0.03798			
Rat	mercuric acetate	7.5 µg	diet	urine + feces	56.8	1	0.83933	food	Fitzhugh et al. 1950		
Rat	mercuric acetate	37.5 μg	diet	urine + feces	41.0	1	0.52763	food	Fitzhugh et al. 1950		
Rat	mercuric acetate	150 μg	diet	urine + feces	43.5	1	0.57093	food	Fitzhugh et al. 1950		
Rat	mercuric acetate	600 μg	diet	urine + feces	47.37	1	0.64188	food	Fitzhugh et al. 1950		
Rat	mercuric acetate	2400 μg	diet	urine + feces	44.7	1	0.59240	food	Fitzhugh et al. 1950		
					₹ <u>+</u> S	₹ <u>+</u> SE		0.63443	± 0.05443		
Cow- Holstein	$HgCl_2$	344 μCi	oral	milk	0.0097	6	0.00002	gel cap	Potter et al. 1972		
Cow- Holstein	Hg(NO ₃) ₂	1.7 mCi	oral	milk	0.01	10	0.00001	gel cap	Mullen et al. 1975		
					₹ <u>+</u> SE 0.0			0.00001	0001 <u>+</u> 0.000003		
Rat-Holtz- man	Hg(NO ₃) ₂	20 μg	sc inj	hair	0.018	20	0.00001	injec- tion	Mansour et al. 1973		

^a Rat-SD = Sprague Dawley rat. ^b iv = intravenous injection and sc inj = subcutaneous injection.

Organic Mercury

Organic mercury is by far the most studied species of mercury. It is rapidly and extensively absorbed through the GI tract (95 percent of the dose in humans) and is distributed throughout the body via carrier-mediated transport (U.S. EPA 1997). Like elemental mercury, organic mercury can cross the blood-brain and placental barriers.

Radio-labeled methylmercuric chloride was intravenously injected into 6 pregnant Holtzman rats at a dose of 10 µCi; after 20 days, 0.21 percent of the administered dose was transferred to hair. The whole-body clearance half-life was reported to be 8.4 days (Mansour et al. 1973). Gregus and Klaassen (1986) also administered radio-labeled methylmercuric chloride via intravenous injection to Sprague-Dawley rats at a dose of 1 mg[Hg]/kg[body wt]. Within 4 days, 5.6 percent of the injected dose was excreted in feces and 0.5 percent in urine for a total excretion of 6.1 percent of the administered dose. Additionally, 2-hr biliary excretion was 0.7, 0.9, 0.7, and 0.5 percent of doses at 0.1, 0.3, 1.0, and 3.0 mg[Hg]/kg[body wt], respectively (Gregus and Klaassen 1986). Syrian Golden hamsters (N = 9) were given an oral dose of 0.32 mg[Hg]/kg[body wt] as radio-labeled methylmercury chloride, and the elimination rate was found to follow a first-order rate equation with a half-life of 6.9 days (Nordenhäll et al. 1995). Nordenhäll et al. (1995) estimated that approximately 5 percent of the oral dose administered to the dams was transferred to pups via milk over 21 days. Four days after oral administration of methylmercury chloride, 20 percent of the mercury in milk was inorganic (Nordenhäll et al. 1995). Sell and Davison (1975) dosed via intraruminal injection, 1 Nubian goat and 1 Guernsey cow with 100 and 500 µCi radio-labeled methylmercury chloride, respectively. After 13 days, 0.28, 31.18, and 1.45 percent of the dose administered to the goat were excreted in milk, feces, and urine, respectively. Conversely, none of the dose was excreted in cow milk, 25.32 percent was excreted in cow feces, and 1.28 percent was excreted in cow urine after 7 days.

Takeda and Ukita (1970) exposed Donryu rats to 20 μg[Hg]/kg[body wt] as radio-labeled ethyl-mercuric chloride dissolved in olive oil by subcutaneous injection. Cumulative excretion during 8 days post-exposure was 10.52 percent of dose in urine and 6.01 percent of dose in feces. In urine, 41.9 percent and 58.1 percent of the total mercury was organic and inorganic, respectively, on day 8. In contrast, 65 percent of fecal mercury was organic and 35 percent was inorganic on day 8 (Takeda and Ukita 1970). Fang and Fallin (1973) orally dosed 14 rats with 3 μmol radio-labeled ethyl-mercuric chloride in corn oil. Mercury content was measured in 1-2 rats on days 0.25, 1, 2, 3, 4, 5, 7, 10, and 14 after dosing. Fourteen days after dosing, 32.5 nmole/g hair had accumulated in the fur. Wistar rats have an estimated 3 g of fur (Talmage 1999), therefore, approximately 3.25 percent of the original dose was excreted in fur.

Fitzhugh et al. (1950) exposed rats (20/dose group) to phenyl mercuric acetate in the diet at doses of 0.5, 2.5, 10, 40, and 160 ppm [Hg]. The average intake of Hg in a 24-hour period was 7.5, 37.5, 150, 600, and 2,400 μ g and the 24-hour excretion was 44, 35, 27, 35, and 30 percent of those doses, respectively, in feces and 9.2, 4.5, 6.2, 4.3, and 2.4 percent, respectively, in urine (Fitzhugh et al. 1950).

Humans also have been used as subjects for studying the metabolism of methylmercury. Three subjects were given an oral dose of 2.6 µCi radio-labeled methylmercuric nitrate (Aberg et al. 1969). Mean cumulative mercury excretion values 10 days post-exposure were 13.6 percent

(13.6, 13, and 14.2 percent) of the dose in feces and 0.24 percent (0.18, 0.26, and 0.27 percent) in urine. After 49 days, 34.1 percent (33.4 and 34.7 percent) of the initial dose was excreted via feces and 3.31 percent (3.29 and 3.33 percent) via urine (Aberg et al. 1969). Aberg et al. (1969) also reported the biological half-life of methylmercuric chloride to be 70.4, 74.2, and 73.7days ($\bar{x} = 72.8$ days) for the three subjects and measured approximately 0.12 percent of the initial dose in hair approximately 45 days (range 40-50 days) after exposure.

Two papers contained data suitable for use in determining excretion rates for avian species. In the first study, Lewis and Furness (1991) orally dosed black-headed gulls with 200, 100, or 20 μ L methylmercuric chloride using gelatin capsules. The cumulative excretion of mercury for the 200 μ L group was 26.4 percent of the dose in urine/feces and 51.2 percent in feathers for a total of 77.5 percent eliminated from the body over 13 days. At the 100 μ L dose, a total of 80.3 percent of the dose was eliminated (37.8 and 44.2 percent in urine/feces and feathers, respectively) in 13 days. Finally, only 56.3 percent of the low dose was measured in urine/feces and feathers, with 11 percent of the dose in urine/feces and 52.6 percent in feathers after 13 days (Lewis and Furness 1991).

In the second study, 4 white-leghorn chickens and 4 Japanese quail were administered 20 ppm Hg as methylmercuric chloride in the diet for 21 days (Sell 1977). During the first 7 days of this dosing period, chickens and quail were also given an oral dose of 2 µCi of radio-labeled methylmercuric chloride (Sell 1977). The rate calculations reported in Table A-18 assume that the author accounted for the total intake of radio-labeled mercury from both sources when reporting percent of dose excreted in feces and eggs. Chickens excreted 64 percent of the dose in urine/feces and 22 percent of the dose in eggs produced during the 21 days post-exposure, while quail excreted 41 and 54 percent of the dose in urine/feces and eggs, respective, during the same 21 day post-exposure period (Sell 1977).

Rates of excretion of organic mercury by mammals (humans, goats, cows, and rats) are summarized in Table 4, and rates of excretion by birds are summarized in Table 5 (mean values for excretion to urine and feces, fur, feathers, and eggs presented in Table 1). No information on excretion by avian species is available.

Table 4
Excretion of Organic Mercury in Mammals

Test Species ^a	Form	Dose	Dose Route ^b	Elimination Route	Percent of Dose	Days	Rate (Day ⁻¹)	Dose Vehicle	Source	
Human	methylmercuric nitrate	2.6 μCi	oral	urine + feces	13.84	10	0.01490	aq sol	Aberg et al. 1969	
Human	methylmercuric nitrate	2.6 μCi	oral	urine + feces	37.41	49	0.00956	aq sol	Aberg et al. 1969	
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	urine + feces	0.67	1	0.00672	ethanol	Sell & Davison 1975	
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	urine + feces	17.19	3	0.06287	ethanol	Sell & Davison 1975	
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	urine + feces	22.62	5	0.05129	ethanol	Sell & Davison 1975	
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	urine + feces	25.72	7	0.04248	ethanol	Sell & Davison 1975	
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	urine + feces	31.63	13	0.02925	ethanol	Sell & Davison 1975	
Cow- Guernsey	CH₃-HgCl	500 μCi	ir inj	urine + feces	4.80	1	0.04919	ethanol	Sell & Davison 1975	
Cow- Guernsey	CH₃-HgCl	500 μCi	ir inj	urine + feces	18.86	3	0.06966	ethanol	Sell & Davison 1975	
Cow- Guernsey	CH ₃ -HgCl	500 μCi	ir inj	urine + feces	23.05	5	0.05240	ethanol	Sell & Davison 1975	
Cow- Guernsey	CH ₃ -HgCl	500 μCi	ir inj	urine + feces	26.60	7	0.04418	ethanol	Sell & Davison 1975	
					≅ <u>+</u> S	E	0.03932 ± 0.00644			
Rat-SD	CH ₃ -HgCl	1 mg/kg	iv	urine + feces	6.1	4	0.01573	saline sol	Gregus & Klaassen 1986	
Rat-Donryu	ethyl-HgCl ₂	20 μg/kg	sc inj	urine + feces	16.53	8	0.02259	olive oil	Takeda & Ukita 1970	
					≅ <u>+</u> S	E	0.01916 ± 0.00343			
Rat	phenyl mercuric acetate	7.5 µg	diet	urine + feces	53.2	1	0.75929	food	Fitzhugh et al. 1950	
Rat	phenyl mercuric acetate	37.5 μg	diet	urine + feces	39.5	1	0.50253	food	Fitzhugh et al. 1950	
Rat	phenyl mercuric acetate	150 μg	diet	urine + feces	33.2	1	0.40347	food	Fitzhugh et al. 1950	
Rat	phenyl mercuric acetate	600 μg	diet	urine + feces	39.3	1	0.49923	food	Fitzhugh et al. 1950	
Rat	phenyl mercuric acetate		diet	urine + feces	32.4	1	0.39156	food	Fitzhugh et al. 1950	
						E	0.51121 <u>+</u> 0.06621			

Table 4 (continued) Excretion of Organic Mercury in Mammals

Test Species ^a	Form	Dose	Dose Route ^b	Elimination Route	Percent of Dose	Days	Rate (Day ⁻¹)	Dose Vehicle	Source
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	milk	0.08	3	0.00027	ethanol	Sell & Davison 1975
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	milk	0.14	5	0.00028	ethanol	Sell & Davison 1975
Goat- Nubian	CH₃-HgCl	100 μCi	ir inj	milk	0.19	7	0.00027	ethanol	Sell & Davison 1975
Goat- Nubian	CH ₃ -HgCl	100 μCi	ir inj	milk	0.28	13	0.00022	ethanol	Sell & Davison 1975
					₹ <u>+</u> S	E		0.00026 <u>+</u>	0.00001
Human methylmercuric nitrate		2.6 μCi	oral	hair	0.12	45	0.00003	aq sol	Aberg et al. 1969
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.05	0.25	0.00200	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.14	1	0.00140	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.18	2	0.00090	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.52	3	0.00174	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.59	4	0.00148	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	0.67	5	0.00134	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	1.08	7	0.00155	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	2.25	10	0.00228	corn oil	Fang & Fallin 1973
Rat-Wistar	ethyl-HgCl ₂	3 µmole	oral	hair	5.50	14	0.00404	corn oil	Fang & Fallin 1973
						$\overline{x} \pm SE$ 0.0016			0.00033
Rat- Holtzman	CH ₃ -HgCl	10 μCi	iv	hair	0.21	20	0.00011		Mansour et al. 1973

 $[^]a$ Rat-SD = Sprague Dawley rat. b ir = intraruminal injection, iv = intravenous injection, and sc inj = subcutaneous injection.

Table 5
Excretion of Organic Mercury in Birds

Test Species ^a	Form	Dose	Dose Route	Elimination Route	Percent of Dose	Days	Rate (Day ⁻¹)	Dose Vehicle	Source
Gull-BH	methyl- HgCl	200 μL	oral	feces	26.4	13	0.02358	gel cap	Lewis & Furness 1991
Gull-BH	methyl- HgCl	100 μL	oral	feces	37.7	13	0.03640	gel cap	Lewis & Furness 1991
Gull-BH	methyl- HgCl	20 μL	oral	feces	11	13	0.00896	gel cap	Lewis & Furness 1991
					₹ <u>+</u> S	E		0.02298 <u>+</u>	0.00793
Chicken- WL	methyl- HgCl	20 ppm + 2 μCi	diet/oral	feces	64	21	0.04865	food	Sell 1977
Quail- Japanese	methyl- HgCl	20 ppm + 2 μCi	diet/oral	feces	32	21	0.01836	food	Sell 1977
					≅ <u>+</u> S	E	0.03351 <u>+</u> 0.01514		
Gull-BH	methyl- HgCl	200 μL	oral	feathers	51.2	13	0.05519	gel cap	Lewis & Furness 1991
Gull-BH	methyl- HgCl	100 μL	oral	feathers	44.2	13	0.04488	gel cap	Lewis & Furness 1991
Gull-BH	methyl- HgCl	20 μL	oral	feathers	52.6	13	0.05743	gel cap	Lewis & Furness 1991
	$ \bar{x} \pm SE $ 0.05593 \pm 0.0007			0.00075					
Chicken- WL	methyl- HgCl	20 ppm + 2 μCi	diet/oral	eggs	21.88	21	0.01176	food	Sell 1977
Quail- Japanese	methyl- HgCl	20 ppm + 2 μCi	diet/oral	eggs	54.08	21	0.03706	food	Sell 1977
					<u>₹ +</u> S	$\bar{x} \pm SE$ 0.02441 \pm 0.01265			0.01265

 $^{^{\}rm a}$ Gull-BH = black-headed gull, Chicken-WL = white-leghorn chicken.

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APPENDIX B DETAILED RESULTS FOR EMISSION CASE B

${\bf Appendix~B} \\ {\bf DETAILED~RESULTS~FOR~EMISSION~CASE~B^{~1}}$

B.1 Mass Accumulation Tables

Table #	<u>Title of Table</u>	Corresponds to
Table B-1	Overall Distribution of Total Mercury Mass (g) in Modeling System	Exhibit 3-2
Table B-2	Distribution of Total Mercury Mass (g) in Abiotic Compartments	Exhibit 3-3
Table B-3	Distribution of Total Mercury Mass (g) in Biotic Compartment Groups	Exhibit 3-4
Table B-4	Distribution of Total Mercury Mass (g) in Air, Surface Soil, and Terrestrial Plant Compartments	Exhibit 3-5
Table B-5	Distribution of Total Mercury Mass (g) in Surface Water, Sediment, and Aquatic Biota Compartments	Exhibit 3-6
Table B-6	Distribution of Total Mercury Mass (g) in Surface Soil and Terrestrial and Semi-aquatic Animal Compartments	N/A

 $^{^{1}}$ All data for emission case B (both elemental mercury and divalent mercury emitted from source only, no boundary contributions or initial concentrations), 11-23-03 model run.

 ${\bf Table~B-1} \\ {\bf Overall~Distribution~of~Total~Mercury~Mass~(g)~in~Modeling~System~^a}$

Comportment/Sink Croup	Year								
Compartment/Sink Group	Initial	1	5	10	20	30			
All Abiotic Compartments	0	2.2E+02	2.2E+03	4.6E+03	9.0E+03	1.3E+04			
All Biotic Compartments	0	2.5E+01	4.5E+01	4.5E+01	4.5E+01	4.5E+01			
Total in Modeling Region	0	2.5E+02	2.3E+03	4.6E+03	9.0E+03	1.3E+04			
Air Sinks	0	6.4E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			
All Other Sinks	0	7.0E+01	7.2E+02	1.6E+03	3.6E+03	5.9E+03			
Total in Sinks	0	6.4E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

 $\label{eq:compartments} \textbf{Table B-2}$ Distribution of Total Mercury Mass (g) in Abiotic Compartments a

Comportment Type	Year								
Compartment Type	Initial	1	5	10	20	30			
Air	0	1.4E+01	1.3E+01	1.3E+01	1.3E+01	1.3E+01			
Surface Soil	0	2.0E+02	2.1E+03	4.3E+03	8.5E+03	1.2E+04			
Root Zone Soil	0	4.4E+00	4.2E+01	8.0E+01	1.5E+02	2.1E+02			
Vadose Zone Soil	0	8.1E-04	5.4E-02	2.2E-01	7.7E-01	1.5E+00			
Ground Water	0	2.9E-11	1.2E-08	1.0E-07	7.8E-07	2.4E-06			
Surface Water	0	9.0E-01	1.1E+00	1.4E+00	1.8E+00	2.2E+00			
Sediment	0	7.5E+00	6.9E+01	1.5E+02	3.3E+02	5.5E+02			
Total in Abiotic Compartments	0	2.2E+02	2.2E+03	4.6E+03	9.0E+03	1.3E+04			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

Table B-3
Distribution of Total Mercury Mass (g) in Biotic Compartment Groups ^a

Comportment Crown	Year								
Compartment Group	Initial	1	5	10	20	30			
Terrestrial Plants	0	2.5E+01	4.5E+01	4.5E+01	4.5E+01	4.5E+01			
Terrestrial/Semi-aquatic Animals	0	1.0E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01			
Aquatic Plants ^b	0	1.6E-01	2.1E-01	2.4E-01	3.2E-01	4.0E-01			
Aquatic Animals	0	9.6E-04	4.4E-03	8.2E-03	1.6E-02	2.6E-02			
Total in Biotic Compartments	0	2.5E+01	4.5E+01	4.5E+01	4.5E+01	4.5E+01			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

Table B-4
Distribution of Total Mercury Mass (g) in Air, Surface Soil, and Terrestrial Plant Compartments ^a

Comportment Type	Year								
Compartment Type	Initial	1	5	10	20	30			
Air	0	1.4E+01	1.3E+01	1.3E+01	1.3E+01	1.3E+01			
Surface Soil	0	2.0E+02	2.1E+03	4.3E+03	8.5E+03	1.2E+04			
Leaf	0	2.5E+01	4.5E+01	4.4E+01	4.5E+01	4.4E+01			
Particle on Leaf	0	4.2E-03	5.6E-03	5.6E-03	5.6E-03	5.6E-03			
Root ^b	0	2.5E-06	2.0E-04	9.6E-04	4.1E-03	9.1E-03			
Stem ^b	0	5.5E-02	1.3E-01	1.3E-01	1.3E-01	1.3E-01			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

^b Macrophyte compartments only; algae not included in this grouping because they are modeled as a phase of surface water (not as a distinct compartment type).

^b Because of methodology limitations, only modeled in the four volume elements with grasses/herbs vegetation type (versus 19 volume elements modeled for leaf and particle on leaf).

Table B-5
Distribution of Total Mercury Mass (g) in Surface Water, Sediment, and Aquatic Biota Compartments ^a

Comportment Type	Year								
Compartment Type	Initial	1	5	10	20	30			
Surface Water	0	9.0E-01	1.1E+00	1.4E+00	1.8E+00	2.2E+00			
Macrophyte	0	1.6E-01	2.1E-01	2.4E-01	3.2E-01	4.0E-01			
Water-column Herbivore	0	3.6E-04	5.9E-04	8.1E-04	1.3E-03	1.7E-03			
Water-column Omnivore	0	8.3E-05	2.3E-04	3.5E-04	5.7E-04	7.9E-04			
Water-column Carnivore	0	2.7E-05	3.1E-04	4.9E-04	8.2E-04	1.1E-03			
Sediment	0	7.5E+00	6.9E+01	1.5E+02	3.3E+02	5.5E+02			
Benthic Invertebrate	0	3.1E-04	2.8E-03	5.9E-03	1.3E-02	2.1E-02			
Benthic Omnivore	0	6.1E-06	8.5E-05	1.9E-04	4.1E-04	6.7E-04			
Benthic Carnivore	0	5.0E-07	2.3E-05	6.0E-05	1.4E-04	2.3E-04			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

Table B-6
Distribution of Total Mercury Mass (g) in Surface Soil and Terrestrial and Semi-aquatic Animal Compartments ^a

O manufacture of Tame	Year								
Compartment Type	Initial	1	5	10	20	30			
Surface Soil	0	2.0E+02	2.1E+03	4.3E+03	8.5E+03	1.2E+04			
Soil Arthropod	0	1.8E-09	1.2E-07	5.4E-07	2.2E-06	4.9E-06			
Earthworm	0	8.7E-06	8.4E-05	1.6E-04	2.9E-04	4.2E-04			
White-tailed Deer	0	9.8E-02	1.8E-01	1.8E-01	1.8E-01	1.8E-01			
Meadow Vole ^b	0	3.2E-04	5.2E-04	5.2E-04	5.3E-04	5.3E-04			
Mouse	0	2.6E-03	4.8E-03	4.8E-03	4.8E-03	4.8E-03			
Black-capped Chickadee	0	4.2E-05	7.7E-05	7.7E-05	7.7E-05	7.7E-05			
Short-tailed Shrew	0	1.2E-05	1.1E-04	2.2E-04	4.3E-04	6.1E-04			
Long-tailed Weasel	0	4.8E-06	8.9E-06	9.2E-06	9.8E-06	1.0E-05			
Red-tailed Hawk	0	9.2E-06	1.7E-05	1.7E-05	1.8E-05	1.9E-05			
Mink ^b	0	1.4E-06	2.3E-06	2.4E-06	2.5E-06	2.6E-06			
Bald Eagle	0	3.9E-07	8.1E-07	9.2E-07	1.1E-06	1.3E-06			
Raccoon ^b	0	7.5E-07	3.5E-06	6.7E-06	1.3E-05	2.0E-05			
Tree Swallow	0	3.9E-06	1.0E-05	1.8E-05	3.5E-05	5.4E-05			
Mallard ^c	0	1.8E-04	4.1E-04	4.1E-04	4.1E-04	4.1E-04			
Common Loon ^c	0	2.0E-08	6.2E-08	9.7E-08	1.7E-07	2.4E-07			
Total Mass in System	0	6.5E+04	5.8E+05	1.2E+06	2.5E+06	3.8E+06			

^a All values other than initial are annual averages for the specified year.

^b Voles only present in two volume elements, raccoons and mink only present in 14 volume elements (versus 17 for other land-based animals).

^c Mallards and loons assigned to surface water volume elements rather than surface soil; thus, only present in five volume elements.

B.2 Concentration Tables and Charts

Table #	Title of Table	Corresponds to
Table B-7	Annual Average Concentration of Total Mercury in Air at Increasing Distance from the Source	Exhibit 3-8
Table B-8a	Annual Average Concentration of Total Mercury: Soil and Soil Biota in SW2	N/A
Table B-8b	Annual Average Concentration of Total Mercury: Soil and Soil Biota in SSE4	N/A
Table B-9a	Annual Average Concentration of Total Mercury: Terrestrial Plants in SW2	Exhibit 3-10
Table B-9b	Annual Average Concentration of Total Mercury: Terrestrial Plants in SSE4	N/A
Table B-9c	Annual Average Concentration of Total Mercury: Terrestrial Plants in W2	N/A
Table B-10a	Annual Average Concentration of Total Mercury: All Compartments in Swetts Pond	Exhibit 3-11
Table B-10b	Annual Average Concentration of Total Mercury: All Compartments in Brewer Lake	N/A
Table B-11a	Annual Average Concentration of Total Mercury: Terrestrial and Land-based Semi-aquatic Animals in SW2	Exhibit 3-13
Table B-11b	Annual Average Concentration of Total Mercury: Terrestrial and Land-based Semi-aquatic Animals in SSE4	N/A
Chart #	Title of Chart	
Chart B-1a	Total Mercury Concentration in Air vs. Time at Increas (Southeast) from the Source	ing Distance
Chart B-1b	Total Mercury Concentration in Air vs. Time at Increas (West) from the Source	ing Distance
Chart B-2a	Total Mercury Concentration in Soil and Soil Biota vs.	Гime: SW
Chart B-2b	Total Mercury Concentration in Soil and Soil Biota vs.	Гime: SSE4

Chart #	Title of Chart
Chart B-3a	Total Mercury Concentration in Air, Soil, and Plants vs. Time: SW2 (grasses/herbs)
Chart B-3b	Total Mercury Concentration in Air, Soil, and Plants vs. Time: SSE4 (coniferous forest)
Chart B-3c	Total Mercury Concentration in Air, Soil, and Plants vs. Time: W2 (coniferous forest)
Chart B-4a	Total Mercury Concentration in Water-column and Related Biotic Compartments vs. Time: Swetts Pond
Chart B-4b	Total Mercury Concentration in Water-column and Related Biotic Compartments vs. Time: Brewer Lake
Chart B-5a	Total Mercury Concentration in Benthic and Related Biotic Compartments vs. Time: Swetts Pond
Chart B-5b	Total Mercury Concentration in Benthic and Related Biotic Compartments vs. Time: Brewer Lake
Chart B-6a	Total Mercury Concentration in Land-based Semi-aquatic Biotic Compartments vs. Time: SW2
Chart B-6b	Total Mercury Concentration in Land-based Semi-aquatic Biotic Compartments vs. Time: SSE4
Chart B-7a	Total Mercury Concentration in Shrew and Mouse Compartments vs. Time: SW2
Chart B-7b	Total Mercury Concentration in Shrew and Mouse Compartments vs. Time: SSE4
Chart B-8a	Total Mercury Concentration in Terrestrial Herbivore and Omnivore Compartments vs. Time: SW2
Chart B-8b	Total Mercury Concentration in Terrestrial Herbivore and Omnivore Compartments vs. Time: SSE4
Chart B-9a	Total Mercury Concentration in Terrestrial Carnivore (Weasel and Hawk) Compartments vs. Time: SW2
Chart B-9b	Total Mercury Concentration in Terrestrial Carnivore (Weasel and Hawk) Compartments vs. Time: SSE4

Table B-7
Annual Average Concentration of Total Mercury in Air at
Increasing Distance from the Source

Air Commontment	Linita	Year						
Air Compartment	Units	Initial	1	5	10	20	30	
	g/m3	0	8.8E-10	9.2E-10	9.2E-10	9.2E-10	9.2E-10	
SSE2	g/m3	0	3.3E-10	3.3E-10	3.3E-10	3.3E-10	3.3E-10	
SSE3	g/m3	0	2.0E-10	2.0E-10	1.9E-10	2.0E-10	1.9E-10	
SSE4	g/m3	0	1.3E-10	1.3E-10	1.3E-10	1.3E-10	1.3E-10	
SSE5	g/m3	0	1.1E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	
WNW1	g/m3	0	3.5E-10	4.7E-10	4.7E-10	4.7E-10	4.7E-10	
WSW1	g/m3	0	4.6E-10	5.4E-10	5.4E-10	5.4E-10	5.4E-10	
W2	g/m3	0	1.4E-10	1.7E-10	1.7E-10	1.8E-10	1.7E-10	
W3	g/m3	0	8.1E-11	1.1E-10	1.1E-10	1.1E-10	1.1E-10	

Table B-8a Annual Average Concentration of Total Mercury: Soil and Soil Biota in SW2

Comportment	Unito	Year							
Compartment	Units	Initial	1	5	10	20	30		
Surface Soil	g/g dry wt	0	2.4E-10	1.9E-09	4.0E-09	7.7E-09	1.1E-08		
Root Zone Soil	g/g dry wt	0	6.4E-14	6.1E-13	1.2E-12	2.1E-12	3.1E-12		
Vadose Zone Soil	g/g dry wt	0	6.6E-18	4.8E-16	1.9E-15	6.5E-15	1.3E-14		
Ground Water	g/L	0	1.0E-22	4.5E-20	3.7E-19	2.7E-18	8.2E-18		
Soil Arthropod	g/kg wet wt	0	1.0E-13	5.4E-12	2.3E-11	9.4E-11	2.1E-10		
Earthworm	g/kg wet wt	0	2.0E-12	2.0E-11	3.8E-11	6.9E-11	1.0E-10		

Table B-8b Annual Average Concentration of Total Mercury: Soil and Soil Biota in SSE4

Comportment	Linita	Year							
Compartment	Units -	Initial	1	5	10	20	30		
Surface Soil	g/g dry wt	0	5.3E-11	5.2E-10	1.1E-09	2.1E-09	3.1E-09		
Root Zone Soil	g/g dry wt	0	3.7E-14	2.9E-13	5.3E-13	8.5E-13	1.1E-12		
Vadose Zone Soil	g/g dry wt	0	4.2E-18	2.3E-16	9.0E-16	3.0E-15	5.6E-15		
Ground Water	g/L	0	6.5E-23	2.1E-20	1.8E-19	1.3E-18	3.7E-18		
Soil Arthropod	g/kg wet wt	0	2.1E-14	1.4E-12	6.3E-12	2.6E-11	5.7E-11		
Earthworm	g/kg wet wt	0	1.2E-12	9.6E-12	1.7E-11	2.8E-11	3.7E-11		

Table B-9a Annual Average Concentration of Total Mercury: Terrestrial Plants in SW2

Comportment	Unito	Year Year						
Compartment	Units	Initial	1	5	10	20	30	
Leaf - Grasses/Herbs ^a	g/kg wet wt	0	1.2E-07	2.8E-07	2.8E-07	2.8E-07	2.8E-07	
Particle on Leaf - Grasses/Herbs ^a	g/kg wet wt	0	6.8E-07	1.6E-06	1.6E-06	1.6E-06	1.6E-06	
Stem - Grasses/Herbs	g/kg wet wt	0	7.0E-09	1.9E-08	1.9E-08	1.9E-08	1.9E-08	
Root - Grasses/Herbs	g/kg wet wt	0	1.2E-13	7.2E-12	3.3E-11	1.3E-10	3.0E-10	
Surface Soil	g/g dry wt	0	2.4E-10	1.9E-09	4.0E-09	7.7E-09	1.1E-08	
Air - SSW2 ^b	g/m3	0	3.0E-10	3.0E-10	3.0E-10	3.0E-10	3.0E-10	
Air - SSW3 ^b	g/m3	0	1.9E-10	1.8E-10	1.8E-10	1.8E-10	1.8E-10	

^a Each annual average data point shown for leaf and particle on leaf is the average of values during the days (May 13 - September 29 for each year) for which leaves were modeled as present during the entire day (i.e., represents a growing season average).

Table B-9b
Annual Average Concentration of Total Mercury: Terrestrial Plants in SSE4

Comportment	l Inito						
Compartment	Units	Initial	1	5	10	20	30
Leaf - Coniferous Forest	g/kg wet wt	0	8.1E-08	1.3E-07	1.3E-07	1.3E-07	1.3E-07
Particle on Leaf - Coniferous Forest	g/kg wet wt	0	1.8E-06	3.0E-06	2.9E-06	3.0E-06	2.9E-06
Stem - Coniferous Forest ^a	g/kg wet wt	N/A	N/A	N/A	N/A	N/A	N/A
Root - Coniferous Forest ^a	g/kg wet wt	N/A	N/A	N/A	N/A	N/A	N/A
Surface Soil	g/g dry wt	0	5.3E-11	5.2E-10	1.1E-09	2.1E-09	3.1E-09
Air - SSE4 ^b	g/m3	0	1.3E-10	1.3E-10	1.3E-10	1.3E-10	1.3E-10
Air - SSE3 ^b	g/m3	0	2.0E-10	2.0E-10	1.9E-10	2.0E-10	1.9E-10
Air - ESE3 ^b	g/m3	0	2.8E-10	2.8E-10	2.8E-10	2.8E-10	2.8E-10
Air - ESE4 ^b	g/m3	0	1.9E-10	1.9E-10	1.9E-10	1.9E-10	1.9E-10

^a Root and stem not modeled for coniferous forest.

^b Because of the differences in the air and surface parcel layouts, there is not one single air parcel whose boundaries match those of the SW2 surface parcel (see Exhibits 2-1 and 2-2). However, air parcels SSW2 and SSW3 do completely overlay the SW2 surface parcel (among the air parcels, SSW2 has the most overlap with surface parcel SW2).

^b Because of the differences in the air and surface parcel layouts, there is not one single air parcel whose boundaries match those of the SSE4 surface parcel (see Exhibits 2-1 and 2-2). However, air parcels SSE4, SSE3, ESE3, and ESE4 do completely overlay the SSE4 surface parcel (among the air parcels, SSE4 has the most overlap with surface parcel SSE4).

Table B-9c Annual Average Concentration of Total Mercury: Terrestrial Plants in W2

Comportment	Unito	Units Year					
Compartment	Units	Initial	1	5	10	20	30
Leaf - Coniferous Forest	g/kg wet wt	0	2.2E-07	5.5E-07	5.5E-07	5.6E-07	5.5E-07
Particle on Leaf - Coniferous Forest	g/kg wet wt	0	4.8E-06	1.2E-05	1.2E-05	1.2E-05	1.2E-05
Stem - Coniferous Forest ^a	g/kg wet wt	N/A	N/A	N/A	N/A	N/A	N/A
Root - Coniferous Forest ^a	g/kg wet wt	N/A	N/A	N/A	N/A	N/A	N/A
Surface Soil	g/g dry wt	0	1.1E-10	1.4E-09	3.1E-09	6.3E-09	9.2E-09
Air - W2 (100% overlap)	g/m3	0	1.4E-10	1.7E-10	1.7E-10	1.8E-10	1.7E-10

^a Root and stem not modeled for coniferous forest.

Table B-10a
Annual Average Concentration of Total Mercury: All Compartments in Swetts Pond

Comportment	l luita	Year							
Compartment	Units	Initial	1	5	10	20	30		
Surface Water	g/L	0	2.2E-11	3.3E-11	4.5E-11	7.1E-11	9.8E-11		
Macrophyte	g/kg wet wt	0	1.6E-08	2.5E-08	3.5E-08	5.5E-08	7.6E-08		
Water-column Herbivore	g/kg wet wt	0	4.3E-08	9.0E-08	1.4E-07	2.4E-07	3.4E-07		
Water-column Omnivore	g/kg wet wt	0	2.2E-08	8.8E-08	1.5E-07	2.8E-07	4.1E-07		
Water-column Carnivore	g/kg wet wt	0	2.2E-08	3.2E-07	6.4E-07	1.2E-06	1.8E-06		
Sediment	g/g dry wt	0	2.2E-11	2.3E-10	5.9E-10	1.5E-09	2.8E-09		
Benthic Invertebrate	g/kg wet wt	0	1.3E-09	1.4E-08	3.4E-08	9.1E-08	1.6E-07		
Benthic Omnivore	g/kg wet wt	0	5.1E-10	8.1E-09	2.1E-08	5.7E-08	1.0E-07		
Benthic Carnivore	g/kg wet wt	0	3.7E-10	1.9E-08	5.7E-08	1.6E-07	3.0E-07		
Mallard	g/kg wet wt	0	1.3E-07	1.8E-07	1.8E-07	1.8E-07	1.9E-07		
Common Loon	g/kg wet wt	0	1.4E-08	6.4E-08	1.2E-07	2.3E-07	3.4E-07		

Table B-10b Annual Average Concentration of Total Mercury: All Compartments in Brewer Lake

Commontment	l luite	Year							
Compartment	Units	Initial	1	5	10	20	30		
Surface Water	g/L	0	1.6E-11	2.0E-11	2.4E-11	3.4E-11	4.3E-11		
Macrophyte	g/kg wet wt	0	1.2E-08	1.5E-08	1.9E-08	2.6E-08	3.4E-08		
Water-column Herbivore	g/kg wet wt	0	3.9E-08	5.9E-08	7.8E-08	1.2E-07	1.5E-07		
Water-column Omnivore	g/kg wet wt	0	2.9E-08	7.2E-08	1.0E-07	1.6E-07	2.1E-07		
Water-column Carnivore	g/kg wet wt	0	3.1E-08	3.3E-07	4.8E-07	7.6E-07	1.0E-06		
Sediment	g/g dry wt	0	1.5E-11	1.4E-10	3.2E-10	7.4E-10	1.2E-09		
Benthic Invertebrate	g/kg wet wt	0	9.4E-10	8.1E-09	1.9E-08	4.4E-08	7.3E-08		
Benthic Omnivore	g/kg wet wt	0	4.3E-10	5.1E-09	1.2E-08	2.8E-08	4.8E-08		
Benthic Carnivore	g/kg wet wt	0	3.6E-10	1.3E-08	3.5E-08	8.7E-08	1.5E-07		
Mallard	g/kg wet wt	0	1.3E-07	1.7E-07	1.8E-07	1.8E-07	1.8E-07		
Common Loon	g/kg wet wt	0	2.0E-08	5.4E-08	7.9E-08	1.3E-07	1.8E-07		

Table B-11a
Annual Average Concentration of Total Mercury: Terrestrial and Land-based
Semi-aquatic Animals in SW2

Composition	l luite	Year								
Compartment	Units	Initial	1	5	10	20	30			
White-tailed Deer	g/kg wet wt	0	3.2E-08	7.7E-08	7.7E-08	7.7E-08	7.8E-08			
Meadow Vole	g/kg wet wt	0	6.3E-08	1.5E-07	1.5E-07	1.5E-07	1.5E-07			
Mouse	g/kg wet wt	0	6.5E-08	1.6E-07	1.6E-07	1.6E-07	1.6E-07			
Black-capped Chickadee	g/kg wet wt	0	1.2E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07			
Short-tailed Shrew	g/kg wet wt	0	1.4E-08	1.0E-07	2.1E-07	4.0E-07	5.7E-07			
Long-tailed Weasel	g/kg wet wt	0	9.3E-09	2.3E-08	2.7E-08	3.5E-08	4.2E-08			
Red-tailed Hawk	g/kg wet wt	0	1.8E-08	4.4E-08	5.0E-08	6.1E-08	7.0E-08			
Tree Swallow	g/kg wet wt	0	2.9E-09	6.1E-09	8.7E-09	1.2E-08	1.5E-08			
Raccoon	g/kg wet wt	0	1.4E-09	6.7E-09	1.3E-08	2.3E-08	3.2E-08			
Mink	g/kg wet wt	0	1.3E-08	2.9E-08	3.0E-08	3.2E-08	3.3E-08			
Bald Eagle	g/kg wet wt	0	7.6E-09	2.1E-08	2.6E-08	3.4E-08	4.1E-08			
Surface Soil	g/g dry wt	0	2.4E-10	1.9E-09	4.0E-09	7.7E-09	1.1E-08			
Leaf - Grasses/Herbs a	g/kg wet wt	0	1.2E-07	2.8E-07	2.8E-07	2.8E-07	2.8E-07			

^a Each annual average data point shown for leaf is the average of values during the days (May 13 - September 29 each year) for which leaves were modeled as present (i.e., represents a growing season average).

Table B-11b Annual Average Concentration of Total Mercury: Terrestrial and Land-based Semi-aquatic Animals in SSE4

Comportment	Units	Year							
Compartment	Ullits	Initial	1	5	10	20	30		
White-tailed Deer	g/kg wet wt	0	1.9E-07	3.2E-07	3.2E-07	3.2E-07	3.2E-07		
Mouse	g/kg wet wt	0	3.8E-07	6.4E-07	6.4E-07	6.4E-07	6.4E-07		
Black-capped Chickadee	g/kg wet wt	0	7.5E-07	1.2E-06	1.2E-06	1.2E-06	1.2E-06		
Short-tailed Shrew	g/kg wet wt	0	3.5E-09	2.8E-08	5.7E-08	1.1E-07	1.6E-07		
Long-tailed Weasel	g/kg wet wt	0	3.2E-08	5.6E-08	5.8E-08	6.0E-08	6.2E-08		
Red-tailed Hawk	g/kg wet wt	0	8.0E-08	1.4E-07	1.4E-07	1.4E-07	1.5E-07		
Tree Swallow	g/kg wet wt	0	1.8E-09	8.2E-09	1.9E-08	4.8E-08	8.6E-08		
Raccoon	g/kg wet wt	0	1.2E-09	5.4E-09	1.1E-08	2.6E-08	4.3E-08		
Mink	g/kg wet wt	0	4.9E-08	8.9E-08	9.4E-08	1.1E-07	1.2E-07		
Bald Eagle	g/kg wet wt	0	4.6E-08	1.1E-07	1.5E-07	2.4E-07	3.3E-07		
Surface Soil	g/g dry wt	0	5.3E-11	5.2E-10	1.1E-09	2.1E-09	3.1E-09		
Leaf - Coniferous Forest	g/kg wet wt	0	8.1E-08	1.3E-07	1.3E-07	1.3E-07	1.3E-07		

Chart B-1a
Total Mercury Concentration in Air vs. Time at Increasing Distance
(South-Southeast) from the Source

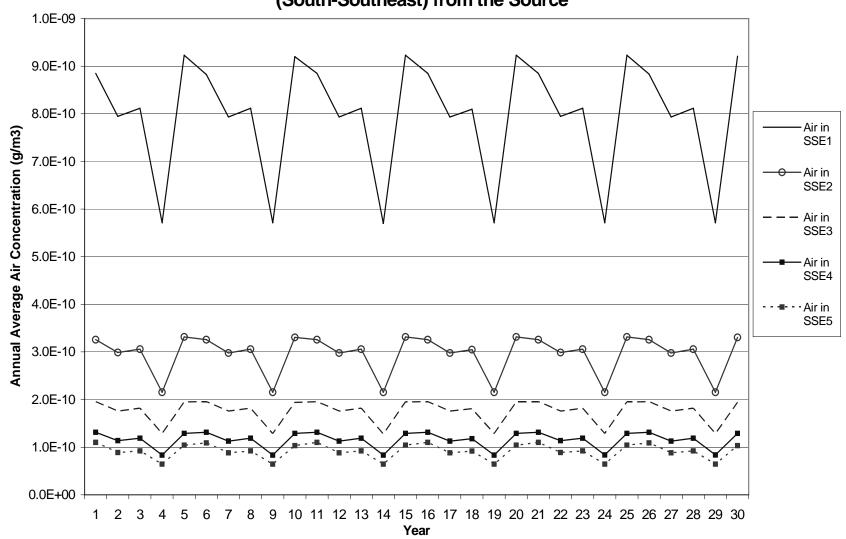


Chart B-1b
Total Mercury Concentration in Air vs. Time at Increasing Distance
(West) from the Source

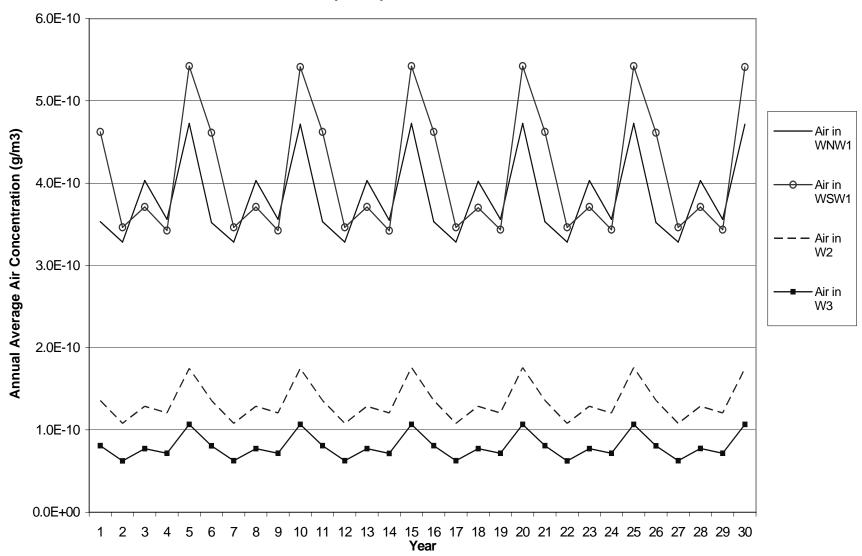
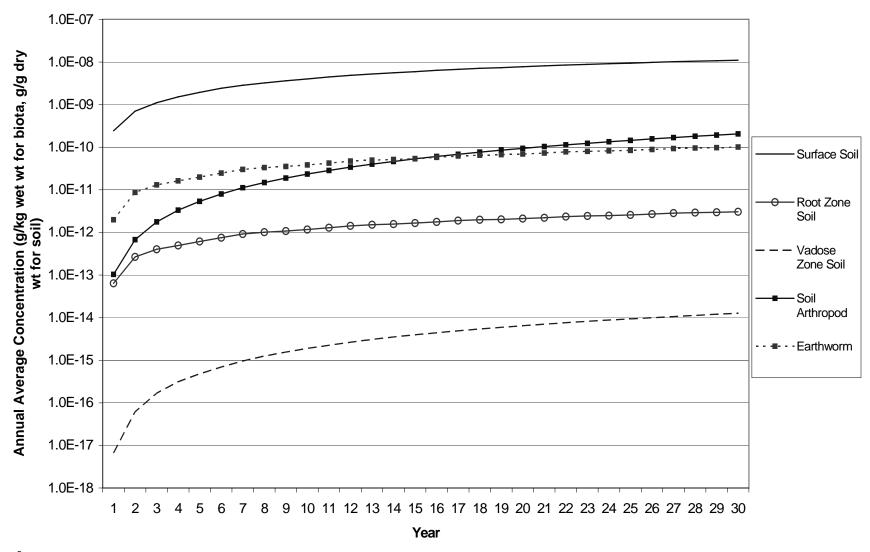
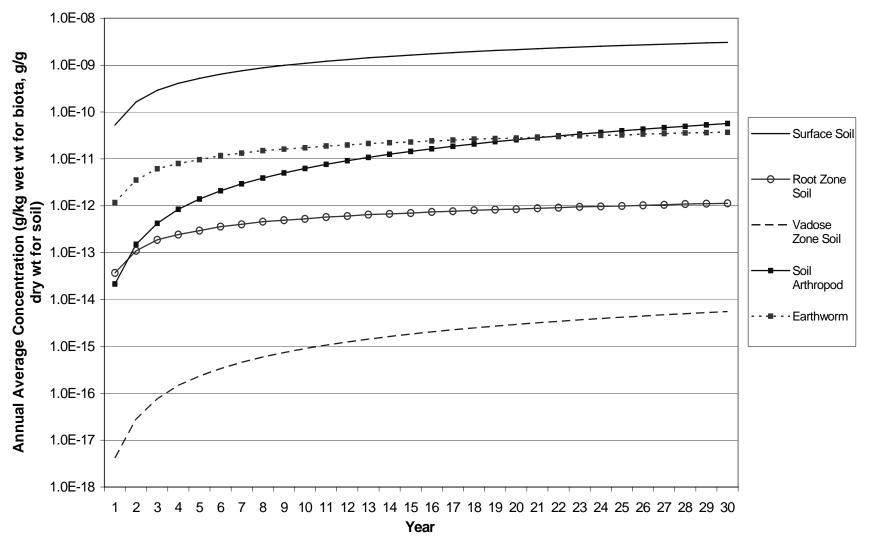


Chart B-2a - Log Scale
Total Mercury Concentration in Soil and Soil Biota vs. Time: SW2^a



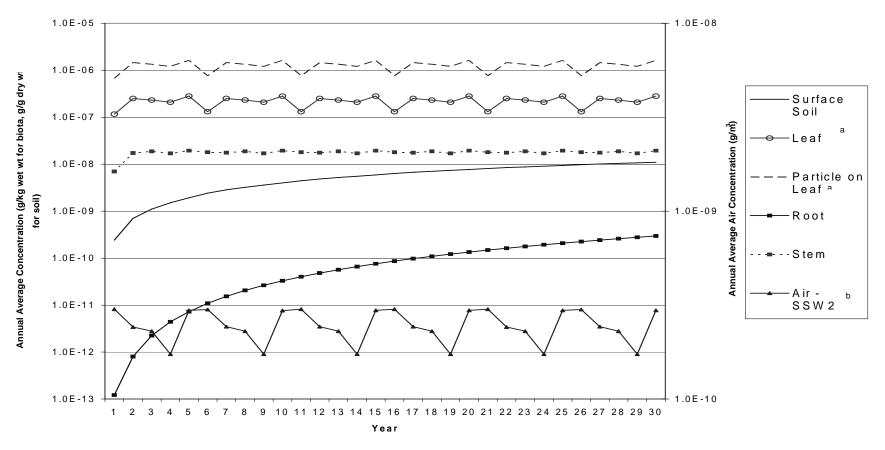
^a Ground water not shown; maximum value is 8.2E-18 g/L at year 30.

Chart B-2b - Log Scale
Total Mercury Concentration in Soil and Soil Biota vs. Time: SSE4^a



^a Ground water not shown; maximum value is 3.7E-18 g/L at year 30.

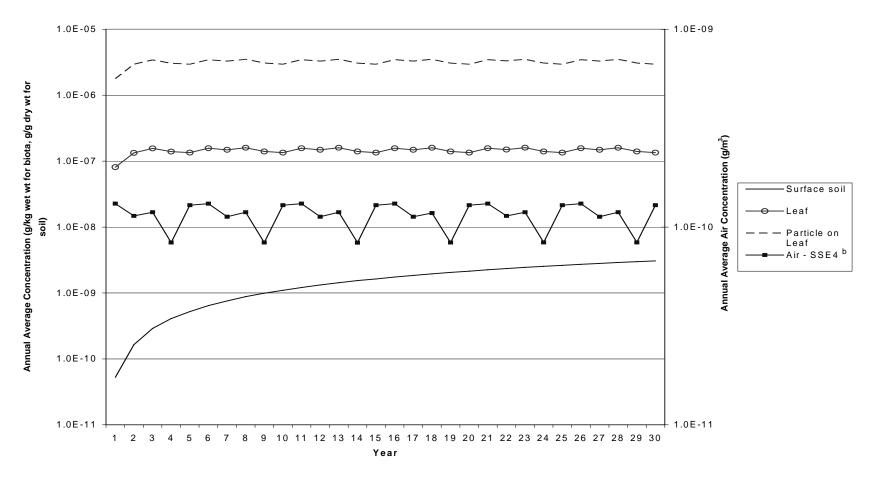
Chart B-3a - Log Scale Total Mercury Concentration in Air, Soil, and Plants vs. Time: SW2 (grasses/herbs)



^a Each annual average data point shown for leaf and leaf particle is the average of values during the three months (June to August) for which leaves were modeled as present during the entire month.

^b Because of the differences in the air and surface parcel layouts, the boundaries of the SSW2 air parcel do not match those of the SW2 parcel (see Exhibits 2-1 and 2-2), but this air parcel does have substantial overlap with the surface parcel (among air parcels, SSW2 has the most overlap with surface parcel SW2).

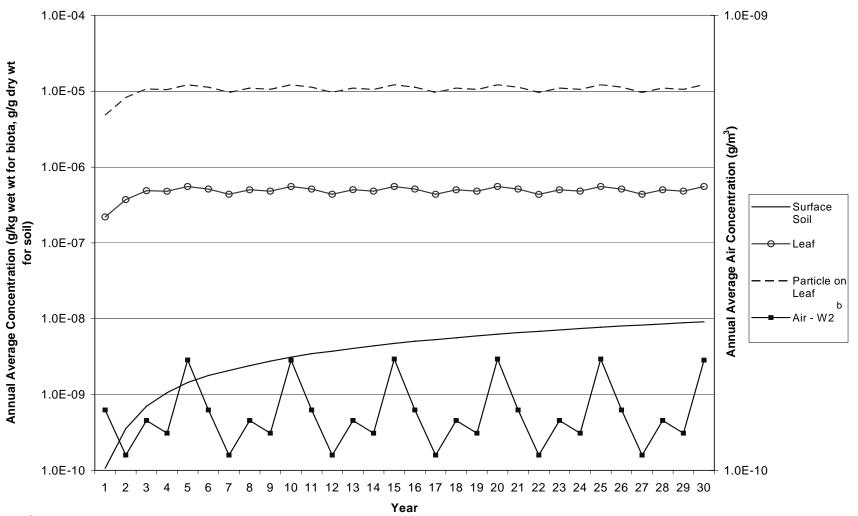
Chart B-3b - Log Scale
Total Mercury Concentration in Air, Soil, and Plants vs. Time: SSE4 (coniferous forest) ^a



^a Root and stem not modeled for coniferous forest.

^b Because of the differences in the air and surface parcel layouts, the boundaries of the SSE4 air parcel do not match those of the SSE4 surface parcel (see Exhibits 2-1 and 2-2), but this air parcel does have substantial overlap with the surface parcel (among air parcels, SSE4 has the most overlap with surface parcel SSE4).

Chart B-3c - Log Scale
Total Mercury Concentration in Air, Soil, and Plants vs. Time: W2 (coniferous forest) ^a



^a Root and stem not modeled for coniferous forest.

^b 100 percent overlap between air parcel W2 and surface parcel W2.

Chart B-4a - Log Scale

Total Mercury Concentration in Water-column and Related Biotic Compartments
vs. Time: Swetts Pond

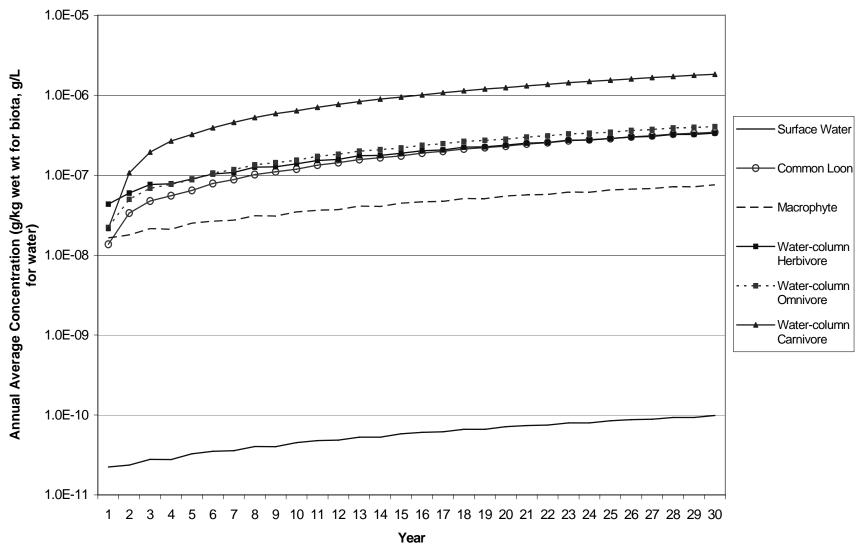


Chart B-4b - Log Scale

Total Mercury Concentration in Water-column and Related Biotic Compartments
vs. Time: Brewer Lake

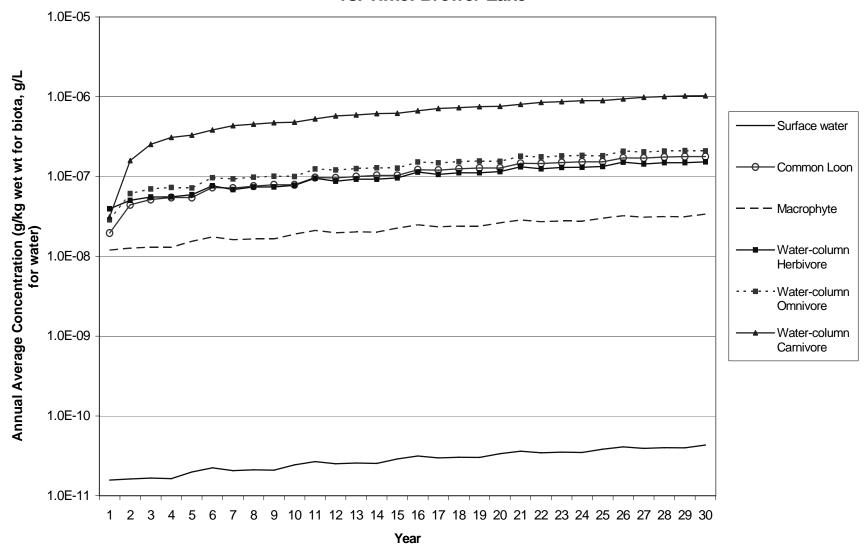
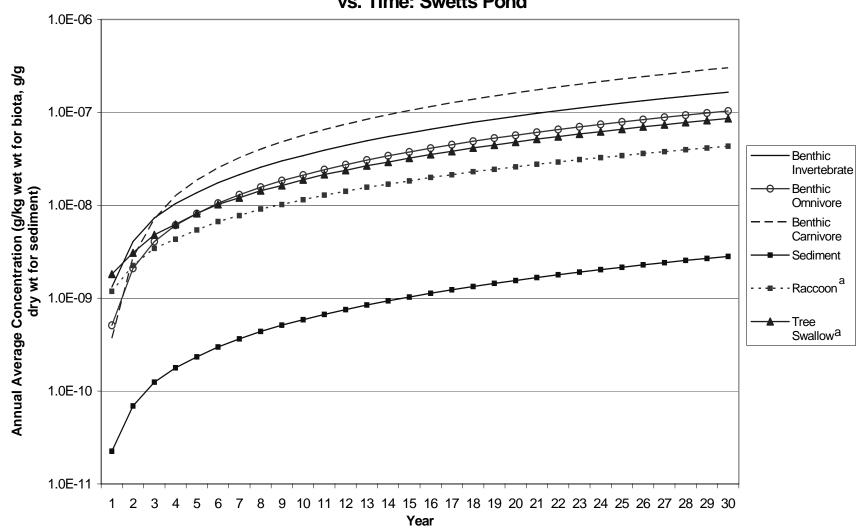


Chart B-5a - Log Scale

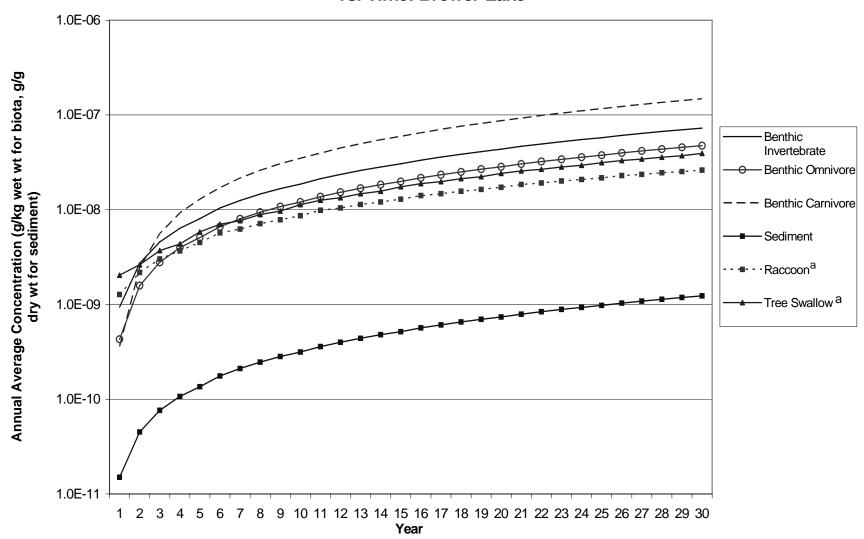
Total Mercury Concentration in Benthic and Related Biotic Compartments
vs. Time: Swetts Pond



^a Results shown for compartment SSE4, where semi-aquatic animals feed from Swetts Pond.

Chart B-5b - Log Scale

Total Mercury Concentration in Benthic and Related Biotic Compartments
vs. Time: Brewer Lake



^a Results shown for compartment ESE4, where semi-aquatic animals feed from Brewer Lake.

Chart B-6a - Log Scale

Total Mercury Concentration in Land-based Semi-aquatic Biotic Compartments
vs. Time: SW2

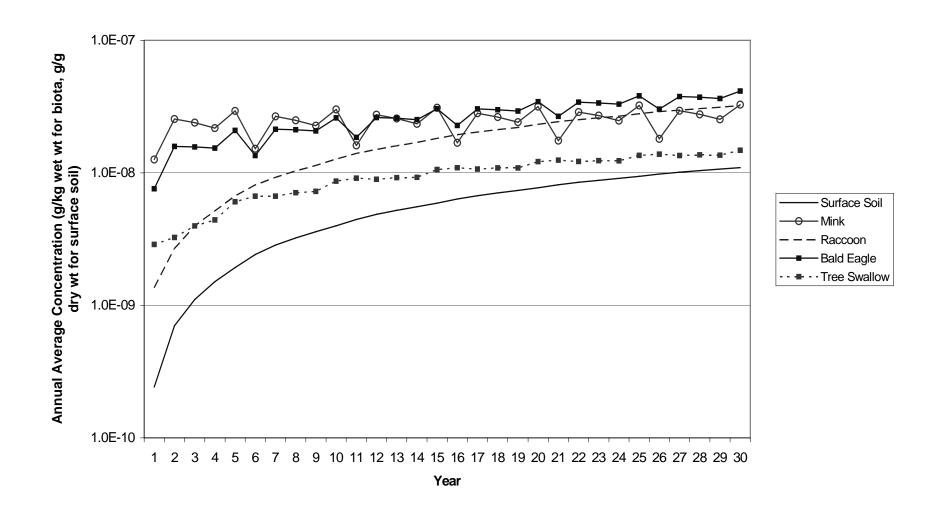


Chart B-6b - Log Scale

Total Mercury Concentration in Land-based Semi-aquatic Biotic Compartments
vs. Time: SSE4

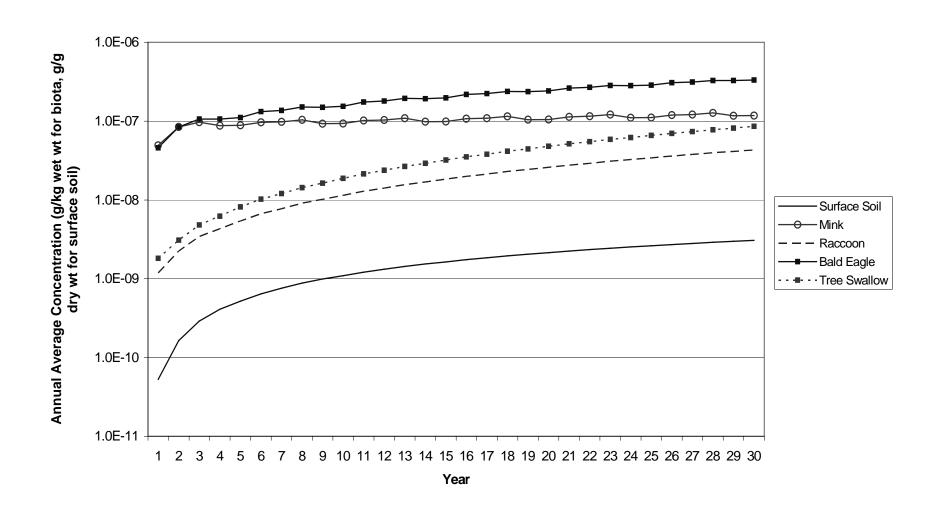
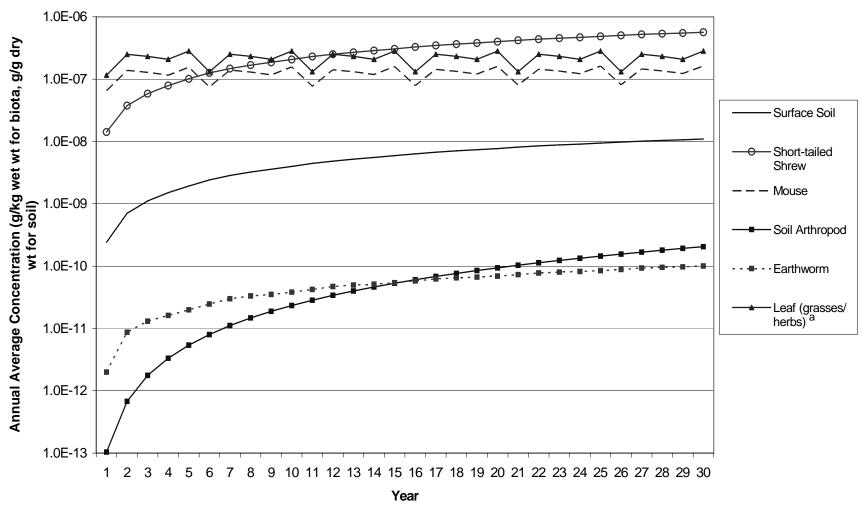


Chart B-7a - Log Scale
Total Mercury Concentration in Shrew and Mouse Compartments vs. Time: SW2



^a Each annual average data point shown for leaf and particle on leaf is the average of values during the days (May 13 to September 29 each year) for which leaves were modeled as present (i.e., represents a growing season average).

Chart B-7b - Log Scale
Total Mercury Concentration in Shrew and Mouse Compartments vs. Time: SSE4

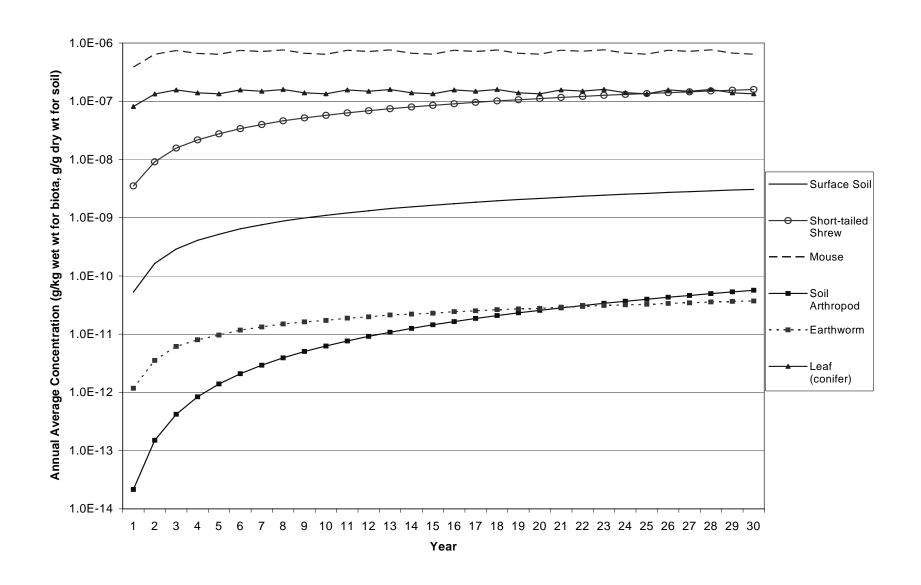
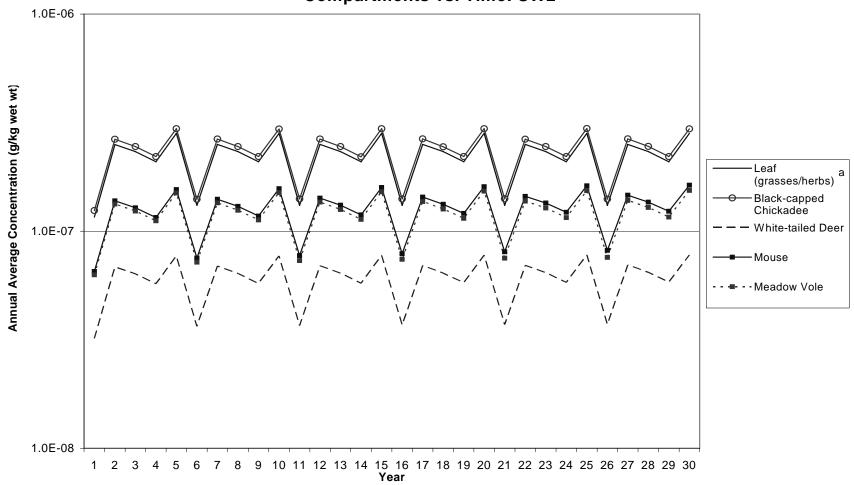


Chart B-8a - Log Scale
Total Mercury Concentration in Terrestrial Herbivore and Omnivore
Compartments vs. Time: SW2



^a Each annual average data point shown for leaf and particle on leaf is the average of values during the days (May 13 to September 29 each year) for which leaves were modeled as present (i.e., represents a growing season average).

Chart B-8b - Log Scale
Total Mercury Concentration in Terrestrial Herbivore and Omnivore
Compartments vs. Time: SSE4

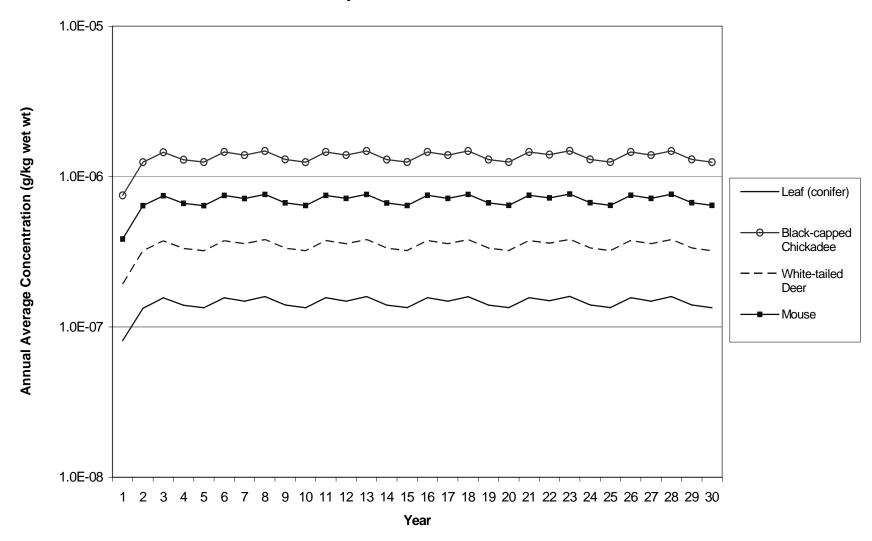


Chart B-9a - Log Scale
Total Mercury Concentration in Terrestrial Carnivore (Weasel and Hawk)
Compartments vs. Time: SW2

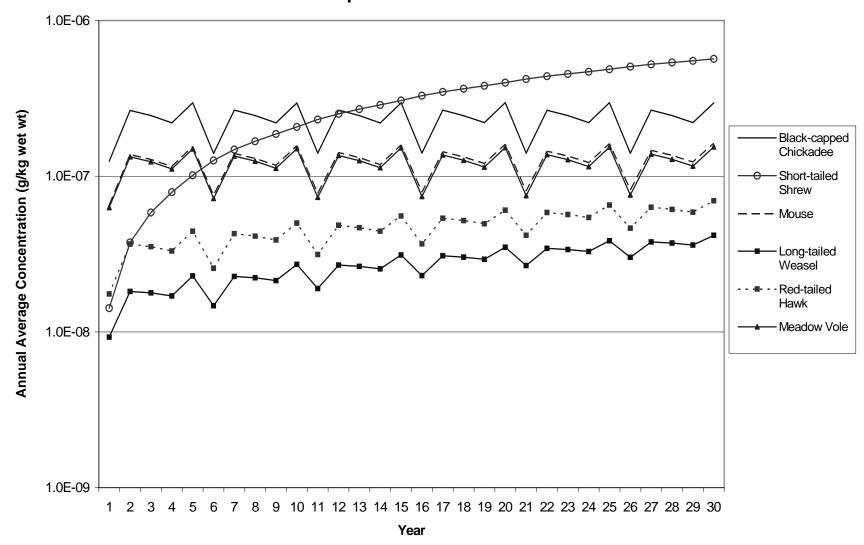
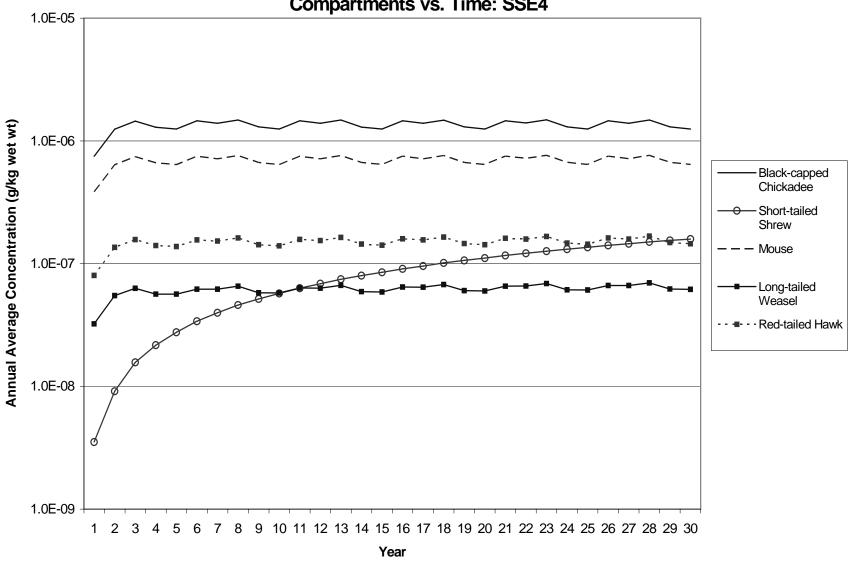


Chart B-9b - Log Scale
Total Mercury Concentration in Terrestrial Carnivore (Weasel and Hawk)
Compartments vs. Time: SSE4



APPENDIX C

STEADY-STATE: INPUTS AND DETAILED RESULTS

Appendix C STEADY-STATE: INPUTS AND DETAILED RESULTS

C.1 Estimation of Steady-state Inputs for Mercury Test Case

As discussed in Chapter 4, the steady-state mode of TRIM.FaTE requires that no model inputs can be assigned time-varying values. Therefore, all time-varying inputs in a dynamic scenario must be replaced with representative constant values to generate steady-state results for that scenario. In the dynamic scenarios for the mercury test case, the following inputs were assigned time-varying values:

- Air temperature;
- Wind speed;
- Wind direction:
- Mixing height;
- Precipitation rate;
- *isDay* (0 at night, 1 during the day);
- AllowExchange (0 during non-growing season, 1 during growing season);
- Litter fall rate (for deciduous forest and grasses/herbs, user-specified rate during litter fall and zero at all other times); and
- River flush rate (i.e., flow) and current velocity.

In order to provide a sound basis of comparison with the results from the dynamic simulations, constant values for these inputs were calculated such that the resulting steady-state simulation closely approximated the system modeled in the dynamic simulations. Many of these time-varying inputs combine and interact in complex ways within TRIM.FaTE to affect the magnitude of internally calculated variables and ultimately the ways pollutant mass is moved within the modeled system. In order to capture the impact of interactions between these time-varying inputs, the processes affected by time-varying inputs were considered when developing the constant values for these inputs.

C.1.1 Estimating Constant Values for Time-varying Inputs

Steady-state models have typically used arithmetic means for inputs that vary over time and space; however, it is not clear whether arithmetic means are appropriate for setting up a steady-state simulation in a way that is representative of – and comparable to – a specific dynamic scenario. By evaluating the hourly-based values of time-varying inputs and exploring different ways for calculating long-term central tendency of the data, this analysis found that not only are the hourly data not normally distributed but different calculation methods can result in differing results. This is illustrated in the following text box.

Example of Potential Problems in Representing Dynamic Data with Constant Values

In its simplest form, the advective transfer factor (in units of 1/day) across an interface between two neighboring air parcels is given by:

$$TF_{s \to r} = \frac{f_{s \to r}}{V_s} \tag{1}$$

where:

 $f_{s\rightarrow r}$ = flow of air across the interface from sending compartment s to receiving compartment r, in units of m³/day. It is calculated as the product of flux (in m/day) and interfacial area (in m²) across the interface.

 $V_s = volume of the sending compartment s, in units of m³.$

The arithmetic mean of $TF_{As \to Ar}$ (i.e., $AM[TF_{s \to r}]$) can be calculated in two ways.

The first approach calculates $TF_{s\rightarrow r}$ for each hour of met data and then estimates the long-term average of these hourly transfer factors as:

$$AM[TF_{s \to r}]_{Approach1} = \frac{1}{n} \sum_{j=1}^{n} TF_{s \to r}$$
(2)

where:

i = hour

n =total number of hours (i.e., n = 8,760 for one year of meteorological data).

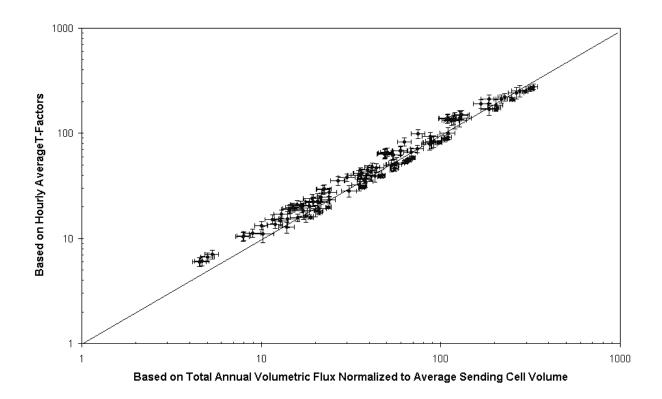
Alternatively, given Equation 1, the average values of $f_{s \to r}$ and V_s can be calculated from the meteorological data and spatial coordinates of the air parcels, and then the $AM[TF_{s \to r}]$ can be estimated as the quotient of the two average values such that:

$$AM[TF_{s \to r}]_{Approach2} = \frac{AM[f_{s \to r}]}{AM[V_s]}$$
(3)

However, if the hourly values for flow and/or volume are not normally distributed (which they typically are not), the two approaches give different answers.

To evaluate the magnitude of this potential difference, both methods were applied to the five-year meteorological data set used as the basis of the meteorological input data in the dynamic mercury test case simulation. Advective transfer factors were calculated across a total of 124 defined air parcel boundaries. On average, Approach 1 (Equation 2) resulted in steady-state transfer factors that were approximately five percent greater than Approach 2 (Equation 3) and the difference between the two approaches for any given air parcel boundary ranged from –40 percent to +20 percent. This difference is illustrated on a log scale in Exhibit C-1.

Exhibit C-1
Comparison of Long-term Advective Transfer Factors Calculated Using the Average of the Hourly Transfer Factors (y-axis) (Eq. 2) and the Daily Average Volumetric Flux Normalized to the Average Sending Cell Volume (x-axis) (Eq. 3) ^a



^a Plot represents 124 air parcel boundaries.

These types of uncertainties were considered during the development of the constant approximations for dynamic inputs. To be consistent with existing modeling approaches, this analysis used arithmetic means to represent central tendency of the time-varying inputs. In general, the steady-state inputs were estimated by first identifying the processes affected by each time-varying input and determining how the various inputs interact or combine to influence these processes. Next, long-term arithmetic means were calculated for each input and correlations between related inputs were estimated. It is important to note that the steady-state inputs described in this appendix are designed to be representative of long-term average transfers for the mercury test case, and may not be representative of day-to-day or hour-to-hour variations or for other TRIM.FaTE applications.

The remainder of this appendix describes how steady-state values were developed for each of these time-varying inputs. For the purposes of this discussion, these inputs are grouped into the following three categories:

• **Meteorological inputs** (i.e., air temperature, wind speed, wind direction, mixing height, and precipitation rate);

- **Plant inputs** (i.e., *isDay*, *AllowExchange*, and litter fall rate); and
- Water body flow inputs (i.e., river flush rate and river current velocity).

C.1.2 Meteorological Inputs

There are five time-varying meteorological inputs used in the mercury test case:

- Air temperature;
- Wind direction;
- Wind speed;
- Mixing height; and
- Precipitation rate.

The methods used to estimate constant values for these inputs are described below.

Air Temperature

Based on a review of the meteorological data and relevant TRIM.FaTE algorithms, it was determined that the long-term arithmetic mean of the time-varying air temperature values (i.e., **280 K**) was appropriate for this application of TRIM.FaTE's steady-state mode.

Wind Direction

Due to the relationship between wind speed and direction, using constant input values in the algorithm used to estimate air-to-air advective transfers could potentially result in a much different modeled system than that modeled in the dynamic simulations – in particular, a much different spatial distribution of the mass. In light of this, a new algorithm that does not require wind speed and direction as inputs was developed and used for modeling air-to-air advective transfers in steady-state mode. The only input required by this algorithm is an estimate of the steady-state transfer (a first-order rate constant, in units of "per day") across each air-to-air interface in the modeling area. That is,

$$TF_{s \to r} = AdvectiveTF_{s \to r}$$
 (4)

TRIM.FaTE calculates the transfer of pollutant mass across each air-to-air interface by multiplying $TF_{s\rightarrow r}$ by the moles of pollutant in air compartment s. This algorithm is also used to estimate the transfers of pollutant mass from the air compartments bounding the modeling domain to air advection sinks.

The constant steady-state advective transfer factors in Equation (4) were estimated using TRIM.FaTE-generated hourly air-to-air advective transfers for each interface for the case B dynamic simulation and calculating the arithmetic mean of these transfers over the five-year meteorological input data period for each interface. The resulting steady-state advective transfer factors are provided in Exhibit C-2. As described in Section 1 of this appendix, these transfer

Exhibit C-2 Steady-state Advective Transfer Factors

Air-to-Air Interface	Transfer Factor (1/day)	Air-to-Air Interface	Transfer Factor (1/day)
Air_ENE1 to Air_ENE2	1.81e+02	Air_NNW3 to Air_W3	2.30e+01
Air_ENE1 to Air_ESE1	1.59e+02	Air_NNW3 to Sink 20 for Air_NNW3	6.48e+01
Air_ENE1 to Air_NNE1	1.29e+02	Air_Source to Air_ENE1	2.79e+02
Air_ENE1 to Air_Source	6.23e+00	Air_Source to Air_ESE1	2.35e+02
Air_ENE2 to Air_ENE1	1.38e+01	Air_Source to Air_NNE1	2.04e+02
Air_ENE2 to Air_ENE3	9.96e+01	Air_Source to Air_NNW1	1.96e+02
Air_ENE2 to Air_ESE2	4.99e+01	Air_Source to Air_SSE1	2.34e+02
Air_ENE2 to Air_NNE2	4.20e+01	Air_Source to Air_SSW1	2.58e+02
Air_ENE3 to Air_ENE2	1.90e+01	Air_Source to Air_WNW1	9.33e+01
Air_ENE3 to Air_ENE4	8.24e+01	Air_Source to Air_WSW1	8.73e+01
Air_ENE3 to Air_ESE3	2.75e+01	Air_SSE1 to Air_ESE1	2.18e+02
Air_ENE3 to Air_NNE3	2.23e+01	Air_SSE1 to Air_Source	1.32e+01
Air_ENE4 to Air_ENE3	2.06e+01	Air_SSE1 to Air_SSE2	1.84e+02
Air_ENE4 to Air_ENE5	3.74e+01	Air_SSE1 to Air_SSW1	6.20e+01
Air_ENE4 to Air_ESE4	2.78e+01	Air_SSE2 to Air_ESE2	6.59e+01
Air_ENE4 to Sink 29 for Air_ENE4	2.97e+01	Air_SSE2 to Air_SSE1	2.83e+01
Air_ENE5 to Air_ENE4	2.04e+01	Air_SSE2 to Air_SSE3	8.40e+01
Air_ENE5 to Air_ESE5	5.56e+01	Air_SSE2 to Air_SSW2	1.99e+01
Air_ENE5 to Sink 36 for Air_ENE5	1.71e+01	Air_SSE3 to Air_ESE3	3.68e+01
Air_ENE5 to Sink 37 for Air_ENE5	5.80e+01	Air_SSE3 to Air_SSE2	3.91e+01
Air_ESE1 to Air_ENE1	1.39e+02	Air_SSE3 to Air_SSE4	7.69e+01
Air_ESE1 to Air_ESE2	1.83e+02	Air_SSE3 to Air_SSW3	1.09e+01
Air_ESE1 to Air_Source	5.55e+00	Air_SSE4 to Air_ESE4	2.49e+01
Air_ESE1 to Air_SSE1	1.34e+02	Air_SSE4 to Air_SSE3	3.14e+01
Air_ESE2 to Air_ENE2	4.15e+01	Air_SSE4 to Air_SSE5	5.82e+01
Air_ESE2 to Air_ESE1	1.36e+01	Air_SSE4 to Air_SSW4	6.96e+00
Air_ESE2 to Air_ESE3	9.89e+01	Air_SSE5 to Air_ESE5	2.84e+01
Air_ESE2 to Air_SSE2	4.25e+01	Air_SSE5 to Air_SSE4 4.10e	
Air_ESE3 to Air_ENE3	2.29e+01	Air_SSE5 to Sink 39 for Air_SSE5 2.40e+0	
Air_ESE3 to Air_ESE2	1.88e+01	Air_SSE5 to Sink 40 for Air_SSE5	4.13e+01
Air_ESE3 to Air_ESE4	8.34e+01	Air_SSW1 to Air_Source	1.49e+01
Air_ESE3 to Air_SSE3	2.24e+01	Air_SSW1 to Air_SSE1	1.78e+02

Exhibit C-2 (continued)
Steady-state Advective Transfer Factors

Air-to-Air Interface	Transfer Factor (1/day)	Air-to-Air Interface	Transfer Factor (1/day)
Air_ESE4 to Air_ENE4	1.52e+01	Air_SSW1 to Air_SSW2	1.82e+02
Air_ESE4 to Air_ESE3	1.40e+01	Air_SSW1 to Air_WSW1	1.29e+02
Air_ESE4 to Air_ESE5	5.91e+01	Air_SSW2 to Air_SSE2	5.37e+01
Air_ESE4 to Air_SSE4	1.42e+01	Air_SSW2 to Air_SSW1	2.59e+01
Air_ESE5 to Air_ENE5	1.01e+01	Air_SSW2 to Air_SSW3	8.58e+01
Air_ESE5 to Air_ESE4	1.07e+01	Air_SSW2 to Air_W2	4.24e+01
Air_ESE5 to Air_SSE5	1.01e+01	Air_SSW3 to Air_SSE3	2.97e+01
Air_ESE5 to Sink 42 for Air_ESE5	4.28e+01	Air_SSW3 to Air_SSW2	4.00e+01
Air_NNE1 to Air_ENE1	2.79e+02	Air_SSW3 to Air_SSW4	7.73e+01
Air_NNE1 to Air_NNE2	1.48e+02	Air_SSW3 to Air_W3	2.22e+01
Air_NNE1 to Air_NNW1	5.95e+01	Air_SSW4 to Air_SSE4	4.82e+01
Air_NNE1 to Air_Source	1.67e+01	Air_SSW4 to Air_SSW3	8.04e+01
Air_NNE2 to Air_ENE2	8.20e+01	Air_SSW4 to Sink 31 for	8.08e+01
Air_NNE2 to Air_NNE1	3.39e+01	Air_W2 to Air_NNW2	3.26e+01
Air_NNE2 to Air_NNE3	6.39e+01	Air_W2 to Air_SSW2	4.31e+01
Air_NNE2 to Air_NNW2	1.95e+01	Air_W2 to Air_W3	3.10e+01
Air_NNE3 to Air_ENE3	4.96e+01	Air_W2 to Air_WNW1	1.69e+01
Air_NNE3 to Air_NNE2	5.11e+01	Air_W2 to Air_WSW1	1.68e+01
Air_NNE3 to Air_NNW3	1.07e+01	Air_W3 to Air_NNW3	1.75e+01
Air_NNE3 to Sink 18 for Air_NNE3	6.50e+01	Air_W3 to Air_SSW3	2.32e+01
Air_NNW1 to Air_NNE1	1.88e+02	Air_W3 to Air_W2	5.30e+01
Air_NNW1 to Air_NNW2	1.47e+02	Air_W3 to Sink 23 for Air_W3	2.89e+01
Air_NNW1 to Air_Source	1.79e+01	Air_WNW1 to Air_NNW1	2.22e+02
Air_NNW1 to Air_WNW1	1.31e+02	Air_WNW1 to Air_Source	1.99e+01
Air_NNW2 to Air_NNE2	5.57e+01	Air_WNW1 to Air_W2	7.37e+01
Air_NNW2 to Air_NNW1	3.07e+01	Air_WNW1 to Air_WSW1	1.67e+02
Air_NNW2 to Air_NNW3	6.64e+01	Air_WSW1 to Air_Source 1.88e+0	
Air_NNW2 to Air_W2	4.10e+01	Air_WSW1 to Air_SSW1	2.95e+02
Air_NNW3 to Air_NNE3	2.93e+01	Air_WSW1 to Air_W2	7.43e+01
Air_NNW3 to Air_NNW2	5.17e+01	Air_WSW1 to Air_WNW1	1.36e+02

factors can also be estimated based on the daily average volumetric flux from the sending air compartment to the receiving air compartment normalized to the volume of the sending air compartment. It is not clear that one method is preferable, and thus the method using the arithmetic means of the hourly transfer factors was used because these data were readily available as outputs of TRIM.FaTE, whereas the other method would have required additional calculations outside of TRIM.FaTE.

Because wind direction was already used in the dynamic model run to generate the hourly advective transfer factors, a constant wind direction was not required to run TRIM.FaTE in steady-state mode.

Wind Speed

Although wind speed is not required to calculate steady-state air-to-air advective transfers because of the use of advective transfer factors (described above), it is still a required input used in calculating diffusion between air and surface water and between air and leaves. Based on a review of its use in these algorithms, it was determined that the long-term arithmetic mean of the time-varying wind speed values (i.e., **3.64 m/s**) was appropriate for this application of TRIM.FaTE's steady-state mode.

Mixing Height

Based on a review of the meteorological data and relevant TRIM.FaTE algorithms, it was determined that the long-term arithmetic mean of the time-varying mixing height (i.e., **887 m**) was appropriate for this application of TRIM.FaTE's steady-state mode.

Precipitation Rate

Based on a review of the meteorological data and relevant TRIM.FaTE algorithms, it was determined that the long-term arithmetic mean of the time-varying precipitation rate (i.e., **0.0041 m/day**) was appropriate for this application of TRIM.FaTE's steady-state mode.

C.1.3 Plants Inputs

There are five time-varying plant-related inputs used in the mercury test case:

- *AllowExchange* (two inputs);
- *isDay* (two inputs); and
- Litter fall rate.

The methods used to estimate constant values for these inputs are described below.

AllowExchange

AllowExchange is used as a seasonal on/off "switch" to account for the presence or absence of leaf and particle-on-leaf compartments in the chemical mass balance. In the mercury test case simulation, it is set to 1.0 when the leaf and particle-on-leaf compartments can

exchange pollutant mass with other compartments (i.e., the growing season) and zero when they cannot (i.e., the non-growing season). It is used in every algorithm involving leaf and particle-on-leaf compartments.

For coniferous plants, *AllowExchange* is set to 1.0 for the duration of each dynamic simulation because coniferous leaf and particle-on-leaf compartments are assumed to exchange pollutant mass throughout the year. Because coniferous leaf and particle-on-leaf compartments are assigned a constant value for *AllowExchange* in the dynamic simulations, there was no need to develop separate steady-state values.

For deciduous and grasses/herbs plants, *AllowExchange* is set to 1.0 from May 12 until September 30 (i.e., the growing season for the test case) and to zero from September 30 until May 12 (i.e., the non-growing season). In developing the constant value for *AllowExchange* for use in TRIM.FaTE's steady-state mode, all of the algorithms involving *AllowExchange* were analyzed to determine if there are complex interactions between AllowExchange and any other timevarying inputs. The results of this analysis indicated that, because of the relationship between *AllowExchange* and the mixing height, two different values of AllowExchange are appropriate for deciduous and grasses/herbs leaf and particle-on-leaf compartment, one for algorithms that transport mass from air to plants and another for the other plant-related algorithms.

For algorithms involving deciduous and grasses/herbs leaf and particle-on-leaf compartments that do not involve the mixing height (e.g., leaf-to-stem transfers, ingestion of leaves by biota), the constant value for AllowExchange for use in steady-state simulations was assigned the long-term average of the dynamic AllowExchange value (**0.386**).

For algorithms involving deciduous and grasses/herbs leaf and particle-on-leaf compartments that transport mass from air to plants, a more involved analysis was required due to the relationship between *AllowExchange* and mixing height. As described in Section 2 of this appendix, the constant value for mixing height used in the steady-state simulations was 887 m. However, as illustrated in Exhibit C-3, the mixing height is generally lower when AllowExchange is 1.0 than when it is zero. The lower mixing height when *AllowExchange* is 1.0 leads to an increase in the transfer of pollutant mass due to dry particle and dry gaseous deposition due to the lower volume of the sending air compartment. Thus, a steady-state value for AllowExchange for deciduous and grasses/herbs leaf and particle-on-leaf compartments was developed to account for the differences between the long-term average mixing height (887 m) and the average mixing height when *AllowExchange* is equal to 1.0 (803 m). This value was calculated by multiplying the long-term average value for *AllowExchange* (0.386) by the ratio of the long-term average mixing height to the average mixing height when AllowExchange is 1.0 (887/803 = 1.1), resulting in an AllowExchange value of **0.426** for algorithms that transport pollutant mass from air to plants.

isDay

When run in dynamic mode, TRIM.FaTE uses the *isDay* property to determine if plant stomata are open. It is set to zero at night (when stomata are closed) and 1.0 during the day

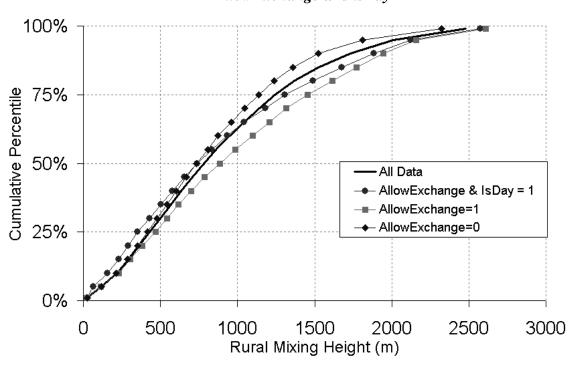


Exhibit C-3
Distributions of Hourly Mixing Heights for Different Values of *AllowExchange* and *isDay*

(when stomata are open). The *isDay* and *AllowExchange* properties are both used in calculating diffusion from air to plant leaves, and thus their interactions were considered in calculating the steady-state value for *isDay*.

Because of the relationship between *isDay* and *AllowExchange* and the fact that two constant values were developed for *AllowExchange* (as described above), two values were also developed for *isDay*, one for algorithms that transport pollutant mass from air to plants and one for algorithms that transport pollutant mass from plants to air. To calculate the *isDay* value for use in algorithms that transport pollutant mass from air to plants (**0.552**), the long-term average of the product of *isDay* and *AllowExchange* (0.235) was divided by the constant *AllowExchange* value developed for algorithms that transport pollutant mass from air to plants (0.426). To calculate the *isDay* value for use in the other plant-related algorithms (**0.609**), the long-term average of the product of *isDay* and *AllowExchange* (0.235) was divided by the *AllowExchange* value developed for the other plant-related algorithms (0.386).

Litter Fall Rate

For this test case, the litter fall rate for deciduous and grasses/herbs plants is configured in the dynamic simulations such that 99 percent of the pollutant mass in leaf and particle-on-leaf compartments is transferred to surface soil in 32 days each year, starting on September 27 and ending on October 29. The constant value for litter fall rate for use in steady-state simulations was developed such that 99 percent of the pollutant mass is transferred to surface soil at a

constant rate over the course of the year (i.e., 365 days). This value was calculated using the following equation:

$$0.01 = \exp\left(-L_{litter} \times 365\right) \tag{5}$$

Solving Equation 12 for L_{liner} gives a steady-state litter fall rate for deciduous and grasses/herbs leaf and particle-on-leaf compartments of **0.013/day**. Because coniferous leaf and particle-on-leaf compartments are assigned constant litter fall rates in the dynamic simulations, there was no need to develop separate steady-state values.

C.1.4 Water Body Flow Inputs

There are two time-varying inputs related to water body flow used in the mercury test case:

- River current velocity; and
- River flush rate (i.e., flow).

The methods used to estimate constant values for these inputs are described below. Note that the other water bodies included in the mercury test case were, unlike the river, assigned constant values for current velocity and flush rate/flow, and thus it was not necessary to develop steady-state values for these water bodies.

River Current Velocity

Based on a review of the meteorological data and relevant TRIM.FaTE algorithms, it was determined that the time-weighted average current velocity of the time-varying river current velocity (i.e., **0.166 m/s**) was appropriate for this application of TRIM.FaTE's steady-state mode.

River Flush Rate

The constant value for river flush rate developed for this application of TRIM.FaTE's steady-state mode was calculated based on the constant river current velocity (described above), the depth and width of the river at the downstream end, and the volume of the river using the following formula.

Flush rate
$$(1/yr) = \frac{Current \ velocity \ (m/yr) \times width \ (m) \times depth \ (m)}{Volume \ (m^3)}$$
 (6)

The resulting constant value for river flush rate was 531.24/yr.

C.2 Compartment-specific Steady-state Results

		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Air	Air_ENE1	6.1e-01	6.8e-10	g/m3	
Air	Air_ENE2	1.3e+00	3.2e-10	g/m3	
Air	Air_ENE3	1.5e+00	2.0e-10	g/m3	
Air	Air_ENE4	1.5e+00	1.4e-10	g/m3	
Air	Air_ENE5	5.7e-01	8.2e-11	g/m3	
Air	Air_ESE1	6.1e-01	7.3e-10	g/m3	
Air	Air_ESE2	1.5e+00	3.8e-10	g/m3	
Air	Air_ESE3	1.8e+00	2.5e-10	g/m3	
Air	Air_ESE4	2.6e+00	1.7e-10	g/m3	
Air	Air_ESE5	2.8e+00	9.3e-11	g/m3	
Air	Air_NNE1	4.2e-01	5.0e-10	g/m3	
Air	Air_NNE2	8.6e-01	1.9e-10	g/m3	
Air	Air_NNE3	5.5e-01	7.8e-11	g/m3	
Air	Air_NNW1	2.8e-01	3.7e-10	g/m3	
Air	Air_NNW2	4.8e-01	1.1e-10	g/m3	
Air	Air_NNW3	2.6e-01	3.6e-11	g/m3	
Air	Air_Source	2.5e-01	4.4e-09	g/m3	
Air	Air_SSE1	4.9e-01	6.1e-10	g/m3	
Air	Air_SSE2	1.2e+00	2.8e-10	g/m3	
Air	Air_SSE3	1.3e+00	1.7e-10	g/m3	
Air	Air_SSE4	1.5e+00	1.0e-10	g/m3	
Air	Air_SSE5	8.6e-01	5.1e-11	g/m3	
Air	Air_SSW1	3.5e-01	4.4e-10	g/m3	
Air	Air_SSW2	6.8e-01	1.5e-10	g/m3	
Air	Air_SSW3	6.0e-01	7.9e-11	g/m3	
Air	Air_SSW4	2.7e-01	4.6e-11	g/m3	
Air	Air_W2	6.9e-01	7.6e-11	g/m3	
Air	Air_W3	3.3e-01	2.2e-11	g/m3	
Air	Air_WNW1	2.1e-01	2.8e-10	g/m3	
Air	Air_WSW1	2.2e-01	2.9e-10	g/m3	
Arthropod	SurfSoil_E1	3.7e-04	5.3e-07	g/kg wet	
Arthropod	SurfSoil_E4	1.3e-04	6.1e-08	g/kg wet	
Arthropod	SurfSoil_ESE2	3.7e-04	2.8e-07	g/kg wet	
Arthropod	SurfSoil_ESE3	4.1e-04	1.2e-07	g/kg wet	
Arthropod	SurfSoil_ESE4	1.8e-04	9.4e-08	g/kg wet	
Arthropod	SurfSoil_ESE5	1.2e-04	5.2e-08	g/kg wet	
Arthropod	SurfSoil_N2	2.4e-04	9.1e-08	g/kg wet	
Arthropod	SurfSoil_NE2	3.2e-04	2.2e-07	g/kg wet	
Arthropod	SurfSoil_NE3	3.3e-04	1.2e-07	g/kg wet	
Arthropod	SurfSoil_SE1	1.5e-04	4.1e-07	g/kg wet	

		Steady-state	Steady-state Concentration	
Compartment Type	Volume Element	Mass (g)	Value	Units
Arthropod	SurfSoil_SE6	8.2e-05	4.3e-08	g/kg wet
Arthropod	SurfSoil_SSE2	5.3e-04	3.0e-07	g/kg wet
Arthropod	SurfSoil_SSE3	4.6e-04	2.0e-07	g/kg wet
Arthropod	SurfSoil_SSE4	2.5e-04	8.7e-08	g/kg wet
Arthropod	SurfSoil_SSE5	1.1e-04	5.6e-08	g/kg wet
Arthropod	SurfSoil_SW2	1.3e-04	9.4e-08	g/kg wet
Arthropod	SurfSoil_W2	2.4e-04	7.6e-08	g/kg wet
Bald Eagle	SurfSoil_E1	4.8e-08	3.4e-07	g/kg wet
Bald Eagle	SurfSoil_E4	8.5e-06	1.9e-05	g/kg wet
Bald Eagle	SurfSoil_ESE2	8.7e-08	3.2e-07	g/kg wet
Bald Eagle	SurfSoil_ESE3	1.3e-05	1.9e-05	g/kg wet
Bald Eagle	SurfSoil_ESE4	7.6e-06	1.9e-05	g/kg wet
Bald Eagle	SurfSoil_ESE5	8.6e-06	1.9e-05	g/kg wet
Bald Eagle	SurfSoil_N2	1.3e-07	2.4e-07	g/kg wet
Bald Eagle	SurfSoil_NE2	9.0e-08	2.9e-07	g/kg wet
Bald Eagle	SurfSoil_NE3	1.5e-07	2.6e-07	g/kg wet
Bald Eagle	SurfSoil_SE1	1.9e-07	2.6e-06	g/kg wet
Bald Eagle	SurfSoil_SE6	6.4e-06	1.6e-05	g/kg wet
Bald Eagle	SurfSoil_SSE2	4.5e-07	1.3e-06	g/kg wet
Bald Eagle	SurfSoil_SSE3	1.2e-07	2.6e-07	g/kg wet
Bald Eagle	SurfSoil_SSE4	2.1e-05	3.6e-05	g/kg wet
Bald Eagle	SurfSoil_SSE5	6.5e-06	1.6e-05	g/kg wet
Bald Eagle	SurfSoil_SW2	6.9e-08	2.5e-07	g/kg wet
Bald Eagle	SurfSoil_W2	3.6e-07	5.6e-07	g/kg wet
Benthic Carnivore	Sed_Brewer	3.5e-02	4.5e-05	g/kg wet
Benthic Carnivore	Sed_Fields	8.2e-03	5.5e-05	g/kg wet
Benthic Carnivore	Sed_River	3.3e-04	3.9e-07	g/kg wet
Benthic Carnivore	Sed_Swetts	9.6e-03	1.1e-04	g/kg wet
Benthic Carnivore	Sed_Thurston	7.3e-03	5.4e-05	g/kg wet
Benthic Invertebrate	Sed_Brewer	2.9e+00	2.1e-05	g/kg wet
Benthic Invertebrate	Sed_Fields	7.9e-01	3.0e-05	g/kg wet
Benthic Invertebrate	Sed_River	2.7e-02	1.8e-07	g/kg wet
Benthic Invertebrate	Sed_Swetts	8.7e-01	5.9e-05	g/kg wet
Benthic Invertebrate	Sed_Thurston	6.5e-01	2.7e-05	g/kg wet
Benthic Omnivore	Sed_Brewer	9.6e-02	1.4e-05	g/kg wet
Benthic Omnivore	Sed_Fields	2.4e-02	1.8e-05	g/kg wet
Benthic Omnivore	Sed_River	9.1e-04	1.2e-07	g/kg wet
Benthic Omnivore	Sed_Swetts	2.8e-02	3.7e-05	g/kg wet
Benthic Omnivore	Sed_Thurston	2.1e-02	1.7e-05	g/kg wet
Black-capped Chickadee	SurfSoil_E1	1.5e-06	1.7e-06	g/kg wet
Black-capped Chickadee	SurfSoil_E4	7.8e-06	2.8e-06	g/kg wet
Black-capped Chickadee	SurfSoil_ESE2	2.6e-06	1.6e-06	g/kg wet

0		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Black-capped Chickadee	SurfSoil_ESE3	4.5e-05	1.1e-05	g/kg wet	
Black-capped Chickadee	SurfSoil_ESE4	2.4e-05	1.0e-05	g/kg wet	
Black-capped Chickadee	SurfSoil_ESE5	8.0e-07	2.8e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_N2	1.0e-06	3.1e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_NE2	2.1e-06	1.1e-06	g/kg wet	
Black-capped Chickadee	SurfSoil_NE3	2.0e-06	5.6e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_SE1	1.9e-05	4.3e-05	g/kg wet	
Black-capped Chickadee	SurfSoil_SE6	5.5e-07	2.3e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_SSE2	4.1e-05	1.9e-05	g/kg wet	
Black-capped Chickadee	SurfSoil_SSE3	1.7e-06	5.9e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_SSE4	1.2e-05	3.4e-06	g/kg wet	
Black-capped Chickadee	SurfSoil_SSE5	5.7e-07	2.3e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_SW2	7.2e-07	4.2e-07	g/kg wet	
Black-capped Chickadee	SurfSoil_W2	2.4e-05	6.2e-06	g/kg wet	
Common Loon	SW_Brewer	1.7e-05	2.2e-05	g/kg wet	
Common Loon	SW_Fields	3.2e-06	2.3e-05	g/kg wet	
Common Loon	SW_River	2.2e-07	2.7e-07	g/kg wet	
Common Loon	SW_Swetts	3.4e-06	4.3e-05	g/kg wet	
Common Loon	SW_Thurston	2.5e-06	1.9e-05	g/kg wet	
Earthworm	RootSoil_E1	9.2e-03	8.8e-08	g/kg wet	
Earthworm	RootSoil_E4	3.3e-03	1.0e-08	g/kg wet	
Earthworm	RootSoil_ESE2	9.2e-03	4.7e-08	g/kg wet	
Earthworm	RootSoil_ESE3	1.0e-02	2.1e-08	g/kg wet	
Earthworm	RootSoil_ESE4	4.4e-03	1.6e-08	g/kg wet	
Earthworm	RootSoil_ESE5	2.9e-03	8.6e-09	g/kg wet	
Earthworm	RootSoil_N1	3.8e-03	1.0e-07	g/kg wet	
Earthworm	RootSoil_N2	5.9e-03	1.5e-08	g/kg wet	
Earthworm	RootSoil_NE2	8.0e-03	3.6e-08	g/kg wet	
Earthworm	RootSoil_NE3	8.1e-03	1.9e-08	g/kg wet	
Earthworm	RootSoil_SE1	3.6e-03	6.8e-08	g/kg wet	
Earthworm	RootSoil_SE6	2.0e-03	7.1e-09	g/kg wet	
Earthworm	RootSoil_SSE2	1.3e-02	5.0e-08	g/kg wet	
Earthworm	RootSoil_SSE3	1.1e-02	3.4e-08	g/kg wet	
Earthworm	RootSoil_SSE4	6.2e-03	1.4e-08	g/kg wet	
Earthworm	RootSoil_SSE5	2.7e-03	9.3e-09	g/kg wet	
Earthworm	RootSoil_SW2	3.2e-03	1.6e-08	g/kg wet	
Earthworm	RootSoil_W1	6.2e-03	8.2e-08	g/kg wet	
Earthworm	RootSoil_W2	5.9e-03	1.3e-08	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_E4	4.5e+00	3.1e-07	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_ESE3	2.6e+01	1.2e-06	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_ESE4	1.4e+01	1.1e-06	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_SE1	1.1e+01	4.7e-06	g/kg wet	

_		Steady-state	dy-state Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Leaf - Coniferous Forest	SurfSoil_SSE2	2.4e+01	2.1e-06	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_SSE4	7.0e+00	3.6e-07	g/kg wet	
Leaf - Coniferous Forest	SurfSoil_W2	1.4e+01	6.7e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_E1	1.5e+00	1.1e-06	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_ESE2	3.1e+00	1.2e-06	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_ESE5	9.7e-01	2.2e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_N2	1.1e+00	2.0e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_NE3	2.3e+00	4.0e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_SE6	6.5e-01	1.7e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_SSE3	1.6e+00	3.5e-07	g/kg wet	
Leaf - Deciduous Forest	SurfSoil_SSE5	6.1e-01	1.6e-07	g/kg wet	
Leaf - Grasses/Herbs	SurfSoil_N1	5.7e-01	1.1e-06	g/kg wet	
Leaf - Grasses/Herbs	SurfSoil_NE2	2.8e+00	9.2e-07	g/kg wet	
Leaf - Grasses/Herbs	SurfSoil_SW2	9.2e-01	3.4e-07	g/kg wet	
Leaf - Grasses/Herbs	SurfSoil_W1	4.7e-01	4.6e-07	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_E4	3.4e-04	6.7e-06	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_ESE3	1.9e-03	2.5e-05	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_ESE4	1.0e-03	2.4e-05	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_SE1	8.3e-04	1.0e-04	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_SSE2	1.8e-03	4.4e-05	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_SSE4	5.2e-04	7.7e-06	g/kg wet	
Leaf Particle - Coniferous Forest	SurfSoil_W2	1.0e-03	1.4e-05	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_E1	7.4e-05	6.8e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_ESE2	1.6e-04	7.5e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_ESE5	5.0e-05	1.4e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_N2	5.4e-05	1.3e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_NE3	1.2e-04	2.6e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_SE6	3.3e-05	1.1e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_SSE3	8.1e-05	2.3e-06	g/kg wet	
Leaf Particle - Deciduous Forest	SurfSoil_SSE5	3.1e-05	1.0e-06	g/kg wet	
Leaf Particle - Grasses/Herbs	SurfSoil_N1	6.8e-04	1.2e-04	g/kg wet	
Leaf Particle - Grasses/Herbs	SurfSoil_NE2	1.8e-04	5.1e-06	g/kg wet	
Leaf Particle - Grasses/Herbs	SurfSoil_SW2	6.1e-05	1.9e-06	g/kg wet	
Leaf Particle - Grasses/Herbs	SurfSoil_W1	4.9e-04	4.1e-05	g/kg wet	
Long-tailed Weasel	SurfSoil_E1	2.6e-06	1.2e-06	g/kg wet	
Long-tailed Weasel	SurfSoil_E4	1.8e-06	2.6e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_ESE2	2.7e-06	6.5e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_ESE3	7.3e-06	6.9e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_ESE4	3.6e-06	5.9e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_ESE5	9.7e-07	1.4e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_N2	1.8e-06	2.2e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_NE2	2.5e-06	5.1e-07	g/kg wet	

		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Long-tailed Weasel	SurfSoil_NE3	2.5e-06	2.8e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_SE1	2.9e-06	2.5e-06	g/kg wet	
Long-tailed Weasel	SurfSoil_SE6	6.4e-07	1.0e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_SSE2	7.5e-06	1.4e-06	g/kg wet	
Long-tailed Weasel	SurfSoil_SSE3	3.2e-06	4.4e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_SSE4	2.9e-06	3.2e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_SSE5	8.2e-07	1.3e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_SW2	9.6e-07	2.2e-07	g/kg wet	
Long-tailed Weasel	SurfSoil_W2	4.0e-06	4.0e-07	g/kg wet	
Macrophyte	SW_Brewer	2.0e+01	3.6e-06	g/kg wet	
Macrophyte	SW_Fields	5.0e+00	4.8e-06	g/kg wet	
Macrophyte	SW_River	2.1e-01	3.4e-08	g/kg wet	
Macrophyte	SW_Swetts	5.3e+00	8.9e-06	g/kg wet	
Macrophyte	SW_Thurston	4.0e+00	4.2e-06	g/kg wet	
Mallard	SW_Brewer	8.6e-05	2.2e-06	g/kg wet	
Mallard	SW_Fields	2.2e-05	3.0e-06	g/kg wet	
Mallard	SW_River	9.6e-05	2.3e-06	g/kg wet	
Mallard	SW_Swetts	2.3e-05	5.5e-06	g/kg wet	
Mallard	SW_Thurston	1.8e-05	2.7e-06	g/kg wet	
Meadow Vole	SurfSoil_NE2	7.1e-04	5.4e-07	g/kg wet	
Meadow Vole	SurfSoil_SW2	2.5e-04	2.1e-07	g/kg wet	
Mink	SurfSoil_E1	9.7e-08	1.9e-07	g/kg wet	
Mink	SurfSoil_E4	1.4e-05	3.9e-06	g/kg wet	
Mink	SurfSoil_ESE3	9.2e-06	4.3e-06	g/kg wet	
Mink	SurfSoil_ESE4	3.9e-06	3.5e-06	g/kg wet	
Mink	SurfSoil_ESE5	1.1e-05	3.0e-06	g/kg wet	
Mink	SurfSoil_N2	2.3e-07	8.7e-08	g/kg wet	
Mink	SurfSoil_NE2	1.6e-07	1.4e-07	g/kg wet	
Mink	SurfSoil_SE1	6.8e-07	2.5e-06	g/kg wet	
Mink	SurfSoil_SE6	3.4e-06	3.3e-06	g/kg wet	
Mink	SurfSoil_SSE2	1.5e-06	1.2e-06	g/kg wet	
Mink	SurfSoil_SSE3	1.5e-07	8.5e-08	g/kg wet	
Mink	SurfSoil_SSE4	1.2e-05	7.3e-06	g/kg wet	
Mink	SurfSoil_SSE5	3.5e-06	3.3e-06	g/kg wet	
Mink	SurfSoil_SW2	1.0e-07	7.2e-08	g/kg wet	
Mouse	SurfSoil_E1	1.2e-04	1.1e-06	g/kg wet	
Mouse	SurfSoil_E4	5.0e-04	1.5e-06	g/kg wet	
Mouse	SurfSoil_ESE2	1.9e-04	9.3e-07	g/kg wet	
Mouse	SurfSoil_ESE3	2.8e-03	5.5e-06	g/kg wet	
Mouse	SurfSoil_ESE4	1.5e-03	5.2e-06	g/kg wet	
Mouse	SurfSoil_ESE5	5.9e-05	1.7e-07	g/kg wet	
Mouse	SurfSoil_N2	8.2e-05	2.0e-07	g/kg wet	

		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Mouse	SurfSoil_NE2	1.6e-04	6.7e-07	g/kg wet	
Mouse	SurfSoil_NE3	1.5e-04	3.4e-07	g/kg wet	
Mouse	SurfSoil_SE1	1.2e-03	2.2e-05	g/kg wet	
Mouse	SurfSoil_SE6	4.1e-05	1.4e-07	g/kg wet	
Mouse	SurfSoil_SSE2	2.6e-03	9.9e-06	g/kg wet	
Mouse	SurfSoil_SSE3	1.4e-04	4.0e-07	g/kg wet	
Mouse	SurfSoil_SSE4	7.9e-04	1.8e-06	g/kg wet	
Mouse	SurfSoil_SSE5	4.4e-05	1.5e-07	g/kg wet	
Mouse	SurfSoil_SW2	5.5e-05	2.7e-07	g/kg wet	
Mouse	SurfSoil_W2	1.5e-03	3.2e-06	g/kg wet	
Raccoon	SurfSoil_E1	1.8e-05	1.3e-06	g/kg wet	
Raccoon	SurfSoil_E4	5.4e-04	5.9e-06	g/kg wet	
Raccoon	SurfSoil_ESE3	3.2e-04	6.0e-06	g/kg wet	
Raccoon	SurfSoil_ESE4	1.2e-04	4.3e-06	g/kg wet	
Raccoon	SurfSoil_ESE5	4.0e-04	4.2e-06	g/kg wet	
Raccoon	SurfSoil_N2	1.7e-05	2.5e-07	g/kg wet	
Raccoon	SurfSoil_NE2	1.7e-05	5.7e-07	g/kg wet	
Raccoon	SurfSoil_SE1	7.0e-06	1.0e-06	g/kg wet	
Raccoon	SurfSoil_SE6	1.4e-04	5.2e-06	g/kg wet	
Raccoon	SurfSoil_SSE2	2.6e-05	7.7e-07	g/kg wet	
Raccoon	SurfSoil_SSE3	2.3e-05	5.3e-07	g/kg wet	
Raccoon	SurfSoil_SSE4	4.8e-04	1.1e-05	g/kg wet	
Raccoon	SurfSoil_SSE5	1.4e-04	5.3e-06	g/kg wet	
Raccoon	SurfSoil_SW2	9.6e-06	2.7e-07	g/kg wet	
Red-tailed hawk	SurfSoil_E1	2.9e-06	1.7e-06	g/kg wet	
Red-tailed hawk	SurfSoil_E4	2.7e-06	4.9e-07	g/kg wet	
Red-tailed hawk	SurfSoil_ESE2	3.2e-06	9.6e-07	g/kg wet	
Red-tailed hawk	SurfSoil_ESE3	1.2e-05	1.5e-06	g/kg wet	
Red-tailed hawk	SurfSoil_ESE4	6.2e-06	1.3e-06	g/kg wet	
Red-tailed hawk	SurfSoil_ESE5	1.1e-06	2.0e-07	g/kg wet	
Red-tailed hawk	SurfSoil_N2	2.0e-06	3.1e-07	g/kg wet	
Red-tailed hawk	SurfSoil_NE2	2.8e-06	7.5e-07	g/kg wet	
Red-tailed hawk	SurfSoil_NE3	2.9e-06	4.0e-07	g/kg wet	
Red-tailed hawk	SurfSoil_SE1	5.0e-06	5.5e-06	g/kg wet	
Red-tailed hawk	SurfSoil_SE6	7.3e-07	1.5e-07	g/kg wet	
Red-tailed hawk	SurfSoil_SSE2	1.2e-05	2.8e-06	g/kg wet	
Red-tailed hawk	SurfSoil_SSE3	3.6e-06	6.3e-07	g/kg wet	
Red-tailed hawk	SurfSoil_SSE4	4.4e-06	6.0e-07	g/kg wet	
Red-tailed hawk	SurfSoil_SSE5	9.3e-07	1.9e-07	g/kg wet	
Red-tailed hawk	SurfSoil_SW2	1.1e-06	3.2e-07	g/kg wet	
Red-tailed hawk	SurfSoil_W2	6.7e-06	8.5e-07	g/kg wet	
Root - Grasses/Herbs	SurfSoil_N1	1.1e+00	9.1e-07	g/kg wet	

		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Root - Grasses/Herbs	SurfSoil_NE2	2.2e+00	3.2e-07	g/kg wet	
Root - Grasses/Herbs	SurfSoil_SW2	8.7e-01	1.4e-07	g/kg wet	
Root - Grasses/Herbs	SurfSoil_W1	1.7e+00	7.2e-07	g/kg wet	
Sediment	Sed_Brewer	7.1e+04	3.6e-07	g/g dry	
Sediment	Sed_Fields	1.9e+04	5.2e-07	g/g dry	
Sediment	Sed_River	6.5e+02	3.1e-09	g/g dry	
Sediment	Sed_StreamN	1.8e+03	9.9e-07	g/g dry	
Sediment	Sed_StreamS	6.4e+03	7.3e-07	g/g dry	
Sediment	Sed_Swetts	2.1e+04	1.0e-06	g/g dry	
Sediment	Sed_Thurston	1.6e+04	4.7e-07	g/g dry	
Short-tailed Shrew	SurfSoil_E1	8.4e-04	2.7e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_E4	3.0e-04	3.1e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_ESE2	8.4e-04	1.4e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_ESE3	9.4e-04	6.3e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_ESE4	4.0e-04	4.8e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_ESE5	2.6e-04	2.6e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_N2	5.4e-04	4.6e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_NE2	7.6e-04	1.1e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_NE3	7.4e-04	5.8e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_SE1	3.3e-04	2.1e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_SE6	1.9e-04	2.2e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_SSE2	1.2e-03	1.5e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_SSE3	1.0e-03	1.0e-05	g/kg wet	
Short-tailed Shrew	SurfSoil_SSE4	5.7e-04	4.4e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_SSE5	2.5e-04	2.8e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_SW2	3.0e-04	4.9e-06	g/kg wet	
Short-tailed Shrew	SurfSoil_W2	5.4e-04	3.9e-06	g/kg wet	
Soil - Root Zone	RootSoil_E1	4.2e+03	2.7e-09	g/g dry	
Soil - Root Zone	RootSoil_E4	1.5e+03	3.1e-10	g/g dry	
Soil - Root Zone	RootSoil_ESE2	4.3e+03	1.4e-09	g/g dry	
Soil - Root Zone	RootSoil_ESE3	4.8e+03	6.3e-10	g/g dry	
Soil - Root Zone	RootSoil_ESE4	2.1e+03	4.7e-10	g/g dry	
Soil - Root Zone	RootSoil_ESE5	1.3e+03	2.6e-10	g/g dry	
Soil - Root Zone	RootSoil_N1	1.8e+03	3.1e-09	g/g dry	
Soil - Root Zone	RootSoil_N2	2.7e+03	4.6e-10	g/g dry	
Soil - Root Zone	RootSoil_NE2	3.7e+03	1.1e-09	g/g dry	
Soil - Root Zone	RootSoil_NE3	3.8e+03	5.8e-10	g/g dry	
Soil - Root Zone	RootSoil_SE1	1.7e+03	2.1e-09	g/g dry	
Soil - Root Zone	RootSoil_SE6	9.4e+02	2.1e-10	g/g dry	
Soil - Root Zone	RootSoil_Source	8.0e+02	1.9e-08	g/g dry	
Soil - Root Zone	RootSoil_SSE2	6.1e+03	1.5e-09	g/g dry	
Soil - Root Zone	RootSoil_SSE3	5.3e+03	1.0e-09	g/g dry	

0		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Soil - Root Zone	RootSoil_SSE4	2.9e+03	4.4e-10	g/g dry	
Soil - Root Zone	RootSoil_SSE5	1.3e+03	2.8e-10	g/g dry	
Soil - Root Zone	RootSoil_SW2	1.5e+03	4.7e-10	g/g dry	
Soil - Root Zone	RootSoil_W1	2.9e+03	2.5e-09	g/g dry	
Soil - Root Zone	RootSoil_W2	2.7e+03	3.8e-10	g/g dry	
Soil - Surface	SurfSoil_E1	1.3e+04	5.2e-07	g/g dry	
Soil - Surface	SurfSoil_E4	4.5e+03	6.0e-08	g/g dry	
Soil - Surface	SurfSoil_ESE2	1.3e+04	2.7e-07	g/g dry	
Soil - Surface	SurfSoil_ESE3	1.4e+04	1.2e-07	g/g dry	
Soil - Surface	SurfSoil_ESE4	6.0e+03	9.1e-08	g/g dry	
Soil - Surface	SurfSoil_ESE5	3.9e+03	5.0e-08	g/g dry	
Soil - Surface	SurfSoil_N1	5.4e+03	6.3e-07	g/g dry	
Soil - Surface	SurfSoil_N2	8.1e+03	8.8e-08	g/g dry	
Soil - Surface	SurfSoil_NE2	1.1e+04	2.2e-07	g/g dry	
Soil - Surface	SurfSoil_NE3	1.1e+04	1.1e-07	g/g dry	
Soil - Surface	SurfSoil_SE1	5.0e+03	4.0e-07	g/g dry	
Soil - Surface	SurfSoil_SE6	2.8e+03	4.1e-08	g/g dry	
Soil - Surface	SurfSoil_Source	2.4e+03	3.6e-06	g/g dry	
Soil - Surface	SurfSoil_SSE2	1.8e+04	3.0e-07	g/g dry	
Soil - Surface	SurfSoil_SSE3	1.6e+04	2.0e-07	g/g dry	
Soil - Surface	SurfSoil_SSE4	8.5e+03	8.5e-08	g/g dry	
Soil - Surface	SurfSoil_SSE5	3.7e+03	5.5e-08	g/g dry	
Soil - Surface	SurfSoil_SW2	4.5e+03	9.5e-08	g/g dry	
Soil - Surface	SurfSoil_W1	8.8e+03	5.0e-07	g/g dry	
Soil - Surface	SurfSoil_W2	8.1e+03	7.4e-08	g/g dry	
Soil - Vadose Zone	VadoseSoil_E1	2.2e+02	7.8e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_E4	8.2e+01	9.3e-12	g/g dry	
Soil - Vadose Zone	VadoseSoil_ESE2	2.2e+02	4.2e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_ESE3	2.5e+02	1.9e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_ESE4	1.1e+02	1.4e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_ESE5	7.0e+01	7.8e-12	g/g dry	
Soil - Vadose Zone	VadoseSoil_N1	9.2e+01	9.1e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_N2	1.4e+02	1.4e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_NE2	2.0e+02	3.3e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_NE3	2.0e+02	1.7e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_SE1	8.7e+01	6.0e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_SE6	5.0e+01	6.5e-12	g/g dry	
Soil - Vadose Zone	VadoseSoil_Source	4.2e+01	5.4e-10	g/g dry	
Soil - Vadose Zone	VadoseSoil_SSE2	3.1e+02	4.4e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_SSE3	2.7e+02	2.9e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_SSE4	1.5e+02	1.3e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_SSE5	6.7e+01	8.5e-12	g/g dry	

		Steady-state	Steady-state Concentration		
Compartment Type	Volume Element	Mass (g)	Value	Units	
Soil - Vadose Zone	VadoseSoil_SW2	7.8e+01	1.4e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_W1	1.5e+02	7.2e-11	g/g dry	
Soil - Vadose Zone	VadoseSoil_W2	1.4e+02	1.1e-11	g/g dry	
Stem - Grasses/Herbs	SurfSoil_N1	1.3e-02	6.3e-08	g/kg wet	
Stem - Grasses/Herbs	SurfSoil_NE2	6.1e-02	5.1e-08	g/kg wet	
Stem - Grasses/Herbs	SurfSoil_SW2	2.1e-02	1.9e-08	g/kg wet	
Stem - Grasses/Herbs	SurfSoil_W1	1.0e-02	2.6e-08	g/kg wet	
Surface water	SW_Brewer	1.4e+02	4.6e-09	g/L	
Surface water	SW_Fields	1.7e+01	6.2e-09	g/L	
Surface water	SW_River	2.0e+00	8.3e-11	g/L	
Surface water	SW_StreamN	7.5e-02	1.1e-08	g/L	
Surface water	SW_StreamS	1.3e-01	8.0e-09	g/L	
Surface water	SW_Swetts	1.4e+01	1.2e-08	g/L	
Surface water	SW_Thurston	1.0e+01	5.5e-09	g/L	
Tree swallow	SurfSoil_E1	3.2e-06	1.0e-07	g/kg wet	
Tree swallow	SurfSoil_E4	1.6e-03	1.6e-05	g/kg wet	
Tree swallow	SurfSoil_ESE2	6.3e-06	1.0e-07	g/kg wet	
Tree swallow	SurfSoil_ESE3	2.4e-03	1.6e-05	g/kg wet	
Tree swallow	SurfSoil_ESE4	9.8e-04	1.1e-05	g/kg wet	
Tree swallow	SurfSoil_ESE5	1.1e-03	1.1e-05	g/kg wet	
Tree swallow	SurfSoil_N2	1.2e-05	9.5e-08	g/kg wet	
Tree swallow	SurfSoil_NE2	6.8e-06	9.6e-08	g/kg wet	
Tree swallow	SurfSoil_NE3	1.3e-05	1.0e-07	g/kg wet	
Tree swallow	SurfSoil_SE1	1.7e-06	9.9e-08	g/kg wet	
Tree swallow	SurfSoil_SE6	1.3e-03	1.4e-05	g/kg wet	
Tree swallow	SurfSoil_SSE2	7.8e-06	9.6e-08	g/kg wet	
Tree swallow	SurfSoil_SSE3	1.0e-05	9.5e-08	g/kg wet	
Tree swallow	SurfSoil_SSE4	4.1e-03	3.0e-05	g/kg wet	
Tree swallow	SurfSoil_SSE5	1.3e-03	1.4e-05	g/kg wet	
Tree swallow	SurfSoil_SW2	6.1e-06	9.5e-08	g/kg wet	
Tree swallow	SurfSoil_W2	1.4e-05	9.4e-08	g/kg wet	
Water-column Carnivore	SW_Brewer	6.6e-02	1.0e-04	g/kg wet	
Water-column Carnivore	SW_Fields	1.1e-02	8.4e-05	g/kg wet	
Water-column Carnivore	SW_River	9.8e-04	1.4e-06	g/kg wet	
Water-column Carnivore	SW_Swetts	1.0e-02	1.4e-04	g/kg wet	
Water-column Carnivore	SW_Thurston	7.2e-03	6.3e-05	g/kg wet	
Water-column Herbivore	SW_Brewer	9.4e-02	1.6e-05	g/kg wet	
Water-column Herbivore	SW_Fields	2.1e-02	1.8e-05	g/kg wet	
Water-column Herbivore	SW_River	1.2e-03	1.8e-07	g/kg wet	
Water-column Herbivore	SW_Swetts	2.2e-02	3.3e-05	g/kg wet	
Water-column Herbivore	SW_Thurston	1.6e-02	1.5e-05	g/kg wet	
Water-column Omnivore	SW_Brewer	4.5e-02	2.1e-05	g/kg wet	

_		Steady-state	Steady-state Con	centration
Compartment Type	Volume Element	Mass (g)	Value	Units
Water-column Omnivore	SW_Fields	7.8e-03	1.9e-05	g/kg wet
Water-column Omnivore	SW_River	6.5e-04	2.8e-07	g/kg wet
Water-column Omnivore	SW_Swetts	7.7e-03	3.3e-05	g/kg wet
Water-column Omnivore	SW_Thurston	5.5e-03	1.5e-05	g/kg wet
White-tailed Deer	SurfSoil_E1	2.7e-03	3.4e-07	g/kg wet
White-tailed Deer	SurfSoil_E4	1.8e-02	7.3e-07	g/kg wet
White-tailed Deer	SurfSoil_ESE2	5.3e-03	3.5e-07	g/kg wet
White-tailed Deer	SurfSoil_ESE3	1.0e-01	2.7e-06	g/kg wet
White-tailed Deer	SurfSoil_ESE4	5.6e-02	2.6e-06	g/kg wet
White-tailed Deer	SurfSoil_ESE5	1.7e-03	6.6e-08	g/kg wet
White-tailed Deer	SurfSoil_N2	1.9e-03	6.4e-08	g/kg wet
White-tailed Deer	SurfSoil_NE2	4.2e-03	2.5e-07	g/kg wet
White-tailed Deer	SurfSoil_NE3	4.0e-03	1.2e-07	g/kg wet
White-tailed Deer	SurfSoil_SE1	4.5e-02	1.1e-05	g/kg wet
White-tailed Deer	SurfSoil_SE6	1.1e-03	5.2e-08	g/kg wet
White-tailed Deer	SurfSoil_SSE2	9.6e-02	4.8e-06	g/kg wet
White-tailed Deer	SurfSoil_SSE3	3.0e-03	1.2e-07	g/kg wet
White-tailed Deer	SurfSoil_SSE4	2.8e-02	8.5e-07	g/kg wet
White-tailed Deer	SurfSoil_SSE5	1.1e-03	4.9e-08	g/kg wet
White-tailed Deer	SurfSoil_SW2	1.5e-03	9.3e-08	g/kg wet
White-tailed Deer	SurfSoil_W2	5.6e-02	1.6e-06	g/kg wet

C.3 Detailed Comparison of Steady-state and Dynamic Simulation Results

Commentment Time	Stead	y-state Co	nc : Year 3	30 Dynami	c Conc	Stead	dy-state Co Steady-s	nc : Yea tate Inp	r 30 Dynar uts Conc	nic w/	Year 30 Dynamic with Steady-state Inputs Conc : Year 30 Dynamic Conc				
Compartment Type	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio
Air ^a	1.1	ESE4	0.2	NNW3	0.7	1.0	All	1.0	All	1.0	1.0	Multiple	0.2	NNW3	0.6
Soil - Surface	30	SSE3	1.6	Source	16	5.4	SSE3	2.7	Source	3.3	9.2	ESE3	0.6	Source	5.1
Soil - Root Zone	570	SSE3	40	Source	290	150	SSE3	70	SE6	90	5.5	ESE3	0.5	Source	3.3
Soil - Vadose Zone	3,900	SSE3	390	Source	2,000	1,700	W1	750	SE6	1,000	3.2	ESE3	0.4	Source	2.1
Surface water	120	Swetts	3.6	River	77	25	Thurston	2.5	River	12	7.8	Swetts	1.4	River	5.9
Sediment	360	Swetts	7.6	River	230	75	Thurston	3.1	River	37	8.0	Fields	2.4	River	6.1
Leaf - Deciduous Forest ^a	7.6	SSE3	1.5	N2	5.8	1.0	All	1.0	All	1.0	7.6	SSE3	1.5	N2	5.8
Leaf - Coniferous Forest ^a	3.3	ESE3	1.3	W2	2.5	1.0	All	1.0	All	1.0	3.3	ESE3	1.3	W2	2.5
Leaf - Grasses/Herbs ^a	5.7	NE2	1.4	N1	3.3	1.0	All	1.0	All	1.0	5.6	NE2	1.4	N1	3.2
Leaf Particle - Deciduous Foresta	7.4	SSE3	1.5	N2	5.6	1.0	All	1.0	All	1.0	7.4	SSE3	1.5	N2	5.6
Leaf Particle - Coniferous Foresta	3.2	ESE3	1.3	W2	2.4	1.0	All	1.0	All	1.0	3.2	ESE3	1.3	W2	2.4
Leaf Particle - Grasses/Herbs ^a	5.5	NE2	0.4	N1	2.6	1.0	All	1.0	All	1.0	5.5	NE2	0.4	N1	2.6
Root - Grasses/Herbs	980	NE2	460	SW2	640	300	W1	150	NE2	220	6.4	NE2	1.9	W1	3.3
Stem - Grasses/Herbs ^a	1.4	NE2	0.4	N1	8.0	1.0	All	1.0	All	1.0	1.4	NE2	0.4	N1	0.8
Macrophyte	120	Swetts	2.4	River	87	24	Thurston	2.2	River	14	7.8	Fields	1.1	River	5.6
Earthworm	570	SSE3	120	N2	300	150	SSE3	70	SE6	91	5.5	ESE3	1.5	W2	3.5
Arthropod	1,700	SSE3	350	N2	1,000	310	SSE3	150	N2	170	9.3	ESE3	2.2	W2	5.8
Short-tailed Shrew	31	SSE3	6.5	N2	18	5.4	SSE3	2.7	N2	3.2	9.2	ESE3	2.2	W2	5.7
Meadow Vole ^a	2.4	NE2	1.7	SW2	2.0	1.2	NE2, SW2	1.2	NE2, SW2	1.2	2.0	NE2	1.4	SW2	1.7
White-tailed Deer ^a	3.2	ESE3	0.6	N2	2.3	1.2	SSE3	1.0	Multiple	1.1	3.2	ESE3	0.5	N2	2.1
Black-capped Chickadee ^a	4.1	SSE3	8.0	N2	2.5	1.6	SSE3	1.0	Multiple	1.2	3.2	ESE3	0.5	N2	2.1
Mouse ^a	5.1	SSE3	0.9	N2	2.8	1.8	SSE3	1.0	Multiple	1.3	3.2	ESE3	0.6	N2	2.2
Long-tailed Weasel	19	SSE3	2.0	W2	7.0	4.7	SSE3	1.3	SE1	2.2	4.7	ESE2	1.4	W2	3.1
Red-tailed hawk	16	SSE3	1.7	W2	6.1	4.4	SSE3	1.2	SE1	2.1	4.2	ESE2	1.3	W2	2.9
Tree swallow	350	SSE4	4.5	E1	130	74	SE6	2.8	E1	23	7.7	E4	1.6	E1	3.8
Mallard	29	Swetts	0.2	River	15	13	Swetts	1.1	River	7.2	2.2	Swetts	0.2	River	1.7
Mink ^a	110	SSE5	2.0	N2	32	34	SSE5	1.0	SE1, SSE2	9.6	4.0	ESE5	1.2	N2	2.7
Raccoon	260	SSE4	6.5	N2	110	44	SE6	2.7	SE1	17	8.3	ESE3	2.3	N2	5.4
Common Loon	130	Brewer	8.8	River	97	23	Thurston	3.3	River	15	8.3	Swetts	2.7	River	6.3
Bald Eagle ^a	130	ESE5	2.0	W2	45	27	SSE5	1.1	SE1	8.9	6.9	SSE4	1.4	W2	3.6

Compartment Type	Steady-state Conc : Year 30 Dynamic Conc			Stead	Steady-state Conc : Year 30 Dynamic w/ Steady-state Inputs Conc				Year 30 Dynamic with Steady-state Inputs Conc : Year 30 Dynamic Conc						
Compartment Type	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio	Max Ratio	Parcel w/ Max	Min Ratio	Parcel w/ Min	Arith Mean Ratio
Water-column Herbivore	100	Brewer	8.2	River	78	19	Thurston	3.1	River	12	8.2	Swetts	2.6	River	6.2
Water-column Omnivore	99	Brewer	9.2	River	69	15	Thurston	3.3	River	10	8.4	Swetts	2.8	River	6.4
Water-column Carnivore	98	Brewer	9.7	River	67	14	Thurston	3.4	River	10	8.4	Swetts	2.8	River	6.3
Benthic Invertebrate	360	Swetts	7.6	River	260	74	Thurston	3.2	River	41	8.0	Fields	2.4	River	5.9
Benthic Omnivore	360	Swetts	7.8	River	260	74	Thurston	3.2	River	41	8.0	Fields	2.4	River	5.9
Benthic Carnivore	370	Swetts	8.2	V	260	78	Thurston	3.3	River	42	8.0	Fields	2.5	River	5.9

^a Indicates dynamic concentration was average of years 26-30 rather than year 30 (all leaf and particle on leaf averaged for entire year, zeros included, to facilitate comparison to steady-state).

APPENDIX D DETAILED RESULTS FOR SENSITIVITY ANALYSIS

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AirDensity_g_cm3	All	Compartment	Air	30	0.0012
AirTemperature_K	All	Scenario	FullSS	N/a	280
AlgaeCarbonContentDryWt	All	Compartment	Surface water	7	0.465
AlgaeDensity_g_m3	All	Compartment	Surface water	7	1.00E+06
AlgaeDensityinWaterColumn_g_L	All	Compartment	Surface water	7	0.0025
AlgaeGrowthRate	All	Compartment	Surface water	7	0.7
AlgaeRadius	All	Compartment	Surface water	7	2.5
AlgaeUptakeRate	Hg2	Compartment	Surface water	7	4.00E-11
AlgaeUptakeRate	MHg	Compartment	Surface water	7	7.07E-11
AlgaeWaterContent	All	Compartment	Surface water	7	0.9
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Coniferous Forest	7	1
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Deciduous Forest	8	0.426
AllowExchange SteadyState forAir	All	Compartment	Leaf - Grasses/Herbs	4	0.426
AllowExchange SteadyState forAir	All	Compartment	Leaf Particle - Coniferous Forest	7	1
AllowExchange_SteadyState_forAir	All	Compartment	Leaf Particle - Deciduous Forest	8	0.426
AllowExchange_SteadyState_forAir	All	Compartment	Leaf Particle - Grasses/Herbs	4	0.426
AllowExchange_SteadyState_forAir	All	Compartment	Root - Grasses/Herbs	4	0.426
AllowExchange_SteadyState_forAir	All	Compartment	Stem - Grasses/Herbs	4	0.426
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Coniferous Forest	7	1
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Deciduous Forest	8	0.35
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Grasses/Herbs	4	0.35
AllowExchange_SteadyState_forOther	All	Compartment	Leaf Particle - Coniferous Forest	7	1
AllowExchange_SteadyState_forOther	All	Compartment	Leaf Particle - Deciduous Forest	8	0.35
AllowExchange_SteadyState_forOther	All	Compartment	Leaf Particle - Grasses/Herbs	4	0.35
AllowExchange_SteadyState_forOther	All	Compartment	Root - Grasses/Herbs	4	0.35
AllowExchange_SteadyState_forOther	All	Compartment	Stem - Grasses/Herbs	4	0.35
ArealDensity_Freshweight	All	Compartment	Earthworm	19	0.045
ArthropodSoilPartitioning_TimetoReachAlphaofEquilibrium	Hg2	Compartment	Arthropod	17	21
ArthropodSoilPartitioning_TimetoReachAlphaofEquilibrium	Hg0	Compartment	Arthropod	17	21
ArthropodSoilPartitioning_TimetoReachAlphaofEquilibrium	MHg	Compartment	Arthropod	17	21
Arthropod_SoilPartitionCoefficient	Hg2	Compartment	Arthropod	17	0.46
Arthropod_SoilPartitionCoefficient	MHg	Compartment	Arthropod	17	2.9
AssimilationEfficiencyFromArthropods	Hg2	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromArthropods	Hg2	Compartment	Mallard	5	1
AssimilationEfficiencyFromArthropods	Hg2	Compartment	Mouse	17	1
AssimilationEfficiencyFromArthropods	Hg2	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromArthropods	Hg2	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromArthropods	Hg0	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromArthropods	Hg0	Compartment	Mallard	5	1

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AssimilationEfficiencyFromArthropods	Hg0	Compartment	Mouse	17	1
AssimilationEfficiencyFromArthropods	Hg0	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromArthropods	Hg0	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromArthropods	MHg	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromArthropods	MHg	Compartment	Mallard	5	1
AssimilationEfficiencyFromArthropods	MHg	Compartment	Mouse	17	1
AssimilationEfficiencyFromArthropods	MHg	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromArthropods	MHg	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Carnivore	5	0.04
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Omnivore	5	0.04
AssimilationEfficiencyFromFood	Hg2	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Common Loon	5	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Mallard	5	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Mink	14	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Raccoon	14	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Carnivore	5	0.04
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Herbivore	5	0.04
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Omnivore	5	0.04
AssimilationEfficiencyFromFood	Hg0	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Carnivore	5	0.04
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Omnivore	5	0.04
AssimilationEfficiencyFromFood	Hg0	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Common Loon	5	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Mallard	5	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Mink	14	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Raccoon	14	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromFood	Hg0	Compartment	Water-column Carnivore	5	0.04
AssimilationEfficiencyFromFood	Hg0	Compartment	Water-column Herbivore	5	0.04

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AssimilationEfficiencyFromFood	Hg0	Compartment	Water-column Omnivore	5	0.04
AssimilationEfficiencyFromFood	MHg	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Carnivore	5	0.2
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Omnivore	5	0.2
AssimilationEfficiencyFromFood	MHg	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Common Loon	5	1
AssimilationEfficiencyFromFood	MHg	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Mallard	5	1
AssimilationEfficiencyFromFood	MHg	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromFood	MHg	Compartment	Mink	14	1
AssimilationEfficiencyFromFood	MHg	Compartment	Raccoon	14	1
AssimilationEfficiencyFromFood	MHg	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Carnivore	5	0.2
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Herbivore	5	0.2
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Omnivore	5	0.2
AssimilationEfficiencyFromPlants	Hg2	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromPlants	Hg2	Compartment	Mallard	5	1
AssimilationEfficiencyFromPlants	Hg2	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromPlants	Hg2	Compartment	Mouse	17	1
AssimilationEfficiencyFromPlants	Hg2	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromPlants	Hg0	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromPlants	Hg0	Compartment	Mallard	5	1
AssimilationEfficiencyFromPlants	Hg0	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromPlants	Hg0	Compartment	Mouse	17	1
AssimilationEfficiencyFromPlants	Hg0	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromPlants	MHg	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromPlants	MHg	Compartment	Mallard	5	1
AssimilationEfficiencyFromPlants	MHg	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromPlants	MHg	Compartment	Mouse	17	1
AssimilationEfficiencyFromPlants	MHg	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Mallard	5	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Mink	14	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Mouse	17	1

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AssimilationEfficiencyFromSoils	Hg2	Compartment	Raccoon	14	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromSoils	Hg2	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Mallard	5	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Mink	14	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Mouse	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Raccoon	14	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromSoils	Hg0	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Mallard	5	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Mink	14	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Mouse	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Raccoon	14	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromSoils	MHg	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Common Loon	5	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Mallard	5	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Mink	14	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Mouse	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Red-tailed hawk	17	1

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AssimilationEfficiencyFromWater	Hg2	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromWater	Hg2	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Common Loon	5	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Mallard	5	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Mink	14	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Mouse	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromWater	Hg0	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Bald Eagle	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Black-capped Chickadee	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Common Loon	5	1
AssimilationEfficiencyFromWater	MHg	Compartment	Long-tailed Weasel	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Mallard	5	1
AssimilationEfficiencyFromWater	MHg	Compartment	Meadow Vole	2	1
AssimilationEfficiencyFromWater	MHg	Compartment	Mink	14	1
AssimilationEfficiencyFromWater	MHg	Compartment	Mouse	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWater	MHg	Compartment	Red-tailed hawk	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	Tree swallow	17	1
AssimilationEfficiencyFromWater	MHg	Compartment	White-tailed Deer	17	1
AssimilationEfficiencyFromWorms	Hg2	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWorms	Hg2	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromWorms	Hg0	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWorms	Hg0	Compartment	Short-tailed Shrew	17	1
AssimilationEfficiencyFromWorms	MHg	Compartment	Raccoon	14	1
AssimilationEfficiencyFromWorms	MHg	Compartment	Short-tailed Shrew	17	1
AttenuationFactor	All	Compartment	Leaf - Coniferous Forest	7	2.9
AttenuationFactor	All	Compartment	Leaf - Deciduous Forest	8	2.9
AttenuationFactor	All	Compartment	Leaf - Grasses/Herbs	4	2.9
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Coniferous Forest	7	5

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Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Deciduous Forest	8	3.4
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Grasses/Herbs	4	5
AverageVerticalVelocity	All	Compartment	Soil - Root Zone	20	6.00E-04
AverageVerticalVelocity	All	Compartment	Soil - Surface	20	6.00E-04
AverageVerticalVelocity	All	Compartment	Soil - Vadose Zone	20	6.00E-04
BW	All	Compartment	Arthropod	17	1.31E-04
BW	All	Compartment	Bald Eagle	17	4.74
BW	All	Compartment	Benthic Carnivore	5	2
BW	All	Compartment	Benthic Omnivore	5	0.25
BW	All	Compartment	Black-capped Chickadee	17	0.0108
BW	All	Compartment	Common Loon	5	4.134
BW	All	Compartment	Long-tailed Weasel	17	0.147
BW	All	Compartment	Mallard	5	1.134
BW	All	Compartment	Meadow Vole	2	0.0441
BW	All	Compartment	Mink	14	0.8315
BW	All	Compartment	Mouse	17	0.02
BW	All	Compartment	Raccoon	14	6.35
BW	All	Compartment	Red-tailed hawk	17	1.126
BW	All	Compartment	Short-tailed Shrew	17	0.022
BW	All	Compartment	Tree swallow	17	0.0201
BW	All	Compartment	Water-column Carnivore	5	2
BW	All	Compartment	Water-column Herbivore	5	0.025
BW	All	Compartment	Water-column Omnivore	5	0.25
BW	All	Compartment	White-tailed Deer	17	74.8
BiomassPerArea_kg_m2	All	Compartment	Arthropod	17	3.01E-04
BiomassPerArea_kg_m2	All	Compartment	Macrophyte	5	1.5
BoundaryLayerThicknessAboveSediment	All	Compartment	Surface water	7	0.02
BulkWaterFlowRate_Volumetric	All	Link	from SW_Brewer, to SW_Fields	1	4.30E+04
BulkWaterFlowRate_Volumetric	All	Link	from SW_Fields, to SW_StreamN	1	5.30E+04
BulkWaterFlowRate_Volumetric	All	Link	from SW_StreamN, to SW_River	1	7.41E+04
BulkWaterFlowRate_Volumetric	All	Link	from SW_StreamS, to SW_Brewer	1	1.62E+04
BulkWaterFlowRate_Volumetric	All	Link	from SW_Thurston, to SW_StreamS	1	8,060
ChlorideConcentration_mg_L	All	Compartment	Surface water	6	2.8
ChlorideConcentration_mg_L	All	Compartment	Surface water - River	1	3.4
ChlorophyllConcentration_mg_L	All	Compartment	Surface water	7	0.0053
CorrectionExponent	All	Compartment	Leaf - Deciduous Forest	8	0.76
CorrectionExponent	All	Compartment	Leaf - Grasses/Herbs	4	0.76
CorrectionExponent	All	Compartment	Root - Grasses/Herbs	4	0.76
CorrectionExponent	All	Compartment	Stem - Grasses/Herbs	4	0.76

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
CurrentVelocity	All	Compartment	Surface water - River	1	0.166
CurrentVelocity	All	Compartment	Surface water - Stream N	1	0.736
CurrentVelocity	All	Compartment	Surface water - Stream S	1	0.0247
D_pureair	Hg2	Chemical	Divalent Mercury	N/a	0.4784
D_pureair	Hg0	Chemical	Elemental Mercury	N/a	0.4784
D_pureair	MHg	Chemical	MethylMercury	N/a	0.456
D_purewater	Hg2	Chemical	Divalent Mercury	N/a	5.54E-05
D_purewater	Hg0	Chemical	Elemental Mercury	N/a	5.54E-05
D_purewater	MHg	Chemical	MethylMercury	N/a	5.28E-05
DegreeStomatalOpening	All	Compartment	Leaf - Coniferous Forest	7	1
DegreeStomatalOpening	All	Compartment	Leaf - Deciduous Forest	8	1
DegreeStomatalOpening	All	Compartment	Leaf - Grasses/Herbs	4	1
DemethylationRate	MHg	Compartment	Bald Eagle	17	0.09
DemethylationRate	MHg	Compartment	Black-capped Chickadee	17	0.09
DemethylationRate	MHg	Compartment	Common Loon	5	0.09
DemethylationRate	MHg	Compartment	Groundwater	20	0.06
DemethylationRate	MHg	Compartment	Leaf - Coniferous Forest	7	0.03
DemethylationRate	MHg	Compartment	Leaf - Deciduous Forest	8	0.03
DemethylationRate	MHg	Compartment	Leaf - Grasses/Herbs	4	0.03
DemethylationRate	MHg	Compartment	Long-tailed Weasel	17	0.09
DemethylationRate	MHg	Compartment	Mallard	5	0.09
DemethylationRate	MHg	Compartment	Meadow Vole	2	0.09
DemethylationRate	MHg	Compartment	Mink	14	0.09
DemethylationRate	MHg	Compartment	Mouse	17	0.09
DemethylationRate	MHg	Compartment	Raccoon	14	0.09
DemethylationRate	MHg	Compartment	Red-tailed hawk	17	0.09
DemethylationRate	MHg	Compartment	Sediment	7	0.0501
DemethylationRate	MHg	Compartment	Short-tailed Shrew	17	0.09
DemethylationRate	MHg	Compartment	Soil - Root Zone	20	0.06
DemethylationRate	MHg	Compartment	Soil - Surface	20	0.06
DemethylationRate	MHg	Compartment	Soil - Vadose Zone	20	0.06
DemethylationRate	MHg	Compartment	Stem - Grasses/Herbs	4	0.03
DemethylationRate	MHg	Compartment	Surface water	7	0.013
DemethylationRate	MHg	Compartment	Tree swallow	17	0.09
DemethylationRate	MHg	Compartment	White-tailed Deer	17	0.09
Density	All	Compartment	Macrophyte	5	1
DiffusiveExchangeCoefficient	All	Link	Various	10	2.25E-04
DimensionlessViscousSublayerThickness	All	Compartment	Surface water	7	4
DistanceBetweenMidpoints	All	Link	from SW_Brewer, to SW_Fields	1	2,230

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
DistanceBetweenMidpoints	All	Link	from SW_Brewer, to SW_StreamS	1	3,015
DistanceBetweenMidpoints	All	Link	from SW_Fields, to SW_Brewer	1	2,230
DistanceBetweenMidpoints	All	Link	from SW_Fields, to SW_StreamN	1	4,195
DistanceBetweenMidpoints	All	Link	from SW_River, to SW_StreamN	1	3,715
DistanceBetweenMidpoints	All	Link	from SW_StreamN, to SW_Fields	1	4,195
DistanceBetweenMidpoints	All	Link	from SW_StreamN, to SW_River	1	3,715
DistanceBetweenMidpoints	All	Link	from SW_StreamS, to SW_Brewer	1	3,015
DistanceBetweenMidpoints	All	Link	from SW_StreamS, to SW_Thurston	1	2,075
DistanceBetweenMidpoints	All	Link	from SW_Thurston, to SW_StreamS	1	2,075
DragCoefficient	All	Compartment	Surface water	7	0.0011
DustDensity	All	Compartment	Air	30	1,400
DustLoad	All	Compartment	Air	30	6.15E-08
elevation	All	Source	Facility	N/a	0.01
emissionRate	Hg2	Source	Facility	N/a	17.66
emissionRate	Hg0	Source	Facility	N/a	335.6
FlowRateofTranspiredWaterperAreaofLeafSurface	All	Compartment	Stem - Grasses/Herbs	4	0.0048
Flushes_per_year	All	Compartment	Surface water - River	1	531.2
Flushes_per_year	All	Compartment	Surface water - Swetts	1	4.31
FoodIngestionRate	All	Compartment	Bald Eagle	17	0.12
FoodIngestionRate	All	Compartment	Black-capped Chickadee	17	0.74
FoodIngestionRate	All	Compartment	Common Loon	5	0.23
FoodIngestionRate	All	Compartment	Long-tailed Weasel	17	0.0735
FoodIngestionRate	All	Compartment	Mallard	5	0.1
FoodIngestionRate	All	Compartment	Meadow Vole	2	0.097
FoodIngestionRate	All	Compartment	Mink	14	0.14
FoodIngestionRate	All	Compartment	Mouse	17	0.2
FoodIngestionRate	All	Compartment	Raccoon	14	0.11
FoodIngestionRate	All	Compartment	Red-tailed hawk	17	0.12
FoodIngestionRate	All	Compartment	Short-tailed Shrew	17	0.47
FoodIngestionRate	All	Compartment	Tree swallow	17	0.198
FoodIngestionRate	All	Compartment	White-tailed Deer	17	0.05
FractionOrganicMatteronParticulates	All	Compartment	Air	30	0.2
FractionPhloemRatewithTranspirationFlowRate	All	Compartment	Stem - Grasses/Herbs	4	0.05
FractionofAreaAvailableforRunoff	All	Compartment	Soil - Surface	20	1
Fractionofareaavailableforerosion	All	Compartment	Soil - Surface	20	1
Fractionofareaavailableforverticaldiffusion	All	Compartment	Soil - Surface	20	1
HenryLawConstant	Hg2	Chemical	Divalent Mercury	N/a	7.19E-05
HenryLawConstant	Hg0	Chemical	Elemental Mercury	N/a	719.4
HenryLawConstant	MHg	Chemical	MethylMercury	N/a	0.04762

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
horizontalWindSpeed	All	Scenario	FullSS	N/a	3.64
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Carnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Omnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Carnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Herbivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Omnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg0	Compartment	Benthic Carnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg0	Compartment	Benthic Omnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg0	Compartment	Water-column Carnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg0	Compartment	Water-column Herbivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	Hg0	Compartment	Water-column Omnivore	5	3
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Carnivore	5	1
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Omnivore	5	1
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Water-column Carnivore	5	1
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Water-column Herbivore	5	1
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Water-column Omnivore	5	1
InhalationAssimilationEfficiency	Hg2	Compartment	Bald Eagle	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Black-capped Chickadee	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Common Loon	5	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Long-tailed Weasel	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Mallard	5	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Meadow Vole	2	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Mink	14	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Mouse	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Raccoon	14	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Red-tailed hawk	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Short-tailed Shrew	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	Tree swallow	17	0.4
InhalationAssimilationEfficiency	Hg2	Compartment	White-tailed Deer	17	0.4
InhalationAssimilationEfficiency	Hg0	Compartment	Bald Eagle	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Black-capped Chickadee	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Common Loon	5	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Long-tailed Weasel	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Mallard	5	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Meadow Vole	2	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Mink	14	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Mouse	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Raccoon	14	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Red-tailed hawk	17	0.75

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
InhalationAssimilationEfficiency	Hg0	Compartment	Short-tailed Shrew	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	Tree swallow	17	0.75
InhalationAssimilationEfficiency	Hg0	Compartment	White-tailed Deer	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Bald Eagle	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Black-capped Chickadee	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Common Loon	5	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Long-tailed Weasel	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Mallard	5	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Meadow Vole	2	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Mink	14	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Mouse	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Raccoon	14	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Red-tailed hawk	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Short-tailed Shrew	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	Tree swallow	17	0.75
InhalationAssimilationEfficiency	MHg	Compartment	White-tailed Deer	17	0.75
InhalationProps_A	All	Compartment	Bald Eagle	17	0.409
InhalationProps_A	All	Compartment	Black-capped Chickadee	17	0.409
InhalationProps_A	All	Compartment	Common Loon	5	0.409
InhalationProps_A	All	Compartment	Long-tailed Weasel	17	0.5458
InhalationProps_A	All	Compartment	Mallard	5	0.409
InhalationProps_A	All	Compartment	Meadow Vole	2	0.5458
InhalationProps_A	All	Compartment	Mink	14	0.5458
InhalationProps_A	All	Compartment	Mouse	17	0.5458
InhalationProps_A	All	Compartment	Raccoon	14	0.5458
InhalationProps_A	All	Compartment	Red-tailed hawk	17	0.409
InhalationProps_A	All	Compartment	Short-tailed Shrew	17	0.5458
InhalationProps_A	All	Compartment	Tree swallow	17	0.409
InhalationProps_A	All	Compartment	White-tailed Deer	17	0.5458
InhalationProps_B	All	Compartment	Bald Eagle	17	0.8
InhalationProps_B	All	Compartment	Black-capped Chickadee	17	0.8
InhalationProps_B	All	Compartment	Common Loon	5	0.8
InhalationProps_B	All	Compartment	Long-tailed Weasel	17	0.8
InhalationProps_B	All	Compartment	Mallard	5	0.8
InhalationProps_B	All	Compartment	Meadow Vole	2	0.8
InhalationProps_B	All	Compartment	Mink	14	0.8
InhalationProps_B	All	Compartment	Mouse	17	0.8
InhalationProps_B	All	Compartment	Raccoon	14	0.8
InhalationProps_B	All	Compartment	Red-tailed hawk	17	0.8

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
InhalationProps_B	All	Compartment	Short-tailed Shrew	17	0.8
InhalationProps_B	All	Compartment	Tree swallow	17	0.8
InhalationProps_B	All	Compartment	White-tailed Deer	17	0.8
InputCharacteristicDepth_m	Hg2	Compartment	Soil - Root Zone	20	0.08
InputCharacteristicDepth_m	Hg2	Compartment	Soil - Surface	20	0.08
InputCharacteristicDepth_m	Hg2	Compartment	Soil - Vadose Zone	20	0.08
InputCharacteristicDepth_m	Hg0	Compartment	Soil - Root Zone	20	0.08
InputCharacteristicDepth_m	Hg0	Compartment	Soil - Surface	20	0.08
InputCharacteristicDepth_m	Hg0	Compartment	Soil - Vadose Zone	20	0.08
InputCharacteristicDepth_m	MHg	Compartment	Soil - Root Zone	20	0.08
InputCharacteristicDepth_m	MHg	Compartment	Soil - Surface	20	0.08
InputCharacteristicDepth_m	MHg	Compartment	Soil - Vadose Zone	20	0.08
isDay_SteadyState_forAir	All	Scenario	FullSS	N/a	0.552
isDay_SteadyState_forOther	All	Scenario	FullSS	N/a	0.609
K_ow	Hg2	Chemical	Divalent Mercury	N/a	3.33
K_ow	Hg0	Chemical	Elemental Mercury	N/a	4.15
K_ow	MHg	Chemical	MethylMercury	N/a	1.7
Kd	Hg2	Compartment	Groundwater	20	5.80E+04
Kd	Hg2	Compartment	Sediment	7	5.80E+04
Kd	Hg2	Compartment	Soil - Root Zone	20	5.80E+04
Kd	Hg2	Compartment	Soil - Surface	20	5.80E+04
Kd	Hg2	Compartment	Soil - Vadose Zone	20	5.80E+04
Kd	Hg2	Compartment	Surface water	7	1.00E+05
Kd	Hg0	Compartment	Groundwater	20	1,000
Kd	Hg0	Compartment	Sediment	7	3,000
Kd	Hg0	Compartment	Soil - Root Zone	20	1,000
Kd	Hg0	Compartment	Soil - Surface	20	1,000
Kd	Hg0	Compartment	Soil - Vadose Zone	20	1,000
Kd	Hg0	Compartment	Surface water	7	1,000
Kd	MHg	Compartment	Groundwater	20	7,000
Kd	MHg	Compartment	Sediment	7	3,000
Kd	MHg	Compartment	Soil - Root Zone	20	7,000
Kd	MHg	Compartment	Soil - Surface	20	7,000
Kd	MHg	Compartment	Soil - Vadose Zone	20	7,000
Kd	MHg	Compartment	Surface water	7	1.00E+05
LeafWettingFactor	All	Compartment	Leaf - Deciduous Forest	8	3.00E-04
LengthofLeaf	All	Compartment	Leaf - Coniferous Forest	7	0.01
LengthofLeaf	All	Compartment	Leaf - Deciduous Forest	8	0.1
LengthofLeaf	All	Compartment	Leaf - Grasses/Herbs	4	0.05

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
LipidContent	All	Compartment	Leaf - Deciduous Forest	8	0.00224
LipidContent	All	Compartment	Leaf - Grasses/Herbs	4	0.00224
LipidContent	All	Compartment	Root - Grasses/Herbs	4	0.011
LipidContent	All	Compartment	Stem - Grasses/Herbs	4	0.00224
LitterFallRate	All	Compartment	Leaf - Coniferous Forest	7	0.0021
LitterFallRate	All	Compartment	Leaf - Deciduous Forest	8	0.013
LitterFallRate	All	Compartment	Leaf - Grasses/Herbs	4	0.013
MethylationRate	Hg2	Compartment	Groundwater	20	0.001
MethylationRate	Hg2	Compartment	Sediment	7	1.00E-04
MethylationRate	Hg2	Compartment	Soil - Root Zone	20	0.001
MethylationRate	Hg2	Compartment	Soil - Surface	20	0.001
MethylationRate	Hg2	Compartment	Soil - Vadose Zone	20	0.001
MethylationRate	Hg2	Compartment	Surface water	7	0.001
NumberofFishperSquareMeter	All	Compartment	Benthic Carnivore	5	1.07E-04
NumberofFishperSquareMeter	All	Compartment	Benthic Omnivore	5	0.00755
NumberofFishperSquareMeter	All	Compartment	Water-column Carnivore	5	8.95E-05
NumberofFishperSquareMeter	All	Compartment	Water-column Herbivore	5	0.06584
NumberofFishperSquareMeter	All	Compartment	Water-column Omnivore	5	0.00234
NumberofIndividualsPerSquareMeter	All	Compartment	Bald Eagle	17	1.30E-08
NumberofIndividualsPerSquareMeter	All	Compartment	Black-capped Chickadee	17	3.50E-05
NumberofIndividualsPerSquareMeter	All	Compartment	Common Loon	5	4.90E-08
NumberofIndividualsPerSquareMeter	All	Compartment	Long-tailed Weasel	17	6.50E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Mallard	5	9.30E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Meadow Vole	2	0.006
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - E1	1	2.72E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - E4	1	6.02E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - ESE3	1	2.29E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - ESE4	1	2.10E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - ESE5	1	6.02E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - N2	1	3.70E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - NE2	1	2.72E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SE1	1	2.72E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SE6	1	1.96E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SSE2	1	2.72E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SSE3	1	2.72E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SSE4	1	2.10E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SSE5	1	1.96E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mink - SW2	1	3.70E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Mouse	17	0.0023

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - E1	1	9.06E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - E4	1	2.01E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - ESE3	1	7.65E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - ESE4	1	6.99E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - ESE5	1	2.01E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - N2	1	1.24E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - NE2	1	9.06E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SE1	1	9.06E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SE6	1	6.52E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SSE2	1	9.06E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SSE3	1	9.06E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SSE4	1	6.99E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SSE5	1	6.52E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Raccoon - SW2	1	1.24E-06
NumberofIndividualsPerSquareMeter	All	Compartment	Red-tailed hawk	17	6.70E-07
NumberofIndividualsPerSquareMeter	All	Compartment	Short-tailed Shrew	17	6.10E-04
NumberofIndividualsPerSquareMeter	All	Compartment	Tree swallow	17	7.00E-04
NumberofIndividualsPerSquareMeter	All	Compartment	White-tailed Deer	17	4.60E-05
OrganicCarbonContent	All	Compartment	Groundwater	20	0.01
OrganicCarbonContent	All	Compartment	Soil - Root Zone	20	0.01664
OrganicCarbonContent	All	Compartment	Soil - Vadose Zone	20	0.00128
OxidationRate	Hg0	Compartment	Air	30	0.00385
OxidationRate	Hg0	Compartment	Bald Eagle	17	1
OxidationRate	Hg0	Compartment	Benthic Carnivore	5	1.00E+06
OxidationRate	Hg0	Compartment	Benthic Omnivore	5	1.00E+06
OxidationRate	Hg0	Compartment	Black-capped Chickadee	17	1
OxidationRate	Hg0	Compartment	Common Loon	5	1
OxidationRate	Hg0	Compartment	Groundwater	20	1.00E-08
OxidationRate	Hg0	Compartment	Leaf - Coniferous Forest	7	1.00E+06
OxidationRate	Hg0	Compartment	Leaf - Deciduous Forest	8	1.00E+06
OxidationRate	Hg0	Compartment	Leaf - Grasses/Herbs	4	1.00E+06
OxidationRate	Hg0	Compartment	Long-tailed Weasel	17	1
OxidationRate	Hg0	Compartment	Macrophyte	5	1.00E+09
OxidationRate	Hg0	Compartment	Mallard	5	1
OxidationRate	Hg0	Compartment	Meadow Vole	2	1
OxidationRate	Hg0	Compartment	Mink	14	1
OxidationRate	Hg0	Compartment	Mouse	17	1
OxidationRate	Hg0	Compartment	Raccoon	14	1
OxidationRate	Hg0	Compartment	Red-tailed hawk	17	1

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
OxidationRate	Hg0	Compartment	Short-tailed Shrew	17	1
OxidationRate	Hg0	Compartment	Tree swallow	17	1
OxidationRate	Hg0	Compartment	Water-column Carnivore	5	1.00E+06
OxidationRate	Hg0	Compartment	Water-column Herbivore	5	1.00E+06
OxidationRate	Hg0	Compartment	Water-column Omnivore	5	1.00E+06
OxidationRate	Hg0	Compartment	White-tailed Deer	17	1
pH	All	Compartment	Surface water	7	6.8
phi	All	Compartment	Sediment	7	0.6
PhloemDensity	All	Compartment	Stem - Grasses/Herbs	4	1000
Porosity	All	Compartment	Groundwater	20	0.2
Rain	All	Scenario	FullSS	N/a	0.0041
ReductionRate	Hg2	Compartment	Groundwater	20	3.25E-06
ReductionRate	Hg2	Compartment	Sediment	7	1.00E-06
ReductionRate	Hg2	Compartment	Soil - Root Zone	20	3.25E-06
ReductionRate	Hg2	Compartment	Soil - Surface	20	1.25E-05
ReductionRate	Hg2	Compartment	Soil - Vadose Zone	20	3.25E-06
ReductionRate	Hg2	Compartment	Surface water	7	0.0075
rho	All	Compartment	Groundwater	20	2,600
rho	All	Compartment	Sediment	7	2,650
rho	All	Compartment	Soil - Root Zone	20	2,600
rho	All	Compartment	Soil - Surface	20	2,600
rho	All	Compartment	Soil - Vadose Zone	20	2,600
rho	All	Compartment	Surface water	7	2,650
Root_RootZonePartitioningBulkSoil_PartitionCoefficient	Hg2	Compartment	Root - Grasses/Herbs	4	0.18
Root_RootZonePartitioningBulkSoil_PartitionCoefficient	MHg	Compartment	Root - Grasses/Herbs	4	1.2
Root_RootZonePartitioningBulkSoil_TimetoReachAlphaofSS	Hg2	Compartment	Root - Grasses/Herbs	4	21
Root_RootZonePartitioningBulkSoil_TimetoReachAlphaofSS	Hg0	Compartment	Root - Grasses/Herbs	4	21
Root_RootZonePartitioningBulkSoil_TimetoReachAlphaofSS	MHg	Compartment	Root - Grasses/Herbs	4	21
SedimentDepositionVelocity	All	Compartment	Surface water	7	2
SedimentPartitioning_PartitionCoefficient	Hg2	Compartment	Benthic Invertebrate	5	0.0824
SedimentPartitioning_PartitionCoefficient	Hg0	Compartment	Benthic Invertebrate	5	0.0824
SedimentPartitioning_PartitionCoefficient	MHg	Compartment	Benthic Invertebrate	5	5.04
SedimentPartitioning_TimeToReachAlphaofEquilibrium	Hg2	Compartment	Benthic Invertebrate	5	14
SedimentPartitioning_TimeToReachAlphaofEquilibrium	Hg0	Compartment	Benthic Invertebrate	5	14
SedimentPartitioning_TimeToReachAlphaofEquilibrium	MHg	Compartment	Benthic Invertebrate	5	14
SoilIngestionRate	All	Compartment	Mallard	5	0.0033
SoilIngestionRate	All	Compartment	Meadow Vole	2	0.0023
SoilIngestionRate	All	Compartment	Mouse	17	0.02
SoilIngestionRate	All	Compartment	Raccoon	14	0.094

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
SoilIngestionRate	All	Compartment	Short-tailed Shrew	17	0.0611
SoilIngestionRate	All	Compartment	White-tailed Deer	17	0.001
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE1, to Air_ENE2	1	60.61
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE1, to Air_ESE1	1	128.5
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE1, to Air_NNE1	1	260.5
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE1, to Air_Source	1	17.32
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE2, to Air_ENE1	1	38.41
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE2, to Air_ENE3	1	33.18
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE2, to Air_ESE2	1	39.22
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE2, to Air_NNE2	1	90.04
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE3, to Air_ENE2	1	52.84
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE3, to Air_ENE4	1	27.46
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE3, to Air_ESE3	1	21.87
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE3, to Air_NNE3	1	45.5
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE4, to Air_ENE3	1	57.34
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE4, to Air_ENE5	1	12.45
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE4, to Air_ESE4	1	21.81
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE5, to Air_ENE4	1	56.95
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE5, to Air_ESE5	1	43.85
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE1, to Air_ENE1	1	167.1
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE1, to Air_ESE2	1	61.1
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE1, to Air_SSE1	1	208.2
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE1, to Air_Source	1	15.48
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE2, to Air_ENE2	1	51.09
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE2, to Air_ESE1	1	37.9
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE2, to Air_ESE3	1	33.16
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE2, to Air_SSE2	1	69.81
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE3, to Air_ENE3	1	27.83
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE3, to Air_ESE2	1	52.01
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE3, to Air_ESE4	1	27.87
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE3, to Air_SSE3	1	36.04
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE4, to Air_ENE4	1	18.79
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE4, to Air_ESE3	1	38.77
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE4, to Air_ESE5	1	19.66
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE4, to Air_SSE4	1	22.7
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE5, to Air_ENE5	1	12.47
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE5, to Air_ESE4	1	29.83
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE5, to Air_SSE5	1	15.39
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE1, to Air_ENE1	1	133.1

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE1, to Air_NNE2	1	181.9
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE1, to Air_NNW1	1	165.6
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE1, to Air_Source	1	13.38
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE2, to Air_ENE2	1	36.8
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE2, to Air_NNE1	1	26.85
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE2, to Air_NNE3	1	77.83
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE2, to Air_NNW2	1	54.32
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE3, to Air_ENE3	1	23.46
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE3, to Air_NNE2	1	40.63
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE3, to Air_NNW3	1	29.76
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW1, to Air_NNE1	1	62.52
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW1, to Air_NNW2	1	181.6
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW1, to Air_Source	1	14.34
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW1, to Air_WNW1	1	215.5
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW2, to Air_NNE2	1	18.58
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW2, to Air_NNW1	1	24.2
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW2, to Air_NNW3	1	81.89
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW2, to Air_W2	1	65.1
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW3, to Air_NNE3	1	9.78
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW3, to Air_NNW2	1	40.53
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW3, to Air_W3	1	35.86
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE1, to Air_ESE1	1	133.6
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE1, to Air_SSE2	1	146.9
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE1, to Air_SSW1	1	170.8
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE1, to Air_Source	1	16
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE2, to Air_ESE2	1	38.08
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE2, to Air_SSE1	1	34.29
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE2, to Air_SSE3	1	66.39
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE2, to Air_SSW2	1	55.36
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE3, to Air_ESE3	1	21.75
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE3, to Air_SSE2	1	47.84
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE3, to Air_SSE4	1	60.7
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE3, to Air_SSW3	1	30.27
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE4, to Air_ESE4	1	14.81
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE4, to Air_SSE3	1	38.49
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE4, to Air_SSE5	1	46.58
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE4, to Air_SSW4	1	19.37
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE5, to Air_ESE5	1	17.76
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE5, to Air_SSE4	1	49.64

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW1, to Air_SSE1	1	59.93
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW1, to Air_SSW2	1	144.6
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW1, to Air_Source	1	18.03
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW1, to Air_WSW1	1	272.2
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW2, to Air_SSE2	1	17.94
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW2, to Air_SSW1	1	31.69
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW2, to Air_SSW3	1	67.11
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW2, to Air_W2	1	87.31
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW3, to Air_SSE3	1	9.92
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW3, to Air_SSW2	1	49.47
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW3, to Air_SSW4	1	61.2
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW3, to Air_W3	1	45.73
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW4, to Air_SSE4	1	16.05
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW4, to Air_SSW3	1	98.3
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_ENE1	1	93.05
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_ESE1	1	49.93
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_NNE1	1	247.5
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_NNW1	1	237.7
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_SSE1	1	187.7
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_SSW1	1	207.1
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_WNW1	1	259.9
SteadyState_AdvectiveTransfer	All	Link	from Air_Source, to Air_WSW1	1	243
SteadyState_AdvectiveTransfer	All	Link	from Air_W2, to Air_NNW2	1	19.51
SteadyState_AdvectiveTransfer	All	Link	from Air_W2, to Air_SSW2	1	20.18
SteadyState_AdvectiveTransfer	All	Link	from Air_W2, to Air_W3	1	86.07
SteadyState_AdvectiveTransfer	All	Link	from Air_W2, to Air_WNW1	1	5.64
SteadyState_AdvectiveTransfer	All	Link	from Air_W2, to Air_WSW1	1	5.62
SteadyState_AdvectiveTransfer	All	Link	from Air_W3, to Air_NNW3	1	10.66
SteadyState_AdvectiveTransfer	All	Link	from Air_W3, to Air_SSW3	1	10.89
SteadyState_AdvectiveTransfer	All	Link	from Air_W3, to Air_W2	1	17.65
SteadyState_AdvectiveTransfer	All	Link	from Air_WNW1, to Air_NNW1	1	127.8
SteadyState_AdvectiveTransfer	All	Link	from Air_WNW1, to Air_Source	1	6.61
SteadyState_AdvectiveTransfer	All	Link	from Air_WNW1, to Air_W2	1	205.2
SteadyState_AdvectiveTransfer	All	Link	from Air_WNW1, to Air_WSW1	1	132.1
SteadyState_AdvectiveTransfer	All	Link	from Air_WSW1, to Air_SSW1	1	134.9
SteadyState_AdvectiveTransfer	All	Link	from Air_WSW1, to Air_Source	1	6.26
SteadyState_AdvectiveTransfer	All	Link	from Air_WSW1, to Air_W2	1	206.2
SteadyState_AdvectiveTransfer	All	Link	from Air_WSW1, to Air_WNW1	1	166.8
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE4, to Sink 29 for Air_ENE4	1	21.11

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE5, to Sink 36 for Air_ENE5	1	5.77
SteadyState_AdvectiveTransfer	All	Link	from Air_ENE5, to Sink 37 for Air_ENE5	1	41.25
SteadyState_AdvectiveTransfer	All	Link	from Air_ESE5, to Sink 42 for Air_ESE5	1	14.3
SteadyState_AdvectiveTransfer	All	Link	from Air_NNE3, to Sink 18 for Air_NNE3	1	79.84
SteadyState_AdvectiveTransfer	All	Link	from Air_NNW3, to Sink 20 for Air_NNW3	1	79.42
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE5, to Sink 39 for Air_SSE5	1	18.94
SteadyState_AdvectiveTransfer	All	Link	from Air_SSE5, to Sink 40 for Air_SSE5	1	45.85
SteadyState_AdvectiveTransfer	All	Link	from Air_SSW4, to Sink 31 for Air_SSW4	1	91.12
SteadyState_AdvectiveTransfer	All	Link	from Air_W3, to Sink 23 for Air_W3	1	80.16
StomatalAreaNormalizedEffectiveDiffusionPathLength	All	Compartment	Leaf - Coniferous Forest	7	200
StomatalAreaNormalizedEffectiveDiffusionPathLength	All	Compartment	Leaf - Deciduous Forest	8	200
StomatalAreaNormalizedEffectiveDiffusionPathLength	All	Compartment	Leaf - Grasses/Herbs	4	200
SuspendedSedimentconcentration	All	Compartment	Surface water	6	0.0018
SuspendedSedimentconcentration	All	Compartment	Surface water - River	1	0.015
TSCF	Hg2	Compartment	Stem - Grasses/Herbs	4	0.5
TSCF	MHg	Compartment	Stem - Grasses/Herbs	4	0.2
TotalErosionRate_kg_m2_day	All	Compartment	Soil - Surface	20	2.89E-04
TotalExcretionRate	Hg2	Compartment	Bald Eagle	17	0.48
TotalExcretionRate	Hg2	Compartment	Black-capped Chickadee	17	0.48
TotalExcretionRate	Hg2	Compartment	Common Loon	5	0.48
TotalExcretionRate	Hg2	Compartment	Long-tailed Weasel	17	0.48
TotalExcretionRate	Hg2	Compartment	Mallard	5	0.48
TotalExcretionRate	Hg2	Compartment	Meadow Vole	2	0.48
TotalExcretionRate	Hg2	Compartment	Mink	14	0.48
TotalExcretionRate	Hg2	Compartment	Mouse	17	0.48
TotalExcretionRate	Hg2	Compartment	Raccoon	14	0.48
TotalExcretionRate	Hg2	Compartment	Red-tailed hawk	17	0.48
TotalExcretionRate	Hg2	Compartment	Short-tailed Shrew	17	0.48
TotalExcretionRate	Hg2	Compartment	Tree swallow	17	0.48
TotalExcretionRate	Hg2	Compartment	White-tailed Deer	17	0.48
TotalExcretionRate	Hg0	Compartment	Bald Eagle	17	0.05
TotalExcretionRate	Hg0	Compartment	Black-capped Chickadee	17	0.05
TotalExcretionRate	Hg0	Compartment	Common Loon	5	0.05
TotalExcretionRate	Hg0	Compartment	Long-tailed Weasel	17	0.05
TotalExcretionRate	Hg0	Compartment	Mallard	5	0.05
TotalExcretionRate	Hg0	Compartment	Meadow Vole	2	0.05
TotalExcretionRate	Hg0	Compartment	Mink	14	0.05
TotalExcretionRate	Hg0	Compartment	Mouse	17	0.05
TotalExcretionRate	Hg0	Compartment	Raccoon	14	0.05

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
TotalExcretionRate	Hg0	Compartment	Red-tailed hawk	17	0.05
TotalExcretionRate	Hg0	Compartment	Short-tailed Shrew	17	0.05
TotalExcretionRate	Hg0	Compartment	Tree swallow	17	0.05
TotalExcretionRate	Hg0	Compartment	White-tailed Deer	17	0.05
TotalExcretionRate	MHg	Compartment	Bald Eagle	17	0.086
TotalExcretionRate	MHg	Compartment	Black-capped Chickadee	17	0.086
TotalExcretionRate	MHg	Compartment	Common Loon	5	0.086
TotalExcretionRate	MHg	Compartment	Long-tailed Weasel	17	0.26
TotalExcretionRate	MHg	Compartment	Mallard	5	0.086
TotalExcretionRate	MHg	Compartment	Meadow Vole	2	0.26
TotalExcretionRate	MHg	Compartment	Mink	14	0.26
TotalExcretionRate	MHg	Compartment	Mouse	17	0.26
TotalExcretionRate	MHg	Compartment	Raccoon	14	0.26
TotalExcretionRate	MHg	Compartment	Red-tailed hawk	17	0.086
TotalExcretionRate	MHg	Compartment	Short-tailed Shrew	17	0.26
TotalExcretionRate	MHg	Compartment	Tree swallow	17	0.086
TotalExcretionRate	MHg	Compartment	White-tailed Deer	17	0.26
TotalRunoffRate_m3_m2_day	All	Compartment	Soil - Surface	20	0.00101
TransferFactortoLeaf	Hg2	Compartment	Leaf Particle - Coniferous Forest	7	0.2
TransferFactortoLeaf	Hg2	Compartment	Leaf Particle - Deciduous Forest	8	0.2
TransferFactortoLeaf	Hg2	Compartment	Leaf Particle - Grasses/Herbs	4	0.2
TransferFactortoLeaf	Hg0	Compartment	Leaf Particle - Coniferous Forest	7	0.2
TransferFactortoLeaf	Hg0	Compartment	Leaf Particle - Deciduous Forest	8	0.2
TransferFactortoLeaf	Hg0	Compartment	Leaf Particle - Grasses/Herbs	4	0.2
TransferFactortoLeaf	MHg	Compartment	Leaf Particle - Coniferous Forest	7	0.2
TransferFactortoLeaf	MHg	Compartment	Leaf Particle - Deciduous Forest	8	0.2
TransferFactortoLeaf	MHg	Compartment	Leaf Particle - Grasses/Herbs	4	0.2
TransferFactortoLeafParticle	Hg2	Compartment	Leaf - Coniferous Forest	7	0.002
TransferFactortoLeafParticle	Hg2	Compartment	Leaf - Deciduous Forest	8	0.002
TransferFactortoLeafParticle	Hg2	Compartment	Leaf - Grasses/Herbs	4	0.002
TransferFactortoLeafParticle	Hg0	Compartment	Leaf - Coniferous Forest	7	0.002
TransferFactortoLeafParticle	Hg0	Compartment	Leaf - Deciduous Forest	8	0.002
TransferFactortoLeafParticle	Hg0	Compartment	Leaf - Grasses/Herbs	4	0.002
TransferFactortoLeafParticle	MHg	Compartment	Leaf - Coniferous Forest	7	0.002
TransferFactortoLeafParticle	MHg	Compartment	Leaf - Deciduous Forest	8	0.002
TransferFactortoLeafParticle	MHg	Compartment	Leaf - Grasses/Herbs	4	0.002
VaporDryDepositionVelocity_m_day	Hg2	Compartment	Soil - Surface	20	864
VaporDryDepositionVelocity_m_day	Hg2	Compartment	Surface water	7	864
VaporDryDepositionVelocity_m_day	Hg0	Compartment	Soil - Surface	20	8.64

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
VaporWashoutRatio	Hg2	Chemical	Divalent Mercury	N/a	1.60E+06
VaporWashoutRatio	Hg0	Chemical	Elemental Mercury	N/a	1,200
vdep	Hg2	Compartment	Air	30	500
vdep	Hg0	Compartment	Air	30	500
vdep	MHg	Compartment	Air	30	500
VolumeParticlePerAreaLeaf	All	Compartment	Leaf Particle - Coniferous Forest	7	1.00E-09
VolumeParticlePerAreaLeaf	All	Compartment	Leaf Particle - Deciduous Forest	8	1.00E-09
VolumeParticlePerAreaLeaf	All	Compartment	Leaf Particle - Grasses/Herbs	4	1.00E-09
WashoutRatio	All	Compartment	Air	30	2.00E+05
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg2	Compartment	Macrophyte	5	0.883
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Compartment	Macrophyte	5	0.883
WaterColumnDissolvedPartitioning_PartitionCoefficient	MHg	Compartment	Macrophyte	5	4.4
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg2	Compartment	Macrophyte	5	18
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Compartment	Macrophyte	5	18
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	MHg	Compartment	Macrophyte	5	18
WaterContent	All	Compartment	Leaf - Coniferous Forest	7	0.8
WaterContent	All	Compartment	Leaf - Deciduous Forest	8	0.8
WaterContent	All	Compartment	Leaf - Grasses/Herbs	4	0.8
WaterContent	All	Compartment	Root - Grasses/Herbs	4	0.8
WaterContent	All	Compartment	Stem - Grasses/Herbs	4	0.8
WaterIngProps_A	All	Compartment	Bald Eagle	17	0.059
WaterIngProps_A	All	Compartment	Black-capped Chickadee	17	0.059
WaterIngProps_A	All	Compartment	Common Loon	5	0.059
WaterIngProps_A	All	Compartment	Long-tailed Weasel	17	0.099
WaterIngProps_A	All	Compartment	Mallard	5	0.059
WaterIngProps_A	All	Compartment	Meadow Vole	2	0.099
WaterIngProps_A	All	Compartment	Mink	14	0.099
WaterIngProps_A	All	Compartment	Mouse	17	0.099
WaterIngProps_A	All	Compartment	Raccoon	14	0.099
WaterIngProps_A	All	Compartment	Red-tailed hawk	17	0.059
WaterIngProps_A	All	Compartment	Short-tailed Shrew	17	0.099
WaterIngProps_A	All	Compartment	Tree swallow	17	0.059
WaterIngProps_A	All	Compartment	White-tailed Deer	17	0.099
WaterIngProps_B	All	Compartment	Bald Eagle	17	0.67
WaterIngProps_B	All	Compartment	Black-capped Chickadee	17	0.67
WaterIngProps_B	All	Compartment	Common Loon	5	0.67
WaterIngProps_B	All	Compartment	Long-tailed Weasel	17	0.9
WaterIngProps_B	All	Compartment	Mallard	5	0.67
WaterIngProps_B	All	Compartment	Meadow Vole	2	0.9

Appendix D.1. Input Properties Assessed in the Mercury Test Case Sensitivity Analysis

Property ^a	Chemical	Object Type	Object Name / Link Information	Number of VEs ^b	Mean Input
WaterIngProps_B	All	Compartment	Mink	14	0.9
WaterIngProps_B	All	Compartment	Mouse	17	0.9
WaterIngProps_B	All	Compartment	Raccoon	14	0.9
WaterIngProps_B	All	Compartment	Red-tailed hawk	17	0.67
WaterIngProps_B	All	Compartment	Short-tailed Shrew	17	0.9
WaterIngProps_B	All	Compartment	Tree swallow	17	0.67
WaterIngProps_B	All	Compartment	White-tailed Deer	17	0.9
WaterTemperature_K	All	Volume Element	Various	7	293.2
Water_content	All	Compartment	Earthworm	19	0.84
WetDensity	All	Compartment	Leaf - Coniferous Forest	7	820
WetDensity	All	Compartment	Leaf - Deciduous Forest	8	820
WetDensity	All	Compartment	Leaf - Grasses/Herbs	4	820
WetDensity	All	Compartment	Root - Grasses/Herbs	4	820
WetDensity	All	Compartment	Stem - Grasses/Herbs	4	830
WetDepInterceptionFraction_UserSupplied	All	Compartment	Leaf - Coniferous Forest	7	0.2
WetDepInterceptionFraction_UserSupplied	All	Compartment	Leaf - Deciduous Forest	8	0.2
WetDepInterceptionFraction_UserSupplied	All	Compartment	Leaf - Grasses/Herbs	4	0.2
WetMassperArea	All	Compartment	Leaf - Coniferous Forest	7	2
WetMassperArea	All	Compartment	Leaf - Deciduous Forest	8	0.6
WetMassperArea	All	Compartment	Leaf - Grasses/Herbs	4	0.6
WetMassperArea	All	Compartment	Root - Grasses/Herbs	4	1.4
WetMassperArea	All	Compartment	Stem - Grasses/Herbs	4	0.24
WormSoilInteraction_t_alpha	Hg2	Compartment	Earthworm	19	21
WormSoilInteraction_t_alpha	Hg0	Compartment	Earthworm	19	21
WormSoilInteraction_t_alpha	MHg	Compartment	Earthworm	19	21
WormSoilPartitionCoefficient_dryweight	Hg2	Compartment	Earthworm	19	0.36
WormSoilPartitionCoefficient_dryweight	Hg0	Compartment	Earthworm	19	0.36
WormSoilPartitionCoefficient_dryweight	MHg	Compartment	Earthworm	19	0.36
XylemDensity	All	Compartment	Stem - Grasses/Herbs	4	900

^a For additional description of the input properties used in TRIM.FaTE, along with a key between common names used for properties and their TRIM.FaTE code names, see Module 16 of the *TRIM.FaTE User's Guide* and the TRIM.FaTE technical support documents.

^b Value indicates number of volume elements (VEs) a property applies to (and was varied in at the same time in the sensitivity analysis). For link object types, the number of links is reported, not the number of VEs.

Appendix D.2. Sensitivity of Predicted Concentration to TRIM.FaTE Input Properties (top 30 properties for each compartment examined, ranked by absolute elasticity)^a

Divalent Mercury in Air Compartment ESE1				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.999	0.999
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.444	-0.038
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.397	0.065
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.349	-0.043
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.333	0.037
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.255	-0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.228	-0.024
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.199	0.049
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.189	0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.187	0.026
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.149	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.140	-0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.022
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.131	-0.014
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.121	-0.015
Rain	All	FullSS	-0.118	-0.014
VaporWashoutRatio	Hg2	Divalent Mercury	-0.118	-0.354
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.114	0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.100	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.099	-0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.099	0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.082	-0.010
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.079	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.070	-0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.051	-0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.050	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.049	0.006
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.048	0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.048	-0.005
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.045	-0.005
Elemental Mercury in Air Compartment ESE1	Chemical	Ohi a 4 Nama	Iron	a
Property				
- mining Data		Object Name	Elasticity	Sensitivity Score
emissionRate	Hg0	Facility	0.997	0.997
SteadyState_AdvectiveTransfer	Hg0 All	Facility Link from Air, to Air	0.997 -0.458	0.997 -0.039
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All	Facility Link from Air, to Air Link from Air, to Air	0.997 -0.458 0.399	0.997 -0.039 0.066
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All	Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.997 -0.458 0.399 -0.360	0.997 -0.039 0.066 -0.044
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338	0.997 -0.039 0.066 -0.044 0.038
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271	0.997 -0.039 0.066 -0.044 0.038 -0.031
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All All All	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245	0.997 -0.039 0.066 -0.044 0.038 -0.031
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All All All	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015 -0.014
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015 -0.014
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 0.122 -0.117 0.117	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.014 0.020 -0.014
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 -0.127	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.014 0.020 -0.014 0.020 -0.013 -0.013
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 0.122 -0.117 0.117	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.014 0.020 -0.014 0.013 -0.012 0.015
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 0.122 -0.117 0.117 -0.110 0.095	0.997 -0.039 0.066 -0.044 0.038 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.014 0.020 -0.014 0.013 -0.012 0.015 -0.015
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 0.122 -0.117 0.117 -0.110 0.095 -0.089	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.014 0.020 -0.014 0.013 -0.012 0.015 -0.010
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 -0.117 -0.110 0.095 -0.089 -0.086	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015 -0.014 0.013 -0.012 0.015 -0.010 -0.010
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 -0.117 -0.110 0.095 -0.089 -0.068	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015 -0.014 0.013 -0.012 0.015 -0.010 -0.010 -0.007
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 -0.117 -0.110 0.095 -0.089 -0.066	0.997 -0.039 -0.039 -0.044 -0.038 -0.031 -0.026 -0.045 -0.016 -0.012 -0.014 -0.012 -0.015 -0.015 -0.010 -0.007 -0.007
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.127 -0.117 -0.110 0.095 -0.089 -0.066 -0.066	0.997 -0.039 -0.039 -0.044 -0.038 -0.031 -0.026 -0.045 -0.016 -0.012 -0.015 -0.016 -0.015 -0.010 -0.007 -0.007 -0.007
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.122 -0.117 -0.110 0.095 -0.089 -0.068 -0.066 -0.062	0.997 -0.039 -0.044 -0.044 -0.038 -0.026 -0.045 -0.026 -0.016 -0.027 -0.018 -0.019 -0.010 -0.010 -0.010 -0.010 -0.010 -0.007 -0.007 -0.008
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.122 -0.117 -0.110 0.095 -0.086 -0.066 -0.062 -0.056	0.997 -0.039 -0.044 -0.044 -0.038 -0.026 -0.045 -0.020 -0.016 -0.022 -0.015 -0.014 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.007 -0.007 -0.008 -0.008
SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.997 -0.458 0.399 -0.360 0.338 -0.271 -0.245 0.194 0.183 -0.146 -0.140 -0.138 -0.122 -0.117 -0.110 0.095 -0.086 -0.066 -0.062 -0.056	0.997 -0.039 0.066 -0.044 0.038 -0.031 -0.026 0.027 0.045 0.020 -0.016 -0.022 -0.015 -0.014 0.020 -0.014 0.013 -0.015 -0.010 -0.010 -0.007 -0.007 -0.007 -0.008 -0.008

Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.901	0.345
AirTemperature_K	All	FullSS	-1.671	-0.002
emissionRate	Hg0	Facility	0.992	0.992
HenryLawConstant	MHg	MethylMercury	0.748	0.748
Kd	MHg	Surface water	-0.693	-0.693
MethylationRate	Hg2	Surface water	0.664	0.664
Dimensionless Viscous Sublayer Thickness	All	Surface water	-0.646	-0.194
horizontalWindSpeed	All	FullSS	0.642	0.642
Rain	All	FullSS	0.563	0.069
VaporWashoutRatio	Hg2	Divalent Mercury	0.561	1.683
SedimentDepositionVelocity	All	Surface water	-0.554	
D_pureair	MHg	MethylMercury	0.500	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.441	
WaterTemperature_K	All	Surface water	-0.432	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.424	
ReductionRate	Hg2	Surface water	-0.389	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.370	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.359	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.358	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.322	0.036
DragCoefficient	All	Surface water	0.322	0.030
ReductionRate	Hg2	Soil-Surface	-0.305	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.303	
rho	All	Soil-Surface	-0.298	
SuspendedSedimentconcentration	All	Surface water	-0.298	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.297	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.292	
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.263	
BiomassPerArea_kg_m2	All	Macrophyte	0.262	
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Macrophyte	0.262	
	ngo	Macrophyte	0.202	0.763
Divalent Mercury in Air Compartment SSE1	Chemical	Object Name	Flasticity	Sensitivity Score
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Property emissionRate	Hg2	Facility	0.999	0.999
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All	Facility Link from Air, to Air	0.999 0.458	0.999 0.051
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All	Facility Link from Air, to Air Link from Air, to Air	0.999 0.458 -0.434	0.999 0.051 -0.046
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All	Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.999 0.458 -0.434 -0.330	0.999 0.051 -0.046 -0.037
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217	0.999 0.051 -0.046 -0.037 0.035
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195	0.999 0.051 -0.046 -0.037 0.035
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All All	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.147	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.147 -0.140 -0.133	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.147 -0.140 -0.133 -0.129	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014 -0.013
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014 -0.013
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.147 -0.140 -0.129 0.123 -0.116 0.116 -0.099	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014 -0.013
Property emissionRate SteadyState_AdvectiveTransfer Rain	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 0.116 -0.099 -0.098	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.011 -0.011
Property emissionRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014 -0.011 -0.012 -0.295
Property emissionRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 0.014 -0.011 -0.012 -0.295 -0.012
Property emissionRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.012 -0.295 -0.012 0.013
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098 -0.094 -0.089 -0.075	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.012 -0.029 -0.012 -0.013 -0.008
Property emissionRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.094 0.089 -0.075	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.012 -0.029 -0.012 -0.013 -0.008
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.094 0.089 -0.075 0.072	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.011 -0.012 -0.029 -0.012 0.013 -0.008 0.010
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098 -0.094 0.089 -0.075 0.072 -0.063	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.012 -0.012 -0.013 -0.013 -0.008 0.010 -0.007
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098 -0.098 -0.075 0.075 -0.063 -0.056	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 0.014 -0.012 -0.012 -0.013 -0.008 0.010 -0.007 0.014 -0.006
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098 -0.098 -0.075 -0.075 -0.063 -0.055 -0.047	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 -0.014 -0.013 -0.012 -0.012 -0.013 -0.008 0.010 -0.006 -0.006 -0.006 -0.007 -0.014 -0.006
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 -0.099 -0.098 -0.098 -0.094 -0.063 -0.055 -0.047 -0.043	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.014 -0.013 -0.012 -0.012 -0.015 -0.016 -0.016 -0.016 -0.017 -0.017 -0.017 -0.018 -0.018 -0.018 -0.019 -0.019 -0.019 -0.008 -0.010 -0.007 -0.006 -0.005 -0.005
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 0.116 -0.099 -0.098 -0.098 -0.075 0.072 -0.063 0.056 -0.055 -0.047 -0.043 -0.041	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.013 0.014 -0.011 -0.012 -0.012 -0.015 -0.016 -0.016 -0.016 -0.017 -0.017 -0.018 -0.018 -0.019 -0.008 -0.008 -0.007 -0.006 -0.006 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007 -0.007
emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 0.116 -0.099 -0.098 -0.098 -0.075 -0.063 -0.055 -0.047 -0.043 -0.040	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 -0.011 -0.012 -0.012 -0.012 -0.013 0.014 -0.013 -0.013 -0.015 -0.016 -0.016 -0.016 -0.017 -0.017 -0.017 -0.018 -0.018 -0.008 -0.008 -0.008 -0.007 -0.007 -0.005 -0.007 -0.005
Property emissionRate SteadyState_AdvectiveTransfer	Hg2 All All All All All All All All All Al	Facility Link from Air, to Air	0.999 0.458 -0.434 -0.330 0.217 0.195 -0.174 -0.140 -0.133 -0.129 0.123 -0.116 0.116 -0.099 -0.098 -0.098 -0.075 0.072 -0.063 0.056 -0.055 -0.047 -0.043 -0.041	0.999 0.051 -0.046 -0.037 0.035 0.017 -0.029 -0.016 -0.016 -0.016 -0.011 -0.012 -0.012 -0.012 -0.013 0.014 -0.013 -0.015 -0.016 -0.016 -0.016 -0.017 -0.017 -0.018 -0.018 -0.019 -0.009 -0.009 -0.007 -0.007 -0.005 -0.007 -0.004 -0.005

Appendix D.2. Sensitivity of Predicted Concentration to TRIM.FaTE Input Properties (top 30 properties for each compartment examined, ranked by absolute elasticity)^a

Elemental Mercury in Air Compartment SSE1				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg0	Facility	0.998	0.998
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.456	-0.049
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.431	0.048
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.333	-0.037
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.228	0.037
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.199	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.174	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.153	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.144	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.141	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.134	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.132	0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.129	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.113	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.112	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.096	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.086	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.080	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.079	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.079	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.073	-0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.072	-0.008
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.059	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.059	-0.007
· -	All	Link from Air, to Air	0.056	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.036	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.045	-0.005
SteadyState_AdvectiveTransfer	All		0.045	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air Link from Air, to Air	-0.044	-0.007
SteadyState_AdvectiveTransfer	All	· ·		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.043	-0.005
Methyl Mercury in Air Compartment SSE1				
	Chemical	Object Name	Flacticity	Sensitivity Score
Property	Chemical	Object Name	Elasticity 6.517	Sensitivity Score
Property rho	All	Surface water	6.517	0.326
Property rho AirTemperature_K	All All	Surface water FullSS	6.517 -1.638	0.326 -0.002
Property rho AirTemperature_K emissionRate	All All Hg2	Surface water FullSS Facility	6.517 -1.638 0.993	0.326 -0.002 0.993
Property rho AirTemperature_K emissionRate HenryLawConstant	All All Hg2 MHg	Surface water FullSS Facility MethylMercury	6.517 -1.638 0.993 0.733	0.326 -0.002 0.993 0.733
Property rho AirTemperature_K emissionRate HenryLawConstant Kd	All All Hg2 MHg MHg	Surface water FullSS Facility MethylMercury Surface water	6.517 -1.638 0.993 0.733 -0.685	0.326 -0.002 0.993 0.733 -0.685
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness	All All Hg2 MHg MHg All	Surface water FullSS Facility MethylMercury Surface water Surface water	6.517 -1.638 0.993 0.733 -0.685	0.326 -0.002 0.993 0.733 -0.685 -0.195
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed	All All Hg2 MHg MHg All All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS	6.517 -1.638 0.993 0.733 -0.685 -0.651	0.326 -0.002 0.993 0.733 -0.685 -0.195
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate	All All Hg2 MHg MHg All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain	All Hg2 MHg MHg All All Hg2 All All Hg1	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio	All Hg2 MHg MHg All All Hg2 All Hg2 All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 -0.616 0.572	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity	All Hg2 MHg MHg All All Hg2 All Hg2 All All Hg2 All All All Hg2 All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair	All Hg2 MHg MHg All All Hg2 All Hg2 All All Hg2 All All Hg2 All MHg	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 -0.616 0.572 0.571 -0.544	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All Hg2 All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 -0.616 0.572 0.571 -0.544 0.490	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 MHg MHg All All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All MHg All MHg All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 -0.616 0.572 0.571 -0.544 0.490 -0.426	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 0.046
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate	All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All MHg All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 0.046 -0.354
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K	All Hg2 MHg MHg All Hg2 All All Hg2 All All All Hg2 All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 0.046 -0.354 -0.332
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All Hg2 All All All Hg2 All All All Hg2 All All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Surface water	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 0.046 -0.354 -0.332 0.097
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Soil - Surface	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho	All All Hg2 MHg MHg All All Hg2 All All Hg2 All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Soil - Surface Soil - Surface	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All All Hg2 All All All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All Hg1 All Hg2 All All	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All Hg2 All All Hg2 All All Hg2 All All Hg1 All Hg2 All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Surface water Surface water Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031 0.023
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All Hg2 All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031 0.023 -0.077
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All All All Hg2 All All All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258 0.257 -0.241	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.354 -0.311 -0.015 -0.031 -0.023 -0.077 0.041 -0.030
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate tho SteadyState_AdvectiveTransfer WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	All All Hg2 MHg MHg All All Hg2 All All Hg2 All All Hg2 All Hg2 All MHg All All Hg2 All All All Hg2 All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Surface water Surface water Surface water Link from Air, to Air Surface water Surface water Surface water Link from Air, to Air Surface water Link from Air, to Air	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258 0.257 -0.241 -0.240	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031 0.023 -0.077 0.041 -0.030
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate tho SteadyState_AdvectiveTransfer WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2	All All Hg2 MHg MHg All All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Surface water Surface water Surface water Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Macrophyte Macrophyte	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258 0.257 -0.241 -0.240 0.239	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031 0.023 -0.077 0.041 -0.030 -0.030 -0.0721 0.030
Property rho AirTemperature_K emissionRate HenryLawConstant Kd Dimensionless ViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient	All All Hg2 MHg MHg All All Hg2 All All Hg2 All Hg2 All Hg2 All MHg All Hg2 All All Hg2 All All Hg2	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Surface water Surface water Surface water Link from Air, to Air Macrophyte Macrophyte Macrophyte	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258 0.257 -0.241 -0.240 0.239 0.239	0.326 -0.002 0.993 0.733 -0.685 -0.195 0.647 0.641 -0.066 0.070 1.713 -0.163 0.025 -0.046 -0.354 -0.332 0.097 -0.314 -0.015 -0.031 -0.023 -0.077 0.041 -0.030 -0.721 0.239 0.717
Property rho AirTemperature_K emissionRate HenryLawConstant Kd DimensionlessViscousSublayerThickness horizontalWindSpeed MethylationRate SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K DragCoefficient ReductionRate rho SteadyState_AdvectiveTransfer WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2	All All Hg2 MHg MHg All All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water FullSS Facility MethylMercury Surface water Surface water FullSS Surface water Link from Air, to Air FullSS Divalent Mercury Surface water MethylMercury Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Surface water Surface water Surface water Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Macrophyte Macrophyte	6.517 -1.638 0.993 0.733 -0.685 -0.651 0.647 0.642 -0.616 0.572 0.571 -0.544 0.490 -0.426 0.371 -0.355 -0.333 0.324 -0.314 -0.307 -0.283 0.270 -0.258 0.257 -0.241 -0.240 0.239	0.32 -0.00 0.99 0.73 -0.68 -0.19 0.64 -0.06 0.07 1.71 -0.16 0.02 -0.04 0.04 -0.35 -0.33 -0.09 -0.31 -0.01 -0.03 -0.02 -0.04 -0.05 -0.07 -0.07

Appendix D.2. Sensitivity of Predicted Concentration to TRIM.FaTE Input Properties (top 30 properties for each compartment examined, ranked by absolute elasticity)^a

Divalent Mercury in Air Compartment SSE3				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.996	0.996
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.507	0.057
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.323	-0.036
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.307	0.034
Rain	All	FullSS	-0.290	-0.035
VaporWashoutRatio	Hg2	Divalent Mercury	-0.290	-0.869
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.263	-0.029
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.248	0.027
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.246	-0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.245	-0.027
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.214	-0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.185	0.029
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.162	0.026
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.155	0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.135	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.134	0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.118	-0.020
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.113	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.108	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.108	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.108	-0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.107	0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.099	-0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.098	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.095	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.094	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.088	-0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.086	
SteadyState_AdvectiveTransfer Elemental Mercury in Air Compartment SSE3	All	Link from Air, to Air	0.086	0.007
Intermental Mercury in Air Compartment 558.5				
· · ·	Chemical	Object Name	Elasticity	Sensitivity Score
Property	Chemical	Object Name	Elasticity 0.993	Sensitivity Score
Property emissionRate	Hg0	Facility	0.993	0.993
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All	Facility Link from Air, to Air	0.993 0.488	0.993 0.055
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All	Facility Link from Air, to Air Link from Air, to Air	0.993	0.993 0.055 -0.039
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All	Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.993 0.488 -0.346 -0.293	0.993 0.055 -0.039 -0.032
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All	Facility Link from Air, to Air	0.993 0.488 -0.346	0.993 0.055 -0.039
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277	0.993 0.055 -0.039 -0.032 0.032
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All All All	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032
Property emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All All All All All All	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 0.025
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218	0.993 0.055 -0.039 -0.032 -0.030 -0.032 0.025 -0.023
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.025 -0.023 -0.022 0.031
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193	0.993 0.055 -0.039 -0.032 -0.030 -0.032 0.025 -0.023 -0.022 0.031
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177	0.993 0.055 -0.039 -0.032 -0.030 -0.032 0.025 -0.022 0.031 0.028 0.028
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177 0.176	0.993 0.055 -0.039 -0.032 -0.030 -0.032 0.025 -0.022 0.031 0.028 0.021 -0.017
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177 0.176 -0.155	0.993 0.055 -0.039 -0.032 -0.032 -0.032 -0.025 -0.022 0.031 0.028 0.021 -0.017
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177 0.176 -0.155	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 0.025 -0.023 0.021 -0.017 0.022 -0.016
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177 0.176 -0.155 0.152	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 0.025 -0.023 0.031 0.028 0.021 -0.017 -0.016 -0.014
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 0.025 -0.023 0.031 0.028 0.021 -0.017 0.022 -0.016 -0.014
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124	0.993 0.055 -0.039 -0.032 0.032 -0.032 -0.032 -0.025 -0.023 -0.021 -0.017 -0.012 -0.014 -0.014 -0.026
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109	0.993 0.055 -0.039 -0.032 0.032 -0.032 -0.032 -0.025 -0.022 -0.022 -0.017 -0.017 -0.014 -0.014 -0.014 -0.016
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109	0.993 0.055 -0.039 -0.032 0.032 -0.032 -0.032 -0.025 -0.022 -0.021 -0.017 -0.014 -0.014 -0.018 0.018
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109	0.993 0.055 -0.039 -0.032 0.032 -0.036 -0.025 -0.022 -0.021 -0.014 -0.014 -0.014 -0.015 -0.015 -0.015 -0.015 -0.015 -0.016 -0.016 -0.016 -0.017 -0.017 -0.017 -0.018 -0.018 -0.018 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109 0.107	0.993 0.055 -0.039 -0.032 0.032 -0.036 -0.025 -0.022 0.031 0.028 0.021 -0.016 -0.014 -0.014 0.018 0.015 -0.009
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109 0.107	0.993 0.055 -0.039 -0.032 0.032 -0.032 -0.032 -0.025 -0.022 -0.021 -0.014 -0.014 -0.018 0.015 -0.009 -0.010 -0.009 -0.010
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.218 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109 0.107 -0.104 -0.109 -0.109 -0.109 -0.109 -0.109 -0.109 -0.109	0.993 0.055 -0.032 -0.032 -0.032 -0.032 -0.032 -0.025 -0.022 -0.021 -0.016 -0.014 -0.018 0.015 -0.009 -0.010 -0.010 -0.011 -0.010 -0.011 -0.010 -0.011 -0.010 -0.011 -0.011 -0.011
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109 0.107 -0.104 -0.109 -0.109 -0.1094 -0.0994 -0.0992	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 -0.025 -0.022 0.031 0.028 0.021 -0.016 -0.014 -0.014 -0.018 0.015 -0.015 -0.010 -0.010 -0.010 -0.011 -0.011
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.104 0.103 -0.109 -0.109 -0.090 -0.090	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 -0.025 -0.022 0.031 0.028 0.021 -0.016 -0.014 -0.014 -0.020 -0.015 -0.015 -0.015 -0.010 -0.010 -0.011 -0.011 -0.011
Property emissionRate SteadyState_AdvectiveTransfer	Hg0 All All All All All All All All All Al	Facility Link from Air, to Air	0.993 0.488 -0.346 -0.293 0.287 -0.277 -0.260 0.224 -0.194 0.193 0.177 0.176 -0.155 0.152 -0.141 -0.131 -0.124 -0.121 -0.115 0.109 0.107 -0.104 -0.109 -0.109 -0.1094 -0.0994 -0.0992	0.993 0.055 -0.039 -0.032 0.032 -0.030 -0.032 -0.025 -0.022 0.031 0.028 0.021 -0.016 -0.014 -0.014 -0.020 -0.015 -0.015 -0.015 -0.010 -0.010 -0.011 -0.011 -0.011 -0.011

Methyl Mercury in Air Compartment SSE3				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.618	0.331
AirTemperature_K	All	FullSS	-1.745	-0.002
emissionRate	Hg2	Facility	0.993	0.993
HenryLawConstant	MHg	MethylMercury	0.779	0.779
Kd	MHg	Surface water	-0.754	-0.754
DimensionlessViscousSublayerThickness	All	Surface water	-0.741	-0.222
horizontalWindSpeed	All	FullSS	0.735	0.735
MethylationRate	Hg2	Surface water	0.691	0.690
SedimentDepositionVelocity	All	Surface water	-0.606	-0.182
Rain	All	FullSS	0.571	0.070
VaporWashoutRatio	Hg2	Divalent Mercury	0.570	1.709
D_pureair	MHg	MethylMercury	0.521	0.026
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.512	0.057
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.448	-0.049
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.422	-0.051
Flushes_per_year	All	Surface water	-0.383	-0.115
DragCoefficient	All	Surface water	0.368	0.110
SuspendedSedimentconcentration	All	Surface water	-0.361	-0.108
ReductionRate	Hg2	Surface water	-0.324	-0.324
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.324	-0.034
ReductionRate	Hg2	Soil - Surface	-0.306	-0.306
rho	All	Soil - Surface	-0.304	-0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	0.030
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.266	-0.030
Fractionofareaavailableforerosion	All	Soil - Surface	0.248	0.074
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.248	0.074
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.221	-0.663
BiomassPerArea_kg_m2	All	Macrophyte	0.221	0.220
WaterColumnDissolvedPartitioning_PartitionCoefficient		Macrophyte	0.220	0.660
	Hg0 All		0.220	0.000
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.206	0.025
Divalent Mercury in Soil - Surface in SurfSoil_SSE4 Property	Chemical	Object Name	TT1 41 14	2
Topcity			I H locticity	Soncitivity Score
amission Pata		Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.995	0.995
Rain	Hg2 All	Facility FullSS	0.995 0.608	0.995 0.074
Rain VaporWashoutRatio	Hg2 All Hg2	Facility FullSS Divalent Mercury	0.995 0.608 0.607	0.995 0.074 1.822
Rain VaporWashoutRatio Fractionofareaavailableforerosion	Hg2 All Hg2 All	Facility FullSS Divalent Mercury Soil - Surface	0.995 0.608 0.607 -0.569	0.995 0.074 1.822 -0.171
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 All Hg2 All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface	0.995 0.608 0.607 -0.569 -0.569	0.995 0.074 1.822 -0.171 -0.171
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367	0.995 0.074 1.822 -0.171 -0.171 0.041
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate	Hg2 All Hg2 All All All Hg2	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.995 0.608 0.607 -0.569 -0.569 0.367	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho	Hg2 All Hg2 All All All All Hg2 All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	0.995 0.608 0.607 -0.569 -0.366 -0.366	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All Hg2 All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.366 -0.366 0.265 -0.227 0.223	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 0.025
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.366 -0.366 -0.265 -0.227 0.223 -0.193	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 0.025
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.025 -0.021
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.265 -0.227 0.223 -0.193 -0.187 -0.178	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.366 -0.366 -0.265 -0.227 0.223 -0.193 -0.178 -0.178	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.022
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.178 -0.178 -0.173	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.019
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.178 -0.167	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.019 -0.019
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.173 -0.167 -0.163 0.141	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.019 -0.019 -0.163 0.022
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.173 -0.167 -0.163 0.141 0.140	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.019 -0.163 0.022
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 -0.227 0.223 -0.193 -0.187 -0.173 -0.167 -0.163 0.141 0.140 0.134	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.022 0.019
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.167 -0.163 0.141 0.140 0.134 -0.129	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.019
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.163 0.141 0.140 0.134 -0.129 -0.120	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.015
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.167 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer WetDepInterceptionFraction_UserSupplied	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Sink Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.167 -0.163 0.141 0.140 0.134 -0.129 -0.1106 -0.1112 -0.109	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.034 -0.012
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116 -0.109 -0.108	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.034 -0.012 -0.012
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116 -0.108 0.105	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.014
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116 -0.112 -0.108 0.105 0.105	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.013 -0.012 -0.012 -0.012
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.366 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.163 0.141 0.140 0.134 -0.129 -0.120 -0.116 -0.108 0.105	0.995 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.013 -0.012 -0.012 -0.012

Property	Chemical	Object Name	Elasticity	Sensitivity Score
HenryLawConstant	Hg0	Elemental Mercury	-1.009	-1.009
Kd	Hg0	Soil - Surface	1.000	1.000
AirTemperature_K	All	FullSS	0.998	0.001
Fractionofareaavailableforverticaldiffusion	All	Soil - Surface	-0.962	-0.289
emissionRate	Hg2	Facility	0.906	0.906
Rain	All	FullSS	0.596	0.073
VaporWashoutRatio	Hg2	Divalent Mercury	0.553	1.659
Fractionofareaavailableforerosion	All	Soil - Surface	-0.518	-0.156
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.518	-0.156
ReductionRate	Hg2	Soil - Surface	0.509	0.508
rho	All	Soil - Surface	0.508	0.025
D_pureair	Hg0	Elemental Mercury	-0.484	-0.024
VaporDryDepositionVelocity_m_day	Hg0	Soil - Surface	-0.478	-0.143
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.370	0.041
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.264	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.230	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.221	0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.194	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.191	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.191	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.175	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.173	
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.159	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.141	
	All	Link from Air, to Air	-0.129	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air Link from Air, to Sink	-0.129	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.122	
SteadyState_AdvectiveTransfer	All	Leaf - Coniferous Forest		
WetDepInterceptionFraction_UserSupplied	All	Lear - Conferous Forest	-0.113	-0.034
Methyl Mercury in Soil - Surface in SurfSoil_SSE4				
Property	Chemical	Object Name	Flacticity	Sonsitivity Score
Property amission Pata	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.995	0.995
emissionRate DemethylationRate	Hg2 MHg	Facility Soil - Surface	0.995 -0.991	0.995 -0.990
emissionRate DemethylationRate MethylationRate	Hg2 MHg Hg2	Facility Soil - Surface Soil - Surface	0.995 -0.991 0.982	0.995 -0.990 0.981
emissionRate DemethylationRate MethylationRate Rain	Hg2 MHg Hg2 All	Facility Soil - Surface Soil - Surface FullSS	0.995 -0.991 0.982 0.608	0.995 -0.990 0.981 0.074
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio	Hg2 MHg Hg2 All Hg2	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury	0.995 -0.991 0.982 0.608 0.607	0.995 -0.990 0.981 0.074
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	Hg2 MHg Hg2 All Hg2 All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface	0.995 -0.991 0.982 0.608 0.607 -0.570	0.995 -0.990 0.981 0.074 1.822 -0.171
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 MHg Hg2 All Hg2 All All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface	0.995 -0.991 0.982 0.608 0.607 -0.570	0.995 -0.990 0.981 0.074 1.822 -0.171
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate	Hg2 MHg Hg2 All Hg2 All All All Hg2	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho	Hg2 MHg Hg2 All Hg2 All All All Hg2 All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All Hg2 All All All Hg1	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All Hg2 All All All Hg1	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All Hg2 All All All Hg1 All All All All All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 0.265 -0.227	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All Hg2 All All All All All All All All All	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 0.265 -0.227 0.223 -0.193	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 0.025
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.178	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 -0.227 0.223 -0.193 -0.178	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.002
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 -0.227 -0.193 -0.187 -0.178 -0.173 -0.167	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.021 -0.019
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.167 -0.163	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.019
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAit SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.173 -0.163 0.141	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.019
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.173 -0.163 0.141 0.14	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.021 -0.019 -0.163 0.022
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.173 -0.167 -0.163 0.141 0.134	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.022
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 -0.227 0.223 -0.193 -0.187 -0.173 -0.167 -0.163 0.141 0.134 -0.129	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.025 -0.025 -0.021 -0.021 -0.019 -0.019 -0.019 -0.019 -0.019
emissionRate DemethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 -0.227 0.223 -0.193 -0.187 -0.167 -0.163 0.141 0.134 -0.129 -0.120	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.019 -0.019 -0.015
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.167 -0.163 0.141 0.134 -0.129 -0.120 -0.116	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.019 -0.016 -0.019 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 -0.227 0.223 -0.193 -0.187 -0.167 -0.163 0.141 0.134 -0.129 -0.120	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.019 -0.016 -0.019 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187 -0.167 -0.163 0.141 0.134 -0.129 -0.120 -0.116	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013
emissionRate DemethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 -0.227 0.223 -0.193 -0.187 -0.163 -0.141 0.144 0.134 -0.129 -0.120 -0.112	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013
emissionRate DemethylationRate MethylationRate MethylationRate MethylationRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All Hg2 All All All All All All All All All Al	Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.995 -0.991 0.982 0.608 0.607 -0.570 -0.570 0.367 -0.366 -0.365 -0.227 0.223 -0.193 -0.187 -0.178 -0.163 0.141 0.134 -0.129 -0.1100	0.995 -0.990 0.981 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013 -0.013 -0.014

Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.997	0.997
Rain	All	FullSS	0.685	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	-0.167
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	-0.167
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042
rho	All	Soil - Surface	-0.380	-0.019
ReductionRate	Hg2	Soil - Surface	-0.380	-0.379
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	-0.036
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.082	0.009
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.078	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.073	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.064	-0.008
Kd	Hg2	Soil - Surface	0.061	0.061
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.058	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.048	-0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.047	
Elemental Mercury in Soil - Surface in SurfSoil_SW2	1 111	2 1.0 1, 10.1	0.017	0.002
Property	Chemical	Object Name	Elasticity	Sensitivity Score
HenryLawConstant	Hg0	Elemental Mercury	-1.009	
·			-1.009	-1.009
IKd	Hg0	•		
Kd AirTemperature K	Hg0 All	Soil - Surface	1.000	1.000
AirTemperature_K	All	Soil - Surface FullSS	1.000 0.998	1.000 0.001
AirTemperature_K Fractionofareaavailableforverticaldiffusion	All All	Soil - Surface FullSS Soil - Surface	1.000 0.998 -0.978	1.000 0.001 -0.293
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate	All All Hg2	Soil - Surface FullSS Soil - Surface Facility	1.000 0.998 -0.978 0.933	1.000 0.001 -0.293 0.933
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain	All All Hg2 All	Soil - Surface FullSS Soil - Surface Facility FullSS	1.000 0.998 -0.978 0.933 0.674	1.000 0.001 -0.293 0.933 0.082
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio	All All Hg2 All Hg2	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury	1.000 0.998 -0.978 0.933 0.674 0.641	1.000 0.001 -0.293 0.933 0.082 1.923
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	All All Hg2 All Hg2 All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface	1.000 0.998 -0.978 0.933 0.674 0.641	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All Hg2 All Hg2 All All All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All Hg2 All Hg2 All Hg2 All Hg2 All All All All Hg2 All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All Hg2	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 Hg2 All Hg0 Hg0	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Soil - Surface	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025 -0.146
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All Hg0 All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Limk from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025 -0.146 -0.042
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg0 Hg0 All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.384 -0.321	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg0 Hg0 All All All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 0.513 0.512 -0.492 -0.384 -0.321	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 -0.520 -0.520 0.513 0.512 -0.492 -0.384 -0.321 0.256	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All All All All All All All	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.384 -0.321 0.256 0.169 -0.160 -0.142	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.042 -0.037 0.036 0.019 -0.017
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All Hg0 Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.106	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016 -0.016
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg0 Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.106 0.095	1.000 0.001 -0.293 0.933 0.982 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016 -0.012
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg0 Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.106 0.095 0.087	1.000 0.001 -0.293 0.933 0.982 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016 -0.012 0.013
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.106 0.095 0.087	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.016 -0.012 0.013 0.026 0.012
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.095 0.087 0.086	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016 -0.012 0.013 0.026 0.012
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.085 0.085	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.017 -0.016 -0.012 0.013 0.026 0.012
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.095 0.087 0.085 0.085	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.016 -0.012 0.013 0.026 0.012 -0.010 0.010 0.010
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.095 0.087 0.085 0.083 -0.078	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.016 -0.012 0.013 0.026 0.012 -0.010 0.010 0.010 0.009 -0.01
AirTemperature_K Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All All All All All All All All All Al	Soil - Surface FullSS Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	1.000 0.998 -0.978 0.933 0.674 0.641 -0.520 -0.520 0.513 0.512 -0.492 -0.486 -0.384 -0.321 0.256 0.169 -0.160 -0.142 -0.136 -0.095 0.087 0.085 0.085	1.000 0.001 -0.293 0.933 0.082 1.923 -0.156 0.512 0.026 -0.025 -0.146 -0.042 -0.037 0.036 0.019 -0.016 -0.012 0.013 0.026 0.012 -0.010 0.010 0.009 -0.010

Methyl Mercury in Soil - Surface in SurfSoil_SW2				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.997	0.997
DemethylationRate	MHg	Soil - Surface	-0.992	-0.991
MethylationRate	Hg2	Soil - Surface	0.983	0.982
Rain	All	FullSS	0.685	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	-0.167
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	-0.167
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042
ReductionRate	Hg2	Soil - Surface	-0.380	-0.379
rho	All	Soil - Surface	-0.379	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015
SteadyState AdvectiveTransfer SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.093	0.028
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	-0.009
• =		Link from Air, to Air		
SteadyState_AdvectiveTransfer	All		0.082	0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.078	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.073	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.064	-0.008
Kd	Hg2	Soil - Surface	0.061	0.061
SteadyState_AdvectiveTransfer		from Air, to Air	0.058	0.005
		· · · · · · · · · · · · · · · · · · ·		
Divalent Mercury in Worm in RootSoil_SSE4	Chamical	Object Name	Electicity	Consistinity Coope
Property	Chemical	Object Name		Sensitivity Score
Property Water_content	All	Worm	-5.250	-5.245
Property Water_content ReductionRate	All Hg2	Worm Soil - Root Zone	-5.250 -1.009	-5.245 -1.008
Property Water_content ReductionRate rho	All Hg2 All	Worm Soil - Root Zone Soil - Root Zone	-5.250 -1.009 -1.009	-5.245 -1.008 -0.050
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight	All Hg2 All Hg2	Worm Soil - Root Zone Soil - Root Zone Worm	-5.250 -1.009 -1.009 1.000	-5.245 -1.008 -0.050 3.000
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate	All Hg2 All Hg2 Hg2	Worm Soil - Root Zone Soil - Root Zone Worm Facility	-5.250 -1.009 -1.009 1.000 0.995	-5.245 -1.008 -0.050 3.000 0.995
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity	All Hg2 All Hg2 Hg2 All Hg2 All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956	-5.245 -1.008 -0.050 3.000 0.995 0.287
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd	All Hg2 All Hg2 Hg2 All Hg2 All Hg2	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.000 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate	All Hg2 All Hg2 Hg2 All Hg2	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho	All Hg2 All Hg2 Hg2 All All All All Hg2 All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 0.367 -0.366	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 0.367 -0.366 -0.366	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.367 -0.366 -0.366 0.265 -0.227	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All	Worm Soil - Root Zone Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 0.265 -0.227	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	-5.250 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 -0.366 -0.366 -0.265 -0.227	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 0.025
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.009 -1.009 -1.009 -1.009 -0.956 -0.822 -0.608 -0.569 -0.569 -0.366 -0.366 -0.366 -0.227 -0.223 -0.193 -0.187	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 0.223 -0.193 -0.178	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.022
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 -0.227 -0.223 -0.193 -0.187 -0.178	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.022
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.223 -0.193 -0.187 -0.178 -0.173	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.019
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 -0.227 -0.223 -0.193 -0.187 -0.178	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.020 -0.019
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.223 -0.193 -0.187 -0.178 -0.173	-5.24\$ -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.025 -0.022 -0.021 -0.020 -0.019
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 -0.223 -0.193 -0.187 -0.178 -0.167 -0.163	-5.24\$ -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.025 -0.022 -0.021 -0.020 -0.019 -0.016
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	All Hg2 All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 0.223 -0.193 -0.187 -0.178 -0.167 -0.163 0.141	-5.24\$ -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.025 -0.022 -0.021 -0.020 -0.019 -0.163 0.022
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 -0.366 -0.366 -0.366 -0.227 -0.227 -0.193 -0.187 -0.178 -0.167 -0.163 0.141 0.140	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 -0.366 -0.366 -0.366 -0.227 -0.227 -0.173 -0.178 -0.173 -0.167 -0.163 0.141 0.140 0.134	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.0163 0.022 0.019
Property Water_content ReductionRate rho WormSoilPartitionCoefficient_dryweight emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	All Hg2 All All All All All All All All All Al	Worm Soil - Root Zone Worm Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	-5.250 -1.009 -1.009 -1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.366 -0.366 -0.366 -0.227 0.223 -0.193 -0.173 -0.167 -0.163 0.141 0.140 0.134 -0.129	-5.245 -1.008 -0.050 3.000 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018 0.029 -0.025 -0.021 -0.020 -0.019 -0.019 -0.163 0.022 0.019 -0.015 -0.011

Elemental Mercury in Worm in RootSoil_SSE4				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Water_content	All	Worm	-5.250	-5.245
HenryLawConstant	Hg0	Elemental Mercury	-1.011	-1.011
WormSoilPartitionCoefficient_dryweight	Hg0	Worm	1.000	3.000
Kd	Hg0	Soil - Root Zone	1.000	1.000
AirTemperature_K	All	FullSS	0.999	0.001
emissionRate	Hg2	Facility	0.927	0.927
Fractionofareaavailableforverticaldiffusion	All	Soil - Surface	-0.732	-0.219
D_pureair	Hg0	Elemental Mercury	-0.611	
Rain	All	FullSS	0.599	
VaporWashoutRatio	Hg2	Divalent Mercury	0.566	
Fractionofareaavailableforerosion	All	Soil - Surface	-0.531	
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.531	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.369	
VaporDryDepositionVelocity_m_day	Hg0	Comp	-0.364	
ReductionRate	Hg2	Comp	0.299	
rho	All	Soil - Surface	0.299	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.264	
Average Vertical Velocity	All	Soil - Surface	0.264	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.230	
·	All	Link from Air, to Air Link from Air, to Air	0.230	0.025
SteadyState_AdvectiveTransfer		Soil - Surface		
Kd	Hg2	Soil - Surface Link from Air, to Air	-0.203	
SteadyState_AdvectiveTransfer	All	, , , ,	-0.193	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.190	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.180	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.174	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.169	
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.160	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.142	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.141	
SteadyState_AdvectiveTransfer	All	Link fuom Aim to Aim	0.125	0.010
	All	Link from Air, to Air	0.135	0.019
Methyl Mercury in Worm in RootSoil_SSE4				
Methyl Mercury in Worm in RootSoil_SSE4 Property	Chemical	Object Name	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content	Chemical All	Object Name Worm	Elasticity -5.250	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate	Chemical All MHg	Object Name Worm Soil - Root Zone	Elasticity -5.250 -1.010	Sensitivity Score -5.245 -1.009
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate	Chemical All MHg Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone	Elasticity -5.250 -1.010 -1.009	Sensitivity Score -5.245 -1.009 -1.008
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho	Chemical All MHg Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone	Elasticity -5.250 -1.010 -1.009 -1.009	Sensitivity Score -5.245 -1.009 -1.008 -0.050
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight	Chemical All MHg Hg2 All MHg	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm	Elasticity -5.250 -1.010 -1.009 -1.009	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate	Chemical All MHg Hg2 All MHg HHg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone	Elasticity -5.250 -1.010 -1.009 -1.009 1.000	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate	Chemical All MHg Hg2 All MHg Hg2 All MHg Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Facility	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd	Chemical All MHg Hg2 All MHg Hg2 All Hg2 Hg2 Hg2 Hg2 All Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain	Chemical All MHg Hg2 All MHg Hg2 All Hg2 Hg2 All Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd	Chemical All MHg Hg2 All MHg Hg2 All Hg2 Hg2 Hg2 Hg2 All Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain	Chemical All MHg Hg2 All MHg Hg2 All Hg2 Hg2 All Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion	Chemical All MHg Hg2 All MHg2 Hg2 All Hg2 All Hg2 All Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	Elasticity -5.250 -1.010 -1.009 -1.000 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 0.367	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer ReductionRate	Chemical All MHg Hg2 All MHg Hg2 All Hg2	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 0.367 -0.366	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer ReductionRate rho	Chemical All MHg Hg2 All MHg Hg2 All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	-5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 0.367 -0.366 -0.366	Sensitivity Score -5.245 -1.009 -1.008 -0.050 3.000 0.999 0.995 0.287 -0.822 0.074 1.822 -0.171 -0.171 0.041 -0.365 -0.018
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	-5.250 -1.010 -1.009 -1.009 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -0.995 -0.822 -0.608 -0.608 -0.569 -0.569 -0.366 -0.366 -0.366 -0.265 -0.227	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate AverageVerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 -0.366 -0.366 -0.366 -0.227 0.223 -0.193 -0.187	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity -5.250 -1.010 -1.009 -1.009 1.000 1.000 0.995 0.956 -0.822 0.608 0.607 -0.569 -0.569 0.367 -0.366 -0.265 -0.227 0.223 -0.193 -0.187 -0.178	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air	Elasticity	Sensitivity Score
Methyl Mercury in Worm in RootSoil_SSE4 Property Water_content DemethylationRate ReductionRate rho WormSoilPartitionCoefficient_dryweight MethylationRate emissionRate Average VerticalVelocity Kd Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Chemical All MHg Hg2 All MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All All All All All All All Al	Object Name Worm Soil - Root Zone Soil - Root Zone Soil - Root Zone Worm Soil - Root Zone Worm Soil - Root Zone Facility Soil - Surface Soil - Surface FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score

Divalent Mercury in Worm in RootSoil_SW2				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Water_content	All	Worm	-5.250	-5.245
WormSoilPartitionCoefficient_dryweight	Hg2	Worm	1.000	3.000
emissionRate	Hg2	Facility	0.997	0.997
ReductionRate	Hg2	Soil - Root Zone	-0.976	-0.975
rho	All	Soil - Root Zone	-0.976	-0.049
AverageVerticalVelocity	All	Soil - Surface	0.956	0.287
Kd	Hg2	Soil - Surface	-0.823	-0.823
Rain	All	FullSS	0.685	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	-0.167
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	-0.167
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042
ReductionRate	Hg2	Soil - Surface	-0.380	-0.379
rho	All	Soil - Surface	-0.380	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	-0.036
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.033
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.138	-0.017
• -	All	· · · · · · · · · · · · · · · · · · ·	-0.139	
SteadyState_AdvectiveTransfer Kd	MHg	Link from Air, to Air Soil - Surface	-0.132	-0.015 -0.118
	_	Soil - Surface		
DemethylationRate	MHg		-0.108	-0.108
MethylationRate	Hg2	Soil - Surface	0.107	0.107
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.010
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.082	0.009
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2	All	Link from Air, to Air	0.082	0.009
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property	All Chemical	Link from Air, to Air Object Name	0.082 Elasticity	0.009 Sensitivity Score
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content	All Chemical All	Link from Air, to Air Object Name Worm	0.082 Elasticity -5.250	0.009 Sensitivity Score -5.245
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant	Chemical All Hg0	Link from Air, to Air Object Name Worm Elemental Mercury	0.082 Elasticity -5.250 -1.011	0.009 Sensitivity Score -5.245 -1.011
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight	Chemical All Hg0 Hg0	Chink from Air, to Air Object Name Worm Elemental Mercury Worm	0.082 Elasticity -5.250 -1.011 1.000	0.009 Sensitivity Score -5.245 -1.011 3.000
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd	Chemical All Hg0 Hg0 Hg0	Usink from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone	0.082 Elasticity -5.250 -1.011 1.000 1.000	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K	Chemical All Hg0 Hg0 Hg0 All	Using From Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate	Chemical All Hg0 Hg0 Hg0 All Hg2	Using From Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion	Chemical All Hg0 Hg0 All Hg0 All Hg0 All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain	Chemical All Hg0 Hg0 All Hg0 All Hg2 All All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio	Chemical All Hg0 Hg0 Hg0 All Hg2 All Hg2 All Hg2	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair	Chemical All Hg0 Hg0 All Hg0 All Hg2 All All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion	All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Chemical All Hg0 Hg0 Hg0 All Hg2 All Hg2 Hg0 Hg0 Hg2 Hg0 Hg0 Hg2 Hg0	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion	All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	All Chemical All Hg0 Hg0 All Hg2 All Hg2 Hg0 All Hg2 Hg0 All All All All All Hg0 All All Hg0 Hg0 All All Hg0 Hg0 All Hg0 Hg0 All Hg0 Hg0	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.384 -0.370	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111 -0.037
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All Chemical All Hg0 Hg0 Hg0 All Hg2 All Hg2 Hg0 All Hg0 All All Hg0 Hg0	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111 -0.037
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate	All Chemical All Hg0 Hg0 Hg0 All Hg2 All Hg2 Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 Hg0 All Hg2 Hg0 All Hg2 Hg0 All Hg2	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho	Chemical All Hg0 Hg0 Hg0 All Hg2 All Hg0 All Hg2	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299 0.299	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.384 -0.370 -0.318 0.299 0.291	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111 -0.037 0.299 0.015
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.384 -0.370 -0.318 0.299 0.299 0.261 0.254	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd	All Chemical All Hg0 Hg0 All Hg2 All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All Hg2 All Hg2 All All Hg2 All All All Hg2 All All Hg2 All All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.384 -0.370 -0.318 0.299 0.299 0.261 0.254 -0.201	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	All Chemical All Hg0 Hg0 Hg0 All Hg2 All All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All Hg2 All Hg2 All Hg0	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.384 -0.370 -0.318 0.299 0.299 0.261 0.254 -0.201 0.169	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All Hg0 Hg0 All Hg2 All All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All Hg2 All Hg2 All	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299 0.299 0.261 0.254 -0.201 0.169 -0.160	0.009 Sensitivity Score -5.245 -1.011 3.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019 -0.017
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299 0.299 0.261 0.254 -0.201 0.169 -0.160 -0.141	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019 -0.016
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299 0.261 0.254 -0.201 0.169 -0.160 -0.141 -0.135	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019 -0.016 -0.016
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Soil - Surface Link from Air, to Air	0.082 Elasticity -5.250 -1.011 1.000 1.000 0.999 0.948 -0.744 0.677 0.652 -0.617 -0.529 -0.529 -0.384 -0.370 -0.318 0.299 0.261 0.254 -0.201 0.169 -0.160 -0.141 -0.135 0.125	0.009 Sensitivity Score -5.245 -1.011 3.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.042 -0.111 -0.037 0.299 0.015 -0.019 -0.019 -0.019 -0.010 -0.016 -0.016 -0.016 -0.016 -0.016
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer InputCharacteristicDepth_m SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air Link from Air, to Air	0.082 Elasticity	Sensitivity Score
SteadyState_AdvectiveTransfer Elemental Mercury in Worm in RootSoil_SW2 Property Water_content HenryLawConstant WormSoilPartitionCoefficient_dryweight Kd AirTemperature_K emissionRate Fractionofareaavailableforverticaldiffusion Rain VaporWashoutRatio D_pureair Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer ReductionRate rho AverageVerticalVelocity SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer InputCharacteristicDepth_m SteadyState_AdvectiveTransfer	Chemical	Link from Air, to Air Object Name Worm Elemental Mercury Worm Soil - Root Zone FullSS Facility Soil - Surface FullSS Divalent Mercury Elemental Mercury Soil - Surface Link from Air, to Air Link from Air, to Air	0.082 Elasticity	0.009 Sensitivity Score -5.245 -1.011 3.000 1.000 0.001 0.948 -0.223 0.083 1.955 -0.031 -0.159 -0.159 -0.042 -0.111 -0.037 0.299 0.015 0.078 0.036 -0.201 0.019

Methyl Mercury in Worm in RootSoil_SW2				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Water_content	All	Worm	-5.250	-5.245
DemethylationRate	MHg	Soil - Root Zone	-1.008	-1.007
WormSoilPartitionCoefficient_dryweight	MHg	Worm	1.000	3.000
MethylationRate	Hg2	Soil - Root Zone	0.998	0.997
emissionRate	Hg2	Facility	0.997	0.997
rho	All	Soil - Root Zone	-0.976	-0.049
ReductionRate	Hg2	Soil - Root Zone	-0.976	-0.975
AverageVerticalVelocity	All	Soil - Surface	0.956	0.287
Kd	Hg2	Soil - Surface	-0.822	-0.822
Rain	All	FullSS	0.685	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	-0.167
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	-0.167
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042
ReductionRate	Hg2	Soil - Surface	-0.380	-0.379
rho	All	Soil - Surface	-0.380	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	-0.036
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015
Kd	MHg	Soil - Surface	-0.118	-0.118
DemethylationRate	MHg	Soil - Surface	-0.109	-0.108
MethylationRate	Hg2	Soil - Surface	0.108	0.107
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012
SteadyState_AdvectiveTransfer	All	T:-1- f A:- 4- A:-	0.004	0.016
	All	Link from Air, to Air	0.084	0.010
<u> </u>	i		0.084	0.010
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property	i		Elasticity	Sensitivity Score
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property	s Forest in SurfSoil_S	SE4		Sensitivity Score
Divalent Mercury in Leaf - Coniferous Forest in Coniferous	s Forest in SurfSoil_SS Chemical	Object Name	Elasticity	Sensitivity Score
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir	S Forest in SurfSoil_SS Chemical All	Object Name Leaf - Coniferous Forest	Elasticity	Sensitivity Score 1.009 0.994
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea	s Forest in SurfSoil_SS Chemical All Hg2	Object Name Leaf - Coniferous Forest Facility	Elasticity 1.010 0.994	Sensitivity Score 1.009 0.994 -0.819
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate	s Forest in SurfSoil_SS Chemical All Hg2 All	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819	Sensitivity Score 1.009 0.992 -0.819 0.209
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied	s Forest in SurfSoil_SS Chemical All Hg2 All All All	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819 0.696	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.326
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent	s Forest in SurfSoil_SS Chemical All Hg2 All All All All All	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819 0.696 -0.651	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.326 0.060
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate	s Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534	Sensitivity Score 1.005 0.994 -0.815 0.205 -0.326 0.066 -0.506
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer	s Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All All All Al	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.496	Sensitivity Score 1.009 0.992 -0.819 0.209 -0.326 0.060 -0.506 -0.495
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All Hg1 All All All Hg2	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.326 0.066 -0.506 -0.499
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All All All Al	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.496 -0.478	Sensitivity Score 1.009 0.992 -0.819 0.209 -0.326 0.066 -0.506 -0.495 -1.434 0.047
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All Hg1 All All All Hg2	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354	Sensitivity Score 1.005 0.994 -0.815 0.205 -0.326 0.066 -0.506 -0.495 -1.434 0.047
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All All Hg2 All All All All All All All All All Al	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.354 0.3	Sensitivity Score 1.005 0.994 -0.815 0.209 -0.326 -0.506 -0.495 -1.434 0.047 1.062 0.043
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All Hg2 All All All All All All All All All Al	Diject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.060 -0.500 -0.499 -1.434 0.047 1.062 0.043
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	S Forest in SurfSoil_SS Chemical All Hg2 All All All All All All All All Hg2 All All All All All All All All All Al	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.354 -0.354	Sensitivity Score 1.009 0.992 -0.819 0.209 -0.326 0.060 -0.506 -0.495 -1.432 0.047 1.062 0.043
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Section SurfSoil_State Chemical All Hg2 All All All All All Hg2 Hg3 Hg	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.354 -0.352 0.273	Sensitivity Score 1.009 0.992 -0.819 0.209 -0.326 0.060 -0.506 -0.495 -1.432 0.047 1.062 -0.039 0.082
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Section SurfSoil_SS	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.354 -0.352 0.273 0.261 -0.257	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.060 -0.500 -0.499 1.062 0.042 -0.039 0.082 0.082
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Section SurfSoil_SS	Diject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.352 0.273 0.261 -0.257 0.216 -0.257 0.216	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.060 -0.500 -0.499 -1.432 0.044 1.066 0.043 -0.039 0.082 -0.039 0.029
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Section SurfSoil_SS	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.354 -0.352 0.273 0.261 -0.257	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.060 -0.500 -0.499 -1.434 0.044 1.062 0.043 -0.039 0.082 -0.039 0.002 -0.031
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Section SurfSoil_SS	Diject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.060 -0.500 -0.499 -1.432 0.047 1.060 0.043 -0.039 0.082 -0.039 -0.022 -0.022
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Section SurfSoil_SS	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity 1.010 0.994 -0.819 0.696 -0.651 0.534 -0.506 -0.478 0.416 0.354 -0.352 0.273 0.261 -0.257 0.216 -0.215 -0.214 -0.202	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 -0.320 -0.500 -0.499 -1.434 0.044 1.066 0.044 -0.039 0.089 0.089 -0.039 -0.030 -0.020 -0.021 -0.021 -0.022
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Section SurfSoil_SS Chemical All Hg2 All All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 -0.819 -0.819 -0.820 -0.320 -0.500 -0.499 -1.432 -0.041 -0.031 -0.032 -0.032 -0.032 -0.032 -0.032 -0.032 -0.032 -0.022 -0.022
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS Chemical All Hg2 All All All Hg2 All All	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 -0.819 -0.819 -0.820 -0.320 -0.500 -0.499 -1.434 -0.047 -0.039 -0.039 -0.039 -0.020 -0.021 -0.022 -0.022 -0.022 -0.022
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS Chemical All Hg2 All All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.066 -0.500 -0.499 -1.430 0.044 1.066 0.044 -0.030 0.080 -0.092 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002
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Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS	Object Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 1.099 -0.819 0.209 -0.320 0.066 -0.500 -0.499 -1.434 0.047 1.066 0.048 -0.039 0.088 0.029 -0.03 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 1.099 1.0819 1.0209 1.0320 1.0320 1.0499 1.1434 1.066 1.0499 1.066 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.06
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS Chemical All All	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 0.994 -0.819 0.209 -0.320 0.066 -0.500 -0.499 -1.434 0.047 1.062 0.048 -0.039 0.082 -0.029 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021 -0.021
Divalent Mercury in Leaf - Coniferous Forest in Coniferous Property AllowExchange_SteadyState_forAir emissionRate WetMassperArea WetDepInterceptionFraction_UserSupplied WaterContent SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	S Forest in SurfSoil_SS	Dbject Name Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score 1.009 1.099 1.0819 1.0209 1.0320 1.0320 1.0499 1.1434 1.062 1.0499 1.0639 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629 1.0629

	st in SurfSoil_S	SSE4		
Property	Chemical	Object Name	Elasticity	Sensitivity Score
AllowExchange_SteadyState_forOther	All	Leaf - Coniferous Forest	-1.010	-1.009
WetDensity	All	Leaf - Coniferous Forest	-1.010	-1.010
isDay_SteadyState_forOther	All	FullSS	-1.010	-1.009
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	1.000	0.999
AverageLeafAreaIndex_No_Time_Dependence	All	Leaf - Coniferous Forest	0.994	
isDay_SteadyState_forAir	All	FullSS	0.994	
emissionRate	Hg0	Facility	0.992	
HenryLawConstant	Hg0	Elemental Mercury	-0.950	
AirTemperature_K	All	FullSS	0.940	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.515	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.403	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.385	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.262	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.246	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.244	
SteadyState_AdvectiveTransfer SteadyState AdvectiveTransfer	All	,	-0.244	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air Link from Air, to Air	-0.238	
	_	· · · · · · · · · · · · · · · · · · ·		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.214	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.214	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.199	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.188	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.174	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.162	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.159	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.157	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.153	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.153	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.148	0.024
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.147	-0.014
Methyl Mercury in Leaf - Coniferous Forest in Coniferous Forest in	n CunfCail CCL	1.4		
Michigan Mercury in Lear - Connerous Forest in Connerous Forest in	11 2011 2011 221			
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Property rho			Elasticity 7.707	•
Property	Chemical	Object Name		0.385
Property rho	Chemical All	Object Name Surface water Leaf - Coniferous Forest FullSS	7.707	0.385 -1.005
Property rho AllowExchange_SteadyState_forOther	Chemical All All	Object Name Surface water Leaf - Coniferous Forest	7.707 -1.006	0.385 -1.005 0.997
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir	Chemical All All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility	7.707 -1.006 0.998	0.385 -1.005 0.997 0.993 0.992
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence	Chemical All All All All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest	7.707 -1.006 0.998 0.993	0.385 -1.005 0.997 0.993 0.992 -0.949
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir	Chemical All All All All Hg2	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility	7.707 -1.006 0.998 0.993 0.992	0.385 -1.005 0.997 0.993 0.992 -0.949
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity	Chemical All All All All Hg2 All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest	7.707 -1.006 0.998 0.993 0.992 -0.949	0.385 -1.005 0.997 0.993 0.992 -0.949
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir	Chemical All All All All Hg2 All All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest	7.707 -1.006 0.998 0.993 0.992 -0.949	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther	Chemical All All All Hg2 All All All All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K	Chemical All All All Hg2 All All All All All All All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd	Chemical All All All Hg2 All All All All All MHg	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate	Chemical All All All Hg2 All All All All Hg1 Hg2 Hg2 Hg1 Hg2 Hg2	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728	0.385 -1.005 0.997 0.993 0.992 -0.945 0.941 -0.001 -0.755 0.727 -0.207
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness	Chemical All All All Hg2 All All All All Hg1 All All All All All All All All All Al	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691	0.385 -1.005 0.997 0.993 0.992 -0.945 0.947 -0.001 -0.755 0.727 -0.207 0.687
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water Multiplication of the property of t	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water Surface water FullSS Surface water	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569	0.385 -1.005 0.997 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water FullSS Surface water FullSS Divalent Mercury	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain	Chemical All All All All Hg2 All All All All All All All All All MHg Hg2 All All All Hg2 All All All Hg2	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All All	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate	Chemical All All All All All All All All All A	Object Name Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water FullSS Surface water FullSS Divalent Mercury Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 0.427 -0.405	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K	Chemical All All All All All All All All All A	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water FullSS Divalent Mercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air Surface water Surface water	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 -0.405 -0.391	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054 0.048 -0.405
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer	Chemical All All All All All All All All All A	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 -0.405 -0.391 -0.368	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.0667 1.647 -0.054 0.048 -0.405 -0.391
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All All All All All All All All All A	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 0.427 -0.405 -0.368 -0.364	0.385 -1.005 0.997 0.993 0.992 -0.945 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.182 0.062 0.065 -0.1647 -0.054 -0.040
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All All	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Surface water Surface water Link from Air, to Air Link from Air, to Air Surface water Surface water Surface water Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 -0.405 -0.391 -0.368 -0.364 0.344	0.385 -1.005 0.997 0.992 0.992 -0.945 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.182 0.062 0.065 -0.184 -0.054 -0.054 -0.054 -0.054 -0.040 -0.040
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical All All	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 -0.427 -0.405 -0.391 -0.368 -0.364 0.344 -0.318	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054 -0.046 -0.040 -0.040 -0.040 -0.040 -0.044 -0.044
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer	Chemical All All	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Surface water Surface water Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.405 -0.391 -0.368 -0.364 0.344 -0.318 -0.307	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054 0.048 -0.405 -0.391 -0.044 0.103
Property rho AllowExchange_SteadyState_forOther isDay_SteadyState_forAir AverageLeafAreaIndex_No_Time_Dependence emissionRate WetDensity AllowExchange_SteadyState_forAir isDay_SteadyState_forOther AirTemperature_K Kd MethylationRate DimensionlessViscousSublayerThickness horizontalWindSpeed SedimentDepositionVelocity D_pureair SteadyState_AdvectiveTransfer Rain VaporWashoutRatio SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient SteadyState_AdvectiveTransfer	Chemical All All	Surface water Leaf - Coniferous Forest FullSS Leaf - Coniferous Forest Facility Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest FullSS FullSS Surface water Surface water Surface water FullSS Surface water MethylMercury Link from Air, to Air FullSS Divalent Mercury Link from Air, to Air Link from Air, to Air Surface water Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	7.707 -1.006 0.998 0.993 0.992 -0.949 0.948 -0.942 -0.800 -0.755 0.728 -0.691 0.687 -0.614 0.588 0.569 0.551 0.549 -0.487 -0.427 -0.405 -0.391 -0.368 -0.364 0.344 -0.318	0.385 -1.005 0.997 0.993 0.992 -0.949 0.947 -0.941 -0.001 -0.755 0.727 -0.207 0.687 -0.184 0.029 0.064 0.067 1.647 -0.054 0.048 -0.405 -0.391 -0.040 -0.044 0.103 -0.035 -0.037 0.037

in SurfSoil_SW2			
Chemical	Object Name	Elasticity	Sensitivity Score
Hg2	Facility	0.997	0.997
All	Leaf - Grasses/Herbs	0.987	0.986
All	Leaf - Grasses/Herbs	-0.950	-0.073
All	Leaf - Grasses/Herbs	-0.866	-0.866
All	Leaf - Grasses/Herbs	0.827	0.248
All	FullSS	0.638	0.078
Hg2	Divalent Mercury	0.638	1.915
All	Leaf - Grasses/Herbs	-0.532	-0.266
All	Link from Air, to Air	-0.486	-0.056
All	Link from Air, to Air	0.389	0.055
All	Link from Air, to Air	-0.314	-0.034
All	Link from Air, to Air	-0.283	-0.032
All	·		0.028
			-0.024
	· ·		0.042
			0.134
			0.019
			-0.019
	·		0.013
	· ·		-0.013
	·		0.011
	· ·		-0.010
	·		0.011
	· ·		-0.010
	·		0.008
	-		-0.008
			-0.008
			-0.008
	Link from Air, to Air	-0.062	-0.010
	Tour and		
			Sensitivity Score
			0.999
ū			0.995
			0.991
		0.991	
Hg0	Elemental Mercury		
		-0.949	-0.949
All	FullSS	-0.949 0.940	-0.949 0.001
All All	FullSS Link from Air, to Air		
	FullSS	0.940	0.001
All	FullSS Link from Air, to Air	0.940 -0.525	0.001 -0.061 0.059
All All	FullSS Link from Air, to Air Link from Air, to Air	0.940 -0.525 0.412	0.001 -0.061 0.059 -0.042
All All All	FullSS Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.940 -0.525 0.412 -0.382	0.001 -0.061 0.059 -0.042 -0.034
All All All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307	0.001 -0.061 0.059 -0.042 -0.034 0.025
All All All All All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024
All All All All All All All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024
All All All All All All All All All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023
All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023 -0.017
All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023 -0.017
All	FullSS Link from Air, to Air Link from Air, to Sink Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023 -0.017 0.019 -0.014
AII	FullSS Link from Air, to Air Link from Air, to Sink Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023 -0.017 0.019
AII	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.100	0.001 -0.061 -0.061 -0.059 -0.042 -0.034 -0.025 -0.024 -0.023 -0.017 -0.019 -0.014 -0.012 -0.011 -0.011
AII	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.100 0.097	0.001 -0.061 -0.061 -0.059 -0.042 -0.034 -0.025 -0.024 -0.023 -0.017 -0.019 -0.014 -0.012 0.011 0.011
AII	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.100 0.097 0.090 0.088	0.001 -0.061 -0.061 -0.059 -0.042 -0.034 -0.025 -0.024 -0.017 -0.019 -0.014 -0.012 -0.011 -0.011 -0.013 -0.013 -0.026
All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.100 0.097 0.090 0.088 -0.083	0.001 -0.061 0.059 -0.042 -0.034 0.025 -0.024 0.023 -0.017 0.019 -0.014 -0.012 0.011 0.013 0.265 -0.009
All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.097 0.090 0.088 -0.083 -0.080	0.001 -0.061 -0.061 -0.059 -0.042 -0.034 -0.025 -0.024 -0.017 -0.019 -0.014 -0.012 -0.011 -0.011 -0.013 -0.265 -0.009 -0.009
All	FullSS Link from Air, to Air Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.100 0.097 0.090 0.088 -0.083 -0.080 0.075	0.001 -0.061 -0.062 -0.042 -0.034 -0.025 -0.024 -0.017 -0.019 -0.014 -0.012 -0.011 -0.011 -0.013 -0.013 -0.0265 -0.009 -0.008
All	FullSS Link from Air, to Air	0.940 -0.525 0.412 -0.382 -0.307 0.230 -0.208 0.190 -0.155 0.131 -0.114 -0.105 0.097 0.090 0.088 -0.083 -0.080	0.001 -0.061 -0.062 -0.042 -0.034 -0.025 -0.024 -0.017 -0.019 -0.014 -0.012 -0.011 -0.011 -0.013 -0.026 -0.009 -0.008 -0.009
	Hg2 All All All All All All All All All Al	Hg2 Facility All Leaf - Grasses/Herbs All FullSS Hg2 Divalent Mercury All Leaf - Grasses/Herbs All Link from Air, to Air	Hg2

Methyl Mercury in Leaf - Grasses/Herbs in Grasses/Herbs in	n SurfSoil_SW2			
Property	Chemical	Object Name	Elasticity	Sensitivity Score
DemethylationRate	MHg	Soil - Root Zone	-0.998	-0.997
Kd	MHg	Soil - Root Zone	-0.998	-0.998
emissionRate	Hg2	Facility	0.997	0.997
TSCF	MHg	Stem - Grasses/Herbs	0.988	2.965
AllowExchange_SteadyState_forOther	All	Leaf - Grasses/Herbs	-0.988	
MethylationRate	Hg2	Soil - Root Zone	0.988	
WetDensity	All	Leaf - Grasses/Herbs	-0.970	
rho	All	Soil - Root Zone	-0.967	
ReductionRate	Hg2	Soil - Root Zone	-0.967	
AverageLeafAreaIndex_No_Time_Dependence	All	Leaf - Grasses/Herbs	0.963	0.963
isDay_SteadyState_forOther	All	FullSS	-0.963	-0.962
FlowRateofTranspiredWaterperAreaofLeafSurface	All	Stem - Grasses/Herbs	0.963	
	All	Stem - Grasses/Herbs	0.939	
AllowExchange_SteadyState_forOther				
HenryLawConstant	MHg	MethylMercury	-0.951	-0.951
AverageVerticalVelocity	All	Soil - Surface	0.946	
D_pureair	MHg	MethylMercury	-0.941	-0.047
AirTemperature_K	All	FullSS	0.931	0.001
DegreeStomatalOpening	All	Leaf - Grasses/Herbs	-0.871	-0.870
StomatalAreaNormalizedEffectiveDiffusion	All	Leaf - Grasses/Herbs	-0.871	-0.871
Kd	Hg2	Soil - Surface	-0.814	-0.814
Rain	All	FullSS	0.684	0.083
VaporWashoutRatio	Hg2	Divalent Mercury	0.684	2.052
Fractionofareaavailableforerosion	All	Soil - Surface	-0.548	-0.164
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.548	-0.164
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042
ReductionRate	Hg2	Soil - Surface	-0.379	-0.379
rho	All	Soil - Surface	-0.379	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.313	-0.036
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.248	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	
Divalent Mercury in Sediment in River	7 111	Elik Holii Fili, to Fili	0.100	0.010
Property Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.209	
Flushes per year	Δ11			
Flushes_per_year	All	Surface water	-1.008	-0.302
emissionRate	Hg2	Surface water Facility	-1.008 0.995	-0.302 0.995
emissionRate Rain	Hg2 All	Surface water Facility FullSS	-1.008 0.995 0.732	-0.302 0.995 0.089
emissionRate Rain VaporWashoutRatio	Hg2 All Hg2	Surface water Facility FullSS Divalent Mercury	-1.008 0.995 0.732 0.731	-0.302 0.995 0.089 2.194
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration	Hg2 All Hg2 All	Surface water Facility FullSS Divalent Mercury Surface water	-1.008 0.995 0.732 0.731 -0.603	-0.302 0.995 0.089 2.194 -0.181
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd	Hg2 All Hg2 All Hg2	Surface water Facility FullSS Divalent Mercury Surface water Surface water	-1.008 0.995 0.732 0.731 -0.603 0.394	-0.302 0.995 0.089 2.194 -0.181 0.394
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion	Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface	-1.008 0.995 0.732 0.731 -0.603 0.394	-0.302 0.995 0.089 2.194 -0.181 0.394
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 All Hg2 All Hg2 All Hg2 All All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369	-0.302 0.995 0.089 2.194 -0.181 0.394 0.111
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363	-0.302 0.995 0.089 2.194 -0.181 0.394 0.111 0.111
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363	-0.302 0.995 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251	-0.302 0.995 0.085 2.194 -0.181 0.394 0.111 -0.363 -0.018 -0.027
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg1 All All All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088	-0.302 0.995 0.089 2.192 -0.181 0.392 0.111 -0.363 -0.018 -0.027
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All Hg2 All Hg2	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076	-0.302 0.995 0.089 2.192 -0.181 0.392 0.111 -0.365 -0.018 -0.027 -0.011
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All Hg2 All Hg2 All All All All All All All All All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.076	-0.302 0.995 0.089 2.194 -0.181 0.394 0.111 -0.365 -0.018 -0.027 -0.001
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.076	-0.302 0.995 0.088 2.194 -0.181 0.392 0.111 -0.365 -0.018 -0.027 -0.001 -0.008
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All Hg2 All Hg2 All All All All All All All All All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.076	-0.302 0.995 0.088 2.194 -0.181 0.392 0.111 -0.365 -0.018 -0.027 -0.001 -0.008
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.076	-0.302 0.992 0.089 2.194 -0.181 0.394 0.111 -0.362 -0.012 -0.027 -0.008 -0.008 -0.008
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All Hg1 All All All All All All All All	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.076	-0.302 0.992 0.089 2.194 -0.181 0.394 0.111 0.111 -0.362 -0.012 -0.002 -0.008 -0.008
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.0251 -0.088 0.076 -0.076 -0.075	-0.302 0.992 0.089 2.194 -0.181 0.394 0.111 -0.362 -0.012 -0.008 -0.008 -0.008 -0.008
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.0251 -0.088 0.076 -0.076 -0.075 -0.074 -0.059	-0.30/ 0.99/ 0.08/ 2.19/ -0.18 0.39/ 0.11/ -0.36/ -0.01/ -0.02/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.0
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056	-0.302 0.992 0.089 2.194 -0.181 0.394 0.111 0.111 -0.362 -0.018 -0.022 -0.008 -0.008 -0.008 -0.000 0.0007
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046	-0.30/ 0.99/ 0.08/ 2.19/ -0.18 0.39/ 0.11/ -0.36/ -0.01/ -0.02/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.00/ -0.0
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043	-0.30′ 0.99′ 0.08′ 2.19⁴ -0.18 0.39⁴ 0.11′ 0.11′ -0.36′ -0.01′ -0.02′ -0.01′ 0.02′ -0.00′ -0.00′ -0.00′ 0.00′ 0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037	-0.302 -0.002 -0.002 -0.002 -0.0002 -0.002 -0.0002 -0.0002 -0.0002
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 0.046 -0.043 -0.037	-0.30′ 0.99′ 0.08′ 2.19⁴ -0.18 0.39⁴ 0.11 0.11 -0.36′ -0.01′ -0.02′ -0.01 0.02′ -0.00′ -0.00′ 0.00′ 0.00′ 0.00′ -0.00′ 0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′ -0.00′
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037 -0.035 -0.035	-0.302 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037 -0.035 -0.034 0.031	-0.302 0.995 0.089 2.192 -0.181 0.392 0.111 0.111 -0.363 -0.018 -0.027 -0.001 -0.006 -0.007 -0.005 -0.002 -0.002 -0.002 -0.005 -0.005 -0.005 -0.006 -0.006 -0.006 -0.006 -0.006 -0.006 -0.006 -0.006 -0.006 -0.006
emissionRate Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Facility FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.008 0.995 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.251 -0.088 0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037 -0.035 -0.035	-0.302 0.995 0.089 2.192 -0.181 0.392 0.111 0.111 -0.362 -0.018 -0.022 -0.008 -0.008 -0.007 -0.007 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002 -0.002

Elemental Mercury in Sediment in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.399	0.070
Flushes_per_year	All	Surface water	-0.991	-0.297
emissionRate	Hg0	Facility	0.653	0.653
Kd	Hg0	Surface water	0.614	0.614
SuspendedSedimentconcentration	All	Surface water	-0.583	-0.175
HenryLawConstant	Hg0	Elemental Mercury	-0.512	-0.512
phi	All	Sediment	-0.480	-0.144
SedimentDepositionVelocity	All	Surface water	-0.380	
emissionRate	Hg2	Facility	0.347	
AirTemperature_K	All	FullSS	0.343	
rho	All	Sediment	0.320	
ReductionRate	Hg2	Sediment	0.320	
D_purewater	Hg0	Elemental Mercury	0.320	
Rain	All	FullSS	0.266	
VaporWashoutRatio			0.255	
*	Hg2	Divalent Mercury		
CurrentVelocity	All	Surface water	0.241	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.197	-0.021
horizontalWindSpeed	All	FullSS	0.136	
Dimensionless Viscous Sublayer Thickness	All	Surface water	-0.136	
Kd	Hg2	Surface water	0.126	
Fractionofareaavailableforerosion	All	Soil - Surface	0.126	0.038
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.126	0.038
ReductionRate	Hg2	Soil - Surface	-0.123	-0.123
rho	All	Soil - Surface	-0.123	-0.006
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.118	-0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.117	-0.014
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
D_pureair	Hg0	Elemental Mercury	0.091	0.005
Methyl Mercury in Sediment in River	, j			
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.117	
Flushes_per_year	All	Surface water	-1.001	-0.300
* *				
IDemethylationRate	MHg	Sediment	-0.998	
DemethylationRate emissionRate	MHg Hg2	Sediment Facility	-0.998 0.995	-0.997
emissionRate	Hg2	Facility	0.995	-0.997 0.995
emissionRate MethylationRate	Hg2 Hg2	Facility Sediment	0.995 0.910	-0.997 0.995 0.909
emissionRate MethylationRate Rain	Hg2 Hg2 All	Facility Sediment FullSS	0.995 0.910 0.732	-0.997 0.995 0.909 0.089
emissionRate MethylationRate Rain VaporWashoutRatio	Hg2 Hg2 All Hg2	Facility Sediment FullSS Divalent Mercury	0.995 0.910 0.732 0.731	-0.997 0.995 0.909 0.089 2.194
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration	Hg2 Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water	0.995 0.910 0.732 0.731 -0.527	3 -0.997 0.995 0.909 0.089 2.194 7 -0.158
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate	Hg2 Hg2 All Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370	3 -0.997 5 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359	3 -0.997 5 0.995 6 0.909 9 0.089 2.194 -0.158 -0.369 -0.018 0 0.359
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359	-0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359 0.353 0.353	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359 0.353 0.254	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 0.106
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 0.254 0.120	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 0.106 -0.028 0.036
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All All MHg	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 -0.028 0.036
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate	Hg2 Hg2 All All All All All MHg Hg2	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 0.106 -0.028 0.036 -0.028
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All MHg Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 0.106 -0.028 0.036 -0.089 0.088 -0.011
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho	Hg2 Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089 0.088 -0.088	3 -0.997 0.995 0.909 0.089 2.194 -0.158 -0.369 -0.018 0.359 0.106 0.106 -0.028 0.036 -0.089 0.088 0.0011
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All Hg2 All Hg2	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089 0.088 -0.082 0.078	3 -0.997 0.995 0.909 0.089 2.194 -0.158 0.359 0.106 0.106 0.036 0.036 0.0088 0.088 0.088 0.0011
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089 0.088 -0.088	3 -0.997 5 0.995 6 0.995 7 0.909 8 0.089 9 -0.158 9 -0.018 9 0.359 9 0.106 1 0.106 1 0.036 1 0.036 2 0.038 9 0.088 1 0.001 1 0.004 1 0.004 1 0.004
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All Hg2 All Hg2	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089 0.088 -0.082 0.078	3 -0.997 0.995 0.909 0.089 2.194 -0.158 0 -0.018 0.359 0.106 0.106 -0.028 0.036 0.036 0.0088 0.0088 -0.011 -0.004
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All Hg2 All Hg2 All	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.082 0.078	3 -0.997 0.995 0.909 0.089 2.194 -0.158 0.359 0.106 0.106 0.106 0.036 0.0088 0.0088 0.0088 0.0011 -0.004 0.0036 0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 0.078	3 -0.997 5 0.995 6 0.995 7 0.909 7 0.089 7 2.194 7 -0.158 7 -0.018 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008 7 0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Link from Air, to Air Sediment Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.359 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 -0.075 -0.075	3 -0.997 5 0.995 6 0.995 7 0.908 7 0.158 7 -0.158 7 -0.018 7 -0.018 7 -0.018 7 -0.028 7 -0.036 7 -0.089 7 -0.004 7 -0.004 7 -0.008 7 -0.008 7 -0.008 7 -0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All Hg2 All All All All All All Hg1 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.379 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 0.075 -0.075	3 -0.997 5 0.995 6 0.995 7 0.909 7 0.089 7 2.194 7 -0.158 7 -0.369 7 -0.018 7 0.106 7 0.106 7 0.028 7 0.036 7 0.089 8 0.088 8 -0.011 8 0.023 8 0.008 9 0.008 9 0.008 9 0.008 9 0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 0.075 -0.075 -0.075	3 -0.997 5 0.995 6 0.995 7 0.909 7 0.909 8 0.089 8 -0.158 8 -0.369 9 -0.018 9 0.359 8 0.106 9 -0.028 9 0.036 9 -0.089 9 -0.011 9 -0.004 9 -0.008 9 -0.008 9 -0.008 9 -0.008 9 -0.008 9 -0.008 9 -0.008 9 -0.008 9 -0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer FractionofAreaAvailableforRunoff	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Surface Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 -0.075 -0.075 -0.075 -0.074 0.068 -0.058 -0.058	3 -0.997 5 0.995 6 0.909 7 0.909 7 0.089 7 2.194 7 -0.158 7 -0.369 7 -0.018 7 -0.016 7 -0.028 7 -0.036 7 -0.089 7 -0.036 7 -0.089 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008 7 -0.008
emissionRate MethylationRate Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer phi DemethylationRate MethylationRate SteadyState_AdvectiveTransfer rho VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Sediment Soil - Surface Link from Air, to Air Surface Link from Air, to Air	0.995 0.910 0.732 0.731 -0.527 -0.370 -0.370 0.359 0.353 0.353 -0.254 0.120 -0.089 0.088 -0.088 -0.082 -0.075 -0.075 -0.075 -0.074 0.068 -0.058	3 -0.997 5 0.995 6 0.909 7 0.909 7 0.909 8 0.089 8 -0.158 8 -0.018 9 0.359 9 0.106 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.036 9 0.037 9 0.008 9 0.0007 9 0.007 9 0.014

Divalent Mercury in Sediment in Sed_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.975	0.349
emissionRate	Hg2	Facility	0.993	0.993
Kd	Hg2	Surface water	0.795	0.795
Flushes_per_year	All	Surface water	-0.788	-0.236
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
WaterTemperature_K	All	Surface water	-0.539	-0.539
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.383	0.043
		Soil - Surface	0.324	
TotalErosionRate_kg_m2_day	All			0.097
ReductionRate	Hg2	Soil - Surface	-0.318	
rho	All	Soil - Surface	-0.318	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
ReductionRate	Hg2	Surface water	-0.201	-0.200
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.187	-0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	-0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	0.023
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	-0.140
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.140	
BiomassPerArea_kg_m2	All	Macrophyte	0.140	
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Macrophyte	0.140	
SuspendedSedimentconcentration	All	Surface water	-0.136	-0.041
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.134	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.130	
-	All	Link Holli Ali, to Ali	-0.130	-0.013
Elemental Mercury in Sediment in Sed_Swetts Property	Chemical	Object Name	Elasticity	C:4::4 C
	Chemicai			
I also	A 11	_		Sensitivity Score
rho	All	Surface water	7.838	0.392
phi	All	Surface water Sediment	7.838 -1.305	0.392 -0.392
phi SuspendedSedimentconcentration	All All	Surface water Sediment Surface water	7.838 -1.305 -1.072	0.392 -0.392 -0.322
phi SuspendedSedimentconcentration emissionRate	All All Hg2	Surface water Sediment Surface water Facility	7.838 -1.305 -1.072 0.993	0.392 -0.392 -0.322 0.993
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity	All Hg2 All	Surface water Sediment Surface water Facility Surface water	7.838 -1.305 -1.072 0.993 -0.938	0.392 -0.392 -0.322 0.993 -0.281
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate	All Hg2 All Hg2	Surface water Sediment Surface water Facility Surface water Sediment	7.838 -1.305 -1.072 0.993 -0.938 0.872	0.392 -0.392 -0.322 0.993 -0.281
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho	All All Hg2 All Hg2 All Hg2 All	Surface water Sediment Surface water Facility Surface water Sediment Sediment	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870	0.392 -0.392 -0.322 0.993 -0.281 0.871
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year	All All Hg2 All Hg2 All All All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho	All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year	All All Hg2 All Hg2 All All All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd	All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K	All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water Surface water Surface water Surface water	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain	All Hg2 All Hg2 All Hg2 All Hg2 All All All All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water Surface water Surface water FullSS	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio	All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All Hg2	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water Surface water FullSS Divalent Mercury	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All Hg1 All All All	Surface water Sediment Surface water Facility Surface water Sediment Sediment Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All Hg2 All Hg2 All Hg2	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All All All All Hg1 All Hg2 All All All All Hg1	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.232 0.226	0.392 -0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.232 0.226 -0.196	0.392 -0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196	0.392 -0.392 -0.322 0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187	0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All A	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187 -0.167	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 -0.097 -0.016 0.030 -0.025 -0.021 -0.021 -0.023
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All All Hg2 All All All All All All All A	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.167 -0.161	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 -0.097 -0.016 0.030 -0.025 -0.021 -0.021 -0.018
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All All Hg2 All All All All All All All A	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.161 -0.147	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021 -0.018 0.023
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All A	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.167 -0.161 0.147 0.144	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021 -0.023 -0.019 -0.018 0.023
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer DimensionlessViscousSublayerThickness horizontalWindSpeed	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.318 -0.1161 -0.147 -0.144 -0.144	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021 -0.023 -0.019 -0.018 0.023 -0.019
phi SuspendedSedimentconcentration emissionRate SedimentDepositionVelocity ReductionRate rho Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All A	Surface water Sediment Surface water Facility Surface water Sediment Sediment Sediment Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -1.305 -1.072 0.993 -0.938 0.872 0.870 -0.796 0.732 -0.689 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.167 -0.161 0.147 0.144	0.392 -0.392 -0.392 -0.392 -0.993 -0.281 0.871 0.043 -0.239 0.732 -0.688 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021 -0.023 -0.019 -0.018 0.023 -0.019 -0.018

Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.960	0.348
DemethylationRate	MHg	Sediment	-1.007	-1.006
emissionRate	Hg2	Facility	0.993	0.993
MethylationRate	Hg2	Sediment	0.991	0.990
Kd	Hg2	Surface water	0.790	
Flushes_per_year	All	Surface water	-0.787	-0.236
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2		0.605	
WaterTemperature K	All	Divalent Mercury	-0.539	
1 =		Surface water		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	
ReductionRate	Hg2	Soil - Surface	-0.318	
rho	All	Soil - Surface	-0.318	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	0.025
ReductionRate	Hg2	Surface water	-0.200	-0.200
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.187	-0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	-0.018
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.147	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	-0.141
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.141	
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BiomassPerArea_kg_m2	All	Macrophyte	0.139	
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Macrophyte	0.139	
SuspendedSedimentconcentration	All	Surface water	-0.134	-0.040
Divalent Mercury in Surface Water in River	Les .	LOVE AND	Ima	la titta
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Flushes_per_year	All			
		Surface water	-1.010	
emissionRate	Hg2	Facility	0.995	0.995
Rain	Hg2 All	Facility FullSS		0.995
	Hg2	Facility	0.995	0.995 0.089
Rain	Hg2 All	Facility FullSS Divalent Mercury Soil - Surface	0.995 0.732	0.995 0.089
Rain VaporWashoutRatio	Hg2 All Hg2	Facility FullSS Divalent Mercury	0.995 0.732 0.731	0.995 0.089 2.194
Rain VaporWashoutRatio Fractionofareaavailableforerosion	Hg2 All Hg2 All	Facility FullSS Divalent Mercury Soil - Surface	0.995 0.732 0.731 0.372	0.995 0.089 2.194 0.112
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 All Hg2 All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface	0.995 0.732 0.731 0.372 0.372	0.995 0.089 2.194 0.112 0.112
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	Hg2 All Hg2 All All Hg2	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface	0.995 0.732 0.731 0.372 0.372	0.995 0.089 2.194 0.112 0.112 -0.361
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	Hg2 All Hg2 All All Hg2 All All Hg2 All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface	0.995 0.732 0.731 0.372 0.372 -0.362	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho	Hg2 All Hg2 All All Hg2 All All Hg2 All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	Hg2 All Hg2 All All Hg2 All All Hg2 All All All Hg2 Hg2 All All All Hg2	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 0.076	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 0.076	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 0.023 -0.008
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 0.076 -0.076	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 0.076 -0.075 -0.074	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.076 -0.076 -0.075 -0.074	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.076 -0.076 -0.075 -0.074 -0.059	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.008 -0.007
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.075 -0.056 -0.056	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.007
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.005 0.007
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.008 -0.007 -0.005 0.007
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.023 -0.008 -0.008 -0.008 -0.007 -0.005 -0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043 -0.038	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.023 -0.008 -0.008 -0.008 -0.007 -0.005 -0.004 0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.076 -0.075 -0.046 0.045 -0.043 -0.038 0.037 -0.035	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.005 -0.005 -0.005 -0.005 -0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043 -0.038	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.005 -0.005 -0.005 -0.005 -0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.251 0.215 -0.087 -0.076 -0.076 -0.075 -0.046 0.045 -0.043 -0.038 0.037 -0.035	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.005 -0.004 -0.005 -0.004 -0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043 -0.038 0.037 -0.035	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.007 -0.004 -0.005 -0.004 -0.004 -0.005
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043 -0.038 0.037 -0.034 0.031	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.011 -0.008 -0.008 -0.008 -0.007 -0.007 -0.005 -0.004 -0.004 -0.003 -0.004 -0.004 -0.003
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.043 -0.038 0.037 -0.034 -0.031 -0.030 -0.030	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 0.023 -0.008 -0.008 -0.007 -0.007 -0.005 -0.004 -0.004 -0.003 -0.004 -0.003 -0.004 -0.003 -0.004 -0.004 -0.004 -0.004 -0.004 -0.004 -0.004 -0.004 -0.004 -0.004 -0.009
Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.732 0.731 0.372 0.372 -0.362 -0.362 -0.251 0.215 -0.087 -0.076 -0.075 -0.074 -0.059 -0.046 0.045 -0.038 0.037 -0.038 0.037 -0.034 -0.031 -0.030	0.995 0.089 2.194 0.112 0.112 -0.361 -0.018 -0.027 0.011 -0.011 -0.011 0.023 -0.008 -0.008 -0.007 -0.007 -0.005 -0.004 -0.004 -0.003 -0.004 -0.003 -0.004 -0.004 -0.004 -0.009 -0.009 -0.009 -0.009 -0.009 -0.009 -0.009 -0.009

Dronorty				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Flushes_per_year	All	Surface water	-0.983	-0.295
emissionRate	Hg0	Facility	0.957	0.957
HenryLawConstant	Hg0	Elemental Mercury	-0.750	-0.750
AirTemperature_K	All	FullSS	0.503	0.001
CurrentVelocity	All	Surface water	0.353	0.060
D_purewater	Hg0	Elemental Mercury	0.352	0.106
horizontalWindSpeed	All	FullSS	0.201	0.201
DimensionlessViscousSublayerThickness	All	Surface water	-0.200	-0.060
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.171	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.149	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.138	-0.015
D_pureair	Hg0	Elemental Mercury	0.134	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.117	0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.114	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.101	
DragCoefficient	All	Surface water	0.101	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.093	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.086	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.083	
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.083	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.064	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.064	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.060	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.058	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.057	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.057	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.057	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.050	
Rain	All	FullSS	0.030	
	All	Tunos	0.048	0.000
Methyl Mercury in Surface Water in River				
Property	Chemical	Object Name	Flasticity	Sensitivity Score
Property emissionRate	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.998	0.998
emissionRate DemethylationRate	Hg2 MHg	Facility Soil - Surface	0.998 -0.940	0.998 -0.939
emissionRate DemethylationRate MethylationRate	Hg2 MHg Hg2	Facility Soil - Surface Soil - Surface	0.998 -0.940 0.931	0.998 -0.939 0.930
emissionRate DemethylationRate MethylationRate Flushes_per_year	Hg2 MHg Hg2 All	Facility Soil - Surface Soil - Surface Surface water	0.998 -0.940 0.931 -0.929	0.998 -0.939 0.930 -0.279
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain	Hg2 MHg Hg2 All	Facility Soil - Surface Soil - Surface Surface water FullSS	0.998 -0.940 0.931 -0.929 0.732	0.998 -0.939 0.930 -0.279 0.089
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio	Hg2 MHg Hg2 All All Hg2	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury	0.998 -0.940 0.931 -0.929 0.732	0.998 -0.939 0.930 -0.279 0.089 2.195
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate	Hg2 MHg Hg2 All All Hg2 Hg2	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732	0.998 -0.939 0.930 -0.279 0.089 2.195
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho	Hg2 MHg Hg2 All All Hg2 Hg2 All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd	Hg2 MHg Hg2 All All Hg2 Hg2 All MHg	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff	Hg2 MHg Hg2 All All Hg2 Hg2 All Hg2 Hg2 All MHg All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day	Hg2 MHg Hg2 All All Hg2 Hg2 All Hg2 All Hg2 All All All All All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 Hg2 All Hg2 All Hg2 All All All All All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	Hg2 MHg Hg2 All All Hg2 Hg2 All Hg2 All Hg2 All All All All All All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 MHg Hg2 All All Hg2 Hg2 All Hg2 All Hg2 All All All All All All All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	0.998 -0.940 0.931 -0.929 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 0.086 0.056
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity	Hg2 MHg Hg2 All All Hg2 Hg2 All MHg All All All All All All All All All	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111	0.998 -0.939 0.930 -0.279 0.089 -0.436 -0.022 -0.310 0.086 0.086 -0.03 0.056 -0.033
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096	0.998 -0.939 0.930 -0.279 0.089 -0.436 -0.022 -0.310 0.086 0.086 -0.03 0.056 -0.033 -0.012
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 0.187 -0.111 -0.096 0.095	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 0.086 -0.03 -0.056 -0.033 -0.012
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076	0.998 -0.939 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 -0.03 -0.056 -0.033 -0.012 0.028 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076	0.998 -0.939 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 -0.03 -0.056 -0.033 -0.012 0.028 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069	0.998 -0.939 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 -0.03 -0.056 -0.033 -0.012 0.028 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 0.065	0.998 -0.939 -0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 -0.036 -0.056 -0.033 -0.012 0.028 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer rho SteadyState_AdvectiveTransfer Kd	Hg2 MHg Hg2 All All Hg2 Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface water Link from Air, to Air Soil - Surface Link from Air, to Sink Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 0.065 -0.064 0.059	0.998 -0.939 -0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 -0.03 0.056 -0.031 -0.012 0.028 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface Surface Link from Air, to Air Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 0.065 -0.064 0.059	0.998 -0.939 -0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 -0.03 -0.056 -0.03 -0.012 -0.008 -0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface Surface Surface Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 0.065 -0.064 0.059 -0.055	0.998 -0.939 -0.939 -0.279 -0.089 -0.436 -0.022 -0.310 -0.086 -0.03 -0.056 -0.03 -0.012 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Surface Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 0.065 -0.064 0.059 -0.054 0.051	0.998 -0.939 -0.939 -0.279 -0.089 -0.0436 -0.022 -0.310 -0.086 -0.036 -0.056 -0.031 -0.012 -0.012 -0.008 -0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.065 -0.064 0.059 -0.055 -0.054 -0.051 -0.048	0.998 -0.939 -0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 -0.03 -0.056 -0.033 -0.012 0.028 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 -0.065 -0.064 0.059 -0.055 -0.054 -0.051 -0.048 -0.044	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 -0.03 0.056 0.056 -0.033 -0.012 0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 -0.065 -0.055 -0.054 -0.051 -0.044 -0.041	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 -0.03 -0.056 -0.033 -0.012 0.028 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008
emissionRate DemethylationRate MethylationRate Flushes_per_year Rain VaporWashoutRatio ReductionRate rho Kd FractionofAreaAvailableforRunoff TotalRunoffRate_m3_m2_day SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SedimentDepositionVelocity SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg Hg2 All All Hg2 All MHg All All All All All All All All All Al	Facility Soil - Surface Soil - Surface Surface water FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	0.998 -0.940 0.931 -0.929 0.732 0.732 -0.437 -0.436 -0.310 0.285 0.285 -0.279 0.187 -0.111 -0.096 0.095 -0.076 -0.069 -0.065 -0.064 0.059 -0.055 -0.054 -0.051 -0.048 -0.044	0.998 -0.939 0.930 -0.279 0.089 2.195 -0.436 -0.022 -0.310 0.086 0.086 -0.03 -0.056 -0.033 -0.012 0.008 -0.008 -0.009 -0.007 -0.054 0.008 -0.008 -0.008 -0.008 -0.008 -0.009 -0.007 -0.054 0.008 -0.008 -0.008 -0.008 -0.008

Bellishes per year	Divalent Mercury in Surface Water in SW_Swetts				
emissionidate Hg2 Piecifity	Property	Chemical	Object Name	Elasticity	Sensitivity Score
Flucks per year All Surface water -0.78 -0.07 -0.08 -0.07 -0.08 -0.07 -0.08 -0.07 -0.08 -0.08 -0.07 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08 -0.0	rho	All	Surface water	6.064	0.303
Rain	emissionRate	Hg2	Facility	0.993	0.993
Name	Flushes_per_year	All	Surface water	-0.789	-0.237
Mater Compensature Nation All Surface water 0-0.518 0.01	* *	All	FullSS	0.607	0.074
Mater Chapterature No. Surface water 0.0538 0.01	VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
Sendy State, Advective Transfer All Link from Air, to Air 0.385 0.01	*				
Fractions/fracavailable/corression	<u> </u>				
TransfersoinOtane_kg_m2_day	• –		'	_	
ReductionRate					
All Soil - Surface -0.18 -0.18 -0.018 SteadyState Advective Transfer All Link from Air, to Air 0.270 0.01 SteadyState Advective Transfer All Link from Air, to Air 0.222 -0.01 SteadyState Advective Transfer All Link from Air, to Air 0.222 -0.01 SteadyState Advective Transfer All Link from Air, to Air 0.222 -0.01 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -	• •			_	
SeedyState_AdvectiveTransfer					
SeadyState_AdvectiveTransfer					
SteadyState_AdvectiveTransfer	• –				
ReductionRate	· –		,		
SneadyState_AdvectiveTransfer	· · · · · · · · · · · · · · · · · · ·				
SeadyState_AdvectiveTransfer				_	
SeealyState_AdvectiveTransfer	, –		'	_	
SeadyState_AdvectiveTransfer	• –		'	_	
SeadyState_AdvectiveTransfer			'		
SteadyState_AdvectiveTransfer			'	_	
SeedyState_AdvectiveTransfer	• –	All	Link from Air, to Air	-0.161	-0.018
AllowExchange_SteadyState_forAir All Leaf - Coniferous Forest -0.141 -0.1		All	Link from Air, to Air	0.147	0.023
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil Hg0 Macrophyte 0.140 0.15	SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	0.023
BiomassPerArea_kg_m2	AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	-0.140
WaterColumnDissolvedPartitioning_PartitionCoefficient	WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.140	-0.421
WaterColumnDissolvedPartitioning_PartitionCoefficient	BiomassPerArea_kg_m2	All	Macrophyte	0.140	0.140
SteadyState_AdvectiveTransfer	· ·	Hg0		0.140	0.420
SteadyState_AdvectiveTransfer			1 1	0.134	0.019
SteadyState_AdvectiveTransfer			· ·		
SteadyState_AdvectiveTransfer			,		
Chemical Object Name Elasticity Sensitivity Score			· · · · · · · · · · · · · · · · · · ·		
Chemical Object Name Elasticity Sensitivity Score				0.115	0.015
Mater Mate					
WaterTemperature_K All Surface water -2.163 -2.1 emissionRate Hg2 Facility 0.989 0.9 Flushes_per_year All Surface water -0.878 -0.2 ReductionRate Hg2 Surface water 0.631 0.0 Rain All FullSS 0.608 0.6 VaporWashoutRatio Hg2 Divalent Mercury 0.602 1.3 Dimensionless ViscousSublayerThickness All Surface water 0.446 0.1 horizontalWindSpeed All FullSS -0.446 -0.2 WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil Hg0 Macrophyte 0.440 1.1 BiomassPerArea_kg_m2 All Macrophyte -0.439 -0.2 WaterColumnDissolvedPartitioning_PartitionCoefficient Hg0 Macrophyte -0.439 -0.2 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.386 0.0 Fractionofareaavailableforerosion All Soil - Surface 0.323 0.0		Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate Hg2 Facility 0.989 0.5 Flushes_per_year All Surface water -0.878 -0.2 ReductionRate Hg2 Surface water 0.631 0.6 Rain All FullSS 0.608 0.0 VaporWashoutRatio Hg2 Divalent Mercury 0.602 1.3 DimensionlessViscousSublayerThickness All Surface water 0.446 0.1 horizontalWindSpeed All FullSS -0.446 -0.2 WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil Hg0 Macrophyte 0.440 1.1 BiomassPerArea_kg_m2 All Macrophyte -0.439 -0.4 WaterColumnDissolvedPartitioning_PartitionCoefficient Hg0 Macrophyte -0.439 -1.2 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.386 0.0 Fractionof area available forerosion All Soil - Surface 0.323 0.0 TotalErosionRate_kg_m2_day All Soil - Surface 0.323 0.0	Property				•
Flushes_per_year	Property rho	All	Surface water	6.351	0.318
ReductionRate	Property rho WaterTemperature_K	All All	Surface water Surface water	6.351 -2.163	0.318 -2.161
Rain	Property rho WaterTemperature_K emissionRate	All All Hg2	Surface water Surface water Facility	6.351 -2.163 0.989	0.318 -2.161 0.989
VaporWashoutRatio	Property rho WaterTemperature_K emissionRate Flushes_per_year	All All Hg2 All	Surface water Surface water Facility Surface water	6.351 -2.163 0.989 -0.878	0.318 -2.161 0.989 -0.263
Dimensionless Viscous Sublayer Thickness	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate	All Hg2 All Hg2	Surface water Surface water Facility Surface water Surface water	6.351 -2.163 0.989 -0.878 0.631	0.318 -2.161 0.989 -0.263 0.630
horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil Hg0 Macrophyte 0.440 1.3 BiomassPerArea_kg_m2 All Macrophyte 0.439 -0.4 WaterColumnDissolvedPartitioning_PartitionCoefficient Hg0 Macrophyte 0.439 -1.3 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.386 0.0 Fractionofareaavailableforerosion All Soil - Surface 0.323 0.0 ReductionRate kg_m2_day All Soil - Surface 1.3 Soil - Surface 0.323 0.0 ReductionRate Hg2 Soil - Surface 0.323 0.0 ToalErosionRate_kg_m2_day ReductionRate Hg2 Soil - Surface 0.316 -0.5 SteadyState_AdvectiveTransfer All Soil - Surface 0.316 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.271 0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.232 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.226 0.0 DragCoefficient All Surface water 0.223 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.226 0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.221 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.210 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.196 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.187 -0.06 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.182 -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain	All Hg2 All Hg2 All Hg2 All	Surface water Surface water Facility Surface water Surface water FullSS	6.351 -2.163 0.989 -0.878 0.631 0.608	0.318 -2.161 0.989 -0.263 0.630 0.074
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil Hg0 Macrophyte 0.440 1.3 BiomassPerArea_kg_m2 All Macrophyte -0.439 -0.4 WaterColumnDissolvedPartitioning_PartitionCoefficient Hg0 Macrophyte -0.439 -1.3 SteadyState_AdvectiveTransfer All Link from Air, to Air 0.386 0.0 Fractionofareavailableforerosion All Soil - Surface 0.323 0.0 TotalErosionRate_kg_m2_day All Soil - Surface 0.323 0.0 ReductionRate Hg2 Soil - Surface 0.316 -0.5 rho All Soil - Surface -0.316 -0.5 rho All Soil - Surface -0.316 -0.5 rbo All Soil - Surface -0.316 -0.5 rbo All Soil - Surface -0.316 -0.5 steadyState_AdvectiveTransfer All Link from Air, to Air 0.271 0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.223 <td< td=""><td>Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio</td><td>All Hg2 All Hg2 All Hg2 All Hg2</td><td>Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury</td><td>6.351 -2.163 0.989 -0.878 0.631 0.608</td><td>0.318 -2.161 0.989 -0.263 0.630 0.074</td></td<>	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio	All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury	6.351 -2.163 0.989 -0.878 0.631 0.608	0.318 -2.161 0.989 -0.263 0.630 0.074
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SteadyState_AdvectiveTransfer All Link from Air, to Air 0.226 0.0 DragCoefficient All Surface water -0.223 -0.0 AirDensity_g_cm3 All Air -0.221 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.196 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.195 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.187 -0.0 phi All Sediment -0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.167 -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater	All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All Hl Hg0 All Hl Hg0	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.449 -0.439 -0.439 -0.323 0.323 -0.316 -0.296	0.318 -2.16 0.988 -0.266 0.630 0.074 1.807 0.134 -0.440 1.319 -0.439 -1.317 0.044 0.099 -0.310 -0.010
DragCoefficient All Surface water -0.223 -0.0 AirDensity_g_cm3 All Air -0.221 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.196 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.195 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.187 -0.0 phi All Sediment -0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.167 -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer	All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 All Hg0 All All Hg0 All Hg1 Hg2 All All Hg2 All All Hg2 All All Hg2 All	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 0.440 -0.439 -0.323 0.323 -0.316 -0.296	0.318 -2.16 0.988 -0.266 0.630 0.074 1.807 0.134 -0.440 1.319 -0.439 -1.317 0.044 0.099 -0.310 -0.010 -0.089 0.098
AirDensity_g_cm3 All Air -0.221 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.196 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.195 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.187 -0.0 SteadyState_AdvectiveTransfer All Sediment -0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.167 -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 All Hg0 All Hlg0 All Hlg0 All All Hg2 All All Hg1 All Hg2 All All Hg2 All All Hg1 All Hg2 All Hg1 Hg1 All Hg2 All Hg1 All	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 0.440 -0.439 -0.323 -0.316 -0.316 -0.296 0.271 -0.232	0.31: -2.16 0.98 -0.26: 0.630 0.07 1.80' 0.13: -0.44 1.31! -0.43: -1.31' 0.04: 0.09' -0.31: -0.01: -0.08: 0.03: -0.02:
SteadyState_AdvectiveTransferAllLink from Air, to Air-0.196-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.195-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.187-0.0phiAllSediment-0.182-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.167-0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 All Hg0 All Hg0 All Hg0 All All All All Hg1 All All Hg2 All All All Hg1 All Hg2 All All Hg1 All Hg1 All Hg1 All Hg1	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 0.440 -0.439 -0.316 -0.316 -0.296 0.271 -0.232	0.31: -2.16 0.98 -0.26: 0.630 0.07 1.80 0.13 -0.44 1.31! -0.43 -1.31 0.04 0.09 0.09 -0.31 -0.010 -0.08 0.03 -0.02:
SteadyState_AdvectiveTransferAllLink from Air, to Air-0.195-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.187-0.0phiAllSediment-0.182-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.167-0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient	All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg0 All Hg0 All Hlg0 All All All All All All Hg1 All All Hg2 All All All All Hg1 All Hg1 All Hg1 All Hg1 All Hg1 All Hg1 All All All	Surface water Surface water Facility Surface water Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 -0.439 -0.316 -0.316 -0.316 -0.296 0.271 -0.232 0.226 -0.223	0.31: -2.16 0.98* -0.26: 0.630 0.07- 1.80' 0.130.44(1.31' -0.43' -1.31' 0.04 0.09' 0.09' -0.010 -0.08' 0.030 -0.02: -0.06'
SteadyState_AdvectiveTransferAllLink from Air, to Air-0.187-0.0phiAllSediment-0.182-0.0SteadyState_AdvectiveTransferAllLink from Air, to Air-0.167-0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient AirDensity_g_cm3	All All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg0 All All Hg0 All All All All All All Hg1 All Hg2 All All All Hg1 All Hg1 All Hg1 All Hg1 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air Link from Air, to Air Surface	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 -0.439 -0.316 -0.316 -0.296 0.271 -0.232 -0.223 -0.221	0.31 -2.16 0.98 -0.26 0.63 0.07 1.80 0.13 -0.44 1.31 -0.43 -1.31 0.04 0.09 0.09 0.09 -0.31 -0.01 -0.08 0.03 -0.02 -0.06 -0.01
phi All Sediment -0.182 -0.0 SteadyState_AdvectiveTransfer All Link from Air, to Air -0.167 -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient AirDensity_g_cm3 SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All All All All All All Hg1 All Hg2 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air Link from Air, to Air Surface Sil - Surface Soil - Surface	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 -0.439 -0.323 -0.316 -0.296 0.271 -0.232 -0.223 -0.221 -0.196	0.31 -2.16 0.98 -0.26 0.63 0.07 1.80 0.13 -0.44 1.31 -0.43 -1.31 0.04 0.09 0.09 0.09 -0.31 -0.01 -0.08 0.03 -0.02 -0.06 -0.01 -0.02
SteadyState_AdvectiveTransfer All Link from Air, to Air -0.167 -0.6	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg0 All Hg0 All Hg0 All All All All All Hg1 Hg2 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Elemental Mercury Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.449 -0.439 -0.323 -0.316 -0.296 0.271 -0.232 -0.223 -0.221 -0.196	0.31 -2.16 0.98 -0.26 0.63 0.07 1.80 0.13 -0.44 1.31 -0.43 -1.31 0.04 0.09 0.09 0.09 -0.31 -0.01 -0.08 0.03 -0.02 -0.02 -0.06 -0.01 -0.02 -0.02 -0.02
	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient AirDensity_g_cm3 SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 0.440 -0.439 -0.323 -0.316 -0.296 0.271 -0.232 -0.223 -0.221 -0.196 -0.195	0.31 -2.16 0.98 -0.26 0.63 0.07 1.80 0.13 -0.44 1.31 -0.43 -1.31 0.04 0.09 0.09 -0.31 -0.01 -0.00 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02 -0.02
SteadyState AdvectiveTransfer IAII II ink from Air to Air I =0.161I = -0.0	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient AirDensity_g_cm3 SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Air Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 0.440 -0.439 -0.386 0.323 -0.316 -0.296 0.271 -0.232 -0.223 -0.221 -0.196 -0.187 -0.182	0.31: -2.16 0.98* -0.26: 0.630 0.07- 1.80* 0.130.44 1.31* -0.43* -1.31* 0.04* 0.09* -0.31* -0.01* -0.08* 0.030 -0.02: -0.06* -0.01 -0.02 -0.02: -0.02 -0.02 -0.02: -0.05:
SteadyState_AdvectiveTransfer All Link from Air, to Air 0.147 0.6	Property rho WaterTemperature_K emissionRate Flushes_per_year ReductionRate Rain VaporWashoutRatio DimensionlessViscousSublayerThickness horizontalWindSpeed WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil BiomassPerArea_kg_m2 WaterColumnDissolvedPartitioning_PartitionCoefficient SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_purewater SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer DragCoefficient AirDensity_g_cm3 SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 All Hg0 All Hg0 All All All All All All All A	Surface water Surface water Facility Surface water Surface water FullSS Divalent Mercury Surface water FullSS Macrophyte Macrophyte Macrophyte Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Air Link from Air, to Air	6.351 -2.163 0.989 -0.878 0.631 0.608 0.602 0.446 -0.446 -0.439 -0.386 0.323 -0.316 -0.316 -0.296 0.271 -0.232 -0.223 -0.221 -0.196 -0.187 -0.182 -0.167	0.31: -2.16 0.98* -0.26: 0.630 0.07- 1.80* 0.130.44 1.31* -0.43* -1.31* 0.04: 0.09* -0.31 -0.09* -0.310 -0.00: -0.02: -0.02: -0.02: -0.02: -0.02: -0.05: -0.01*

Property				
property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	4.932	0.247
emissionRate	Hg2	Facility	0.994	0.994
Flushes_per_year	All	Surface water	-0.714	-0.214
MethylationRate	Hg2	Surface water	0.647	0.647
Kd	MHg	Surface water	-0.637	
SedimentDepositionVelocity	All	Surface water	-0.627	
Rain	All	FullSS	0.607	
VaporWashoutRatio	Hg2	Divalent Mercury	0.606	
SuspendedSedimentconcentration	All	Surface water	-0.520	
		Surface water	_	
WaterTemperature_K	All		-0.400	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.381	
ReductionRate	Hg2	Soil - Surface	-0.328	
rho	All	Soil - Surface	-0.328	
Fractionofareaavailableforerosion	All	Soil - Surface	0.278	
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.278	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.269	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.231	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.225	0.025
DemethylationRate	MHg	Soil - Surface	-0.209	
MethylationRate	Hg2	Soil - Surface	0.207	0.206
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.193	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.185	-0.023
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.163	-0.018
ReductionRate	Hg2	Surface water	-0.159	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.145	
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.145	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	
DemethylationRate	MHg	Sediment Sediment	-0.139	
·	Ming	Sediment	-0.139	-0.139
Divalent Mercury in Benthic Carnivore in River				
Duoponty	Chamical	Object Name	Flocticity	Consitivity Coope
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface water	-2.918	-2.915
WaterTemperature_K rho	All All	Surface water Surface water	-2.918 1.210	-2.915 0.061
WaterTemperature_K rho Flushes_per_year	All All All	Surface water Surface water Surface water	-2.918 1.210 -1.008	-2.915 0.061 -0.302
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg	All All All Hg2	Surface water Surface water Surface water Benthic Carnivore	-2.918 1.210 -1.008 -0.998	-2.915 0.061 -0.302 -0.998
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient	All All All Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate	-2.918 1.210 -1.008 -0.998 0.994	-2.915 0.061 -0.302 -0.998 2.983
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All All All Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore	-2.918 1.210 -1.008 -0.998 0.994 0.994	-2.915 0.061 -0.302 -0.998 2.983 0.993
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate	All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate	-2.918 1.210 -1.008 -0.998 0.994 0.994	-2.915 0.061 -0.302 -0.998 2.983 0.993
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood	All All All Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore	-2.918 1.210 -1.008 -0.998 0.994 0.994	-2.915 0.061 -0.302 -0.998 2.983 0.993
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate	All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility	-2.918 1.210 -1.008 -0.998 0.994 0.994	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Comnivore	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi	All All All Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment	-2.918 1.210 -1.008 -0.998 0.994 0.991 0.974 -0.966 -0.897	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Sediment FullSS	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Sediment FullSS Divalent Mercury	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Sediment FullSS Divalent Mercury Surface water Surface water	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Comnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface	-2.918 1.210 -1.008 -0.998 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All All All All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 0.729 -0.603 0.392 0.368 0.368	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All All All All All All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Comnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment	-2.918 1.210 -1.008 -0.998 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment Soil - Surface Sediment Soil - Surface	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.363 -0.362	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Sediment Soil - Surface Soil - Surface	-2.918 1.210 -1.008 -0.998 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Sediment Soil - Surface Sediment Soil - Surface Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.018 -0.018 -0.018 -0.027
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.027
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg1 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Soil - Surface	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.363 -0.362 -0.251 -0.087 0.0766 -0.076	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.088 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.001 0.025
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076 -0.076	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.088 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.001 0.025
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.368 -0.362 -0.251 -0.087 0.076 -0.075	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.088 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.001 0.025 0.0023 -0.008
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076 -0.076	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.088 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.001 0.025 0.0023 -0.008
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.368 -0.362 -0.251 -0.087 0.076 -0.075	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.027 -0.011 0.025 0.023 -0.008 -0.008
WaterTemperature_K rho Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Benthic Carnivore Benthic Invertebrate Benthic Omnivore Facility Benthic Carnivore Benthic Carnivore Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-2.918 1.210 -1.008 -0.998 0.994 0.994 0.991 0.974 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.368 -0.362 -0.251 -0.087 -0.075 -0.075	-2.915 0.061 -0.302 -0.998 2.983 0.993 0.991 0.973 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.027 -0.011 0.025 0.023 -0.008 -0.008 -0.008

Elemental Mercury in Benthic Carnivore in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface water	29.640	29.610
rho	All	Surface water	1.399	0.070
phi	All	Sediment	-1.383	-0.415
OxidationRate	Hg0	Benthic Carnivore	-1.010	-1.009
OxidationRate	Hg0	Benthic Omnivore	-1.010	-1.009
AssimilationEfficiencyFromFood	Hg0	Benthic Carnivore	1.000	0.999
SedimentPartitioning_PartitionCoefficient	Hg0	Benthic Invertebrate	1.000	3.000
AssimilationEfficiencyFromFood	Hg0	Benthic Omnivore	0.999	0.998
Flushes_per_year	All	Surface water	-0.991	-0.297
rho	All	Sediment	0.683	0.034
emissionRate	Hg0	Facility	0.653	
Kd	Hg0	Surface water	0.614	
SuspendedSedimentconcentration	All	Surface water	-0.583	
HenryLawConstant	Hg0	Elemental Mercury	-0.512	
SedimentDepositionVelocity	All	Surface water	-0.380	
emissionRate	Hg2	Facility	0.347	
AirTemperature_K	All	FullSS	0.347	0.000
ReductionRate	Hg2	Sediment	0.320	
D_purewater	Hg0	Elemental Mercury	0.320	
Rain	All	FullSS	0.297	
VaporWashoutRatio	Hg2	Divalent Mercury	0.266	
		Surface water		
CurrentVelocity	All		0.241	0.041
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.197	
BW	All	Benthic Omnivore	-0.152	
BW	All	Benthic Carnivore	-0.151	
horizontalWindSpeed	All	FullSS	0.136	
DimensionlessViscousSublayerThickness	All	Surface water	-0.136	
Kd	Hg2	Surface water	0.126	
Fractionofareaavailableforerosion	All	Soil - Surface	0.126	0.038
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.126	0.038
Methyl Mercury in Benthic Carnivore in River				
Methyl Mercury in Benthic Carnivore in River Property	Chemical	Object Name	Elasticity	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K	Chemical All	Object Name Surface water	Elasticity -1.592	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho	Chemical All All	Object Name Surface water Surface water	Elasticity -1.592 1.117	Sensitivity Score -1.590 0.056
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year	Chemical All All All	Object Name Surface water Surface water Surface water	Elasticity -1.592 1.117 -1.001	Sensitivity Score -1.590 0.056 -0.300
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	Chemical All All All All MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate	Elasticity -1.592 1.117 -1.001 1.000	Sensitivity Score -1.590 0.056 -0.300 3.000
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate	Chemical All All All MHg MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment	Elasticity -1.592 1.117 -1.001 1.000 -0.998	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood	Chemical All All All MHg MHg MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate	Chemical All All All All MHg MHg MHg Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg	Chemical All All All MHg MHg MHg MHg MHg MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate	Chemical All All All MHg MHg MHg MHg Hg2 MHg Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi	Chemical All All All MHg MHg MHg MHg Hg2 MHg Hg2 All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194 0.722
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration	Chemical All All All All MHg MHg MHg MHg Hg2 MHg Hg2 MHg Hg2 MHg Hg2 All All All Hg2 MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Carnivore Surface water	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194 0.722 -0.688 -0.158
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All All MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194 0.722 -0.688 -0.158
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration	Chemical All All All All MHg MHg MHg MHg Hg2 MHg Hg2 MHg Hg2 MHg Hg2 All All All Hg2 MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Carnivore Surface water	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527	Sensitivity Score -1.590 0.056 -0.300 3.000 -0.997 0.995 -0.975 0.909 -0.233 0.089 2.194 0.722 -0.688 -0.158
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All All Hg2 MHg Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion	Chemical All All All All MHg MHg MHg Hg2 MHg Hg2 All All All Hg2 All Hg2 MHg Hg2 All All Hg2 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd	Chemical All All All All MHg MHg MHg Hg2 MHg Hg2 All All All Hg2 All Hg2 MHg Hg2 All Hg2 MHg	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion	Chemical All All All MHg MHg MHg Hg2 All All Hg2 MHg MHg Hg2 All Hg2	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface water Soil - Surface Surface water	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Chemical All All All MHg MHg MHg Hg2 All All Hg2 MHg MHg Hg2 All All Hg2 All All All All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359 0.353	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter	Chemical All All All MHg MHg MHg Hg2 All All Hg2 MHg MHg Hg2 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface water Soil - Surface Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 0.359 0.353 0.353	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All Hg2 MHg MHg MHg MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface Benthic Omnivore Benthic Omnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 0.359 0.353 0.353 0.315	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho	Chemical All All All MHg MHg MHg Hg2 MHg Hg2 All All Hg2 MHg MHg MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Benthic Omnivore Surface water Soil - Surface Surface Benthic Omnivore Benthic Omnivore Sediment	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 0.359 0.353 0.353 0.315 0.302	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho SteadyState_AdvectiveTransfer	Chemical All All All Hg2 All Hg1 All Hg2 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Surface water Soil - Surface Surface water Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359 0.353 0.353 0.315 0.302 0.282 -0.254	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho SteadyState_AdvectiveTransfer NumberofFishperSquareMeter BW	Chemical All All All Hg2 All All Hg1 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Benthic Omnivore Benthic Carnivore Benthic Carnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359 0.353 0.353 0.315 0.302 0.282 -0.254 -0.160	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho SteadyState_AdvectiveTransfer NumberofFishperSquareMeter BW DemethylationRate	Chemical	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Carnivore Facility Benthic Carnivore Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Omnivore Sediment Link from Air, to Air Benthic Carnivore Benthic Carnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.353 0.353 0.353 0.315 0.302 0.282 -0.254 -0.160 -0.089	Sensitivity Score
Methyl Mercury in Benthic Carnivore in River Property WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg MethylationRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho SteadyState_AdvectiveTransfer NumberofFishperSquareMeter BW	Chemical All All All Hg2 All All Hg1 All All	Object Name Surface water Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Benthic Carnivore Sediment Sediment Sediment FullSS Divalent Mercury Benthic Carnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Benthic Omnivore Benthic Carnivore Benthic Carnivore	Elasticity -1.592 1.117 -1.001 1.000 -0.998 0.996 0.995 -0.975 0.910 -0.778 0.732 0.731 0.722 -0.688 -0.527 -0.370 -0.370 0.359 0.353 0.353 0.315 0.302 0.282 -0.254 -0.160	Sensitivity Score

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Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.989	0.349
WaterTemperature_K	All	Surface water	-2.999	-2.996
emissionRate	Hg2	Facility	0.993	0.993
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Benthic Carnivore	-0.991	-0.991
AssimilationEfficiencyFromFood	Hg2	Benthic Omnivore	0.983	0.982
SedimentPartitioning_PartitionCoefficient	Hg2	Benthic Invertebrate	0.980	2.940
AssimilationEfficiencyFromFood	Hg2	Benthic Carnivore	0.975	0.974
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Benthic Omnivore	-0.952	-0.952
phi	All	Sediment	-0.835	-0.250
Kd	Hg2	Surface water	0.794	0.794
Flushes_per_year	All	Surface water	-0.788	-0.236
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	
rho	All	Sediment	0.323	
ReductionRate	Hg2	Soil - Surface	-0.318	
rho	All	Soil - Surface	-0.318	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
ReductionRate	Hg2	Surface water	-0.200	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	0.277
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.193	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	-0.019
SuspendedSedimentconcentration	All	Surface water	-0.101	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	
Elemental Mercury in Benthic Carnivore in Sed_Swetts	All	Link Holli Ali, to Ali	0.147	0.023
	Chemical	Ohiect Name	Flasticity	Sensitivity Score
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Property WaterTemperature_K	All	Surface water	29.160	29.131
Property WaterTemperature_K rho	All All	Surface water Surface water	29.160 7.838	29.131 0.392
Property WaterTemperature_K rho phi	All All All	Surface water Surface water Sediment	29.160 7.838 -2.215	29.131 0.392 -0.665
Property WaterTemperature_K rho phi rho	All All All All	Surface water Surface water Sediment Sediment	29.160 7.838 -2.215 1.230	29.131 0.392 -0.665 0.062
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration	All All All All All	Surface water Surface water Sediment Sediment Surface water	29.160 7.838 -2.215 1.230 -1.072	29.131 0.392 -0.665 0.062 -0.322
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate	All All All All Hg0	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore	29.160 7.838 -2.215 1.230 -1.072 -1.010	29.131 0.392 -0.665 0.062 -0.322 -1.009
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate	All All All All All Hg0 Hg0	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Omnivore	29.160 7.838 -2.215 1.230 -1.072 -1.010 -1.010	29.131 0.392 -0.665 0.062 -0.322 -1.009
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood	All All All All All Hg0 Hg0 Hg0	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Omnivore Benthic Carnivore	29.160 7.838 -2.215 1.230 -1.072 -1.010 -1.010 1.000	29.131 0.392 -0.665 0.062 -0.322 -1.009 0.999
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood	All All All All All Hg0 Hg0 Hg0 Hg0	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Omnivore Benthic Carnivore Benthic Carnivore	29.160 7.838 -2.215 1.230 -1.072 -1.010 -1.000 0.999	29.131 0.392 -0.665 0.062 -0.322 -1.009 0.999
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient	All All All All All Hg0 Hg0 Hg0 Hg0 Hg0 Hg0	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Omnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate	All All All All All Hg0 Hg0 Hg0 Hg0 Hg0 Hg2	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Omnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity	All All All All All Hg0 Hg0 Hg0 Hg0 Hg0 Hg2 All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate	All All All All All Hg0 Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year	All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871 -0.239
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd	All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732
Property WaterTemperature_K rho phi phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain	All All All All All All Hg0 Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607	29.131 0.392 -0.665 0.062 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio	All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg1	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 0.324	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 0.097
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All All All All All All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.605 0.385 0.324 -0.318 -0.318	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.097 -0.317 -0.016
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All All All All Hg0 Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.605 0.385 0.324 -0.318 -0.318	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.097 -0.016 0.030 -0.025
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate OxidationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 0.025
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.999 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196 -0.195 -0.187	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021
Property WaterTemperature_K rho phi rho SuspendedSedimentconcentration OxidationRate OxidationRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Surface water Surface water Sediment Sediment Surface water Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	29.160 7.838 -2.215 1.230 -1.072 -1.010 1.000 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196	29.131 0.392 -0.665 0.062 -0.322 -1.009 -1.009 0.998 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.016 0.030 -0.025 -0.021 -0.023 -0.019

Methyl Mercury in Benthic Carnivore in Sed_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.960	0.348
WaterTemperature_K	All	Surface water	-1.086	-1.085
DemethylationRate	MHg	Sediment	-1.007	-1.006
SedimentPartitioning_PartitionCoefficient	MHg	Benthic Invertebrate	0.999	2.998
AssimilationEfficiencyFromFood	MHg	Benthic Omnivore	0.996	0.995
emissionRate	Hg2	Facility	0.993	0.993
MethylationRate	Hg2	Sediment	0.991	0.990
HowMuchFasterHgEliminationIsThanForMHg	MHg	Benthic Carnivore	-0.954	-0.954
phi	All	Sediment	-0.804	-0.241
Kd	Hg2	Surface water	0.790	0.790
Flushes_per_year	All	Surface water	-0.787	-0.236
AssimilationEfficiencyFromFood	MHg	Benthic Carnivore	0.731	0.730
HowMuchFasterHgEliminationIsThanForMHg	MHg	Benthic Omnivore	-0.667	-0.667
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Number of Fishper Square Meter	All	Benthic Omnivore	0.335	0.335
Fractionofareaavailableforerosion	All	Soil - Surface	0.333	0.097
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	0.097
ReductionRate ReductionRate	Hg2	Soil - Surface	-0.318	-0.318
	All	Soil - Surface	-0.318	-0.318
rho BW		Benthic Omnivore		
	All		0.318	0.095
rho	All	Sediment	0.302	0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
NumberofFishperSquareMeter	All	Benthic Carnivore	-0.216	-0.216
ReductionRate	Hg2	Surface water	-0.200	-0.200
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All All	Link from Air, to Air Link from Air, to Air	-0.196 -0.195	-0.021 -0.021
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property	All Chemical	Link from Air, to Air Object Name	-0.195	-0.021 Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho	All Chemical All	Cobject Name Surface water	-0.195 Elasticity 1.209	-0.021 Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year	All Chemical All All	Cobject Name Surface water Surface water	-0.195 Elasticity 1.209 -1.008	-0.021 Sensitivity Score 0.060 -0.302
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	All Chemical All All Hg2	Object Name Surface water Surface water Benthic Invertebrate	-0.195 Elasticity 1.209 -1.008 1.000	-0.021 Sensitivity Score 0.060 -0.302 3.000
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate	Chemical All All Hg2 Hg2	Object Name Surface water Surface water Benthic Invertebrate Facility	-0.195 Elasticity 1.209 -1.008 1.000 0.995	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi	Chemical All All Hg2 Hg2 All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain	Chemical All All Hg2 Hg2 All All All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi	Chemical All All Hg2 Hg2 All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain	Chemical All All Hg2 Hg2 All All All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio	Chemical All All Hg2 Hg2 All All Hg2	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration	Chemical All All Hg2 Hg2 All All Hg2 All All	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All Chemical All All Hg2 Hg2 All All Hg2 All All Hg2 All Hg2 All Hg1	Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 0.369	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate Senting TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate TotalErosionRate	All Chemical All All Hg2 Hg2 All All Hg2 All All Hg2 All Hg2 All Hg2	Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 0.369 -0.363	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate rho	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 0.369 -0.363 -0.363	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate rho rho	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg1 All Hg2	Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 0.369 -0.363 -0.363 0.361	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 0.018 -0.018
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.361 -0.251	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 0.018 -0.018
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All A	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.361 -0.251 -0.088	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 0.018 -0.027
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All Hg2	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.363 -0.363 -0.088	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 0.018 -0.027
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	All Chemical All All Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All All A	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Sediment Link from Air, to Air Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.361 -0.251 -0.088 0.076	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 0.018 -0.027 -0.011 0.023
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.361 -0.251 -0.088 0.076 -0.076	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 -0.027 -0.011 0.023 -0.008 -0.008
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All All All All All A	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Surface water Surface water Surface water Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.361 -0.251 -0.088 0.076 -0.076 -0.075	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.361 -0.251 -0.088 0.076 -0.075 -0.074 -0.059	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 -0.027 -0.011 0.023 -0.008 -0.008
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.076 -0.075 -0.074 -0.059 -0.056	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008 -0.008
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.075 -0.074 -0.059 -0.056 0.046	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008 -0.007
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Surface water Surface water Surface water Sind - Surface Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.075 -0.074 -0.059 -0.046 0.046	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008 -0.007 -0.007 -0.007
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 0.111 -0.363 -0.018 0.018 0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008 -0.007 -0.007 -0.007 -0.007
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All	Object Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037 0.037	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.363 -0.018 0.018 -0.023 -0.001 -0.008 -0.008 -0.008 -0.007 -0.007 -0.007 -0.005 -0.004
SteadyState_AdvectiveTransfer Divalent Mercury in Benthic Invertebrate in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient emissionRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho rho SteadyState_AdvectiveTransfer	All Chemical All All	Cobject Name Surface water Surface water Benthic Invertebrate Facility Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air	-0.195 Elasticity 1.209 -1.008 1.000 0.995 -0.895 0.732 0.731 -0.603 0.394 0.369 -0.363 -0.363 -0.363 -0.076 -0.076 -0.076 -0.075 -0.074 -0.059 -0.056 0.046 -0.043 -0.037	-0.021 Sensitivity Score 0.060 -0.302 3.000 0.995 -0.268 0.089 2.194 -0.181 0.394 0.111 -0.111 -0.363 -0.018 0.018 -0.027 -0.011 0.023 -0.008 -0.008 -0.008

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Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.399	0.070
phi	All	Sediment	-1.383	-0.415
SedimentPartitioning_PartitionCoefficient	Hg0	Benthic Invertebrate	1.000	3.000
Flushes_per_year	All	Surface water	-0.991	-0.297
rho	All	Sediment	0.683	0.034
emissionRate	Hg0	Facility	0.653	0.653
Kd	Hg0	Surface water	0.614	0.614
SuspendedSedimentconcentration	All	Surface water	-0.583	-0.175
HenryLawConstant	Hg0	Elemental Mercury	-0.512	-0.512
SedimentDepositionVelocity	All	Surface water	-0.380	
emissionRate	Hg2	Facility	0.347	
AirTemperature_K	All	FullSS	0.343	
ReductionRate	Hg2	Sediment	0.320	
D_purewater	Hg0	Elemental Mercury	0.297	0.089
Rain	All	FullSS	0.266	
VaporWashoutRatio	Hg2	Divalent Mercury	0.255	
CurrentVelocity	All	Surface water	0.241	0.041
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.197	
horizontalWindSpeed	All	FullSS	0.136	
Dimensionless Viscous Sublayer Thickness	All	Surface water	-0.136	
Kd	Hg2	Surface water	0.126	
Fractionofareaavailableforerosion	All	Soil - Surface	0.126	
		Soil - Surface		
TotalErosionRate_kg_m2_day	All		0.126	
ReductionRate	Hg2	Soil - Surface	-0.123	
rho	All	Soil - Surface	-0.123	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.118	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.117	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
Methyl Mercury in Benthic Invertebrate in River				
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Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.117	0.056
rho Flushes_per_year	All All	Surface water Surface water	1.117 -1.001	0.056 -0.300
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	All All MHg	Surface water Surface water Benthic Invertebrate	1.117 -1.001 1.000	0.056 -0.300 3.000
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate	All All MHg MHg	Surface water Surface water Benthic Invertebrate Sediment	1.117 -1.001 1.000 -0.998	0.056 -0.300 3.000 -0.997
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate	All All MHg MHg Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility	1.117 -1.001 1.000 -0.998 0.995	0.056 -0.300 3.000 -0.997 0.995
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate	All All MHg MHg Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment	1.117 -1.001 1.000 -0.998 0.995 0.910	0.056 -0.300 3.000 -0.997 0.995
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi	All All MHg MHg Hg2 Hg2 All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment	1.117 -1.001 1.000 -0.998 0.995 0.910	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain	All All MHg MHg Hg2 Hg2 All All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio	All All MHg MHg Hg2 Hg2 All All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration	All All MHg MHg Hg2 Hg2 All All Hg2 All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.158
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370	0.056 -0.300 3.000 -0.995 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.369
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370	0.056 -0.300 3.000 -0.995 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.369
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359	0.056 -0.300 3.000 -0.997 0.995 -0.233 0.085 2.194 -0.158 -0.369 -0.018
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359	0.056 -0.300 3.000 -0.997 0.995 -0.233 0.085 2.194 -0.158 -0.369 -0.018
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface Soil - Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359	0.056 -0.300 3.000 0.995 0.995 0.905 -0.233 0.085 2.194 -0.158 -0.365 -0.018 0.355 0.106
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353	0.056 -0.300 3.000 0.995 0.995 0.905 -0.233 0.085 2.194 -0.158 -0.365 -0.018 0.359 0.106 0.106
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg1 Hg2 All Hg1 Hg2 All Hg1 Hg2 All Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface Soil - Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.018 0.359 0.106 0.106 0.014 -0.028
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg1 Hg2 All Hg2 All Hg1 Hg2 All Hg2 All Hg2 All Hg1 Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.018 0.359 0.106 0.106 0.012 -0.028
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate	All All MHg MHg Hg2 Hg2 All All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 -0.359 0.353 0.353 0.282 -0.254 -0.089	0.056 -0.300 3.000 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.018 0.359 0.106 0.106 0.014 -0.028 -0.089
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate	All All MHg MHg Hg2 Hg2 All All Hg2	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Sediment Link from Air, to Air Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 -0.359 0.353 0.353 0.282 -0.254 -0.089 0.088	0.056 -0.300 3.000 -0.995 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.018 0.359 0.100 0.014 -0.028 -0.088 0.088
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Sediment Link from Air, to Air Soil - Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 0.282 -0.254 -0.089 0.088	0.056 -0.300 3.000 -0.995 0.995 0.909 -0.233 0.089 2.194 -0.158 -0.369 -0.011 0.100 0.014 -0.028 -0.089 0.088
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K	All All MHg MHg Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Sediment Link from Air, to Air Soil - Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254 -0.089 0.088 -0.088	0.056 -0.300 3.000 -0.997 0.995 0.905 -0.233 0.085 -0.158 -0.015 -0.016 0.100 0.100 -0.025 -0.089 -0.089 0.088
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Surface Soil - Surface	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254 -0.089 0.088 -0.082 0.078	0.056 -0.300 -0.997 -0.997 -0.998 -0.233 -0.088 -0.158 -0.158 -0.369 -0.018 -0.010 -0.008 -0.010 -0.010 -0.020 -0.089 -0.081 -0.081 -0.082 -0.082 -0.082
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 0.282 -0.254 -0.089 0.088 -0.082 0.078	0.056 -0.300 -0.995 0.995 0.995 -0.233 0.089 -0.158 -0.369 -0.018 0.359 0.100 0.100 -0.028 -0.089 -0.081 -0.089 -0.081 -0.080 -0.081 -0.082 -0.082 -0.082 -0.008
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.353 0.282 -0.254 -0.089 0.088 -0.088 -0.082 0.078	0.056 -0.300 -0.995 0.995 0.995 -0.233 0.089 -0.158 -0.158 -0.369 -0.018 0.100 0.100 0.100 -0.025 -0.089 -0.089 -0.089 -0.089 -0.019 -0.080 -0.080 -0.008
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254 -0.089 0.088 -0.088 -0.082 -0.075 -0.075 -0.074 0.068	0.056 -0.300 -0.995 0.995 0.995 -0.233 0.089 -0.158 -0.158 -0.369 -0.018 0.359 0.100 0.100 0.014 -0.028 -0.089 -0.018 -0.089 -0.019 -0.089 -0.008 -0.008 -0.008
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254 -0.089 0.088 -0.088 -0.082 0.078 -0.075 -0.074 0.068 -0.058	0.056 -0.300 -0.995 0.995 0.995 -0.233 0.089 -0.158 -0.158 -0.369 -0.018 0.359 0.100 0.100 0.100 -0.025 -0.089 -0.089 -0.019 -0.089 -0.089 -0.008
rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate emissionRate MethylationRate phi Rain VaporWashoutRatio SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho SteadyState_AdvectiveTransfer DemethylationRate MethylationRate SteadyState_AdvectiveTransfer WaterTemperature_K VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All MHg MHg Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Sediment Facility Sediment Sediment FullSS Divalent Mercury Surface water Soil - Surface Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air Surface water Soil - Surface Link from Air, to Air	1.117 -1.001 1.000 -0.998 0.995 0.910 -0.778 0.732 0.731 -0.527 -0.370 0.359 0.353 0.282 -0.254 -0.089 0.088 -0.088 -0.082 -0.075 -0.075 -0.074 0.068	0.056 -0.300 3.000 -0.995 0.995 0.905 -0.233 0.085 2.194 -0.158 -0.365 -0.018 0.355 0.106 0.106 0.012 -0.028 -0.089 -0.018 -0.089 -0.010 -0.080 -0.008

Divalent Mercury in Benthic Invertebrate in Sed_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.975	0.349
SedimentPartitioning_PartitionCoefficient	Hg2	Benthic Invertebrate	0.996	2.987
emissionRate	Hg2	Facility	0.993	0.993
phi	All	Sediment	-0.813	-0.244
Kd	Hg2	Surface water	0.795	0.795
Flushes_per_year	All	Surface water	-0.788	-0.236
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
WaterTemperature_K	All	Surface Water	-0.553	-0.553
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	0.097
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	0.097
ReductionRate	Hg2	Soil - Surface	-0.318	
rho	All	Soil - Surface	-0.318	
rho	All	Sediment Sediment	0.308	
	All	Link from Air, to Air	0.308	
SteadyState_AdvectiveTransfer		· ·		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
ReductionRate	Hg2	Surface water	-0.201	-0.200
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.187	-0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	-0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	0.023
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	-0.140
WaterColumnDissPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.140	-0.419
BiomassPerArea_kg_m2	All	Macrophyte	0.140	0.140
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Macrophyte	0.140	0.419
Elemental Mercury in Benthic Invertebrate in Sed_Swetts			_	
Property Property	Chemical	Object Name	Elasticity	Sensitivity Score
	Chemical All	Object Name Surface water	Elasticity 7.838	Sensitivity Score
Property		-	-	0.392
Property rho	All	Surface water	7.838	0.392 -0.665
Property rho phi	All All	Surface water Sediment	7.838 -2.215	0.392 -0.665 0.062
Property rho phi rho SuspendedSedimentconcentration	All All	Surface water Sediment Sediment	7.838 -2.215 1.230	0.392 -0.665 0.062 -0.322
Property rho phi rho	All All All All Hg0	Surface water Sediment Sediment Surface water	7.838 -2.215 1.230 -1.072	0.392 -0.665 0.062 -0.322
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate	All All All All Hg0 Hg2	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility	7.838 -2.215 1.230 -1.072 0.999 0.993	0.392 -0.665 0.062 -0.322 2.996 0.993
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity	All All All All Hg0 Hg2 All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate	All All All Hg0 Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year	All All All Hg0 Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd	All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Surface water	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.732
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K	All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water Surface water Surface water	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.732 -0.702
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water Surface water Surface water FullSS	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.732 -0.702
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water FullSS Divalent Mercury	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.732 -0.702
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All Hg2 All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605	0.392 -0.665 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.732 -0.702 0.074
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324	0.392 -0.665 0.066 -0.322 2.996 0.995 -0.281 0.871 -0.235 0.732 -0.702 0.074 1.815 0.043
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 0.324	0.392 -0.665 0.066 -0.322 2.996 0.995 -0.285 0.875 -0.702 0.074 1.815 0.045 0.095
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate TotalErosionRate TotalErosionRate ReductionRate	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318	0.392 -0.665 0.066 -0.322 2.996 0.995 -0.287 -0.235 0.732 -0.702 0.074 1.815 0.043 0.095 -0.317
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.662 -0.062 -0.322 2.996 0.993 -0.281 -0.232 -0.732 -0.702 -0.702 -0.074 -0.042 -0.097 -0.097 -0.311 -0.016
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.662 0.062 -0.322 2.996 0.993 -0.288 0.873 -0.239 0.732 -0.702 0.074 1.815 0.043 0.097 -0.317 -0.016
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232	0.392 -0.662 -0.062 -0.322 -0.996 -0.993 -0.281 -0.232 -0.702 -0.702 -0.074 -0.043 -0.043 -0.045 -0.031 -0.016 -0.036 -0.036 -0.025
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226	0.392 -0.662 0.062 -0.322 2.996 0.993 -0.281 0.873 -0.239 0.7732 -0.702 0.074 1.815 0.043 0.099 -0.317 -0.016 0.030 -0.022
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196	0.392 -0.663 -0.066 -0.322 -0.993 -0.28 -0.233 -0.732 -0.702 -0.093 -0.094 -0.095 -0.312 -0.016 -0.036 -0.022 -0.022
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196	0.392 -0.663 -0.066 -0.322 -0.992 -0.28 -0.233 -0.732 -0.702 -0.092 -0.022 -0.022 -0.022
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187	0.39: -0.66: 0.06: -0.32: 2.99: 0.99: -0.28: 0.87: -0.23: 0.73: -0.70: 0.07- 1.81: 0.04: 0.09: -0.31' -0.01: 0.03: -0.02: -0.02: -0.02: -0.02: -0.02:
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Sediment Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187 -0.167	0.39: -0.66: 0.06: -0.32: 2.990 0.99: -0.28 0.87 -0.23: 0.73: -0.70: 0.07- 1.81: 0.04: 0.09: -0.31' -0.01: 0.03: -0.02: -0.02: -0.02: -0.02: -0.02: -0.01:
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate ho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187	0.392 -0.662 -0.322 2.996 0.993 -0.28 0.87 -0.233 0.732 -0.702 0.074 1.811 0.044 0.099 -0.31' -0.016 0.030 -0.022 -0.022 -0.002 -0.019
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Sediment Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187 -0.167	0.392 -0.663 -0.362 -0.322 -0.993 -0.28 -0.233 -0.732 -0.702 -0.013 -0.022 -0.002 -0.002 -0.013 -0.016
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Sediment Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187 -0.161	0.392 -0.66: 0.066 -0.322 2.996 0.993 -0.28 0.87 -0.236 0.732 -0.702 0.074 1.812 0.044 0.099 -0.311 -0.016 0.030 -0.022 -0.002 -0.002 -0.019 -0.011 -0.016
Property rho phi rho SuspendedSedimentconcentration SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd WaterTemperature_K Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All All All Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Sediment Surface water Surface water Surface Water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 0.999 0.993 -0.938 0.872 -0.796 0.732 -0.702 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.187 -0.161 0.147	0.392 -0.662 0.062 -0.322 2.996 0.993 -0.281 0.871 -0.239 0.773 -0.702 0.074 1.812 0.043 0.097 -0.317 -0.016 0.030 -0.022 -0.022 -0.022 -0.021 -0.018 0.032

Property				
in a Marail	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.960	0.348
DemethylationRate	MHg	Sediment	-1.007	-1.006
SedimentPartitioning_PartitionCoefficient	MHg	Benthic Invertebrate	0.999	2.998
emissionRate	Hg2	Facility	0.993	0.993
MethylationRate	Hg2	Sediment	0.991	0.990
phi	All	Sediment	-0.804	-0.241
Kd	Hg2	Surface water	0.790	0.790
Flushes_per_year	All	Surface water	-0.787	-0.236
WaterTemperature_K	All	Surface Water	-0.608	-0.607
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	0.097
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	0.097
ReductionRate	Hg2	Soil - Surface	-0.318	-0.318
rho	All	Soil - Surface	-0.318	
rho	All	Sediment	0.302	0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.232	
ReductionRate	Hg2	Surface water	-0.200	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.200	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.195	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.193	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	
WaterColumnDissPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	-0.141	
Divalent Mercury in Benthic Omnivore in River	пдо	Wacrophyte	-0.140	-0.419
I Property	Chemical	Object Name	Flasticity	Sensitivity Score
Property WaterTemperature K	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface Water	-1.378	-1.377
WaterTemperature_K rho	All All	Surface Water Surface water	-1.378 1.210	-1.377 0.061
WaterTemperature_K rho Flushes_per_year	All All All	Surface Water Surface water Surface water	-1.378 1.210 -1.008	-1.377 0.061 -0.302
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	All All All Hg2	Surface Water Surface water Surface water Benthic Invertebrate	-1.378 1.210 -1.008 0.994	-1.377 0.061 -0.302 2.983
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All All All Hg2 Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore	-1.378 1.210 -1.008 0.994 0.994	-1.377 0.061 -0.302 2.983 0.993
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate	All All Hg2 Hg2 Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility	-1.378 1.210 -1.008 0.994 0.994	-1.377 0.061 -0.302 2.983 0.993
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg	All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966	-1.377 0.061 -0.302 2.983 0.993 0.991
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi	All All Hg2 Hg2 Hg2 Hg2 Hg2 All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain	All All All Hg2 Hg2 Hg2 Hg2 All All All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio	All All Hg2 Hg2 Hg2 Hg2 All All All Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration	All All Hg2 Hg2 Hg2 Hg2 All All All All All All All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 0.729	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd	All All All Hg2 Hg2 Hg2 Hg2 All All All Hg2 All Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 0.729 -0.603 0.392	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion	All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 0.729 -0.603 0.392	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg1 All All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All Hg2 All All All All All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho	All All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg1 All Hg2 All All All All All All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment Soil - Surface Sediment Soil - Surface	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.363 -0.362	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate	All All Hg2 Hg2 Hg2 Hg2 All All Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment Soil - Surface Sediment Soil - Surface Soil - Surface	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Sediment Soil - Surface Sediment Soil - Surface Sediment Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 0.363 -0.362 -0.362 -0.251	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.018
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Sediment Soil - Surface Link from Air, to Air Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.362 -0.087	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.0361 -0.027
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.363 -0.362 -0.362 -0.251 -0.087	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.018 -0.018 -0.018
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day	All All Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All Hg2 All All Hg2 All All Hg2 All Hg2 All Hg2	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Soil - Surface	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.087 0.085	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.025
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All Hg2 All All All All All All All All All Al	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Soil - Surface Link from Air, to Air	-1.378 -1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.010 0.018 -0.018 -0.027 -0.011 0.025
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All Hg2 Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.251 -0.087 0.076 -0.076	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.018 -0.018 -0.018 -0.019 -0.010 -0.010 -0.010 -0.025 -0.0023 -0.008
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076 -0.075	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.116 0.018 -0.018 -0.027 -0.001 0.022 -0.008
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.251 -0.087 0.076 -0.075 -0.075	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.116 0.018 -0.018 -0.025 -0.007 -0.008
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Benthic Omnivore Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.087 0.085 0.076 -0.075 -0.059	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.025 0.023 -0.008 -0.008 -0.008
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.994 -0.996 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.087 -0.087 -0.075 -0.075 -0.056 -0.047	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.025 -0.002 -0.008 -0.008 -0.008
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.994 0.991 -0.966 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.056 -0.075 -0.075 -0.059 -0.047 0.046	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.025 -0.0023 -0.008 -0.008 -0.008 -0.007
WaterTemperature_K rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg phi Rain VaporWashoutRatio SuspendedSedimentconcentration Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho rho ReductionRate SteadyState_AdvectiveTransfer	All	Surface Water Surface water Surface water Benthic Invertebrate Benthic Omnivore Facility Benthic Omnivore Sediment FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.378 1.210 -1.008 0.994 0.994 0.994 -0.996 -0.897 0.729 -0.603 0.392 0.368 0.368 -0.362 -0.362 -0.087 -0.087 -0.075 -0.075 -0.056 -0.047	-1.377 0.061 -0.302 2.983 0.993 0.991 -0.966 -0.269 0.089 2.186 -0.181 0.392 0.110 0.110 0.018 -0.018 -0.018 -0.027 -0.011 0.025 0.023 -0.008 -0.008 -0.008 -0.008 -0.007 -0.007

Elemental Mercury in Benthic Omnivore in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface Water	16.110	16.094
rho	All	Surface water	1.399	0.070
phi	All	Sediment	-1.383	-0.415
OxidationRate	Hg0	Benthic Omnivore	-1.010	-1.009
SedimentPartitioning_PartitionCoefficient	Hg0	Benthic Invertebrate	1.000	3.000
AssimilationEfficiencyFromFood	Hg0	Benthic Omnivore	0.999	0.998
Flushes_per_year	All	Surface water	-0.991	-0.297
rho	All	Sediment	0.683	0.034
emissionRate	Hg0	Facility	0.653	0.653
Kd	Hg0	Surface water	0.614	0.614
SuspendedSedimentconcentration	All	Surface water	-0.583	-0.175
HenryLawConstant	Hg0	Elemental Mercury	-0.512	-0.512
SedimentDepositionVelocity	All	Surface water	-0.380	-0.114
emissionRate	Hg2	Facility	0.347	0.347
AirTemperature_K	All	FullSS	0.343	0.000
ReductionRate	Hg2	Sediment	0.320	0.319
D_purewater	Hg0	Elemental Mercury	0.297	0.089
Rain	All	FullSS	0.266	0.033
VaporWashoutRatio	Hg2	Divalent Mercury	0.255	0.764
CurrentVelocity	All	Surface water	0.241	0.041
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.197	-0.021
BW	All	Benthic Omnivore	-0.152	-0.045
horizontalWindSpeed	All	FullSS	0.136	0.136
Dimensionless Viscous Sublayer Thickness	All	Surface water	-0.136	-0.041
Kd	Hg2	Surface water	0.126	0.126
Fractionofareaavailableforerosion	All	Soil - Surface	0.126	
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.126	0.038
ReductionRate ReductionRate		Soil - Surface	-0.123	-0.123
	Hg2			
rho	All	Soil - Surface	-0.123	-0.006
rho SteadyState_AdvectiveTransfer				
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River	All All	Soil - Surface Link from Air, to Air	-0.123 -0.118	-0.006 -0.013
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property	All All Chemical	Soil - Surface Link from Air, to Air Object Name	-0.123 -0.118 Elasticity	-0.006 -0.013 Sensitivity Score
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho	All Chemical All	Soil - Surface Link from Air, to Air Object Name Surface water	-0.123 -0.118 Elasticity	-0.006 -0.013 Sensitivity Score
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year	All All Chemical All All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water	-0.123 -0.118 Elasticity	-0.006 -0.013 Sensitivity Score
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	All All Chemical All All MHg	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate	-0.123 -0.118 Elasticity 1.117 -1.001	-0.006 -0.013 Sensitivity Score 0.056 -0.3
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate	All All Chemical All All MHg MHg	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood	All All Chemical All All MHg MHg MHg	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate	All All Chemical All All All MHg MHg MHg Hg2	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate	All All All All All All MHg MHg MHg Hg2 Hg2	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi	All All All All All All MHg MHg MHg Hg2 Hg2 All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain	All All All All All All MHg MHg MHg Hg2 Hg2 All All All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio	All All All All All All MHg MHg MHg AHg2 Hg2 All All All Hg2	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg	All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 MHg	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K	All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 MHg	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration	All All All All All All All MHg MHg MHg Hg2 Hg2 All All All All All All All All All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate	All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 MHg All Hg2	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho	All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 MHg Hg2 All All Hg2 All All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd	All All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 All All Hg2 All Hg2 All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface Water Soil - Surface Soil - Surface Surface water	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion	All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 All All Hg2 All Hg2 All All Hg2 All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface Water Surface water Soil - Surface Surface water Soil - Surface Surface water Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.359	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter	All All All All All All All All All MHg MHg MHg Hg2 Hg2 All All All Hg2 All All Hg2 All All Hg2 All All Hg2 All Hg2 All All Hg1	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface water Soil - Surface Soil - Surface Surface water Soil - Surface Benthic Omnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353 0.353	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface water Soil - Surface Benthic Omnivore Benthic Omnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353 0.353 0.315	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106 0.106 0.315
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353 0.353 0.315 0.302 0.282	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106 0.106 0.315 0.091
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353 0.353 0.315	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106 0.106 0.315 0.091
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 0.359 0.353 0.353 0.315 0.302 0.282	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106 0.106 0.106 0.315 0.091
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.359 0.353 0.353 0.315 0.302 0.282 -0.281	-0.006 -0.013 Sensitivity Score 0.056 -0.3 -0.995 0.995 0.995 0.908 -0.233 0.089 -0.158 -0.688 -0.557 -0.158 -0.369 0.106 0.106 0.106 0.315 0.091 0.014 -0.28
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Benthic Carnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.359 0.353 0.353 0.315 0.302 0.282 -0.281 -0.281	-0.006 -0.013 Sensitivity Score 0.056 -0.3 -0.997 0.995 0.905 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.018 0.359 0.106 0.106 0.315 0.091 0.014 -0.28 -0.281 -0.028
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter SteadyState_AdvectiveTransfer	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Omnivore Benthic Omnivore Benthic Omnivore Benthic Carnivore Benthic Carnivore Link from Air, to Air	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.353 0.353 0.353 0.315 0.302 0.282 -0.281 -0.254	-0.006 -0.013 Sensitivity Score 0.056 -0.3 -0.995 0.995 0.995 0.908 -0.233 0.088 -0.158 -0.158 -0.158 -0.369 -0.018 0.315 0.091 0.014 -0.28 -0.281 -0.028 -0.072
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter SteadyState_AdvectiveTransfer BW	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore Link from Air, to Air Benthic Carnivore	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.353 0.353 0.353 0.315 0.302 0.282 -0.281 -0.281 -0.254 -0.239	-0.006 -0.013 Sensitivity Score 0.056 -0.3 -0.995 0.995 0.995 0.909 -0.233 0.089 -0.158 -0.688 -0.557 -0.118 0.0315 0.106 0.106 0.315 0.091 0.014 -0.28 -0.281 -0.028 -0.072 -0.089
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter SteadyState_AdvectiveTransfer BW DemethylationRate MethylationRate MethylationRate MethylationRate MethylationRate	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore Benthic Carnivore Link from Air, to Air Benthic Carnivore Soil - Surface Soil - Surface	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.359 0.353 0.353 0.315 0.302 0.282 -0.281 -0.281 -0.254 -0.239 -0.089	-0.006 -0.013 Sensitivity Score 0.056 -0.3 -0.997 0.995 0.995 0.909 -0.233 0.089 -0.158 -0.688 -0.557 -0.118 0.0315 0.0106 0.1106 0.106 0.1016 0.1016 0.281 -0.281 -0.028 -0.072 -0.089
rho SteadyState_AdvectiveTransfer Methyl Mercury in Benthic Omnivore in River Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter SteadyState_AdvectiveTransfer BW DemethylationRate	All	Soil - Surface Link from Air, to Air Object Name Surface water Surface water Benthic Invertebrate Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Surface water Link from Air, to Air Benthic Carnivore Soil - Surface Soil - Surface Sediment	-0.123 -0.118 Elasticity 1.117 -1.001 1 -0.998 0.996 0.995 0.91 -0.778 0.732 0.731 -0.688 -0.558 -0.527 -0.37 -0.37 0.359 0.353 0.315 0.302 0.282 -0.281 -0.281 -0.254 -0.239 -0.089 0.088	-0.006 -0.013 Sensitivity Score 0.056 -0.3 3 -0.997 0.995 0.995 0.909 -0.233 0.089 2.194 -0.688 -0.557 -0.158 -0.369 -0.018 0.359 0.106 0.106

Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.989	0.349
WaterTemperature_K	All	Surface Water	-1.618	-1.616
emissionRate	Hg2	Facility	0.993	0.993
AssimilationEfficiencyFromFood	Hg2	Benthic Omnivore	0.983	0.982
SedimentPartitioning_PartitionCoefficient	Hg2	Benthic Invertebrate	0.980	2.940
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Benthic Omnivore	-0.952	-0.952
phi	All	Sediment	-0.835	-0.250
Kd	Hg2	Surface water	0.794	
Flushes_per_year	All	Surface water	-0.788	
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	
rho	All	Sediment	0.324	0.016
		Soil - Surface		
ReductionRate	Hg2		-0.318	
rho	All	Soil - Surface	-0.318	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
ReductionRate	Hg2	Surface water	-0.200	-0.199
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.187	-0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161	-0.018
SuspendedSedimentconcentration	All	Surface water	-0.151	-0.045
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.147	0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	0.023
AllowExchange_SteadyState_forAir	All	Leaf - Coniferous Forest	-0.141	-0.140
Elemental Mercury in Benthic Omnivore in Sed_Swetts			•	
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	C C XX	_	
	All	Surface Water	15.540	15.524
rho	All	Surface water Surface water	15.540 7.838	
				0.392
rho phi rho	All	Surface water Sediment	7.838	0.392 -0.665
phi rho	All All All	Surface water	7.838 -2.215 1.230	0.392 -0.665 0.062
phi rho SuspendedSedimentconcentration	All All All All	Surface water Sediment Sediment Surface water	7.838 -2.215 1.230 -1.072	0.392 -0.665 0.062 -0.322
phi rho SuspendedSedimentconcentration OxidationRate	All All All Hg0	Surface water Sediment Sediment Surface water Benthic Omnivore	7.838 -2.215 1.230 -1.072 -1.010	0.392 -0.665 0.062 -0.322 -1.009
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood	All All All All Hg0 Hg0	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore	7.838 -2.215 1.230 -1.072 -1.010 0.999	0.392 -0.665 0.062 -0.322 -1.009 0.998
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient	All All All All Hg0 Hg0 Hg0	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate	All All All All Hg0 Hg0 Hg0 Hg2	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity	All All All All Hg0 Hg0 Hg0 Hg2 All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate	All All All All Hg0 Hg0 Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year	All All All All Hg0 Hg0 Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd	All All All All Hg0 Hg0 Hg2 All Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water Surface water	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain	All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio	All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All All All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 0.324	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg1 All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All All All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.097
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate ReductionRate TotalErosionRate TotalErosionRate ReductionRate ReductionRate ReductionRate ReductionRate	All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 -0.998 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.097
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All All All All Hg0 Hg0 Hg0 Hg2 All All All All All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All Hg0 Hg0 Hg0 Hg2 All All All All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.732 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All All All All Hg0 Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.072 1.815 0.045 0.097 -0.317 -0.016 0.030 -0.025
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All All All All All Algo Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196	0.392 -0.662 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.232 0.072 1.815 0.042 0.099 -0.317 -0.016 0.030 -0.022
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All All All All Algo Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Facility Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.072 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All All All All All Algo Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196 -0.195	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.072 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All All All All All Algo Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 -0.270 -0.232 0.226 -0.196 -0.195 -0.167	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.239 0.074 1.815 0.043 0.097 -0.016 0.030 -0.025 -0.021 -0.021 -0.021
phi rho SuspendedSedimentconcentration OxidationRate AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient emissionRate SedimentDepositionVelocity ReductionRate Flushes_per_year Kd Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate ho SteadyState_AdvectiveTransfer	All All All All All All All All All Algo Hg0 Hg0 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Sediment Surface water Benthic Omnivore Benthic Omnivore Benthic Invertebrate Facility Surface water Sediment Surface water Sediment Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	7.838 -2.215 1.230 -1.072 -1.010 0.999 0.999 0.993 -0.938 0.872 -0.796 0.732 0.607 0.605 0.385 0.324 -0.318 -0.318 0.270 -0.232 0.226 -0.196 -0.195	0.392 -0.665 0.062 -0.322 -1.009 0.998 2.996 0.993 -0.281 0.871 -0.235 0.074 1.815 0.043 0.097 -0.317 -0.016 0.030 -0.025 -0.021 -0.021 -0.021 -0.018

Methyl Mercury in Benthic Omnivore in Sed_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.960	0.348
DemethylationRate	MHg	Sediment	-1.007	-1.006
SedimentPartitioning_PartitionCoefficient	MHg	Benthic Invertebrate	0.999	2.998
AssimilationEfficiencyFromFood	MHg	Benthic Omnivore	0.996	0.995
emissionRate	Hg2	Facility	0.993	0.993
MethylationRate	Hg2	Sediment	0.991	0.990
phi	All	Sediment	-0.804	-0.241
Kd	Hg2	Surface water	0.790	0.790
Flushes_per_year	All	Surface water	-0.787	-0.236
HowMuchFasterHgEliminationIsThanForMHg	MHg	Benthic Omnivore	-0.667	-0.66
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
WaterTemperature_K	All	Surface Water	-0.499	-0.499
<u> </u>	All	Link from Air, to Air	0.385	
SteadyState_AdvectiveTransfer		· ·		0.043
NumberofFishperSquareMeter	All	Benthic Omnivore	0.335	0.335
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	0.09
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	0.09
ReductionRate	Hg2	Soil - Surface	-0.318	-0.318
rho	All	Soil - Surface	-0.318	-0.016
BW	All	Benthic Omnivore	0.318	0.095
rho	All	Sediment	0.302	0.015
AssimilationEfficiencyFromFood	MHg	Benthic Carnivore	-0.272	-0.272
NumberofFishperSquareMeter	All	Benthic Carnivore	-0.272	-0.272
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
BW	All	Benthic Carnivore	-0.231	-0.069
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	0.025
		C C	0.200	-0.200
ReductionRate	Hg2	Surface water	-0.200	-0.200
	Hg2 All	Link from Air, to Air	-0.200 -0.196	
SteadyState_AdvectiveTransfer				-0.200 -0.021 -0.021
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air Link from Air, to Air	-0.196 -0.195	-0.021
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River	All All	Link from Air, to Air	-0.196 -0.195	-0.02 -0.02
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho	All All Chemical	Link from Air, to Air Link from Air, to Air Object Name	-0.196 -0.195 Elasticity	-0.02 -0.02 Sensitivity Score
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property	All All Chemical All All	Link from Air, to Air Link from Air, to Air Object Name Surface water	-0.196 -0.195 Elasticity 1.153	-0.02 -0.02 Sensitivity Score 0.058 -1.018
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate	All All Chemical All All Hg2	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010	-0.02 -0.02 Sensitivity Score 0.058 -1.018 -3.030
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year	All All Chemical All All Hg2 All	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990	-0.02 -0.02 -0.02 Sensitivity Score -1.018 -3.030 -0.29
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate	All All Chemical All All Hg2 All All All	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984	-0.02 -0.02 Sensitivity Score 0.053 -1.013 -3.030 -0.29 0.29
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate	All All All All Hg2 All Hg2	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978	-0.02 -0.02 Sensitivity Score 0.058 -1.018 -3.030 -0.29' 0.29: 0.978
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi	All All Chemical All All Hg2 All All Hg2 All All All Hg2 All	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834	-0.02 -0.02 Sensitivity Score 0.053 -1.013 -3.030 -0.29 0.299 0.978 -0.250
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain	All All All All All Hg2 All All Hg2 All All All Hg2 All All All	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719	-0.02 -0.02 Sensitivity Score 0.053 -1.013 -3.036 -0.297 0.299 0.978 -0.256 0.088
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio	All All All All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719	-0.02 -0.02 -0.02 -0.02 -0.05 -1.013 -3.036 -0.29 0.299 0.978 -0.256 0.088 2.158
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood	All All All All All All Hg2 All Hg2 All Hg2 Hg2 All Hg2 Hg2	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.013 -3.036 -0.29 -0.29 -0.29 -0.256 -0.088 -0.155 -0.57
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface Water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.013 -3.036 -0.29 -0.29 -0.256 -0.088 -0.155 -0.57 -1.708
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property tho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All All All All All All All Hg2 All All Hg2 All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface Water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -0.25 -0.57 -1.70 -0.56
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration	All All All All All All All Hg2 All All Hg2 All Hg2 Hg2 All Hg2 Hg2 Hg2 Hg2 All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -0.25 -0.57 -1.70 -0.56 -0.16
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property tho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg	All All All All All All All All Hg2 All All Hg2 All Hg2 All All Hg2 All Hg2	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Omnivore	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.553	-0.02 -0.02 -0.02 -0.02 -0.05 -1.018 -3.03(-0.29 -0.29 -0.25(-0.088 -1.708 -0.57 -1.708 -0.56(-0.169 -0.55(
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property tho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Omnivore Benthic Invertebrate	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01: -3.03: -0.29 -0.29: -0.25: -0.08 -1.70: -0.56: -0.16: -0.55: 1.23:
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Omnivore Benthic Invertebrate Common Loon	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01: -3.03: -0.29 -0.29: -0.25: -0.08: -1.70: -0.57 -1.70: -0.56: -0.16: -0.55: -1.23: -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Benthic Omnivore Benthic Invertebrate Common Loon Benthic Invertebrate	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.410	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -0.16 -0.16 -0.55 -0.16 -0.55 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Benthic Omnivore Sediment Sediment	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -0.16 -0.57 -0.56 -0.16 -0.55 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Benthic Omnivore Surface water Senthic Invertebrate Common Loon Benthic Invertebrate Common Loon Benthic Sediment	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374	-0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.17 -0.56 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate MethylationRate	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Benthic Omnivore Sediment Sediment	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374 0.373	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.56 -0.16 -0.55 -1.23 -0.41 -0.41 -0.41 -0.37
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Common Loon Benthic Invertebrate Surface water Sediment Sediment Sediment Surface water Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360	-0.02 -0.02 Sensitivity Score 0.05 -1.01 -3.03 -0.29 0.29 0.97 -0.25 0.08 2.15 0.57 1.70 -0.56 -0.16 -0.55 1.23 0.41 0.41 -0.41 0.37 0.37 -0.35
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Sediment Sediment Sediment Surface water	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.360	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.56 -0.16 -0.55 -0.41 -0.41 -0.41 -0.41 -0.37 -0.35
SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Common Loon Benthic Invertebrate Surface water Sediment Sediment Sediment Surface water Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360	-0.02 -0.02 Sensitivity Score 0.05 -1.01 -3.03 -0.29 0.29 0.97 -0.25 0.08 2.15 0.57 1.70 -0.56 -0.16 -0.55 1.23 0.41 0.41 -0.41 0.37 0.37 -0.35
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Sediment Sediment Surface water Soil - Surface Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.553 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.360	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.56 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.37 -0.35 -0.01 -0.10
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Soli - Surface Soil - Surface Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.719 0.572 0.569 -0.563 -0.569 -0.563 -0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.360 0.356	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.55 -0.16 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood DemethylationEfficiencyFromFood AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.569 -0.563 -0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.360 0.356	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.55 -0.16 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho HowMuchFasterHgEliminationIsThanForMHg	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Surface water Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.569 -0.563 -0.412 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.366 0.356 0.324 -0.284	-0.02 -0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.55 -0.16 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho HowMuchFasterHgEliminationIsThanForMHg SteadyState_AdvectiveTransfer	All	Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Common Loon Benthic Invertebrate Common Loon Surface water Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.569 -0.563 -0.412 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.360 0.356 0.356 0.324 -0.284 -0.254	-0.02 -0.02 -0.02 -0.02 -0.05 -1.01 -3.03 -0.29 -0.29 -0.25 -0.08 -1.70 -0.55 -0.16 -0.16 -0.55 -0.16 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41 -0.41
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Divalent Mercury in Common Loon in River Property rho WaterTemperature_K TotalExcretionRate Flushes_per_year FoodIngestionRate emissionRate phi Rain VaporWashoutRatio AssimilationEfficiencyFromFood SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood SuspendedSedimentconcentration HowMuchFasterHgEliminationIsThanForMHg SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood DemethylationRate MethylationRate Kd ReductionRate rho Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho HowMuchFasterHgEliminationIsThanForMHg	All	Link from Air, to Air Link from Air, to Air Link from Air, to Air Object Name Surface water Surface Water Common Loon Surface water Common Loon Facility Sediment FullSS Divalent Mercury Common Loon Benthic Invertebrate Benthic Omnivore Surface water Benthic Invertebrate Common Loon Benthic Invertebrate Surface water Surface water Soil - Surface	-0.196 -0.195 Elasticity 1.153 -1.019 -1.010 -0.990 0.984 0.978 -0.834 0.719 0.572 0.569 -0.563 -0.569 -0.563 -0.412 0.412 0.412 0.410 -0.410 0.374 0.373 -0.360 -0.366 0.356 0.324 -0.284	-0.02 -0.02 Sensitivity Score 0.05 -1.01 -3.03 -0.29 0.29 0.97 -0.25 0.08 2.15 0.57 1.70 0.56 -0.16 -0.55 1.23 0.41 0.41 -0.41 0.37 0.37 -0.35 -0.01

Elemental Mercury in Common Loon in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
InhalationProps_B	All	Common Loon	1.126	0.338
InhalationAssimilationEfficiency	Hg0	Common Loon	0.997	0.299
InhalationProps_A	All	Common Loon	0.997	0.299
emissionRate	Hg0	Facility	0.995	0.995
OxidationRate	Hg0	Common Loon	-0.962	-0.961
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.524	-0.061
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.412	0.058
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.382	-0.042
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.306	-0.034
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.229	0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.208	-0.024
BW	All	Common Loon	-0.202	-0.060
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.190	0.023
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.155	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.131	0.019
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.113	-0.014
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.105	-0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.100	0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.097	0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.090	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.080	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.075	0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.073	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.070	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.069	0.011
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.061	-0.008
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.060	0.005
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.058	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.057	-0.006
Mothed Monorary in Compress I in Dis-				
Methyl Mercury in Common Loon in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
	Chemical All	Surface water	Elasticity 1.116	•
Property rho Flushes_per_year			-	0.056
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient	All All MHg	Surface water Surface water Benthic Invertebrate	1.116 -1.001 0.999	0.056 -0.300 2.997
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All All MHg MHg	Surface water Surface water Benthic Invertebrate Common Loon	1.116 -1.001 0.999 0.998	0.056 -0.300 2.997 0.997
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate	All All MHg MHg All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon	1.116 -1.001 0.999 0.998 0.998	0.056 -0.300 2.997 0.997
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate	All MHg MHg All MHg All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment	1.116 -1.001 0.999 0.998 0.998 -0.997	0.056 -0.300 2.997 0.997 0.299
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood	All All MHg MHg All MHg All MHg	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995	0.056 -0.300 2.997 0.997 0.299 -0.996
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate	All All MHg MHg All MHg HHg	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate	All All MHg MHg All MHg HHg Hg2 Hg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi	All All MHg MHg All MHg HHg All HHg All AHg AHg AHg AHg AHg AHg AHg AHg2 All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain	All All MHg MHg All MHg Hg2 Hg2 All All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 All All Hg2 MHg MHg	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 All All Hg2 MHg MHg MHg	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.491
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate DemethylationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg MHg Hg2 HHg2 HHg2 MHG HHg2 HHg2 HHg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.513 -0.491 -0.369
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg MHg Hg2 All Hg2 MHg Hg2 All All Hg2 All All All Hg2 All All All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Soil - Surface	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 -0.370	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.513 -0.491 -0.369 -0.018
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg Hg2 All Hg2 All Hg2 All Hg2 Hg2 All Hg2 Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface Surface Surface water	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.513 -0.491 -0.369 -0.018
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate DemethylationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 Hg2 All All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Surface water Soil - Surface Surface water	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.369 -0.018 0.359 0.106
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All Hg2 All All HHg2 All All HHg2 All All All HHg2 All All All All All All All Hg2 All All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Surface water Surface water Soil - Surface Surface Soil - Surface Soil - Surface Soil - Surface	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.0491 -0.369 -0.018 0.359 0.106
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All Hg2 All All HHg2 All All All HHg1 All HHg2 All All All HHg1 All HHg2 All HJ1 All HJ2 All HJ3	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Surface Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.369 -0.018 0.359 0.106 0.106
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate tho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All Hg2 All All All All All All Hg1 All Hg2 All All All All Hg1 All Hg2 All All All Hg2 All Hg2 All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Benthic Omnivore Benthic Omnivore	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353 0.315 0.301	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.359 0.106 0.106 0.106 0.315
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All Hg2 All All All All All Hg1 All Hg2 All All All All Hg2 All All Hg2 All All Hg1 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Soil - Surface Surface water Soil - Surface	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353 0.315 0.301 0.282	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.369 0.0359 0.106 0.106 0.106 0.315 0.090
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate DemethylationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All Hg2 All All All All Hg1 Hg2 All All MHg MHg MHg MHg MHg MHg MHg MHg Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Soil - Surface Surface water Soil - Surface	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353 0.315 0.301 0.282 -0.280	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.369 -0.018 0.359 0.106 0.106 0.106 0.315 0.090 0.014
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All Hg2 All All All Hg1 Hg2 All All Hg2 All Hg2 All Hg2 All Hg1 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore	1.116 -1.001 0.999 0.998 0.998 -0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353 0.315 0.301 0.282 -0.280 -0.280	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.369 0.0016 0.315 0.090 0.014 -0.280 -0.280
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter SteadyState_AdvectiveTransfer	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All All All Hg2 Hg2 All All All MHg MHg Hg2 All All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Comnivore Surface water Common Loon Common Loon Common Loon Common Loon Soil - Surface Soil - Surface Soil - Surface Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore Link from Air, to Air	1.116 -1.001 0.999 0.998 0.998 -0.997 0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 -0.370 0.353 0.353 0.315 0.301 0.282 -0.280 -0.254	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.159 0.0106 0.315 0.090 0.014 -0.280 -0.280 -0.028
Property rho Flushes_per_year SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood FoodIngestionRate DemethylationRate AssimilationEfficiencyFromFood emissionRate MethylationRate MethylationRate phi Rain VaporWashoutRatio HowMuchFasterHgEliminationIsThanForMHg WaterTemperature_K SuspendedSedimentconcentration DemethylationRate TotalExcretionRate ReductionRate rho Kd Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day NumberofFishperSquareMeter BW rho AssimilationEfficiencyFromFood NumberofFishperSquareMeter	All All MHg MHg All MHg MHg Hg2 Hg2 All All Hg2 MHg All Hg2 All All Hg2 All All All Hg1 Hg2 All All Hg2 All Hg2 All Hg2 All Hg1 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Benthic Invertebrate Common Loon Common Loon Sediment Benthic Omnivore Facility Sediment Sediment FullSS Divalent Mercury Benthic Omnivore Surface Water Surface water Common Loon Common Loon Soil - Surface Surface water Soil - Surface Surface water Soil - Surface Benthic Omnivore Benthic Carnivore Benthic Carnivore	1.116 -1.001 0.999 0.998 0.998 -0.995 0.995 0.909 -0.777 0.732 0.731 -0.687 -0.558 -0.527 -0.514 -0.491 -0.370 0.359 0.353 0.353 0.315 0.301 0.282 -0.280 -0.280	0.056 -0.300 2.997 0.997 0.299 -0.996 0.994 0.995 0.908 -0.233 0.089 2.194 -0.687 -0.558 -0.158 -0.158 -0.159 0.0090 0.106 0.315 0.090 0.014 -0.280 -0.280 -0.028

Divalent Mercury in Common Loon in SW_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.977	0.349
WaterTemperature_K	All	Surface Water	-1.177	-1.176
TotalExcretionRate	Hg2	Common Loon	-1.010	-3.030
FoodIngestionRate	All	Common Loon	0.998	0.299
emissionRate	Hg2	Facility	0.993	0.993
phi	All	Sediment	-0.822	-0.247
Kd	Hg2	Surface water	0.792	0.792
Flushes_per_year	All	Surface water	-0.788	-0.236
Rain	All	FullSS	0.607	0.074
AssimilationEfficiencyFromFood	Hg2	Common Loon	0.605	
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	
AssimilationEfficiencyFromFood	Hg2	Benthic Omnivore	0.596	
SedimentPartitioning_PartitionCoefficient	Hg2	Benthic Invertebrate	0.592	
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Benthic Omnivore	-0.577	
DemethylationRate	MHg	Sediment	-0.395	
AssimilationEfficiencyFromFood	MHg	Common Loon	0.393	
SedimentPartitioning_PartitionCoefficient	MHg	Benthic Invertebrate	0.393	1.179
AssimilationEfficiencyFromFood	MHg	Benthic Omnivore	0.392	
MethylationRate	Hg2	Sediment Sediment	0.392	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	
	All	Soil - Surface	0.324	
TotalErosionRate_kg_m2_day		Soil - Surface		
ReductionRate	Hg2		-0.318	
rho	All	Soil - Surface	-0.318	
rho	All	Sediment	0.315	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Benthic Omnivore	-0.263	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	
ReductionRate	Hg2	Surface water	-0.200	-0.200
Elemental Mercury in Common Loon in SW_Swetts	Les	Tour an	Iwa	la titti a
Property	Chemical	Object Name	Elasticity	
				Sensitivity Score
rho	All	Surface water	1.068	0.053
OxidationRate	Hg0	Surface water Common Loon	1.068 -0.962	0.053 -0.961
OxidationRate InhalationProps_B	Hg0 All	Surface water Common Loon Common Loon	1.068 -0.962 0.940	0.053 -0.961 0.282
OxidationRate InhalationProps_B InhalationAssimilationEfficiency	Hg0 All Hg0	Surface water Common Loon Common Loon Common Loon	1.068 -0.962 0.940 0.832	0.053 -0.961 0.282 0.250
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A	Hg0 All Hg0 All	Surface water Common Loon Common Loon Common Loon Common Loon	1.068 -0.962 0.940 0.832 0.832	0.053 -0.961 0.282 0.250 0.250
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate	Hg0 All Hg0 All Hg0	Surface water Common Loon Common Loon Common Loon Common Loon Facility	1.068 -0.962 0.940 0.832 0.832	0.053 -0.961 0.282 0.250 0.250 0.828
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471	0.053 -0.961 0.282 0.250 0.250 0.828 0.053
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K	Hg0 All Hg0 All Hg0 All Hg1 All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water	1.068 -0.962 0.940 0.832 0.832 0.828 0.471	0.053 -0.961 0.282 0.250 0.250 0.828 0.053
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg1 All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg1 All All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg1 All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 0.032
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg1 All All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.032
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283 -0.263	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283 -0.263 -0.248 0.225	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.263 -0.248 0.225	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025
OxidationRate InhalationProps_B InhalationAssimilationEfficiency InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.263 -0.248 0.225 -0.223	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025 -0.067 -0.023 -0.023
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283 -0.263 -0.248 0.225 -0.223 -0.214 -0.189	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 -0.025 -0.022 0.022
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283 -0.263 -0.248 0.225 -0.223 -0.214 -0.189 0.185	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.032 -0.032 -0.031 -0.025 -0.067 -0.023 -0.022 0.029 0.172
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.263 -0.214 -0.189 0.185 0.172	0.053 -0.961 0.282 0.250 0.828 0.053 -0.032 -0.032 -0.031 -0.025 -0.067 -0.022 0.029 0.172 0.027
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.263 -0.214 -0.189 0.185 0.172	0.053 -0.961 0.282 0.250 0.828 0.053 -0.032 -0.032 -0.032 -0.025 -0.067 -0.029 0.172 0.027
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer emissionRate SteadyState_AdvectiveTransfer AssimilationEfficiencyFromWater	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Facility Link from Air, to Air Common Loon	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.283 -0.263 -0.214 -0.189 0.185 0.172 0.168	0.053 -0.961 0.282 0.250 0.828 0.053 -0.032 -0.032 -0.031 -0.025 -0.067 -0.022 0.025 0.025 0.025 0.025
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer emissionRate SteadyState_AdvectiveTransfer AssimilationEfficiencyFromWater WaterIngProps_A WaterIngProps_B	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Link from Air, to Air Common Loon Common Loon Common Loon	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.214 -0.189 0.185 0.172 0.168 0.168	0.053 -0.961 0.282 0.250 0.828 0.053 -0.032 -0.031 -0.029 -0.029 0.172 0.027 0.168 0.056
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer AssimilationEfficiencyFromWater WaterIngProps_A WaterIngProps_B SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Link from Air, to Air Common Loon Common Loon Common Loon Common Loon	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.248 0.225 -0.214 -0.189 0.185 0.172 0.168 0.168 0.159	0.053 -0.961 0.282 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.025 -0.067 -0.022 0.025 0.172 0.027 0.168 0.056
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer AssimilationEfficiencyFromWater WaterIngProps_A WaterIngProps_B SteadyState_AdvectiveTransfer Flushes_per_year	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Common Loon Common Loon Common Loon Common Loon Common Loon Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.248 0.225 -0.214 -0.189 0.185 0.172 0.171 0.168 0.168 0.159 0.149 -0.147	0.053 -0.961 0.282 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.025 -0.067 -0.022 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025
OxidationRate InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer AdvectiveTransfer EnissionRate SteadyState_AdvectiveTransfer AssimilationEfficiencyFromWater WaterIngProps_A WaterIngProps_B SteadyState_AdvectiveTransfer Flushes_per_year SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Common Loon Common Loon Common Loon Common Loon Link from Air, to Air Common Loon Common Loon Link from Air, to Air Surface water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.248 0.225 -0.223 -0.172 0.171 0.168 0.168 0.159 0.149 -0.147 -0.147	0.053 -0.961 0.282 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025 -0.029 0.172 0.027 0.168 0.050 0.048 -0.021 -0.044 -0.016
OxidationRate InhalationProps_B InhalationProps_B InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer Flushes_per_year SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Common Loon Link from Air, to Air Facility Link from Air, to Air Common Loon Common Loon Common Loon Link from Air, to Air Surface water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.248 0.225 -0.214 -0.189 0.185 0.171 0.168 0.168 0.159 0.144 -0.147 -0.147	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025 -0.067 -0.023 0.172 0.027 0.168 0.050 0.048 -0.021 -0.044 -0.016
OxidationRate InhalationProps_B InhalationProps_A InhalationProps_A emissionRate SteadyState_AdvectiveTransfer WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer AdvectiveTransfer ExteadyState_AdvectiveTransfer WaterIngProps_A WaterIngProps_B SteadyState_AdvectiveTransfer Flushes_per_year SteadyState_AdvectiveTransfer	Hg0 All Hg0 All Hg0 All Hg0 All All All All All All All All All Al	Surface water Common Loon Common Loon Common Loon Common Loon Facility Link from Air, to Air Surface Water Link from Air, to Air Common Loon Link from Air, to Air Link from Air, to Air Common Loon Common Loon Common Loon Common Loon Link from Air, to Air Common Loon Common Loon Link from Air, to Air Surface water Link from Air, to Air	1.068 -0.962 0.940 0.832 0.832 0.832 0.828 0.471 -0.362 -0.285 0.284 -0.263 -0.248 0.225 -0.223 -0.172 0.171 0.168 0.168 0.159 0.149 -0.147 -0.147	0.053 -0.961 0.282 0.250 0.250 0.828 0.053 -0.362 -0.032 -0.031 -0.029 -0.030 0.025 -0.067 -0.023 0.029 0.172 0.029 0.172 0.027 0.168 0.050 0.048 -0.021 -0.044 -0.016 0.018

Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.959	0.348
DemethylationRate	MHg	Sediment	-1.006	-1.005
SedimentPartitioning_PartitionCoefficient	MHg	Benthic Invertebrate	0.999	2.996
AssimilationEfficiencyFromFood	MHg	Common Loon	0.998	0.997
FoodIngestionRate	All	Common Loon	0.998	0.299
AssimilationEfficiencyFromFood	MHg	Benthic Omnivore	0.995	0.994
emissionRate	Hg2	Facility	0.993	0.993
MethylationRate	Hg2	Sediment	0.990	0.989
phi	All	Sediment	-0.803	-0.241
Kd	Hg2	Surface water	0.790	0.790
Flushes_per_year	All	Surface water	-0.787	-0.236
HowMuchFasterHgEliminationIsThanForMHg	MHg	Benthic Omnivore	-0.667	-0.667
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.605	1.815
DemethylationRate	MHg	Common Loon	-0.514	-0.513
WaterTemperature_K	All	Surface Water	-0.499	-0.499
TotalExcretionRate	MHg	Common Loon	-0.491	-0.491
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.385	
NumberofFishperSquareMeter	All	Benthic Omnivore	0.335	
Fractionofareaavailableforerosion	All	Soil - Surface	0.324	0.097
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.324	
ReductionRate	Hg2	Soil - Surface	-0.318	
rho	All	Soil - Surface	-0.318	
BW	All	Benthic Omnivore	0.318	
rho	All	Sediment	0.302	0.015
AssimilationEfficiencyFromFood	MHg	Benthic Carnivore	-0.272	
NumberofFishperSquareMeter	All	Benthic Carnivore	-0.272	-0.272
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	
BW	All	Benthic Carnivore	-0.231	
Divalent Mercury in Water Column Carnivore in River	7.111	Bentine Curin voic	0.231	0.007
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K				v
	IAII	Surface Water	-4.336	-4.332
	All All		-4.336 -1.010	
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeDensity_g_m3 AlgaeGrowthRate	All All	Surface water Surface water	-1.010 -1.010	-0.303 -0.303
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius	All All All	Surface water Surface water Surface water	-1.010 -1.010 -1.010	-0.303 -0.303 -0.303
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year	All All All	Surface water Surface water Surface water Surface water	-1.010 -1.010 -1.010 -1.010	-0.303 -0.303 -0.303 -0.303
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg	All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore	-1.010 -1.010 -1.010 -1.010 -1.001	-0.303 -0.303 -0.303 -0.303 -1.001
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate	All All All All Hg2 Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water	-1.010 -1.010 -1.010 -1.010 -1.001 1.000	-0.303 -0.303 -0.303 -0.303 -1.001 0.300
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood	All All All All Hg2 Hg2 Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore	-1.010 -1.010 -1.010 -1.010 -1.001 1.000	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate	All All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility	-1.010 -1.010 -1.010 -1.010 -1.010 -1.000 -1.000 -1.000 0.994	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood	All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore	-1.010 -1.010 -1.010 -1.010 -1.010 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Carnivore	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Omnivore	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 1.000 0.994 0.933 0.933 -0.931	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore FullSS	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd	All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore FullSS Divalent Mercury Surface water	-1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732 0.731	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration	All All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore FullSS Divalent Mercury Surface water Surface water	-1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion	All All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface	-1.010 -1.010 -1.010 -1.010 -1.010 -1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 -1.010 -1.010 -1.010 -1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All All All All All All All Alg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 H	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362	-0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 0.112
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate	All All All All All All Alg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 H	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface	-1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362	-0.303 -0.303 -0.303 -0.303 -0.300 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer	All All All All All All Hg2	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251	-0.303 -0.303 -0.303 -0.303 -0.300 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho	All	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water	-1.010 -1.010 -1.010 -1.010 -1.001 -1.000 1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215	-0.303 -0.303 -0.303 -0.303 -0.300 -1.001 -0.300 -1.001 -0.300 -1.001 -0.300 -0.999 -0.994 -0.932 -0.931 -0.922 -0.089 -0.181 -0.112 -0.018 -0.361 -0.027 -0.011
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW	All All All All All All All All All Alg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215	-0.303 -0.303 -0.303 -0.303 -1.0011 -0.300 -0.999 -0.994 -0.932 -0.931 -0.922 -0.089 -0.112 -0.112 -0.018 -0.361 -0.027 -0.011
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer	All	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 1.000 1.000 0.994 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215 0.113 -0.087	-0.303 -0.303 -0.303 -0.303 -1.001 -0.300 -1.001 -0.300 -1.001 -0.300 -1.001 -0.300 -0.300 -0.999 -0.994 -0.992 -0.931 -0.922 -0.089 -0.112 -0.112 -0.018 -0.361 -0.027 -0.011
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter	All	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1	-0.303 -0.303 -0.303 -0.303 -1.001 -0.300 -0.999 -0.994 -0.932 -0.931 -0.922 -0.089 -0.194 -0.604 -0.181 -0.112 -0.018 -0.0361 -0.027 -0.011 -0.034 -0.011
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day	All All All All All All All All Alg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1	-0.303 -0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078 0.023
AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year HowMuchFasterHgEliminationIsThanForMHg AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter	All	Surface water Surface water Surface water Surface water Water Column Carnivore Surface water Water Column Herbivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Fullss Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore	-1.010 -1.010 -1.010 -1.010 -1.010 -1.001 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -1	-0.303 -0.303 -0.303 -0.303 -0.303 -1.001 0.300 0.999 0.994 0.932 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078 0.023 -0.008

Property				
J	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface Water	-1.998	-1.996
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	0.999
emissionRate	Hg2	Facility	0.998	0.998
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Carnivore	-0.983	-0.983
DemethylationRate	MHg	Soil - Surface	-0.940	-0.939
MethylationRate	Hg2	Soil - Surface	0.931	0.930
Flushes_per_year	All	Surface water	-0.929	
Rain	All	FullSS	0.732	
VaporWashoutRatio	Hg2	Divalent Mercury	0.732	
Kd	MHg	Surface water	-0.658	
SuspendedSedimentconcentration	All	Surface water	-0.644	
NumberofFishperSquareMeter	All	Water Column Herbivore	0.534	
AssimilationEfficiencyFromFood	MHg	Water Column Carnivore	0.493	0.492
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	0.485	
NumberofFishperSquareMeter	All	Water Column Carnivore	-0.485	
BW	All	Water Column Herbivore	0.478	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.470	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Omnivore	-0.470	
ReductionRate		Soil - Surface		
	Hg2	Soil - Surface	-0.437	
rho BW	All		-0.436	
Kd	All	Water Column Carnivore	-0.363	
	MHg	Soil - Surface	-0.310	
FractionofAreaAvailableforRunoff	All	Soil - Surface	0.285	
TotalRunoffRate_m3_m2_day	All	Soil - Surface	0.285	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.279	
Fractionofareaavailableforerosion	All	Soil - Surface	0.187	0.056
Divalent Mercury in Water Column Carnivore in SW_Swetts	Chemical	Object Name	Elasticity	g ** * g
Property	Chemicai			
rho				Sensitivity Score
rho WotorTampawatura V	All	Surface water	6.064	0.303
WaterTemperature_K	All All	Surface water Surface Water	6.064	0.303 -4.283
WaterTemperature_K AlgaeDensity_g_m3	All All All	Surface water Surface Water Surface water	6.064 -4.287 -1.010	0.303 -4.283 -0.303
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate	All All All All	Surface water Surface Water Surface water Surface water	6.064 -4.287 -1.010 -1.010	0.303 -4.283 -0.303 -0.303
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius	All All All All All	Surface water Surface Water Surface water Surface water Surface water	6.064 -4.287 -1.010 -1.010	0.303 -4.283 -0.303 -0.303 -0.303
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate	All All All All All Hg2	Surface water	6.064 -4.287 -1.010 -1.010 -1.010	0.303 -4.283 -0.303 -0.303 -0.303 0.300
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood	All All All All All Hg2 Hg2	Surface water Surface Water Surface water Surface water Surface water Surface water Water Column Herbivore	6.064 -4.287 -1.010 -1.010 -1.010 1.000	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All All All All Hg2 Hg2 Hg2	Surface water Water Column Herbivore Water Column Carnivore	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate	All All All All Hg2 Hg2 Hg2 Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood	All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Carnivore Water Column Carnivore	6.064 -4.287 -1.010 -1.010 -1.000 1.000 -0.995 0.993 0.934	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore	6.064 -4.287 -1.010 -1.010 -1.000 1.000 -0.995 0.993 0.934 -0.923	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.923
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg	All All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore Water Column Herbivore Water Column Omnivore	6.064 -4.287 -1.010 -1.010 -1.000 1.000 -0.995 0.993 0.934 -0.923 -0.910	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.923 -0.910
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year	All All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Surface water	6.064 -4.287 -1.010 -1.010 -1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.923 -0.920 -0.237
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain	All All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Surface water FullSS	6.064 -4.287 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.923 -0.910 -0.237
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio	All All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury	6.064 -4.287 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.913 -0.910 -0.789 0.607	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.923 -0.910 -0.237 0.074 1.815
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air	6.064 -4.287 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.923 -0.921 -0.237 0.074 1.815
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	6.064 -4.287 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.923 -0.910 -0.237 0.074 1.815 0.043
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All All	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	6.064 -4.287 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.605 0.385 0.325	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.923 -0.910 -0.237 0.074 1.815 0.043 0.097
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.097
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.097
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.923 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.995 -0.995 0.993 0.933 -0.923 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate ReductionRate	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All Hg2 All All Hg2 All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 -0.201	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.995 -0.995 0.993 0.933 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	0.064 -4.287 -1.010 -1.010 -1.010 -1.000 -1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 -0.325 -0.318 -0.318 -0.270 -0.232 -0.201 -0.196	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate ReductionRate	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All Hg2 All All Hg2 All All Hg2	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	6.064 -4.287 -1.010 -1.010 -1.010 1.000 1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 -0.201	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	0.064 -4.287 -1.010 -1.010 -1.010 -1.000 -1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 -0.325 -0.318 -0.318 -0.270 -0.232 -0.201 -0.196	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.933 -0.923 -0.910 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021
WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg emissionRate AssimilationEfficiencyFromFood AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer	All All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Water Column Carnivore Facility Water Column Carnivore Water Column Omnivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air	0.064 -4.287 -1.010 -1.010 -1.010 -1.000 -1.000 -0.995 0.993 0.934 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.325 -0.318 -0.318 -0.270 -0.232 -0.201 -0.196 -0.195	0.303 -4.283 -0.303 -0.303 -0.303 0.300 0.999 -0.995 0.993 0.932 -0.910 -0.237 0.074 1.815 0.043 0.097 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021

Methyl Mercury in Water Column Carnivore in SW_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	4.932	0.247
WaterTemperature_K	All	Surface Water	-1.392	-1.391
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	0.999
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
emissionRate	Hg2	Facility	0.994	0.994
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Carnivore	-0.966	-0.966
Kd	MHg	Surface water	-0.791	-0.791
Flushes_per_year	All	Surface water	-0.714	-0.214
SuspendedSedimentconcentration	All	Surface water	-0.673	-0.202
MethylationRate	Hg2	Surface water	0.647	0.647
SedimentDepositionVelocity	All	Surface water	-0.627	-0.188
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.606	1.817
NumberofFishperSquareMeter	All	Water Column Herbivore	0.540	
AssimilationEfficiencyFromFood	MHg	Water Column Carnivore	0.503	0.503
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	0.492	0.491
BW	All	Water Column Herbivore	0.482	0.145
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.464	
NumberofFishperSquareMeter	All	Water Column Carnivore	-0.458	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Omnivore	-0.454	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.381	0.043
BW	All	Water Column Carnivore	-0.341	
ReductionRate	Hg2	Soil - Surface	-0.328	
rho	All	Soil - Surface	-0.328	-0.016
Fractionofareaavailableforerosion	All	Soil - Surface	0.278	0.083
1 factionoral caa variable for crosson	7111	Son - Suracc	0.270	
TotalFrosionRate kg m2 day	Δ11	Soil - Surface	0.278	0.083
TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	All	Soil - Surface Link from Air to Air	0.278	
SteadyState_AdvectiveTransfer	All All	Soil - Surface Link from Air, to Air	0.278	0.083
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River	All	Link from Air, to Air	0.269	0.030
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property	All	Link from Air, to Air Object Name	0.269 Elasticity	0.030 Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K	All Chemical All	Link from Air, to Air Object Name Surface Water	0.269 Elasticity -1.459	0.030 Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3	All Chemical All All	Cobject Name Surface Water Surface water	0.269 Elasticity -1.459 -1.010	0.030 Sensitivity Score -1.458 -0.303
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate	All Chemical All All All	Comparison of the Comparison o	0.269 Elasticity -1.459 -1.010 -1.010	0.030 Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius	Chemical All All All All All	Comparison of the Comparison o	0.269 Elasticity -1.459 -1.010 -1.010 -1.010	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year	Chemical All All All All All All	Chik from Air, to Air Object Name Surface Water Surface water Surface water Surface water Surface water Surface water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.010	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate	Chemical All All All All All Hg2	Object Name Surface Water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.010 1.000	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.303 0.300
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood	Chemical All All All All All Hg2 Hg2	Chik from Air, to Air Object Name Surface Water Water Column Herbivore	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.000 1.000	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.303 0.300 0.999
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate	Chemical All All All All All Hg2 Hg2 Hg2	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.300 0.300 0.999
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg	Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg1 Hg2 Hg2 Hg2	Link from Air, to Air Object Name Surface Water Facility Water Column Herbivore Facility FullSS	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931 0.088
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 H	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931 0.089 2.194
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 H	Link from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931 0.089 2.194 -0.604
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All	Chik from Air, to Air Object Name Surface Water Surface water Surface water Surface water Surface water Surface water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.305 0.300 0.999 -0.991 -0.931 0.089 2.194 -0.604 -0.181
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All	Chik from Air, to Air Object Name Surface Water Surface water Surface water Surface water Surface water Surface water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.305 0.300 0.999 -0.994 -0.931 0.088 2.194 -0.604 -0.1181 0.112
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All Hg1 Hg2	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Surface Soil - Surface Soil - Surface	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931 0.089 2.194 -0.604 -0.181 0.112
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg1 Hg2	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Soil - Surface Soil - Surface	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 0.372	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 0.994 -0.931 0.089 2.194 -0.604 -0.181 0.112 0.112
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Surface water Soil - Surface Soil - Surface Soil - Surface	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362 -0.362	0.030 Sensitivity Score -1.458 -0.303 -0.303 -0.303 0.300 0.999 -0.994 -0.931 0.089 -0.181 -0.112 -0.112 -0.018 -0.361
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2 All All All All	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362 -0.362 -0.251	0.036 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.306 0.999 -0.999 -0.991 -0.089 -0.112 -0.018 -0.112 -0.018 -0.018 -0.018
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All All All All All All All A	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362 -0.362 -0.251 0.215	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All A	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Water Column Herbivore	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215	0.036 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.306 -0.306 -0.999 -0.999 -0.991 -0.931 -0.089 -0.112 -0.018 -0.0112 -0.018 -0.027 -0.011
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All All All All All All All A	Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Surface water Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362 -0.362 -0.251 0.215 0.113	0.036 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.306 -0.999 -0.999 -0.991 -0.931 -0.089 -0.112 -0.018 -0.112 -0.018 -0.027 -0.011
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All All All All All All All A	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215 0.113 -0.087	0.036 Sensitivity Score -1.458 -0.303 -0.303 -0.303 -0.306 -0.306 -0.995 -0.995 -0.994 -0.931 -0.089 -0.192 -0.181 -0.112 -0.018 -0.0361 -0.027 -0.011 -0.034
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All Hg2 All Hg2 All Hg2	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Surface water Surface water Surface water Surface water Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 -1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215 0.113 -0.087 0.078	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All Chemical All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All Hg2 All All Hg2 All All Hg2 All All All All All All All A	Cobject Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air Surface Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.078 0.076	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.078 0.076 -0.076	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 Hg2 All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.076 -0.076	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 Hg2 All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.076 -0.076 -0.075 -0.074 -0.068	Sensitivity Score
SteadyState_AdvectiveTransfer Divalent Mercury in Water Column Herbivore in River Property WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Chemical All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 Hg2 All Hg2 All All All All All All All A	Chik from Air, to Air Object Name Surface Water Water Column Herbivore Facility Water Column Herbivore FullSS Divalent Mercury Surface water Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	0.269 Elasticity -1.459 -1.010 -1.010 -1.010 1.000 1.000 0.994 -0.931 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.076 -0.076	Sensitivity Score

Property				
rioperty	Chemical	Object Name	Elasticity	Sensitivity Score
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	
emissionRate	Hg2	Facility	0.998	0.998
DemethylationRate	MHg	Soil - Surface	-0.940	
MethylationRate	Hg2	Soil - Surface	0.931	0.930
Flushes_per_year	All	Surface water	-0.929	-0.279
Rain	All	FullSS	0.732	0.089
VaporWashoutRatio	Hg2	Divalent Mercury	0.732	2.195
Kd	MHg	Surface water	-0.658	
SuspendedSedimentconcentration	All	Surface water	-0.644	
WaterTemperature_K	All	Surface Water	-0.548	-0.193
NumberofFishperSquareMeter	All	Water Column Herbivore	0.534	
				0.534
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	-0.520	
NumberofFishperSquareMeter	All	Water Column Omnivore	-0.520	-0.520
BW	All	Water Column Herbivore	0.478	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.470	
BW	All	Water Column Omnivore	-0.442	-0.133
ReductionRate	Hg2	Soil - Surface	-0.437	-0.436
rho	All	Soil - Surface	-0.436	
Kd	MHg	Soil - Surface	-0.310	
FractionofAreaAvailableforRunoff	All	Soil - Surface	0.285	0.086
TotalRunoffRate_m3_m2_day	All	Soil - Surface	0.285	0.086
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.279	-0.030
Fractionofareaavailableforerosion	All	Soil - Surface	0.187	0.056
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.187	0.056
SedimentDepositionVelocity	All	Surface water	-0.111	-0.033
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.096	-0.012
Divalent Mercury in Water Column Herbivore in SW_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	6.064	0.303
WaterTemperature_K	All	Surface Water	-1.817	-1.815
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AlgaeUptakeRate	Hg2	C		
	1152	Surface water	1.000	0.300
AssimilationEfficiencyFromFood		Water Column Herbivore	1.000 1.000	
AssimilationEfficiencyFromFood emissionRate	Hg2 Hg2			0.999
	Hg2	Water Column Herbivore	1.000	0.999 0.993
emissionRate	Hg2 Hg2	Water Column Herbivore Facility	1.000 0.993	0.999 0.993 -0.923
emissionRate HowMuchFasterHgEliminationIsThanForMHg	Hg2 Hg2 Hg2	Water Column Herbivore Facility Water Column Herbivore	1.000 0.993 -0.923	0.999 0.993 -0.923
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year	Hg2 Hg2 Hg2 All	Water Column Herbivore Facility Water Column Herbivore Surface water	1.000 0.993 -0.923 -0.789	0.999 0.993 -0.923 -0.237
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio	Hg2 Hg2 Hg2 All All Hg2	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS	1.000 0.993 -0.923 -0.789 0.607	0.999 0.993 -0.923 -0.237 0.074
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain	Hg2 Hg2 Hg2 All All Hg2 All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605	0.999 0.993 -0.923 -0.237 0.074 1.815
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	Hg2 Hg2 Hg2 All All Hg2 All All All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 Hg2 Hg2 All All Hg2 All All All All All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	Hg2 Hg2 Hg2 All All Hg2 All All All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	Hg2 Hg2 Hg2 All All Hg2 All All Hg2 All All All All All All All Hg2 All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All All All All Hg2 All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All Hg2 All All All All All Hg2 All All All All All All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All All All All All All All Al	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate	Hg2 Hg2 Hg2 All All Hg2 All All All All Hg2 All All Hg2 All All Hg2	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All Hg2 All All Hg2 All All Hg2 All All All All All All All All All Al	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All Hg2 All All Hg2 All All All All All All All All All Al	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226 -0.201 -0.196	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd	Hg2 Hg2 Hg2 All All All Hg2 All All Hg2 All Hg2	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226 -0.201 -0.196	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All All All All Hg2 All All All Hg2 All All All Hg2 All All All Hg2 All All Hg2 All All Hg2 All	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 -0.270 -0.232 0.226 -0.201 -0.196 -0.195 -0.187	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021 -0.023
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All Hg2 All All Hg2 All All All Hg2 All All Hg2 All All Hg2 All All All Hg2 All All All Hg2 All All All Hg1	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226 -0.201 -0.196 -0.195 -0.167	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021 -0.023 -0.023 -0.019
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All Hg2 All All All Hg2 All All All Hg1 Hg2 All All All All All All All All All Al	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 -0.270 -0.232 0.226 -0.191 -0.195 -0.191 -0.167	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021 -0.023 -0.019 -0.003
emissionRate HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 Hg2 All All Hg2 All All All Hg2 All All Hg2 All All All Hg2 All All Hg2 All All Hg2 All All All Hg2 All All All Hg2 All All All Hg1	Water Column Herbivore Facility Water Column Herbivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Link from Air, to Air	1.000 0.993 -0.923 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318 0.270 -0.232 0.226 -0.201 -0.196 -0.195 -0.167	0.999 0.993 -0.923 -0.237 0.074 1.815 0.043 0.097 -0.318 -0.016 0.030 -0.025 -0.201 -0.021 -0.021 -0.023

Methyl Mercury in Water Column Herbivore in SW_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	4.932	0.247
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	0.999
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
emissionRate	Hg2	Facility	0.994	0.994
Kd	MHg	Surface water	-0.791	-0.791
Flushes_per_year	All	Surface water	-0.714	-0.214
WaterTemperature_K	All	Surface Water	-0.694	-0.693
SuspendedSedimentconcentration	All	Surface water	-0.673	-0.202
MethylationRate	Hg2	Surface water	0.647	0.647
SedimentDepositionVelocity	All	Surface water	-0.627	-0.188
Rain	All	FullSS	0.607	0.074
				1.817
VaporWashoutRatio	Hg2	Divalent Mercury	0.606	
NumberofFishperSquareMeter	All	Water Column Herbivore	0.540	
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	-0.514	-0.513
NumberofFishperSquareMeter	All	Water Column Omnivore	-0.514	-0.514
BW	All	Water Column Herbivore	0.482	0.145
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.464	-0.464
BW	All	Water Column Omnivore	-0.437	-0.131
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.381	0.043
ReductionRate	Hg2	Soil - Surface	-0.328	-0.328
rho	All	Soil - Surface	-0.328	-0.016
Fractionofareaavailableforerosion	All	Soil - Surface	0.278	0.083
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.278	0.083
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.269	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.231	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.225	0.025
DemethylationRate	MHg	Soil - Surface	-0.209	-0.208
Divalent Mercury in Water Column Omivore in River	<u> </u>			
Property	Chemical	Object Name	Elasticity	Sensitivity Score
WaterTemperature_K	All	Surface Water	-2.717	-2.714
AlgaeDensity_g_m3	All	Surface water	-1.010	
AlgaeGrowthRate				
	IAII	Surface water	-1.010	
-	All All	Surface water	-1.010 -1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303 -0.303
AlgaeRadius Flushes_per_year	All All	Surface water Surface water	-1.010 -1.010	-0.303 -0.303 -0.303
AlgaeRadius Flushes_per_year AlgaeUptakeRate	All All Hg2	Surface water Surface water Surface water	-1.010 -1.010 1.000	-0.303 -0.303 -0.303 0.300
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood	All All Hg2 Hg2	Surface water Surface water Surface water Water Column Herbivore	-1.010 -1.010 1.000	-0.303 -0.303 -0.303 0.300 0.999
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate	All All Hg2 Hg2 Hg2	Surface water Surface water Surface water Water Column Herbivore Facility	-1.010 -1.010 1.000 1.000 0.995	-0.303 -0.303 -0.303 0.300 0.999 0.995
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood	All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore	-1.010 -1.010 1.000 1.000 0.995 0.933	-0.303 -0.303 -0.303 0.300 0.999 0.995
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio	All All Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd	All All Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration	All All Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion	All All Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.018
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All Hg2	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.018 -0.0361 -0.027
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All Hg2 All Hg2 All All All All All All All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 0.372 -0.362 -0.362 -0.251	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All Hg2 All All All All All	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore	-1.010 -1.010 1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air	-1.010 -1.010 -1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215 0.113 -0.087	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.995 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.112 -0.016 -0.034 -0.011 0.034 -0.078
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface	-1.010 -1.010 -1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.078	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	-1.010 -1.010 -1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.078 0.076 -0.076	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078 0.023 -0.008
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	-1.010 -1.010 -1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.215 0.113 -0.087 0.076 -0.076	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078 0.023 -0.008
AlgaeRadius Flushes_per_year AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Rain VaporWashoutRatio Kd SuspendedSedimentconcentration Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day rho ReductionRate SteadyState_AdvectiveTransfer rho BW SteadyState_AdvectiveTransfer NumberofFishperSquareMeter VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All Hg2 All All All All All All All All All Al	Surface water Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Water Column Omnivore FullSS Divalent Mercury Surface water Surface water Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Surface water Water Column Herbivore Link from Air, to Air Water Column Herbivore Soil - Surface Link from Air, to Air	-1.010 -1.010 -1.000 1.000 0.995 0.933 -0.931 -0.922 0.732 0.731 -0.604 -0.603 0.372 -0.362 -0.362 -0.251 0.113 -0.087 0.078 0.076 -0.076	-0.303 -0.303 -0.303 0.300 0.999 0.995 0.932 -0.931 -0.922 0.089 2.194 -0.604 -0.181 0.112 0.112 -0.018 -0.361 -0.027 0.011 0.034 -0.011 0.078 0.023

Methyl Mercury in Water Column Omivore in River				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	0.999
emissionRate	Hg2	Facility	0.998	0.998
DemethylationRate	MHg	Soil - Surface	-0.940	-0.939
MethylationRate	Hg2	Soil - Surface	0.931	
Flushes_per_year	All	Surface water	-0.929	
WaterTemperature_K	All	Surface Water	-0.796	
Rain	All	FullSS	0.732	
VaporWashoutRatio	Hg2	Divalent Mercury	0.732	
Kd	MHg	Surface water	-0.658	
SuspendedSedimentconcentration	All	Surface water	-0.644	
NumberofFishperSquareMeter	All	Water Column Herbivore	0.534	
AssimilationEfficiencyFromFood	MHg	Water Column Carnivore	-0.512	
Number of Fishper Square Meter	All	Water Column Carnivore	-0.512	
			_	
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	0.485	
BW	All	Water Column Herbivore	0.478	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.470	
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Omnivore	-0.464	
ReductionRate	Hg2	Soil - Surface	-0.437	
rho	All	Soil - Surface	-0.436	
BW	All	Water Column Carnivore	-0.435	
Kd	MHg	Soil - Surface	-0.310	
FractionofAreaAvailableforRunoff	All	Soil - Surface	0.285	
TotalRunoffRate_m3_m2_day	All	Soil - Surface	0.285	0.086
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.279	-0.030
Fractionofareaavailableforerosion	All	Soil - Surface	0.187	0.056
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.187	0.056
Divalent Mercury in Water Column Omivore in SW_Swetts				
Divalent increary in vitater Column Onnvoicin Svi_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
	Chemical All	Object Name Surface water	Elasticity 6.064	•
Property				0.303
Property rho	All	Surface water	6.064	0.303 -2.792
Property rho WaterTemperature_K	All All	Surface water Surface Water	6.064	0.303 -2.792 -0.303
Property rho WaterTemperature_K AlgaeDensity_g_m3	All All	Surface water Surface Water Surface water	6.064 -2.795 -1.010	0.303 -2.792 -0.303 -0.303
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate	All All All	Surface water Surface Water Surface water Surface water	6.064 -2.795 -1.010 -1.010	0.303 -2.792 -0.303 -0.303 -0.303
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate	All All All All All Hg2	Surface water Surface Water Surface water Surface water Surface water	6.064 -2.795 -1.010 -1.010	0.303 -2.792 -0.303 -0.303 -0.303 0.300
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius	All All All All All Hg2 Hg2	Surface water Water Column Herbivore	6.064 -2.795 -1.010 -1.010 -1.010	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.999
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood	All All All All All Hg2 Hg2 Hg2	Surface water Surface Water Surface water Surface water Surface water Surface water	6.064 -2.795 -1.010 -1.010 -1.010 1.000	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.999
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate	All All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface Water Surface water Surface water Surface water Surface water Water Column Herbivore Facility	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.999 0.993
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Surface Water Surface water Surface water Surface water Surface water Water Column Herbivore Facility Water Column Omnivore	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.999 0.993 -0.923
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg	All All All All Hg2 Hg2 Hg2 Hg2 Hg2	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923	0.303 -2.792 -0.303 -0.303 0.300 0.999 0.993 -0.923 -0.910
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg	All All All All All Hg2	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910	0.303 -2.792 -0.303 -0.303 -0.300 0.999 0.993 -0.923 -0.910 -0.237
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain	All All All All Hg2	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Surface water FullSS	6.064 -2.795 -1.010 -1.010 -1.010 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607	0.303 -2.792 -0.303 -0.303 -0.305 0.300 0.995 0.993 -0.923 -0.910 -0.237 0.074
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio	All All All All Hg2	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607	0.303 -2.792 -0.303 -0.303 -0.303 0.399 0.993 0.993 -0.923 -0.910 -0.237 0.074
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer	All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.9993 0.9932 -0.912 -0.233 0.074 1.815
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	All All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface	6.064 -2.795 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325	0.303 -2.792 -0.303 -0.303 -0.303 0.300 0.999 0.993 -0.923 -0.913 -0.233 0.074 1.815 0.043
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All All All All All All	Surface water Water Column Herbivore Facility Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface	6.064 -2.795 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.605 0.385 0.325	0.303 -2.792 -0.303 -0.303 0.300 0.999 0.993 -0.923 -0.911 -0.237 0.072 1.815 0.043
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All Hg2	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	6.064 -2.795 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.605 0.385 0.325 -0.318	0.300 -2.792 -0.300 -0.300 0.999 0.999 0.993 -0.920 -0.237 0.007 1.811 0.042 0.099 0.099
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Facility Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface	6.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.605 0.385 0.325 -0.318 -0.318	0.300 -2.790 -0.300 -0.300 -0.300 0.990 0.990 0.990 -0.910 -0.230 -0.010 -0.310 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.300 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310 -0.310
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate rho SteadyState_AdvectiveTransfer	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	0.064 -2.795 -1.010 -1.010 -1.010 1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.385 0.325 -0.318 -0.318	0.300 -2.792 -0.300 -0.300 -0.300 -0.300 -0.992 -0.992 -0.910 -0.23 -0.074 -0.040 -0.090 -0.311 -0.010 -0.030
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Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water Fullss Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	0.064 -2.795 -1.010 -1.010 -1.010 -1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.325 -0.318 -0.318 -0.270 -0.232 0.226 -0.201 -0.196 -0.195 -0.187	0.300 -2.799 -0.300 -0.300 0.300 0.999 0.993 -0.920 -0.910 -0.23' 0.074 1.81: 0.044 0.099 0.099 -0.31: -0.010 0.030 -0.02: -0.02 -0.02 -0.02
Property rho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All All All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Herbivore Water Column Herbivore Water Column Omnivore Surface water FullSS Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	0.064 -2.795 -1.010 -1.010 -1.010 -1.000 -1.000 -1.000 -1.000 -1.000 -1.000 -0.993 -0.923 -0.910 -0.789 -0.605 -0.385 -0.325 -0.318 -0.318 -0.270 -0.232 -0.201 -0.196 -0.195 -0.191 -0.187 -0.167	0.300 -2.790 -0.300 -0.300 -0.300 0.990 0.990 0.990 -0.910 -0.23' 0.074 1.810 0.040 0.090 -0.310 -0.010 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.001
Property tho WaterTemperature_K AlgaeDensity_g_m3 AlgaeGrowthRate AlgaeRadius AlgaeUptakeRate AssimilationEfficiencyFromFood emissionRate AssimilationEfficiencyFromFood HowMuchFasterHgEliminationIsThanForMHg HowMuchFasterHgEliminationIsThanForMHg Flushes_per_year Rain VaporWashoutRatio SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer ReductionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Kd SteadyState_AdvectiveTransfer	All All All All All All Hg2 Hg2 Hg2 Hg2 Hg2 Hg2 All All All All Hg2 All All All All Hg2 All All All All All All All All All Al	Surface water Water Column Herbivore Facility Water Column Omnivore Water Column Omnivore Water Column Omnivore Surface water Fullss Divalent Mercury Link from Air, to Air Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air Surface water Link from Air, to Air Link from Air, to Air	0.064 -2.795 -1.010 -1.010 -1.010 -1.000 1.000 0.993 0.933 -0.923 -0.910 -0.789 0.607 0.605 0.325 -0.318 -0.318 -0.270 -0.232 0.226 -0.201 -0.196 -0.195 -0.187	0.300 -2.790 -0.300 -0.300 -0.300 0.300 0.990 0.990 0.990 -0.910 -0.230 0.074 1.810 0.040 0.090 -0.310 -0.010 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.001

Methyl Mercury in Water Column Omivore in SW_Swetts				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	4.932	0.247
AlgaeDensity_g_m3	All	Surface water	-1.010	-0.303
AlgaeGrowthRate	All	Surface water	-1.010	-0.303
AlgaeRadius	All	Surface water	-1.010	-0.303
AssimilationEfficiencyFromFood	MHg	Water Column Herbivore	1.000	0.999
AlgaeUptakeRate	MHg	Surface water	1.000	0.300
emissionRate	Hg2	Facility	0.994	0.994
Kd	MHg	Surface water	-0.791	-0.791
Flushes_per_year	All	Surface water	-0.714	-0.214
SuspendedSedimentconcentration	All	Surface water	-0.673	-0.202
MethylationRate	Hg2	Surface water	0.647	0.647
SedimentDepositionVelocity	All	Surface water	-0.627	-0.188
Rain	All	FullSS	0.607	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.606	1.817
WaterTemperature_K	All	Surface Water	-0.548	
NumberofFishperSquareMeter	All	Water Column Herbivore	0.540	0.540
AssimilationEfficiencyFromFood	MHg	Water Column Carnivore	-0.502	-0.501
NumberofFishperSquareMeter	All	Water Column Carnivore	-0.502	-0.502
AssimilationEfficiencyFromFood	MHg	Water Column Omnivore	0.492	0.491
BW	All	Water Column Herbivore	0.482	0.145
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Herbivore	-0.464	-0.464
HowMuchFasterHgEliminationIsThanForMHg	MHg	Water Column Omnivore	-0.454	-0.454
BW	All	Water Column Carnivore	-0.427	-0.128
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.381	0.043
ReductionRate	Hg2	Soil - Surface	-0.328	
rho	All	Soil - Surface	-0.328	-0.016
Fractionofareaavailableforerosion	All	Soil - Surface	0.278	0.083
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.278	0.083
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.269	0.030
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STERROY STREET A DVECTIVE I TRUSTET	IΔII	II ink from Air to Air	_0.231	-0.025
SteadyState_AdvectiveTransfer Divalent Marcury in Mouse in SurfSeil SSE4	All	Link from Air, to Air	-0.231	-0.025
Divalent Mercury in Mouse in SurfSoil_SSE4		·		
Divalent Mercury in Mouse in SurfSoil_SSE4 Property	Chemical	Object Name	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate	Chemical Hg2	Object Name Mouse	Elasticity -1.007	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate	Chemical Hg2 Hg2	Object Name Mouse Facility	Elasticity -1.007 0.994	Sensitivity Score -1.007 0.994
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils	Chemical Hg2 Hg2 Hg2	Object Name Mouse Facility Mouse	Elasticity -1.007 0.994 0.953	Sensitivity Score -1.007 0.994 0.952
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate	Chemical Hg2 Hg2 Hg2 All	Object Name Mouse Facility Mouse Mouse Mouse	Elasticity -1.007 0.994 0.953 0.553	Sensitivity Score -1.007 0.994 0.952 0.166
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate	Chemical Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW	Chemical Hg2 Hg2 Hg2 All All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter	Chemical Hg2 Hg2 Hg2 All All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils	Chemical Hg2 Hg2 Hg2 All All All Hg1 Hg2	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir	Chemical Hg2 Hg2 Hg2 All All All Hg2 All All All All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest	-1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio	Chemical Hg2 Hg2 Hg2 All All All Hg2 All Hg2 All Hg2	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Unite-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain	Chemical Hg2 Hg2 Hg2 All All All Hg2 All Hg2 All Hg2 All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Unite-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496 0.465	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate	Chemical Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All All Hg1 All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Unite-tailed Deer	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496 0.465 0.436	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.496 0.495 1.394 0.053 0.130
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496 0.465 0.432 0.394	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496 0.432 0.394 0.331	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent	Chemical Hg2 Hg2 Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Unite-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest	Elasticity -1.007 0.994 0.953 0.553 -0.508 -0.508 -0.496 0.496 0.4465 0.432 0.394 0.331 -0.320	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037 -0.160
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied	Chemical Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037 -0.160 0.094
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate	Chemical Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest	Elasticity	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037 -0.160 0.094 -0.284
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther	Chemical Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Unite-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest	Elasticity	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037 -0.160 0.094 -0.284 0.281
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	Elasticity	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 0.053 0.130 0.044 0.037 -0.160 0.094 -0.284 0.281 -0.030
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	Elasticity	Sensitivity Score -1.007 0.994 0.952 0.166 -0.152 -0.152 -0.508 -0.496 0.495 1.394 0.053 0.130 0.044 0.037 -0.160 0.094 -0.284 0.281 -0.030 0.810 0.029
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Soil - Surface Soil - Surface	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Fractionofareavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Soil - Surface Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Fractionofareavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Soil - Surface Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score
Divalent Mercury in Mouse in SurfSoil_SSE4 Property TotalExcretionRate emissionRate AssimilationEfficiencyFromSoils FoodIngestionRate BW NumberofIndividualsPerSquareMeter AssimilationEfficiencyFromSoils AllowExchange_SteadyState_forAir VaporWashoutRatio Rain SoilIngestionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer WaterContent WetDepInterceptionFraction_UserSupplied LitterFallRate AllowExchange_SteadyState_forOther SteadyState_AdvectiveTransfer TransferFactortoLeafParticle SteadyState_AdvectiveTransfer Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Fractionofareavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg2 Hg2 Hg2 Hg2 All All	Object Name Mouse Facility Mouse Mouse White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Divalent Mercury FullSS Mouse Link from Air, to Air Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Leaf - Soil - Surface Soil - Surface Link from Air, to Air	Elasticity	Sensitivity Score

Appendix D.2. Sensitivity of Predicted Concentration to TRIM.FaTE Input Properties (top 30 properties for each compartment examined, ranked by absolute elasticity)^a

Elemental Mercury in Mouse in SurfSoil_SSE4				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	1.736	0.087
InhalationProps_B	All	Mouse	-1.712	-0.514
WaterIngProps_B	All	Mouse	-0.974	-0.292
OxidationRate	Hg0	Mouse	-0.960	-0.959
WaterTemperature_K	All	Surface Water	-0.588	-0.587
emissionRate	Hg0	Facility	0.563	0.563
InhalationAssimilationEfficiency	Hg0	Mouse	0.539	0.162
InhalationProps_A	All	Mouse	0.539	0.162
emissionRate	Hg2	Facility	0.437	0.437
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.392	0.044
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.299	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.286	
Rain	All	FullSS	0.276	
AssimilationEfficiencyFromWater	Hg0	Mouse	0.272	0.272
WaterIngProps_A	All	Mouse	0.272	0.082
VaporWashoutRatio	Hg2	Divalent Mercury	0.267	0.800
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.256	
Flushes_per_year	All	Surface water	-0.239	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.238	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.210	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.208	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.201	-0.025
AirTemperature_K	All	FullSS	0.191	0.000
HenryLawConstant	Hg0	Elemental Mercury	-0.191	-0.191
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.191	-0.020
AssimilationEfficiencyFromSoils	Hg0	Mouse	0.189	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.189	
Kd	Hg0	Soil - Surface	0.181	0.181
SoilIngestionRate	All	Mouse	0.181	0.181
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.177	
·	ZII	Elik Holli Ali, to Ali	-0.177	-0.019
Methyl Mercury in Mouse in SurfSoil_SSE4 Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.995	0.995
AssimilationEfficiencyFromSoils	MHg	Mouse	0.930	
SoilIngestionRate	All		0.730	0.727
DemethylationRate		Mouse	0.930	0.279
		Mouse Soil - Surface	0.930	
•	MHg	Soil - Surface	-0.929	-0.928
MethylationRate	MHg Hg2	Soil - Surface Soil - Surface	-0.929 0.921	-0.928 0.920
MethylationRate TotalExcretionRate	MHg Hg2 MHg	Soil - Surface Soil - Surface Mouse	-0.929 0.921 -0.745	-0.928 0.920 -2.236
MethylationRate TotalExcretionRate Rain	MHg Hg2 MHg All	Soil - Surface Soil - Surface Mouse FullSS	-0.929 0.921 -0.745 0.608	-0.928 0.920 -2.236 0.074
MethylationRate TotalExcretionRate Rain VaporWashoutRatio	MHg Hg2 MHg All Hg2	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury	-0.929 0.921 -0.745 0.608 0.607	-0.928 0.920 -2.236 0.074 1.822
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	MHg Hg2 MHg All Hg2 All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface	-0.929 0.921 -0.745 0.608 0.607 -0.568	-0.928 0.920 -2.236 0.074 1.822 -0.170
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	MHg Hg2 MHg All Hg2 All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate	MHg Hg2 MHg All Hg2 All All All All Hg2	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.366	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All Hg2 All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.366	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.366 -0.365	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate	MHg Hg2 MHg All Hg2 All All All Hg2 All All All Hg2 All Hg9	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.366 -0.365 0.265	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All Hg2 All All Hg2 All All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.366 -0.365 0.265 -0.257 -0.227	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.366 -0.365 0.265 -0.227 0.223	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 0.025
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Mouse Link from Air, to Air Mouse Link from Air, to Air Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 0.265 -0.227 0.223 -0.193	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.025
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.366 -0.365 0.265 -0.227 0.223 -0.193 -0.187	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.020
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.367 -0.366 -0.365 0.265 -0.257 -0.227 0.223 -0.193 -0.178	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.020 -0.020
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.366 -0.365 -0.227 -0.227 -0.223 -0.193 -0.178 -0.173	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.020 -0.020
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.2257 -0.227 0.223 -0.193 -0.178 -0.173 -0.167	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.025 -0.021 -0.020 -0.019
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir	MHg Hg2 MHg All Hg2 All All All All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.225 -0.227 -0.227 -0.193 -0.173 -0.167 -0.163	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.025 -0.025 -0.025 -0.025 -0.021 -0.020 -0.019 -0.019
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.225 -0.227 -0.227 -0.193 -0.187 -0.173 -0.163 0.141	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.021 -0.019 -0.019
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.225 -0.227 0.223 -0.193 -0.173 -0.167 -0.163 0.141 0.140	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.021 -0.019 -0.019 -0.163 0.022
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.265 -0.227 -0.227 -0.173 -0.173 -0.163 0.141 0.140 0.134	-0.928 0.920 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.021 -0.019 -0.019 -0.163 0.022 0.022 0.019
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.265 -0.227 0.223 -0.193 -0.173 -0.167 -0.163 0.141 0.140 0.134 -0.129	-0.928 0.920 -2.236 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.020 -0.019 -0.0163 0.022 0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019
MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	MHg Hg2 MHg All Hg2 All All All All All All All All All Al	Soil - Surface Soil - Surface Mouse FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air Mouse Link from Air, to Air	-0.929 0.921 -0.745 0.608 0.607 -0.568 -0.568 0.367 -0.365 -0.265 -0.227 -0.227 -0.173 -0.173 -0.163 0.141 0.140 0.134	-0.928 0.920 0.074 1.822 -0.170 -0.170 0.041 -0.365 -0.018 0.029 -0.256 -0.025 -0.021 -0.020 -0.019 -0.163 0.022 0.019 -0.015 -0.013

Divalent Mercury in Mouse in SurfSoil_SW2				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
TotalExcretionRate	Hg2	Mouse	-1.007	-1.007
emissionRate	Hg2	Facility	0.997	0.997
AssimilationEfficiencyFromSoils	Hg2	Mouse	0.972	0.971
SoilIngestionRate	All	Mouse	0.910	0.273
VaporWashoutRatio	Hg2	Divalent Mercury	0.681	2.042
Rain	All	FullSS	0.678	0.083
Fractionofareaavailableforerosion	All	Soil - Surface	-0.512	-0.154
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.512	-0.154
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.380	-0.041
rho	All	Soil - Surface	-0.350	
ReductionRate	Hg2	Soil - Surface	-0.350	-0.349
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.323	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.259	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.173	
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.156	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.151	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.138	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.101	
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.097	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.091	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.090	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.088	
FoodIngestionRate	All	Mouse	0.087	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.085	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.082	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.077	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.076	
LitterFallRate	All	Leaf - Grasses/Herbs	-0.075	
AllowExchange_SteadyState_forOther	All	Leaf - Grasses/Herbs	0.074	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.073	0.008
Elemental Mercury in Mouse in SurfSoil_SW2				
I Droporty	Chamical	Object Name	Flocticity	Soncitivity Score
Property InhalationProps R	Chemical	Object Name	Elasticity	Sensitivity Score
InhalationProps_B	All	Mouse	-2.415	-0.725
InhalationProps_B OxidationRate	All Hg0	Mouse Mouse	-2.415 -0.960	-0.725 -0.959
InhalationProps_B OxidationRate emissionRate	All Hg0 Hg0	Mouse Mouse Facility	-2.415 -0.960 0.775	-0.725 -0.959 0.775
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency	All Hg0 Hg0 Hg0	Mouse Mouse Facility Mouse	-2.415 -0.960 0.775 0.760	-0.725 -0.959 0.775 0.228
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A	All Hg0 Hg0 Hg0 All	Mouse Mouse Facility Mouse Mouse	-2.415 -0.960 0.775 0.760 0.760	-0.725 -0.959 0.775 0.228
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760	-0.725 -0.959 0.775 0.228 0.228 -0.055
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 -0.476 -0.382	-0.725 -0.959 0.775 0.228 0.228 -0.055
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant	All Hg0 Hg0 Hg0 All All All All Hgl	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267	-0.725 -0.959 0.775 0.228 -0.028 -0.055 -0.042 0.053 -0.030
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K	All Hg0 Hg0 Hg0 All All All All Hg0 All All All All All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air Elink from Air, to Air Flink from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils	All Hg0 Hg0 All All All All All Hg0 All Hg0	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Link from Air, to Air Link from Air, to Air Elink from Air, to Air Mouse Link from Air, to Air Link from Air, to Air Mouse	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate	All Hg0 Hg0 All All All All All Hg0 All Hg0 All All All All All Hg0 All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd	All Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate	All Hg0 Hg0 Hg0 All All All All Hg0	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Facility	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion	All Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 0.237 -0.232 0.235 0.225	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 0.237 -0.232 0.235 -0.255 -0.191	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All Hg2 All All All All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All Hg2 All Hg1 All Hg1 All Hg2 All Hg2 All Hg2	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.235 -0.191 0.165 0.162	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020 -0.020
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg1 All Hg1 All Hg1 All Hg1 All Hg1 All Hg2 All All All All All All All All All	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.156	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020 0.020
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg1 All Hg1 Hg1 All Hg2 All All All All All All All All All Al	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.156	-0.725 -0.959 -0.775 -0.228 -0.055 -0.042 -0.053 -0.030 -0.242 -0.000 -0.238 -0.071 -0.069 -0.225 -0.022 -0.020 -0.020 -0.017 -0.463 -0.045
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio BW	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg1 All Hg2 All All All All All All All All All Al	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.156	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 -0.020 -0.017 0.463 -0.045
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio BW Fractionofareaavailableforerosion	All Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg1 All Hg2 All All All All All All All All All Al	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air FullSS Link from Air, to Sink Divalent Mercury Mouse Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.154 -0.152	-0.725 -0.959 -0.775 -0.228 -0.055 -0.042 -0.053 -0.030 -0.242 -0.0071 -0.237 -0.069 -0.024 -0.022 -0.020 -0.017 -0.463 -0.038 -0.038
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio BW Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All All All All All All All All All Al	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Facility Link from Air, to Air Surface Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air FullSS Link from Air, to Sink Divalent Mercury Mouse Soil - Surface Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.156 -0.154 -0.152 -0.125	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020 -0.017 0.463 -0.045 -0.038 -0.038 -0.038
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio BW Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	All Hg0 Hg0 Hg0 All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All All All All All All All All Hg1 All All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Mouse Mouse Facility Mouse Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air Soil - Surface Facility Link from Air, to Air Link from Air, to Air Link from Air, to Air Soil - Surface FullSS Link from Air, to Sink Divalent Mercury Mouse Soil - Surface Soil - Surface Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.154 -0.152 -0.125 -0.125 -0.125	-0.725 -0.959 0.775 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020 -0.017 0.463 -0.045 -0.038 -0.038 -0.038 0.123 0.006
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils SoilIngestionRate Kd Fractionofareaavailableforverticaldiffusion emissionRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporWashoutRatio BW Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	All Hg0 Hg0 Hg0 All All All All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg2 All All All All All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All All All All All All All All Al	Mouse Mouse Facility Mouse Link from Air, to Air Elemental Mercury FullSS Mouse Mouse Soil - Surface Soil - Surface Facility Link from Air, to Air Surface Facility Link from Air, to Air Link from Air, to Sink Divalent Mercury Mouse Soil - Surface Soil - Surface Soil - Surface Soil - Surface	-2.415 -0.960 0.775 0.760 0.760 -0.476 -0.382 0.375 -0.267 -0.242 0.239 0.238 0.237 -0.232 0.225 0.215 -0.191 0.165 0.162 -0.154 -0.152 -0.125 -0.125 0.123	-0.725 -0.959 0.775 0.228 0.228 -0.055 -0.042 0.053 -0.030 -0.242 0.000 0.238 0.071 0.237 -0.069 0.225 0.024 -0.022 0.020 0.020 -0.017 0.463 -0.045 -0.038 -0.038 0.123 0.006

Property				
property (Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.997	0.997
AssimilationEfficiencyFromSoils	MHg	Mouse	0.933	0.932
SoilIngestionRate	All	Mouse	0.933	
DemethylationRate	MHg	Soil - Surface	-0.933	
MethylationRate	Hg2	Soil - Surface	0.924	
TotalExcretionRate	MHg	Mouse	-0.745	
Rain	All	FullSS	0.685	
	Hg2		0.685	
VaporWashoutRatio	U	Divalent Mercury		
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	
ReductionRate	Hg2	Soil - Surface	-0.380	
rho	All	Soil - Surface	-0.379	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	
DemethylationRate	MHg	Mouse	-0.257	-0.256
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	-0.017
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.082	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.078	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.073	
	All	· '	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	0.008
Divalent Mercury in Raccoon in SurfSoil_SSE4	Chemical	Object Norma	T	
Property				Consitivity Coops
		Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	3.965	0.198
rho TotalExcretionRate	All Hg2	Surface water Raccoon	3.965 -1.010	0.198 -1.010
rho TotalExcretionRate emissionRate	All Hg2 Hg2	Surface water Raccoon Facility	3.965 -1.010 0.994	0.198 -1.010 0.994
rho TotalExcretionRate emissionRate Rain	All Hg2 Hg2 All	Surface water Raccoon Facility FullSS	3.965 -1.010 0.994 0.607	0.198 -1.010 0.994 0.074
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio	All Hg2 Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury	3.965 -1.010 0.994 0.607 0.606	0.198 -1.010 0.994 0.074 1.818
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate	All Hg2 Hg2 All Hg2 All	Surface water Raccoon Facility FullSS	3.965 -1.010 0.994 0.607 0.606 0.564	0.198 -1.010 0.994 0.074 1.818
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio	All Hg2 Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate	3.965 -1.010 0.994 0.607 0.606	0.198 -1.010 0.994 0.074 1.818
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate	All Hg2 Hg2 All Hg2 All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon	3.965 -1.010 0.994 0.607 0.606 0.564	0.198 -1.010 0.994 0.074 1.818 0.169
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient	All Hg2 Hg2 All Hg2 All Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate	3.965 -1.010 0.994 0.607 0.606 0.564	0.198 -1.010 0.994 0.074 1.818 0.169 1.609
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood	All Hg2 Hg2 All Hg2 All Hg2 Hg2 Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon	3.965 -1.010 0.994 0.607 0.606 0.564 0.536	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi	All Hg2 Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd	All Hg2 Hg2 All Hg2 All Hg2 All Hg2 Hg2 All Hg2 Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water	3,965 -1.010 0,994 0.607 0.606 0.564 0.536 -0.472 0.451	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate	All Hg2 Hg2 All All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water	3,965 -1.010 0,994 0.607 0.606 0.564 0.536 -0.472 0.451	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils	All Hg2 Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon	3,965 -1.010 0,994 0,607 0,606 0,564 0,536 -0,472 0,451 -0,447 0,435 0,433	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All Hg2 All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon Link from Air, to Air	3,965 -1.010 0,994 0,607 0,564 0,536 -0,472 0,451 -0,447 0,435 0,433 0,377	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate	All Hg2 Hg2 All Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon Link from Air, to Air Soil - Surface	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.433 0.377 -0.339	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho	All Hg2 Hg2 All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon Link from Air, to Air Soil - Surface Soil - Surface	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.433 0.377 -0.339 -0.339	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338 -0.017
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K	All Hg2 Hg2 All All Hg2 All Hg2 All Hg1 Hg2	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon Link from Air, to Air Soil - Surface Surface Surface Surface Surface Surface	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.339 -0.328	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.338 -0.017 -0.327
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All Hg2 All All All All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.338 -0.017 -0.327
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All Hg2 All Hg1 All Hg2 All All All All All All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338 -0.017 -0.327 0.030 -0.025
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230 0.225	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.032 -0.032 -0.032 -0.032 -0.025
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air Link from Air, to Air Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.433 0.377 -0.339 -0.328 0.268 -0.230 0.225 -0.194	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.327 0.030 -0.025
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230 0.225 -0.194 -0.192	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.327 0.030 -0.025 -0.021
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230 0.225 -0.194 -0.192 -0.183	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.327 -0.030 -0.025 -0.021 -0.021
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230 0.225 -0.194 -0.183 0.182	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.327 0.030 -0.025 -0.021 -0.021 -0.022
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 -0.228 -0.230 0.225 -0.194 -0.192 -0.183 0.182 -0.167	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.338 -0.017 -0.025 -0.025 -0.021 -0.029 -0.009
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 0.268 -0.230 0.225 -0.194 -0.183 0.182	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 -0.042 -0.338 -0.017 -0.025 -0.025 -0.021 -0.022 0.009
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 -0.228 -0.230 0.225 -0.194 -0.192 -0.183 0.182 -0.167	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338 -0.017 -0.327 0.030 -0.025 -0.021 -0.021 -0.022
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 -0.225 -0.194 -0.192 -0.183 0.182 -0.166	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338 -0.017 -0.327 0.030 -0.025 -0.021 -0.021 -0.022 0.009 -0.019
rho TotalExcretionRate emissionRate Rain VaporWashoutRatio FoodIngestionRate SedimentPartitioning_PartitionCoefficient AssimilationEfficiencyFromFood phi Kd Flushes_per_year SoilIngestionRate AssimilationEfficiencyFromSoils SteadyState_AdvectiveTransfer ReductionRate rho WaterTemperature_K SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAin	All Hg2 Hg2 All All All All All All All All All Al	Surface water Raccoon Facility FullSS Divalent Mercury Raccoon Benthic Invertebrate Raccoon Sediment Surface water Surface water Raccoon Link from Air, to Air Soil - Surface Surface Water Link from Air, to Air	3.965 -1.010 0.994 0.607 0.606 0.564 0.536 -0.472 0.451 -0.447 0.435 0.377 -0.339 -0.328 -0.225 -0.194 -0.192 -0.183 0.182 -0.166 -0.150	0.198 -1.010 0.994 0.074 1.818 0.169 1.609 0.536 -0.142 0.451 -0.134 0.130 0.432 0.042 -0.338 -0.017 -0.327 0.030 -0.025 -0.021 -0.021 -0.021 -0.009 -0.018 -0.0150 0.023

Elemental Mercury in Raccoon in SurfSoil SSE4				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	7.779	0.389
phi	All	Sediment	-2.197	-0.659
rho	All	Sediment	1.220	0.061
SuspendedSedimentconcentration	All	Surface water	-1.063	-0.319
emissionRate	Hg2	Facility	0.991	0.991
AssimilationEfficiencyFromFood	Hg0	Raccoon	0.991	0.990
SedimentPartitioning_PartitionCoefficient	Hg0	Benthic Invertebrate	0.990	2.971
FoodIngestionRate	All	Raccoon	0.990	0.297
OxidationRate	Hg0	Raccoon	-0.962	-0.961
SedimentDepositionVelocity	All	Surface water	-0.930	-0.279
ReductionRate	Hg2	Sediment	0.865	0.864
Flushes_per_year	All	Surface water	-0.790	-0.237
Kd Kd	Hg2	Surface water	0.726	0.726
WaterTemperature_K	All	Surface Water	-0.699	-0.698
Rain	All	FullSS	0.606	0.074
VaporWashoutRatio	Hg2	Divalent Mercury	0.604	1.811
SteadyState AdvectiveTransfer	All	Link from Air, to Air	0.385	0.043
Fractionofareaavailableforerosion	All	Soil - Surface	0.318	0.095
TotalErosionRate_kg_m2_day	All	Soil - Surface	0.318	0.095
ReductionRate	Hg2	Soil - Surface	-0.312	-0.312
rho	All	Soil - Surface	-0.312	-0.016
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.270	0.030
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.232	-0.025
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.226	0.025
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.196	-0.021
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.195	-0.021
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.187	-0.023
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.167	-0.019
		Link nom An, to An	-0.107	-0.01)
		Link from Air to Air	-0.161	-0.018
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.161 0.147	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer		Link from Air, to Air Link from Air, to Air	-0.161 0.147	-0.018 0.023
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4	All All	Link from Air, to Air	0.147	0.023
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property	All All Chemical	Link from Air, to Air Object Name	0.147	0.023 Sensitivity Score
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho	All All Chemical All	Cobject Name Surface water	0.147 Elasticity 6.377	0.023 Sensitivity Score 0.319
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate	All Chemical All Hg2	Chink from Air, to Air Object Name Surface water Facility	0.147 Elasticity 6.377 0.994	0.023 Sensitivity Score 0.319 0.994
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate	All Chemical All Hg2 MHg	Object Name Surface water Facility Sediment	0.147 Elasticity 6.377 0.994 -0.922	0.023 Sensitivity Score 0.319 0.994 -0.921
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient	All Chemical All Hg2 MHg MHg	Object Name Surface water Facility Sediment Benthic Invertebrate	0.147 Elasticity 6.377 0.994 -0.922 0.915	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate	All All Chemical All Hg2 MHg MHg Hg2	Object Name Surface water Facility Sediment Benthic Invertebrate Sediment	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood	All Chemical All Hg2 MHg MHg Hg2 MHg	Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate	All All Chemical All Hg2 MHg MHg Hg2 MHg All	Using the control of	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907 0.906	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate	All All Chemical All Hg2 MHg MHg Hg2 MHg Hg2 MHg Hg2 MHg MHg Hg2 MHg All MHg	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907 0.906 -0.748	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi	All All Chemical All Hg2 MHg MHg Hg2 MHg Hg2 MHg All All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907 0.906 -0.748 -0.736	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.245
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg1	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water FullSS	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216 0.072
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2 All All All All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.906 -0.272 -2.245 -0.221 0.724 -0.216 0.074 1.816 -0.538
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All All All	Cobject Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.906 -0.272 -2.245 -0.221 0.724 -0.216 0.074 1.816 -0.538 0.043
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Cobject Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.907 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216 0.074 1.816 -0.538 0.043 -0.322
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All All Hg2 All All Hg2 All All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216 -0.538 0.043 -0.322 -0.016
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All All Hg2 All All All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.722 -0.216 -0.538 0.043 -0.322 -0.016
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg1 All Hg2 All All All Hg1 All Hg2 All All All Hg2 All	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.722 -0.216 -0.538 0.043 -0.322 -0.016 0.014
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg1 All Hg2 All Hg2 All Hg2 All Hg2 All All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2	Cobject Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.249 -0.221 0.724 -0.216 0.074 -0.538 0.043 -0.322 -0.016 0.014 0.036 -0.258
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All All All All All All All Al	Link from Air, to Air Object Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface	0.147 Elasticity 6.377 0.994 -0.992 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216 0.074 -0.332 -0.016 0.031 -0.032 -0.0258 0.0072
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Cobject Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Sediment Surface Soil - Surface Soil - Surface Sediment Link from Air, to Air	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.277 -2.249 -0.221 0.724 -0.216 0.074 1.816 -0.538 0.043 -0.032 -0.016 0.014 0.036 -0.258 0.075
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Divalent Mercury Surface Water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249 0.249	0.023 Sensitivity Score 0.319 0.994 -0.92 2.744 0.900 0.900 0.277 -2.241 -0.22 0.724 -0.210 0.074 1.810 -0.322 -0.010 0.014 0.030 -0.250 0.075 0.075
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Divalent Mercury Surface Water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Soil - Surface Link from Air, to Air	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249 -0.232 0.226	0.023 Sensitivity Score 0.319 0.994 -0.92 2.744 0.900 0.900 0.277 -2.243 -0.22 0.724 -0.210 0.074 1.810 -0.538 0.044 -0.327 -0.010 0.014 0.030 -0.258 0.079 0.079 -0.020
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Divalent Mercury Surface Water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Sediment Surface water Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Link from Air, to Air Raccoon	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249 0.249 -0.232 0.226 -0.195	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.905 0.277 -2.243 -0.221 0.724 -0.216 0.072 1.816 -0.538 0.043 -0.014 0.030 -0.258 0.075 0.075 -0.025 -0.025 -0.025 -0.025
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All Hg1 All Hg2 All All All Hg2 All All All All All All All All All Al	Discet Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Soil - Surface Link from Air, to Air Raccoon Soil - Surface Link from Air, to Air Raccoon Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 -0.277 0.270 -0.258 0.249 -0.249 -0.232 0.226 -0.195 -0.194	0.023 Sensitivity Score 0.319 0.994 -0.921 2.746 0.906 0.908 0.277 -2.243 -0.221 0.724 -0.216 0.072 1.816 -0.538 0.043 -0.322 -0.016 0.014 0.030 -0.258 0.075 0.075 -0.022 -0.022 -0.022 -0.022
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg1 All Hg2 All All All Hg2 All All All All All All All All All Al	Discet Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Surface Soil - Surface Soil - Surface Link from Air, to Air Raccoon Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 0.277 0.270 -0.258 0.249 -0.232 0.226 -0.195 -0.194 -0.186	Sensitivity Score
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer Methyl Mercury in Raccoon in SurfSoil_SSE4 Property rho emissionRate DemethylationRate SedimentPartitioning_PartitionCoefficient MethylationRate AssimilationEfficiencyFromFood FoodIngestionRate TotalExcretionRate phi Kd Flushes_per_year Rain VaporWashoutRatio WaterTemperature_K SteadyState_AdvectiveTransfer ReductionRate rho rho SteadyState_AdvectiveTransfer DemethylationRate Fractionofareaavailableforerosion TotalErosionRate_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All All Chemical All Hg2 MHg MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All Hg2 All All Hg2 All All Hg2 All All Hg1 All Hg2 All All All Hg2 All All All All All All All All All Al	Discet Name Surface water Facility Sediment Benthic Invertebrate Sediment Raccoon Raccoon Raccoon Sediment Surface water Surface water FullSS Divalent Mercury Surface Water Link from Air, to Air Soil - Surface Sediment Link from Air, to Air Raccoon Soil - Surface Soil - Surface Link from Air, to Air Raccoon Soil - Surface Link from Air, to Air Raccoon Soil - Surface	0.147 Elasticity 6.377 0.994 -0.922 0.915 0.906 0.906 -0.748 -0.736 0.724 -0.721 0.607 0.605 -0.539 0.384 -0.322 -0.322 -0.277 0.270 -0.258 0.249 -0.249 -0.232 0.226 -0.195 -0.194	0.023 Sensitivity Score 0.319 0.992 -0.921 2.746 0.906 0.905 0.272 -2.245 -0.221 0.724 -0.216 0.072 1.816 -0.538 0.043 -0.322 -0.016 0.014 0.030 -0.258 0.075 0.075 -0.025 -0.025 -0.025 -0.025

Divalent Mercury in Raccoon in SurfSoil_SW2				
Property	Chemical	Object Name	Elasticity	Sensitivity Score
TotalExcretionRate	Hg2	Raccoon	-1.010	-1.010
SoilIngestionRate	All	Raccoon	0.998	0.299
emissionRate	Hg2	Facility	0.997	0.997
AssimilationEfficiencyFromSoils	Hg2	Raccoon	0.994	0.993
Rain	All	FullSS	0.685	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055
Fractionofareaavailableforerosion	All	Soil - Surface	-0.554	-0.166
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.554	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	
ReductionRate	Hg2	Soil - Surface	-0.380	
rho	All	Soil - Surface	-0.380	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.138	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.015
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.093	0.028
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air Link from Air, to Air	0.092	0.013
SteadyState AdvectiveTransfer		Link from Air, to Air		
, –	All	,	0.084	0.010
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.082	0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.078	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.072	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.063	-0.008
		~ ~ .	0.0-1	0.0.4
Kd	Hg2	Soil - Surface	0.061	0.061
Elemental Mercury in Raccoon in SurfSoil_SW2				
Elemental Mercury in Raccoon in SurfSoil_SW2 Property	Chemical	Object Name	Elasticity	Sensitivity Score
Elemental Mercury in Raccoon in SurfSoil_SW2 Property OxidationRate	Chemical Hg0	Object Name Raccoon	Elasticity -0.962	Sensitivity Score
Elemental Mercury in Raccoon in SurfSoil_SW2 Property OxidationRate HenryLawConstant	Chemical Hg0 Hg0	Object Name Raccoon Elemental Mercury	Elasticity -0.962 -0.815	Sensitivity Score -0.961 -0.815
Elemental Mercury in Raccoon in SurfSoil_SW2 Property OxidationRate HenryLawConstant AirTemperature_K	Chemical Hg0 Hg0 All	Object Name Raccoon Elemental Mercury FullSS	Elasticity -0.962 -0.815 0.796	Sensitivity Score -0.961 -0.815 0.001
Elemental Mercury in Raccoon in SurfSoil_SW2 Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils	Chemical Hg0 Hg0 All Hg0	Object Name Raccoon Elemental Mercury FullSS Raccoon	Elasticity -0.962 -0.815 0.796	Sensitivity Score -0.961 -0.815 0.001 0.757
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd	Chemical Hg0 Hg0 All Hg0 Hg0	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757	Sensitivity Score -0.961 -0.815 0.001 0.757
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon	Elasticity -0.962 -0.815 0.796 0.757 0.757	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg1 Hg1 All Hg2	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 Hg0 All Hg0 All All All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All All Hg2 All Hg2 All Hg2 Hg2	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 -0.227 -0.227 0.747 0.066 1.542
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All All Hg2 Hg2	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 All Hg2 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 All All Hg2 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119 -0.119 0.387
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 All Hg2 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 0.387	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 All All Hg2 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 Hg2	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 0.387	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119 -0.119 0.387 0.019
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg0 All Hg2 All Hg0 Hg0	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Elemental Mercury	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 0.387 -0.379	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119 -0.119 0.387 0.019 -0.019
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg0 Hg0	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 0.387 -0.379	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119 -0.119 0.387 0.019 -0.019 -0.0113
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 All Hg0 Hg0 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375	Sensitivity Score -0.961 -0.815 0.001 0.757 0.757 0.227 -0.227 0.747 0.066 1.542 -0.119 0.387 0.019 -0.019 -0.113 -0.041
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 All Hg1 Hg0 Hg0 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Elemental Mercury Soil - Surface Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375 -0.373 -0.342	Sensitivity Score -0.961 -0.815 -0.001 -0.757 -0.757 -0.227 -0.227 -0.747 -0.066 -1.542 -0.119 -0.119 -0.019 -0.019 -0.0113 -0.041 -0.040 -0.038
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 All Hg1 Hg1 Hg1 Hg2 Hg0 Hg1 Hg1	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Facility Faccoon	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375 -0.373 -0.342 0.272	Sensitivity Score -0.961 -0.815 -0.001 -0.757 -0.757 -0.227 -0.227 -0.747 -0.066 -1.542 -0.119 -0.119 -0.019 -0.019 -0.011 -0.040 -0.039 -0.039 -0.039
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate emissionRate SteadyState_AdvectiveTransfer EsteadyState_AdvectiveTransfer emissionRate	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 All Hg0 Hg0 All All Hg0 Hg0 All All Hg0 Hg0 All Hg0 Hg0 All Hg0 Hg0 All Hg0 Hg0 Hg0 All Hg0 Hg0	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375 -0.373 -0.342 0.272	Sensitivity Score -0.961 -0.815 -0.001 -0.757 -0.757 -0.227 -0.227 -0.747 -0.066 -1.542 -0.119 -0.119 -0.019 -0.019 -0.0113 -0.041 -0.040 -0.039 -0.253 -0.072
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 Hg0 All Hg0 Hg0 All All Hg0 All All Hg0 Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 Hg0 All Hg0 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Facility Faccoon	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375 -0.373 -0.342 0.272 0.253	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 Hg0 All Hg0 Hg0 All All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Soil - Surface Soil - Surface Soil - Surface Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.379 -0.375 -0.373 -0.342 0.272 0.253 0.240 0.167	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer InhalationAssimilationEfficiency	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 Hg0 Hg0 All All Hg0 All All Hg0 All Hg0 All Hg0 All Hg0 All Hg0 All All Hg0 All All Hg0 All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.375 -0.373 -0.342 0.272 0.253 0.240 0.167	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 Hg0 All Hg0 All All Hg0 All Hg0 All Hg0 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air Raccoon Raccoon Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 0.514 -0.398 -0.398 -0.387 -0.375 -0.375 -0.375 -0.375 -0.375 -0.375 -0.362 0.210 0.163 -0.163	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 All Hg0 Hg0 All All Hg0 All Hg0 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air Raccoon Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 -0.398 -0.398 -0.387 -0.375 -0.375 -0.375 -0.375 -0.163 -0.163 -0.163	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 All Hg0 Hg0 All Hg0 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air Raccoon Raccoon Link from Air, to Air Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 -0.398 -0.398 -0.387 -0.375 -0.375 -0.375 -0.375 -0.163 -0.163 -0.163 -0.165 -0.146	Sensitivity Score
Property OxidationRate HenryLawConstant AirTemperature_K AssimilationEfficiencyFromSoils Kd SoilIngestionRate Fractionofareaavailableforverticaldiffusion emissionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day ReductionRate rho D_pureair VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer emissionRate InhalationProps_B SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Chemical Hg0 Hg0 All Hg0 Hg0 All Hg2 All Hg2 All Hg2 All Hg0 Hg0 Hg0 Hg0 All Hg0 Hg0 All All Hg0 All Hg0 All All	Object Name Raccoon Elemental Mercury FullSS Raccoon Soil - Surface Raccoon Soil - Surface Facility FullSS Divalent Mercury Soil - Surface Link from Air, to Air Link from Air, to Air Facility Raccoon Link from Air, to Air Raccoon Link from Air, to Air	Elasticity -0.962 -0.815 0.796 0.757 0.757 -0.756 0.747 0.540 -0.398 -0.398 -0.387 -0.375 -0.375 -0.375 -0.375 -0.163 -0.163 -0.163	Sensitivity Score

Property	Chemical	Object Name	Elasticity	Sensitivity Score
emissionRate	Hg2	Facility	0.997	0.997
AssimilationEfficiencyFromSoils	MHg	Raccoon	0.985	0.984
SoilIngestionRate	All	Raccoon	0.984	0.295
DemethylationRate	MHg	Soil - Surface	-0.978	-0.977
MethylationRate	Hg2	Soil - Surface	0.969	0.968
TotalExcretionRate	MHg	Raccoon	-0.748	-2.245
Rain	All	FullSS	0.686	0.084
VaporWashoutRatio	Hg2	Divalent Mercury	0.686	2.05
Fractionofareaavailableforerosion	All	Soil - Surface	-0.542	-0.163
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.542	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.384	
ReductionRate	Hg2	Soil - Surface	-0.379	
rho	All	Soil - Surface	-0.379	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.305	
DemethylationRate	MHg	Raccoon	-0.363	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.244	
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SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.163	<u> </u>
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.157	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.138	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.131	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.101	-0.012
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.091	0.013
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.083	0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.083	0.010
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.082	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.081	0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.079	-0.010
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.071	-0.009
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.070	0.011
Divalent Mercury in White-tailed Deer in SurfSoil_SSE4			•	
Property		T	_	
	Chemical	Object Name	Elasticity	Sensitivity Score
TotalExcretionRate	Hg2	Object Name White-tailed Deer	Elasticity -1.010	
	Hg2			-1.010
TotalExcretionRate emissionRate		White-tailed Deer	-1.010	-1.010 0.994
TotalExcretionRate	Hg2 Hg2	White-tailed Deer Facility	-1.010 0.994	-1.010 0.994 0.924
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW	Hg2 Hg2 All All	White-tailed Deer Facility Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839	-1.010 0.994 0.922 -0.252
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter	Hg2 Hg2 All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer	-1.010 0.994 0.925 -0.839 -0.839	-1.010 0.994 0.924 -0.252 -0.839
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent	Hg2 Hg2 All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839 -0.839	-1.010 0.994 0.924 -0.252 -0.839 7
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied	Hg2 Hg2 All All All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839 -0.597 0.589	-1.010 0.994 0.924 -0.252 -0.839 -0.298
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589	-1.010 0.994 0.924 -0.252 -0.839 -0.298 0.177
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate	Hg2 Hg2 All All All All All All All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500	-1.010 0.994 0.925 0.255 0.258 -0.298 0.177 0.056
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468	-1.010 -1.010 -1.010 -1.010 -1.010 -1.010 -1.025 -1.025 -1.0298 -1.0298 -1.0298 -1.0468 -1.0468 -1.0468
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle	Hg2 Hg2 All All All All All All All Hg2	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465	-1.010 -1.010 -1.010 -1.010 -1.010 -1.025 -1.025 -1.0298 -1.0298 -1.0468 -1.338
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All Hg2 All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446	-1.010 -1.010 -1.010 -1.010 -1.010 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1.025 -1
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio	Hg2 Hg2 All All All All All All All All Hg2 All Hg2	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372	-1.010 -0.994 -0.252 -0.839 -0.298 -0.177 -0.056 -0.468 -0.465 -0.388 -0.462 -0.468
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All Hg2 All Hg2 All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339	-1.010 -0.994 -0.252 -0.839 -0.298 -0.177 -0.468 -0.465 -1.338 -0.046 -1.116 -0.038
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain	Hg2 Hg2 All All All All All All All All Hg2 All Hg2 All Hg2 All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325	-1.010 -0.994 -0.252 -0.839 -0.298 -0.177 -0.056 -0.466 -0.466 -0.466 -0.466 -0.388 -0.046 -0.038
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All Hg2 All Hg2 All Hg2 All Hg1 All Hg2 All All All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325	-1.010 -0.994 -0.252 -0.839 -0.298 -0.177 -0.298 -0.468 -0.465 -0.388 -0.046 -0.038 -0.046 -0.038
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day	Hg2 Hg2 All All All All All All All All Hg2 All Hg2 All Hg2 All All All	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325	-1.010 -0.994 -0.252 -0.2837 -0.298 -0.177 -0.056 -0.466 -0.466 -0.338 -0.046 -0.038 -0.046 -0.038 -0.046
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241	-1.010 -1.010 -1.010 -1.094 -0.252 -0.839 -0.299 -0.177 -0.056 -0.466 -0.466 -1.338 -0.040 -0.039 -0.039 -0.040 -0.029 -0.077 -0.029
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241	-1.010 -1.010 -1.010 -1.010 -1.094 -1.0252 -1.0839 -1.0299 -1.077 -1.0839 -1.0469 -1.1339 -1.0469 -1.110 -1.0339 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.04
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241	-1.010 -1.010 -1.010 -1.010 -1.094 -1.0252 -1.0839 -1.0299 -1.077 -1.0839 -1.0469 -1.1339 -1.0469 -1.110 -1.0339 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.0469 -1.04
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.597 0.589 0.500 -0.468 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241	-1.010 -1.010 -1.010 -1.010 -1.099 -1.025 -1.0839 -1.0290 -1.025 -1.0839 -1.090 -1.090 -1.110 -1.030 -1.040 -1.010 -1.010 -1.030 -1.0029 -1.0029 -1.0029 -1.0029 -1.0029
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air Link from Air, to Air Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241 0.217	-1.010 -1.010 -1.010 -1.094 -0.252 -0.839 -0.298 -0.177 -0.056 -0.468 -0.468 -0.468 -0.040 -0.038 -0.040 -0.029 -0.022
TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241 0.217 -0.215 -0.207	-1.010 -1.010 -1.010 -1.094 -0.252 -0.839 -0.298 -0.177 -0.056 -0.468 -0.468 -0.468 -0.468 -0.040 -0.038 -0.040 -0.020 -0.022 -0.022
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TotalExcretionRate emissionRate AllowExchange_SteadyState_forAir BW NumberofIndividualsPerSquareMeter WaterContent WetDepInterceptionFraction_UserSupplied SteadyState_AdvectiveTransfer LitterFallRate AllowExchange_SteadyState_forOther TransferFactortoLeafParticle SteadyState_AdvectiveTransfer VaporWashoutRatio SteadyState_AdvectiveTransfer Rain SteadyState_AdvectiveTransfer VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	Hg2 Hg2 All All All All All All All All All Al	White-tailed Deer Facility Leaf - Coniferous Forest White-tailed Deer White-tailed Deer Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Leaf - Coniferous Forest Link from Air, to Air Divalent Mercury Link from Air, to Air FullSS Link from Air, to Air Soil - Surface Link from Air, to Air	-1.010 0.994 0.925 -0.839 -0.839 -0.597 0.589 0.500 -0.468 0.465 0.446 0.412 0.372 -0.339 0.325 0.261 0.256 -0.241 0.217 -0.215 -0.200 -0.191 -0.181 -0.180 0.171	-1.010 -1.010 -1.010 -1.010 -1.099 -0.252 -0.2533 -0.298 -0.177 -0.056 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -0.466 -
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Property	Chemical	Object Name	Elasticity	Sensitivity Score
rho	All	Surface water	3.206	0.160
WaterIngProps_B	All	White-tailed Deer	1.920	0.576
InhalationProps_B	All	White-tailed Deer	1.488	0.446
WaterTemperature_K	All	Surface Water	-1.090	-1.089
OxidationRate	Hg0	White-tailed Deer	-0.962	-0.961
emissionRate	Hg2	Facility	0.537	0.537
AssimilationEfficiencyFromWater	Hg0	White-tailed Deer	0.504	0.504
WaterIngProps_A	All	White-tailed Deer	0.504	0.151
emissionRate	Hg0	Facility	0.463	0.463
Flushes_per_year	All	Surface water	-0.443	-0.133
InhalationAssimilationEfficiency	Hg0	White-tailed Deer	0.439	
InhalationProps_A	All	White-tailed Deer	0.439	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.393	
Rain	All	FullSS	0.331	0.040
VaporWashoutRatio	Hg2	Divalent Mercury	0.327	0.982
ReductionRate	Hg2	Surface water	0.318	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.264	-0.029
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.259	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.237	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.238	
Dimensionless Viscous Sublayer Thickness	All	Surface water	0.225	0.068
horizontalWindSpeed	All	FullSS	-0.225	
WaterColumnDissPartitioning_TimeToReachAlphaofEquil	Hg0	Macrophyte	0.223	0.665
BiomassPerArea_kg_m2	All	Macrophyte	-0.221	-0.221
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Macrophyte	-0.221	-0.221
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.213	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.206	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.200	
	All	Link from Air, to Air	-0.199	-0.024
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.192	
SteadyState_AdvectiveTransfer	All	Elik Holli Ali, to Ali	-0.163	-0.021
Methyl Mercury in White-tailed Deer in SurfSoil_SSE4	Chemical	Object Name	Flacticity	Sancitivity Score
Property	Chemical	Object Name	Elasticity	Sensitivity Score
Property emissionRate	Hg2	Facility	0.995	0.995
Property emissionRate AssimilationEfficiencyFromSoils	Hg2 MHg	Facility White-tailed Deer	0.995 0.985	0.995 0.984
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate	Hg2 MHg All	Facility White-tailed Deer White-tailed Deer	0.995 0.985 0.985	0.995 0.984 0.295
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate	Hg2 MHg All MHg	Facility White-tailed Deer White-tailed Deer Soil - Surface	0.995 0.985 0.985 -0.979	0.995 0.984 0.295 -0.978
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate	Hg2 MHg All MHg Hg2	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface	0.995 0.985 0.985 -0.979 0.970	0.995 0.984 0.295 -0.978 0.969
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate	Hg2 MHg All MHg Hg2 MHg	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer	0.995 0.985 0.985 -0.979 0.970 -0.748	0.995 0.984 0.295 -0.978 0.969 -2.245
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain	Hg2 MHg All MHg Hg2 MHg All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608	0.995 0.984 0.295 -0.978 0.969 -2.245
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio	Hg2 MHg All MHg Hg2 MHg All Hg2	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day	Hg2 MHg All Hg2 MHg Hg2 MHg All Hg2 All Hg2 All All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All Hg1 All All All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate	Hg2 MHg All Hg2 MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho	Hg2 MHg All Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Soil - Surface	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer	Hg2 MHg All Hg2 MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2 All All Hg1 All Hg2 All	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 0.265	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All Hg2 All All All Hg2 All All Hg2 All MHg	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.365 -0.365 -0.265 -0.258	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2 All MHg All Hg2 All All Hg2 All All Hg2 All All All Hg2	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.365 -0.365 -0.265 -0.258 -0.227	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All Hg1 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.365 -0.365 -0.265 -0.258 -0.227	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2 All All All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.365 -0.365 -0.265 -0.227 0.223 -0.193	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.025
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air Link from Air, to Air Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.265 -0.227 0.223 -0.193 -0.187	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.265 -0.227 0.223 -0.193 -0.178	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.022
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.227 -0.223 -0.193 -0.178	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.022
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.227 -0.223 -0.193 -0.178 -0.178 -0.173 -0.167	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.022 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 0.365 -0.365 -0.223 -0.193 -0.187 -0.173 -0.167 -0.162	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.022 -0.019 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAit SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 0.365 -0.365 -0.265 -0.227 0.223 -0.193 -0.187 -0.178 -0.162 0.141	0.995 0.984 0.295 -0.978 0.965 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.025 -0.025 -0.025 -0.021 -0.019 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer AllowExchange_SteadyState_forAir SteadyState_AdvectiveTransfer	Hg2 MHg All Hg2 MHg All Hg2 MHg All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.265 -0.227 -0.193 -0.187 -0.178 -0.162 0.141 0.140	0.995 0.984 0.295 -0.978 0.965 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.025 -0.025 -0.025 -0.021 -0.019 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg All Hg2 MHg All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.365 -0.365 -0.365 -0.227 -0.173 -0.173 -0.162 0.141 0.140 0.134	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.019 -0.162 0.022
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.265 -0.227 -0.173 -0.173 -0.167 -0.162 0.141 0.140 0.134 -0.129	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.019 -0.019 -0.162 0.022 0.019 -0.019 -0.019 -0.019 -0.019 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 0.365 -0.365 -0.265 -0.227 0.223 -0.193 -0.173 -0.167 -0.162 0.141 0.140 0.134 -0.129 -0.120	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.019 -0.162 0.022 0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019
Property emissionRate AssimilationEfficiencyFromSoils SoilIngestionRate DemethylationRate MethylationRate MethylationRate TotalExcretionRate Rain VaporWashoutRatio Fractionofareaavailableforerosion TotalErosionRate_kg_m2_day SteadyState_AdvectiveTransfer ReductionRate rho SteadyState_AdvectiveTransfer DemethylationRate SteadyState_AdvectiveTransfer	Hg2 MHg All MHg Hg2 MHg All Hg2 All Hg2 All All All All All All All All All Al	Facility White-tailed Deer White-tailed Deer Soil - Surface Soil - Surface White-tailed Deer FullSS Divalent Mercury Soil - Surface Soil - Surface Link from Air, to Air Soil - Surface Link from Air, to Air White-tailed Deer Link from Air, to Air	0.995 0.985 0.985 0.985 -0.979 0.970 -0.748 0.608 0.607 -0.557 -0.557 -0.365 -0.365 -0.265 -0.227 -0.173 -0.173 -0.167 -0.162 0.141 0.140 0.134 -0.129	0.995 0.984 0.295 -0.978 0.969 -2.245 0.074 1.822 -0.167 -0.167 0.041 -0.365 -0.018 0.029 -0.258 -0.025 -0.021 -0.020 -0.019 -0.162 0.022 0.019 -0.015 -0.013 -0.013

Property	Chemical	Object Name	Elasticity	Sensitivity Score
TotalExcretionRate	Hg2	White-tailed Deer	-1.010	-1.010
emissionRate	Hg2	Facility	0.996	0.996
VaporWashoutRatio	Hg2	Divalent Mercury	0.661	1.982
Rain	All	FullSS	0.644	0.079
AssimilationEfficiencyFromSoils	Hg2	White-tailed Deer	0.610	0.609
SoilIngestionRate	All	White-tailed Deer	0.534	0.160
AllowExchange_SteadyState_forAir	All	Leaf - Grasses/Herbs	0.454	0.453
LitterFallRate	All	Leaf - Grasses/Herbs	-0.440	-0.034
AllowExchange_SteadyState_forOther	All	Leaf - Grasses/Herbs	0.433	0.012
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.392	-0.045
TransferFactortoLeafParticle	Hg2	Leaf - Grasses/Herbs	0.369	
WetDepInterceptionFraction_UserSupplied	All	Leaf - Grasses/Herbs	0.361	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.353	
BW	All	White-tailed Deer	-0.324	
NumberofIndividualsPerSquareMeter	All	White-tailed Deer	-0.323	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.313	
Fractionofareaavailableforerosion	All	Soil - Surface	-0.300	
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.300	
WaterContent	All	Leaf - Grasses/Herbs	-0.247	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.206	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.206	
rho	All	Soil - Surface	-0.205	
ReductionRate	Hg2	Soil - Surface	-0.205	
SteadyState AdvectiveTransfer	All	Link from Air, to Air	-0.203	
SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.109	
FoodIngestionRate	All	White-tailed Deer	0.145	
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.143	
·	Hg2	Soil - Surface	0.124	
VaporDryDepositionVelocity_m_day SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.114	
	All	Link from Air, to Air	0.107	
SteadyState_AdvectiveTransfer	All	Link Holli Air, to Air	0.099	0.011
Elemental Mercury in White-tailed Deer in SurfSoil_SW2				
Property	Chemical	Object Name	Flacticity	Sonsitivity Score
Property InhalationProps B	Chemical	Object Name White toiled Deer	Elasticity 3 106	Sensitivity Score
InhalationProps_B	All	White-tailed Deer	3.106	0.932
InhalationProps_B OxidationRate	All Hg0	White-tailed Deer White-tailed Deer	3.106 -0.962	0.932 -0.961
InhalationProps_B OxidationRate emissionRate	All Hg0 Hg0	White-tailed Deer White-tailed Deer Facility	3.106 -0.962 0.926	0.932 -0.961 0.926
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency	All Hg0 Hg0 Hg0	White-tailed Deer White-tailed Deer Facility White-tailed Deer	3.106 -0.962 0.926 0.915	0.932 -0.961 0.926 0.275
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A	All Hg0 Hg0 Hg0 All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer	3.106 -0.962 0.926 0.915 0.915	0.932 -0.961 0.926 0.275 0.275
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508	0.932 -0.961 0.926 0.275 0.275 -0.059
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399	0.932 -0.961 0.926 0.275 0.275 -0.059
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air Link from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202	0.932 -0.961 0.926 0.275 -0.059 0.057 -0.042 -0.033 0.025
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer	3.106 -0.962 0.926 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188	0.932 -0.961 0.926 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181	0.932 -0.961 0.926 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air Link from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air Link from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013
InhalationProps_B OxidationRate emissionRate InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013
InhalationProps_B OxidationRate emissionRate InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Unk from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.012 0.011
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Unk from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.012 0.011 0.010
InhalationProps_B OxidationRate emissionRate InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Unk from Air, to Air Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.012 0.011 0.010 0.013
InhalationProps_B OxidationRate emissionRate InhalationProps_A SteadyState_AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090 -0.083 -0.083	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.012 0.011 0.010 0.013 -0.083 -0.098
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090 -0.083 -0.083	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.012 0.011 0.010 0.013 -0.083 -0.009
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K SteadyState_AdvectiveTransfer	All Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 -0.083 -0.083 -0.081 -0.077	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.025 -0.056 0.022 -0.017 0.018 -0.013 -0.013 -0.013 -0.009
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K SteadyState_AdvectiveTransfer AssimilationEfficiencyFromSoils	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer Facility White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090 -0.083 -0.083 -0.081 -0.077	0.932 -0.961 0.926 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.023 -0.056 0.022 -0.017 0.018 -0.013 -0.010 0.010 0.013 -0.083 -0.009 0.0000 -0.008
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K SteadyState_AdvectiveTransfer AssimilationEfficiencyFromSoils SoilIngestionRate	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air Elemental Mercury Link from Air, to Air FullSS Link from Air, to Air White-tailed Deer White-tailed Deer	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 -0.083 -0.083 -0.081 -0.077 0.075	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.022 -0.017 0.018 -0.013 -0.013 -0.083 -0.009 0.0000 -0.008
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer AdvectiveTransfer AdvectiveTransfer AdvectiveTransfer AssimilationEfficiencyFromSoils SoilIngestionRate Kd	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air Elemental Mercury Link from Air, to Air FullSS Link from Air, to Air White-tailed Deer White-tailed Deer Soil - Surface	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090 -0.083 -0.083 -0.081 -0.077 0.075 0.074	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.056 0.022 -0.017 0.018 -0.013 -0.010 0.010 0.013 -0.083 -0.009 0.0000 -0.008
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K SteadyState_AdvectiveTransfer AssimilationEfficiencyFromSoils SoilIngestionRate	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air White-tailed Deer White-tailed Deer White-tailed Deer Soil - Surface Link from Air, to Air	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 -0.083 -0.083 -0.081 -0.077 0.075	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.056 0.022 -0.017 0.018 -0.013 -0.010 0.010 0.013 -0.083 -0.009 0.0000 -0.008
InhalationProps_B OxidationRate emissionRate InhalationAssimilationEfficiency InhalationProps_A SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer SteadyState_AdvectiveTransfer BW SteadyState_AdvectiveTransfer AdvectiveTransfer HenryLawConstant SteadyState_AdvectiveTransfer AirTemperature_K SteadyState_AdvectiveTransfer AssimilationEfficiencyFromSoils SoilIngestionRate Kd	All Hg0 Hg0 Hg0 All All All All All All All All All Al	White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer White-tailed Deer Link from Air, to Air White-tailed Deer Link from Air, to Air Elemental Mercury Link from Air, to Air FullSS Link from Air, to Air White-tailed Deer White-tailed Deer Soil - Surface	3.106 -0.962 0.926 0.915 0.915 -0.508 0.399 -0.381 -0.293 0.224 -0.202 -0.188 0.181 -0.155 0.128 -0.110 -0.105 0.099 0.095 0.090 -0.083 -0.083 -0.081 -0.077 0.075 0.074	0.932 -0.961 0.926 0.275 0.275 -0.059 0.057 -0.042 -0.033 0.025 -0.056 0.022 -0.017 0.018 -0.013 -0.010 0.010 0.013 -0.083 -0.099 0.000 -0.008 0.075 0.022 0.074 -0.009

Methyl Mercury in White-tailed Deer in SurfSoil_SW2						
Property	Chemical	Object Name	Elasticity	Sensitivity Score		
AssimilationEfficiencyFromSoils	MHg	White-tailed Deer	0.999	0.998		
SoilIngestionRate	All	White-tailed Deer	0.999	0.3		
emissionRate	Hg2	Facility	0.997	0.997		
DemethylationRate	МНд	Soil - Surface	-0.991	-0.99		
MethylationRate	Hg2	Soil - Surface	0.982	0.981		
TotalExcretionRate	МНд	White-tailed Deer	-0.748	-2.245		
Rain	All	FullSS	0.685	0.084		
VaporWashoutRatio	Hg2	Divalent Mercury	0.685	2.055		
Fractionofareaavailableforerosion	All	Soil - Surface	-0.556	-0.167		
TotalErosionRate_kg_m2_day	All	Soil - Surface	-0.556	-0.167		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.386	-0.042		
ReductionRate	Hg2	Soil - Surface	-0.38	-0.379		
rho	All	Soil - Surface	-0.379	-0.019		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.309	-0.036		
DemethylationRate	MHg	White-tailed Deer	-0.258	-0.258		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.247	0.035		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.166	0.018		
SteadyState_AdvectiveTransfer	All	Link from Air, to Sink	-0.158	-0.017		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.139	-0.016		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.132	-0.015		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.102	-0.012		
VaporDryDepositionVelocity_m_day	Hg2	Soil - Surface	0.093	0.028		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.092	0.013		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.012		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.084	0.01		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.083	-0.009		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.082	0.009		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.078	-0.01		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	-0.073	-0.009		
SteadyState_AdvectiveTransfer	All	Link from Air, to Air	0.07	0.008		

^a For additional description of the input properties used in TRIM.FaTE, along with a key between common names used for properties and their TRIM.FaTE code names, see Module 16 of the *TRIM.FaTE User's Guide* and the TRIM.FaTE technical support documents.

Appendix D.3. Properties with Absolute Elasticities > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Elasticity ^d
EmissionRate	Hg2	Source	Facility	78	17	0.98
VaporWashoutRatio	MHg	Chemical	Divalent Mercury	71	17	0.65
Rain	All	Scenario	FullSS	71	17	0.65
rho	All	Compartment	Surface water	47	14	4.69
WaterTemperature_K	All	VolumeElement	Surface water	38	12	3.63
EmissionRate	Hg0	Source	Facility	15	11	0.84
SedimentDepositionVelocity	All	Compartment	Surface water	13	11	0.73
Flushes_per_year	All	Compartment	Surface water	48	10	0.88
SuspendedSedimentconcentration	All	Compartment	Surface water	29	10	0.67
HenryLawConstant	Hg0	Chemical	Elemental Mercury	12	10	0.80
Kd	Hg2	Compartment	Surface water	19	9	0.74
DemethylationRate	MHg	Compartment	Soil - Surface	11	8	0.96
MethylationRate	Hg2	Compartment	Soil - Surface	11	8	0.95
AirTemperature_K	All	Scenario	FullSS	13	7	1.07
phi	All	Compartment	Sediment	25	6	1.13
Fractionofareaavailableforerosion	All	Compartment	Soil - Surface	20	6	0.55
TotalErosionRate_kg_m2_day	All	Compartment	Soil - Surface	20	6	0.55
DemethylationRate	MHg	Compartment	Sediment	11	6	1.00
Kd	MHg	Compartment	Surface water	11	6	0.72
MethylationRate	Hg2	Compartment	Sediment	11	6	0.95
MethylationRate	Hg2	Compartment	Surface water	8	6	0.66
SteadyState_AdvectiveTransfer	All	Link	from Air, to Air	10	5	0.53
SedimentPartitioning_PartitionCoefficient	Hg2	Compartment	Benthic Invertebrate	9	5	0.85
SedimentPartitioning_PartitionCoefficient	MHg	Compartment	Benthic Invertebrate	9	5	0.99
rho	All	Compartment	Sediment	8	5	0.98
ReductionRate	Hg2	Compartment	Sediment	5	5	0.87
SedimentPartitioning_PartitionCoefficient	Hg0	Compartment	Benthic Invertebrate	7	4	1.00
Kd	Hg0	Compartment	Surface water	4	4	0.61
AlgaeDensity_g_m3	All	Compartment	Surface water	12	3	1.01
AlgaeGrowthRate	All	Compartment	Surface water	12	3	1.01
AlgaeRadius	All	Compartment	Surface water	12	3	1.01
AlgaeUptakeRate	Hg2	Compartment	Surface water	6	3	1.00
AlgaeUptakeRate	MHg	Compartment	Surface water	6	3	1.00
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Omnivore	6	3	0.85
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Herbivore	6	3	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Omnivore	6	3	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Herbivore	6	3	1.00
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Omnivore	6	3	0.83
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Herbivore	6	3	0.93

Appendix D.3. Properties with Absolute Elasticities > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Elasticity ^d
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Omnivore	6	3	0.68
NumberofFishperSquareMeter	All	Compartment	Water-column Herbivore	6	3	0.54
Fractionofareaavailableforverticaldiffusion	All	Compartment	Soil - Surface	5	3	0.83
D_pureair	MHg	Chemical	Methyl Mercury	3	3	0.68
AverageVerticalVelocity	All	Compartment	Soil - Surface	5	2	0.95
Kd	Hg2	Compartment	Soil - Surface	5	2	0.82
ReductionRate	Hg2	Compartment	Soil - Root Zone	5	2	0.99
rho	All	Compartment	Soil - Root Zone	5	2	0.99
HenryLawConstant	MHg	Chemical	Methyl Mercury	4	2	0.80
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Coniferous Forest	4	2	0.97
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Omnivore	4	2	0.93
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Omnivore	4	2	1.00
Dimensionless Viscous Sublayer Thickness	All	Compartment	Surface water	4	2	0.68
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Omnivore	4	2	0.92
OxidationRate	Hg0	Compartment	Benthic Omnivore	4	2	1.01
horizontalWindSpeed	All	Scenario	FullSS	4	2	0.68
isDay_SteadyState_forOther	All	Scenario	FullSS	4	2	0.98
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Carnivore	3	2	0.51
DemethylationRate	MHg	Compartment	Soil - Root Zone	3	2	1.01
Kd	Hg0	Compartment	Soil - Surface	3	2	0.92
MethylationRate	Hg2	Compartment	Soil - Root Zone	3	2	1.00
isDay_SteadyState_forAir	All	Scenario	FullSS	3	2	0.99
BW	All	Compartment	White-tailed Deer	2	2	0.67
NumberofIndividualsPerSquareMeter	All	Compartment	White-tailed Deer	2	2	0.67
WaterContent	All	Compartment	Leaf - Coniferous Forest	2	2	0.62
WetDepInterceptionFraction_UserSupplied	All	Compartment	Leaf - Coniferous Forest	2	2	0.64
Water_content	All	Compartment	Worm	6	1	5.25
FoodIngestionRate	All	Compartment	Common Loon	4	1	0.99
FoodIngestionRate	All	Compartment	Raccoon	3	1	0.82
SoilIngestionRate	All	Compartment	Mouse	3	1	0.92
SoilIngestionRate	All	Compartment	Raccoon	3	1	0.91
SoilIngestionRate	All	Compartment	White-tailed Deer	3	1	0.84
D_pureair	Hg0	Chemical	Elemental Mercury	2	1	0.61
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Grasses/Herbs	2	1	0.99
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Coniferous Forest	2	1	1.01
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Grasses/Herbs	2	1	1.00
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Carnivore	2	1	0.97
AssimilationEfficiencyFromFood	Hg2	Compartment	Common Loon	2	1	0.59
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Carnivore	2	1	0.93

Appendix D.3. Properties with Absolute Elasticities > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Elasticity ^d
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Carnivore	2	1	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Carnivore	2	1	0.73
AssimilationEfficiencyFromFood	MHg	Compartment	Common Loon	2	1	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Omnivore	2	1	0.52
AssimilationEfficiencyFromSoils	Hg2	Compartment	Mouse	2	1	0.96
AssimilationEfficiencyFromSoils	MHg	Compartment	Mouse	2	1	0.93
AssimilationEfficiencyFromSoils	MHg	Compartment	White-tailed Deer	2	1	0.99
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Coniferous Forest	2	1	0.99
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Grasses/Herbs	2	1	0.98
DemethylationRate	MHg	Compartment	Common Loon	2	1	0.51
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Carnivore	2	1	0.99
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Carnivore	2	1	1.00
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Carnivore	2	1	0.96
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Water-column Carnivore	2	1	0.97
InhalationAssimilationEfficiency	Hg0	Compartment	Common Loon	2	1	0.91
InhalationAssimilationEfficiency	Hg0	Compartment	Mouse	2	1	0.65
InhalationProps_A	All	Compartment	Common Loon	2	1	0.91
InhalationProps_A	All	Compartment	Mouse	2	1	0.65
InhalationProps_B	All	Compartment	Common Loon	2	1	1.03
InhalationProps_B	All	Compartment	Mouse	2	1	2.06
InhalationProps_B	All	Compartment	White-tailed Deer	2	1	2.30
Kd	Hg0	Compartment	Soil - Root Zone	2	1	1.00
NumberofFishperSquareMeter	All	Compartment	Water-column Carnivore	2	1	0.51
NumberofFishperSquareMeter	All	Compartment	Water-column Omnivore	2	1	0.52
OxidationRate	Hg0	Compartment	Benthic Carnivore	2	1	1.01
OxidationRate	Hg0	Compartment	Common Loon	2	1	0.96
OxidationRate	Hg0	Compartment	Mouse	2	1	0.96
OxidationRate	Hg0	Compartment	Raccoon	2	1	0.96
OxidationRate	Hg0	Compartment	White-tailed Deer	2	1	0.96
ReductionRate	Hg2	Compartment	Soil - Surface	2	1	0.51
TotalExcretionRate	Hg2	Compartment	Common Loon	2	1	1.01
TotalExcretionRate	Hg2	Compartment	Mouse	2	1	1.01
TotalExcretionRate	Hg2	Compartment	Raccoon	2	1	1.01
TotalExcretionRate	Hg2	Compartment	White-tailed Deer	2	1	1.01
TotalExcretionRate	MHg	Compartment	Mouse	2	1	0.75
TotalExcretionRate	MHg	Compartment	Raccoon	2	1	0.75
TotalExcretionRate	MHg	Compartment	White-tailed Deer	2	1	0.75
WetDensity	All	Compartment	Leaf - Coniferous Forest	2	1	0.98
WetDensity	All	Compartment	Leaf - Grasses/Herbs	2	1	0.99

Appendix D.3. Properties with Absolute Elasticities > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Elasticity ^d
WormSoilPartitionCoefficient_dryweight	Hg2	Compartment	Worm	2	1	1.00
WormSoilPartitionCoefficient_dryweight	Hg0	Compartment	Worm	2	1	1.00
WormSoilPartitionCoefficient_dryweight	MHg	Compartment	Worm	2	1	1.00
rho	All	Compartment	Soil - Surface	2	1	0.51
AllowExchange_SteadyState_forOther	All	Compartment	Stem - Grasses/Herbs	1	1	0.96
AssimilationEfficiencyFromFood	Hg2	Compartment	Raccoon	1	1	0.54
AssimilationEfficiencyFromFood	Hg0	Compartment	Raccoon	1	1	0.99
AssimilationEfficiencyFromFood	MHg	Compartment	Raccoon	1	1	0.91
AssimilationEfficiencyFromSoils	Hg2	Compartment	Raccoon	1	1	0.99
AssimilationEfficiencyFromSoils	Hg2	Compartment	White-tailed Deer	1	1	0.61
AssimilationEfficiencyFromSoils	Hg0	Compartment	Raccoon	1	1	0.76
AssimilationEfficiencyFromSoils	MHg	Compartment	Raccoon	1	1	0.98
AssimilationEfficiencyFromWater	Hg0	Compartment	White-tailed Deer	1	1	0.50
DegreeStomatalOpening	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87
FlowRateofTranspiredWaterperAreaofLeafSurface	All	Compartment	Stem - Grasses/Herbs	1	1	0.96
FoodIngestionRate	All	Compartment	Mouse	1	1	0.55
FoodIngestionRate	All	Compartment	White-tailed Deer	1	1	0.51
InhalationAssimilationEfficiency	Hg0	Compartment	White-tailed Deer	1	1	0.92
InhalationProps_A	All	Compartment	White-tailed Deer	1	1	0.92
Kd	MHg	Compartment	Soil - Root Zone	1	1	1.00
LitterFallRate	All	Compartment	Leaf - Coniferous Forest	1	1	0.51
LitterFallRate	All	Compartment	Leaf - Grasses/Herbs	1	1	0.95
ReductionRate	Hg2	Compartment	Surface water	1	1	0.63
StomatalAreaNormalizedEffectiveDiffusionPathLength	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87
TSCF	MHg	Compartment	Stem - Grasses/Herbs	1	1	0.99
WaterContent	All	Compartment	Leaf - Grasses/Herbs	1	1	0.53
WaterIngProps_A	All	Compartment	White-tailed Deer	1	1	0.50
WaterIngProps_B	All	Compartment	Mouse	1	1	0.97
WaterIngProps_B	All	Compartment	White-tailed Deer	1	1	1.92
WetDepInterceptionFraction_UserSupplied	All	Compartment	Leaf - Grasses/Herbs	1	1	0.83
WetMassperArea	All	Compartment	Leaf - Coniferous Forest	1	1	0.82
WetMassperArea	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87

^a For additional description of the input properties used in TRIM.FaTE, along with a key between common names used for properties and their TRIM.FaTE code names, see Module 16 of the *TRIM.FaTE User's Guide* and the TRIM.FaTE technical support documents.

^b Number of outputs (maximum of 93) for which the property has absolute elasticity greater than 0.5.

[°] Number of compartment types (maximum of 17) for which the property has absolute elasticity greater than 0.5.

^d Calculated using only those elasticities with absolute values greater than 0.5.

Appendix D.4. Properties with Absolute Sensitivity Scores > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Score ^d
EmissionRate	Hg2	Source	Facility	78	17	0.98
VaporWashoutRatio	Hg2	Chemical	Divalent Mercury	81	17	1.81
WaterTemperature_K	All	VolumeElement	Surface water	38	12	3.63
EmissionRate	Hg0	Source	Facility	15	11	0.84
HenryLawConstant	Hg0	Chemical	Elemental Mercury	12	10	0.80
Kd	Hg2	Compartment	Surface water	19	9	0.74
DemethylationRate	MHg	Compartment	Soil - Surface	11	8	0.96
MethylationRate	Hg2	Compartment	Soil - Surface	11	8	0.95
DemethylationRate	MHg	Compartment	Sediment	11	6	0.99
Kd	MHg	Compartment	Surface water	11	6	0.72
MethylationRate	Hg2	Compartment	Sediment	11	6	0.95
MethylationRate	Hg2	Compartment	Surface water	8	6	0.66
ReductionRate	Hg2	Compartment	Sediment	5	5	0.87
SedimentPartitioning_PartitionCoefficient	Hg2	Compartment	Benthic Invertebrate	9	5	2.55
SedimentPartitioning_PartitionCoefficient	MHg	Compartment	Benthic Invertebrate	11	5	2.65
Kd	Hg0	Compartment	Surface water	4	4	0.61
phi	All	Compartment	Sediment	4	4	0.66
SedimentPartitioning_PartitionCoefficient	Hg0	Compartment	Benthic Invertebrate	7	4	2.99
WaterColumnDissolvedPartitioning_PartitionCoefficient	Hg0	Compartment	Macrophyte	6	4	0.83
WaterColumnDissolvedPartitioning_TimeToReachAlphaofEquil	Hg0	Compartment	Macrophyte	6	4	0.83
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Omnivore	6	3	0.85
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Herbivore	6	3	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Omnivore	6	3	0.99
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Herbivore	6	3	1.00
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Omnivore	6	3	0.83
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Herbivore	6	3	0.93
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Omnivore	6	3	0.68
NumberofFishperSquareMeter	All	Compartment	Water-column Herbivore	6	3	0.54
TransferFactortoLeafParticle	Hg2	Compartment	Leaf - Coniferous Forest	3	3	1.19
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Coniferous Forest	4	2	0.97
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Omnivore	4	2	0.93
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Omnivore	4	2	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Carnivore	3	2	0.51
DemethylationRate	MHg	Compartment	Soil - Root Zone	3	2	1.00
HenryLawConstant	MHg	Chemical	Methyl Mercury	4	2	0.80
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Omnivore	4	2	0.92
Kd	Hg2	Compartment	Soil - Surface	5	2	0.82
Kd	Hg0	Compartment	Soil - Surface	3	2	0.92
MethylationRate	Hg2	Compartment	Soil - Root Zone	3	2	0.99

Appendix D.4. Properties with Absolute Sensitivity Scores > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq ^b	Compartment Types ^c	Mean Absolute Score ^d
NumberofIndividualsPerSquareMeter	All	Compartment	White-tailed Deer	2	2	0.67
OxidationRate	Hg0	Compartment	Benthic Omnivore	4	2	1.01
ReductionRate	Hg2	Compartment	Soil - Root Zone	5	2	0.99
horizontalWindSpeed	All	Scenario	SteadyState	4	2	0.68
isDay_SteadyState_forAir	All	Scenario	SteadyState	3	2	0.99
isDay_SteadyState_forOther	All	Scenario	SteadyState	4	2	0.98
AllowExchange_SteadyState_forAir	All	Compartment	Leaf - Grasses/Herbs	2	1	0.99
AllowExchange_SteadyState_forOther	All	Compartment	Leaf - Coniferous Forest	2	1	1.01
AssimilationEfficiencyFromFood	Hg2	Compartment	Benthic Carnivore	2	1	0.97
AssimilationEfficiencyFromFood	Hg2	Compartment	Common Loon	2	1	0.59
AssimilationEfficiencyFromFood	Hg2	Compartment	Raccoon	1	1	0.54
AssimilationEfficiencyFromFood	Hg2	Compartment	Water-column Carnivore	2	1	0.93
AssimilationEfficiencyFromFood	Hg0	Compartment	Benthic Carnivore	2	1	1.00
AssimilationEfficiencyFromFood	Hg0	Compartment	Raccoon	1	1	0.99
AssimilationEfficiencyFromFood	MHg	Compartment	Benthic Carnivore	2	1	0.73
AssimilationEfficiencyFromFood	MHg	Compartment	Common Loon	2	1	1.00
AssimilationEfficiencyFromFood	MHg	Compartment	Raccoon	1	1	0.91
AssimilationEfficiencyFromFood	MHg	Compartment	Water-column Omnivore	2	1	0.52
AssimilationEfficiencyFromSoils	Hg2	Compartment	Mouse	2	1	0.96
AssimilationEfficiencyFromSoils	Hg2	Compartment	Raccoon	1	1	0.99
AssimilationEfficiencyFromSoils	Hg2	Compartment	White-tailed Deer	1	1	0.61
AssimilationEfficiencyFromSoils	Hg0	Compartment	Raccoon	1	1	0.76
AssimilationEfficiencyFromSoils	MHg	Compartment	Mouse	2	1	0.93
AssimilationEfficiencyFromSoils	MHg	Compartment	Raccoon	1	1	0.98
AssimilationEfficiencyFromSoils	MHg	Compartment	White-tailed Deer	2	1	0.99
AssimilationEfficiencyFromWater	Hg0	Compartment	White-tailed Deer	1	1	0.50
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Coniferous Forest	2	1	0.99
AverageLeafAreaIndex_No_Time_Dependence	All	Compartment	Leaf - Grasses/Herbs	2	1	0.98
DegreeStomatalOpening	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87
DemethylationRate	MHg	Compartment	Common Loon	2	1	0.51
FlowRateofTranspiredWaterperAreaofLeafSurface	All	Compartment	Stem - Grasses/Herbs	1	1	0.96
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Benthic Carnivore	2	1	0.99
HowMuchFasterHgEliminationIsThanForMHg	Hg2	Compartment	Water-column Carnivore	2	1	1.00
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Benthic Carnivore	2	1	0.96
HowMuchFasterHgEliminationIsThanForMHg	MHg	Compartment	Water-column Carnivore	2	1	0.97
InhalationProps_B	All	Compartment	Mouse	2	1	0.62
InhalationProps_B	All	Compartment	White-tailed Deer	1	1	0.93
Kd	Hg0	Compartment	Soil - Root Zone	2	1	1.00
Kd	MHg	Compartment	Soil - Root Zone	1	1	1.00

Appendix D.4. Properties with Absolute Sensitivity Scores > 0.5

Property ^a	Chemical	Object Type	Object Name / Link Information	Freq b	Compartment Types ^c	Mean Absolute Score d
LitterFallRate	All	Compartment	Leaf - Coniferous Forest	1	1	0.51
NumberofFishperSquareMeter	All	Compartment	Water-column Carnivore	2	1	0.51
NumberofFishperSquareMeter	All	Compartment	Water-column Omnivore	2	1	0.52
OxidationRate	Hg0	Compartment	Benthic Carnivore	2	1	1.01
OxidationRate	Hg0	Compartment	Common Loon	2	1	0.96
OxidationRate	Hg0	Compartment	Mouse	2	1	0.96
OxidationRate	Hg0	Compartment	Raccoon	2	1	0.96
OxidationRate	Hg0	Compartment	White-tailed Deer	2	1	0.96
ReductionRate	Hg2	Compartment	Soil - Surface	2	1	0.51
ReductionRate	Hg2	Compartment	Surface water	1	1	0.63
StomatalAreaNormalizedEffectiveDiffusionPathLength	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87
TSCF	MHg	Compartment	Stem - Grasses/Herbs	1	1	2.96
TotalExcretionRate	Hg2	Compartment	Common Loon	2	1	3.03
TotalExcretionRate	Hg2	Compartment	Mouse	2	1	1.01
TotalExcretionRate	Hg2	Compartment	Raccoon	2	1	1.01
TotalExcretionRate	Hg2	Compartment	White-tailed Deer	2	1	1.01
TotalExcretionRate	MHg	Compartment	Mouse	2	1	2.24
TotalExcretionRate	MHg	Compartment	Raccoon	2	1	2.25
TotalExcretionRate	MHg	Compartment	White-tailed Deer	2	1	2.25
TransferFactortoLeafParticle	Hg2	Compartment	Leaf - Grasses/Herbs	1	1	1.11
WaterIngProps_B	All	Compartment	White-tailed Deer	1	1	0.58
Water_content	All	Compartment	Worm	6	1	5.24
WetDensity	All	Compartment	Leaf - Coniferous Forest	2	1	0.98
WetDensity	All	Compartment	Leaf - Grasses/Herbs	2	1	0.99
WetMassperArea	All	Compartment	Leaf - Coniferous Forest	1	1	0.82
WetMassperArea	All	Compartment	Leaf - Grasses/Herbs	1	1	0.87
WormSoilPartitionCoefficient_dryweight	Hg2	Compartment	Worm	2	1	3.00
WormSoilPartitionCoefficient_dryweight	Hg0	Compartment	Worm	2	1	3.00
WormSoilPartitionCoefficient_dryweight	MHg	Compartment	Worm	2	1	3.00

^a For additional description of the input properties used in TRIM.FaTE, along with a key between common names used for properties and their TRIM.FaTE code names, see Module 16 of the *TRIM.FaTE User's Guide* and the TRIM.FaTE technical support documents.

^b Number of outputs (maximum of 93) for which the property has absolute elasticity greater than 0.5.

[°] Number of compartment types (maximum of 17) for which the property has absolute elasticity greater than 0.5.

^d Calculated using only those elasticities with absolute values greater than 0.5.

APPENDIX E

SUPPLEMENTAL MATERIALS FOR 3MRA - TRIM.FATE COMPARISON

E.1 Description of 3MRA Processes

3MRA is an environmental modeling system designed to facilitate site-based human and ecological risk assessments at local, regional, and national scales. 3MRA combines data bases containing chemical, climatological, and site data with a series of 17 science-based simulation models within a fully integrated software architecture to provide a user the ability to execute Monte-Carlo-based assessment methodologies. Exhibit E-1 illustrates the systems design of 3MRA as applied to the assessment of national risks resulting from the disposal of solid waste in land-based waste management units, with components used in this model comparison highlighted.

A series of system processors collectively manage the execution of the 3MRA modeling system. Various system processors interact with the user to develop science module input data files, manage the execution of the individual system components, and process modeling outputs to form risk summaries. The primary 3MRA system processors are listed below.

- <u>System User Interface (SUI)</u>: represents the user access point to the technology. Via the SUI, the user selects combinations of sites, waste management units, chemicals, and constituent concentrations in waste streams to be simulated, plus the number of Monte-Carlo simulations to be executed per site. The SUI also allows the user to configure the computer directory structure where individual components of the system are stored. Finally, the SUI manages the overall execution of the user defined national assessment.
- <u>Site Definition Processor (SDP)</u>: performs all data retrieval from the site, regional, national, and chemical data bases and organizes it into a series of "site simulation files" that contain the input data for each of the 17 science models.
- <u>Multi-media Simulation Processor (MMSP)</u>: manages the invocation, execution, and error handling associated with the 17 individual science models that simulate source release, multimedia fate and transport, foodweb dynamics, and human/ecological exposure and risk.
- <u>Chemical Properties Processor (CPP)</u>: accesses the chemical properties data base and either transfers or calculates all requested data. The CPP represents a single location within the modeling system where chemical data are made available.
- <u>Exit Level Processor I (ELP I)</u>: assimilates the individual site risk results and builds a risk summary data base containing data used to assess national protection criteria.
- <u>Exit Level Processor II (ELP II)</u>: reads the ELP I derived risk summary data base and generates, based on regulatory criteria, specific national exemption levels.
- Risk Visualization Processor (RVP): presents risk summary results in graphical form.

Exhibit 6-1 (in Chapter 6) illustrates the 3MRA multimedia model design contained within the MMSP, highlighting the modules that were used as part of this model comparison study. Individual science models are included for each of five land-based waste management

units that simulate the release of contaminants to air, water, and soil media. Fate and transport of contaminants through the multimedia environment are simulated by the atmospheric, watershed, surface water, vadose zone, and aquifer modules. Contaminant uptake through the food web is simulated by the farm food chain, terrestrial food web, and aquatic food web modules. Human and ecological exposure modules estimate doses to human and ecological receptors, and the risk modules apply toxicity data to the doses to derive estimates of risk. The modules included in 3MRA represent a "linked media" model, meaning that individual simulation modules, representing each element of a risk assessment, are executed in a logical sequence from source to fate and transport to food web to exposure and risk.

To download the 3MRA model and access a series of documents describing the 3MRA modeling system in detail, the reader is referred to the following web sites:

- http://www.epa.gov/ceampubl/mmedia/index.htm (modeling system); and
- http://www.epa.gov/epaoswer/hazwaste/id/hwirwste/risk.htm (documentation).

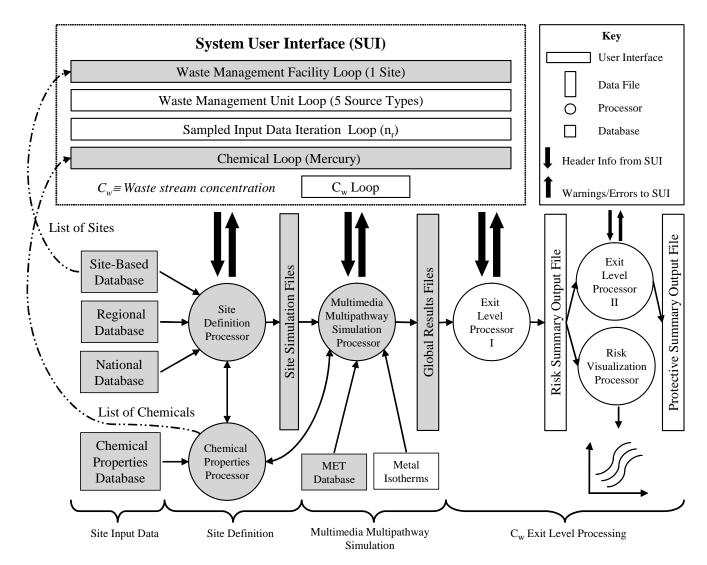


Exhibit E-1. 3MRA Modeling System Design ^a

^a 3MRA components used in this model comparison are shaded.

Detailed Results for 3MRA - TRIM.FaTE Comparison¹ **E.2**

Chart #	Title of Chart
Chart E-1a	Divalent Mercury Concentration in Air vs. Time: Swetts Pond Watershed
Chart E-1b	Divalent Mercury Concentration in Air vs. Time: Near Source, Northwest
Chart E-1c	Divalent Mercury Concentration in Air vs. Time: Near Source, Southwest
Chart E-1d	Divalent Mercury Concentration in Air vs. Time: Adjacent to Source, Southeast
Chart E-2a	Mercury Deposition Flux to Soil Surface vs. Time: Swetts Pond Watershed
Chart E-2b	Mercury Deposition Flux to Soil Surface vs. Time: Near Source, Southwest
Chart E-2c	Mercury Deposition Flux to Soil Surface vs. Time: Far From Source, Southeast
Chart E-3	Divalent Mercury Concentration in Leaves (grasses/herbs) vs. Time: Near Source, Southwest
Chart E-4a	Divalent Mercury Concentration in Surface Soil vs. Time: Swetts Pond Watershed
Chart E-4b	Divalent Mercury Concentration in Surface Soil vs. Time: Near Source, Northwest
Chart E-4c	Divalent Mercury Concentration in Surface Soil vs. Time: Near Source, Northeast
Chart E-4d	Divalent Mercury Concentration in Surface Soil vs. Time: Near Source, Southwest
Chart E-4e	Divalent Mercury Concentration in Surface Soil vs. Time: Adjacent to Source, Southeast
Chart E-5	Divalent and Total Mercury Concentration in Roots (grasses/herbs) and Associated Soil vs. Time: Near Source, Southwest
Chart E-6a	Divalent and Total Mercury Concentration in Earthworms and Associated Soil vs. Time: Swetts Pond Watershed
Chart E-6b	Divalent Mercury Concentration in Earthworms and Associated Soil vs. Time: Near Source, Northwest
Chart E-6c	Divalent Mercury Concentration in Earthworms and Associated Soil vs.

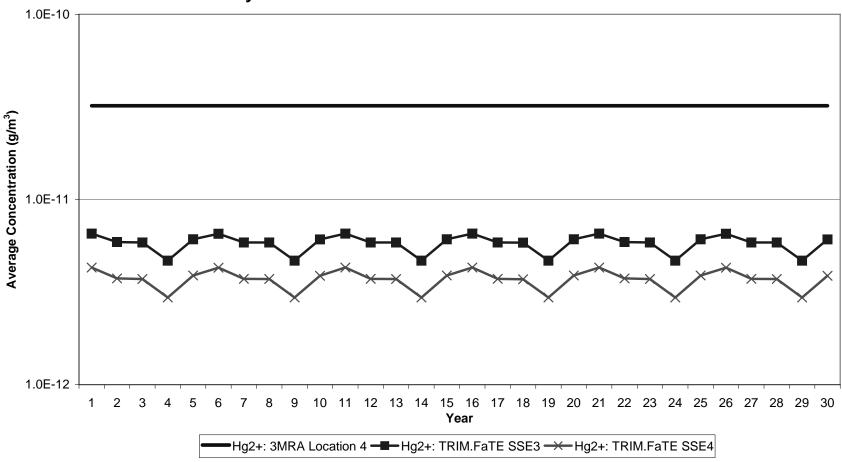
¹All TRIM.FaTE data for emission case A (divalent mercury emitted from source only, no boundary contributions or initial concentrations), 11-17-03 model run.

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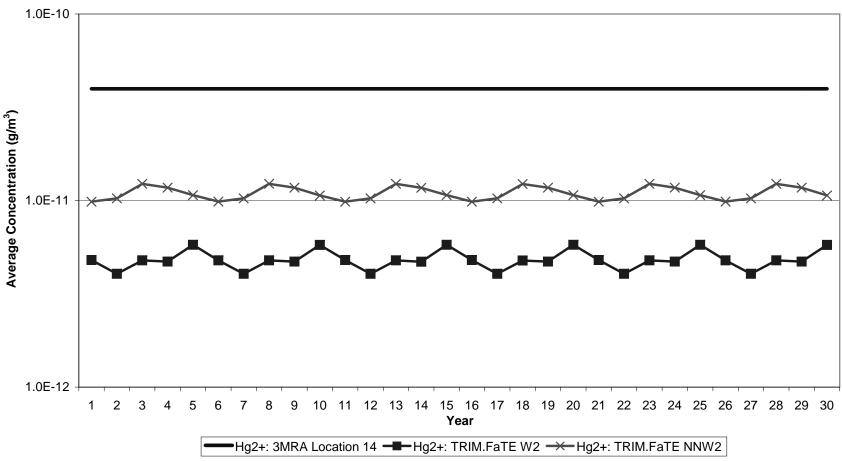
Chart E-6d	Divalent and Total Mercury Concentration in Earthworms and Associated Soil vs. Time: Near Source, Southwest
Chart E-7a	Mercury Concentration in Surface Water vs. Time: Swetts Pond
Chart E-7b	Mercury Concentration in Surface Water vs. Time: Brewer Lake
Chart E-8a	Mercury Concentration in Sediment vs. Time: Swetts Pond
Chart E-8b	Mercury Concentration in Sediment vs. Time: Brewer Lake
Chart E-9a	Methyl Mercury Concentration in Fish vs. Time: Swetts Pond
Chart E-9b	Methyl Mercury Concentration in Fish vs. Time: Brewer Lake
Chart E-10a	Total Mercury Concentration in Small Birds vs. Time: Swetts Pond Watershed
Chart E-10b	Total Mercury Concentration in Small Birds vs. Time: Near Source, Southwest
Chart E-11a	Total Mercury Concentration in Omniverts vs. Time: Swetts Pond Watershed
Chart E-11b	Total Mercury Concentration in Omniverts vs. Time: Near Source, Northwest
Chart E-11c	Total Mercury Concentration in Omniverts vs. Time: Near Source, Northeast
Chart E-11d	Total Mercury Concentration in Omniverts vs. Time: Near Source, Southwest
Chart E-12a	Total Mercury Concentration in Small Mammals vs. Time: Swetts Pond Watershed
Chart E-12b	Total Mercury Concentration in Small Mammals vs. Time: Near Source, Northwest
Chart E-12c	Total Mercury Concentration in Small Mammals vs. Time: Near Source, Northeast

Chart E-1a - Log Scale
Divalent Mercury Concentration in Air vs. Time: Swetts Pond Watershed^a



^a Annual average for TRIM.FaTE is based on instantaneous estimates every two hours throughout the year and represents an average concentration over a volume that extends from the ground to the mixing height. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) is applied to entire period and is a point concentration at ground level.

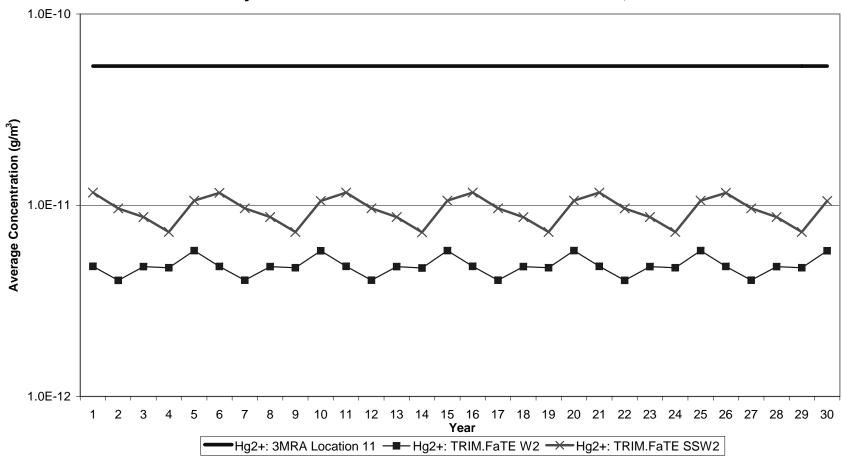




^a Annual average for TRIM.FaTE is based on instantaneous estimates every two hours throughout the year and represents an average concentration over a volume that extends from the ground to the mixing height. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) is applied to entire period and is a point concentration at ground level.

Chart E-1c - Log Scale

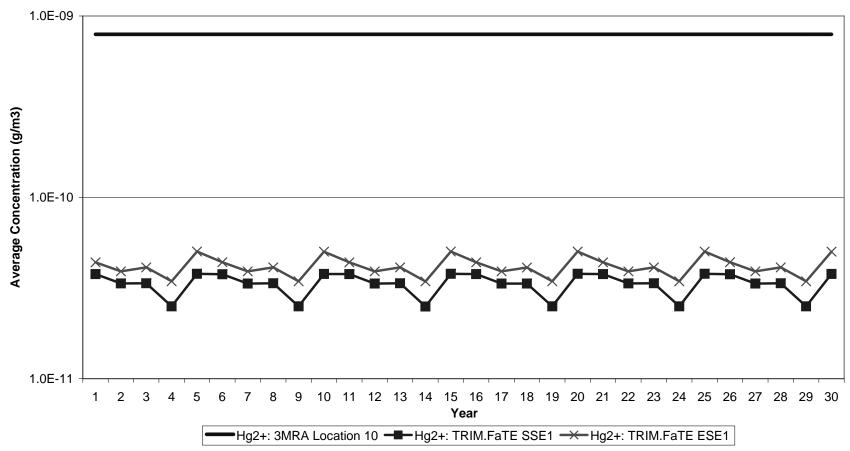
Divalent Mercury Concentration in Air vs. Time: Near Source, Southwest^a



^a Annual average for TRIM.FaTE is based on instantaneous estimates every two hours throughout the year and represents an average concentration over a volume that extends from the ground to the mixing height. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) is applied to entire period and is a point concentration at ground level.

Chart E-1d - Log Scale

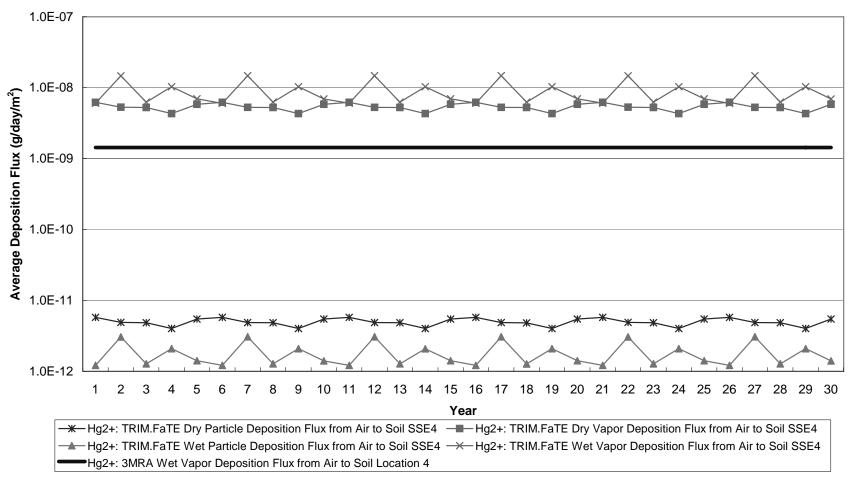
Divalent Mercury Concentration in Air vs. Time: Adjacent to Source, Southeast^a



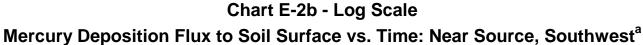
^a Annual average for TRIM.FaTE is based on instantaneous estimates every two hours throughout the year and represents an average concentration over a volume that extends from the ground to the mixing height. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) is applied to entire period and is a point concentration at ground level.

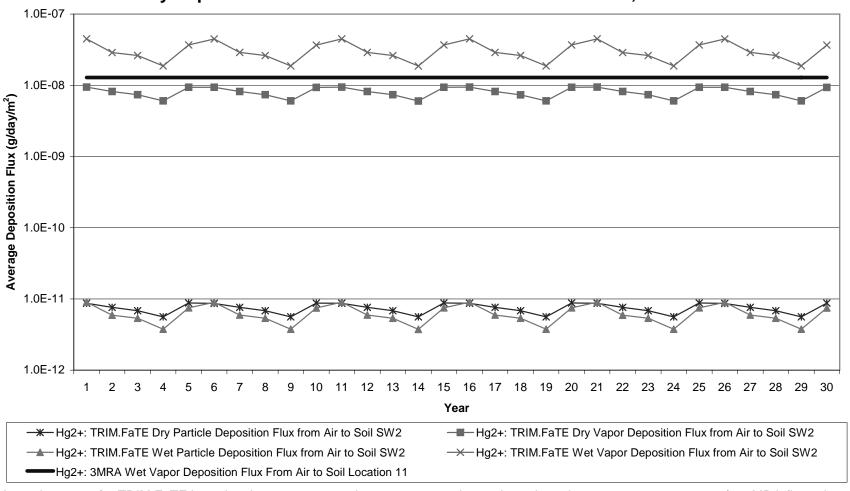
Chart E-2a - Log Scale

Mercury Deposition Flux to Soil Surface vs. Time: Swetts Pond Watershed^a



^a Annual average for TRIM.FaTE based on instantaneous estimates every two hours throughout the year. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) applied to entire period.

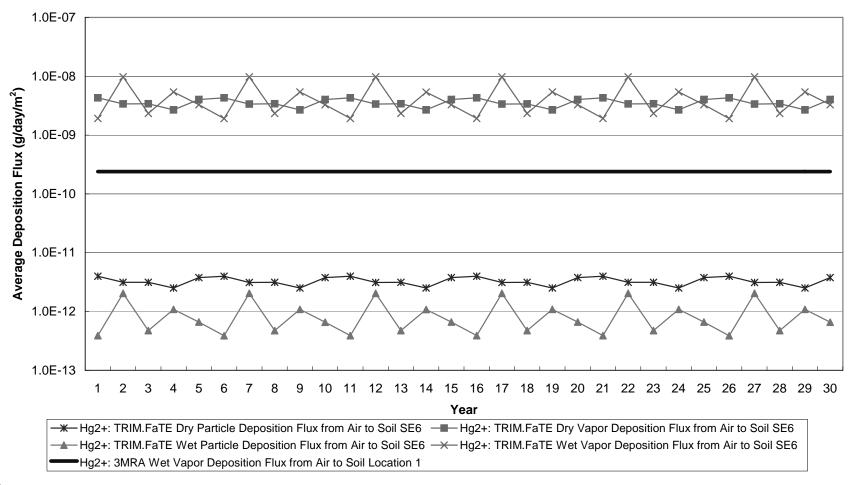




^a Annual average for TRIM.FaTE based on instantaneous estimates every two hours throughout the year. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) applied to entire period.

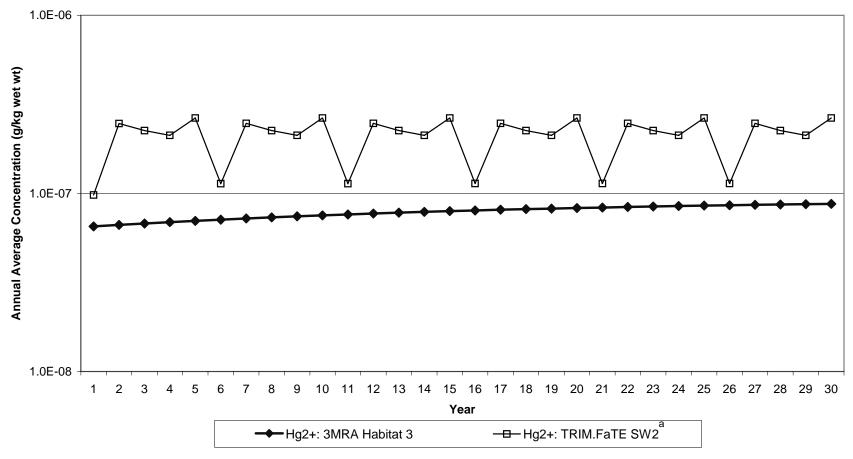
Chart E-2c - Log Scale

Mercury Deposition Flux to Soil Surface vs. Time: Far From Source, Southeast^a



^a Annual average for TRIM.FaTE based on instantaneous estimates every two hours throughout the year. 14-year average for 3MRA (based on instantaneous estimates every hour throughout the period) applied to entire period.

Chart E-3 - Log Scale
Divalent Mercury Concentration in Leaves (grasses/herbs) vs. Time: Near
Source, Southwest



^a Each TRIM.FaTE annual average data point shown is the average of values during the days (May 13 - September 29 each year) for which leaves were modeled as present during the entire day (i.e., represents a growing season average).

Chart E-4a - Log Scale
Divalent Mercury Concentration in Surface Soil vs. Time: Swetts Pond
Watershed

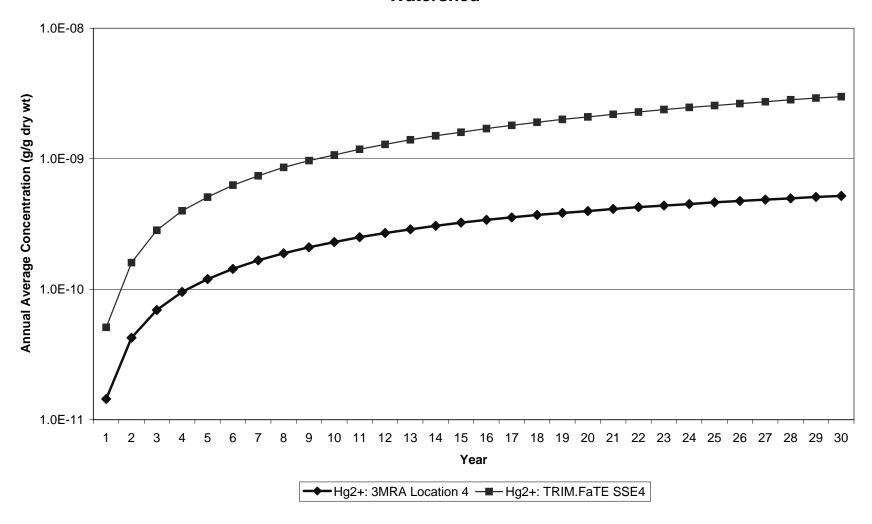


Chart E-4b - Log Scale
Divalent Mercury Concentration in Surface Soil vs. Time: Near Source,
Northwest

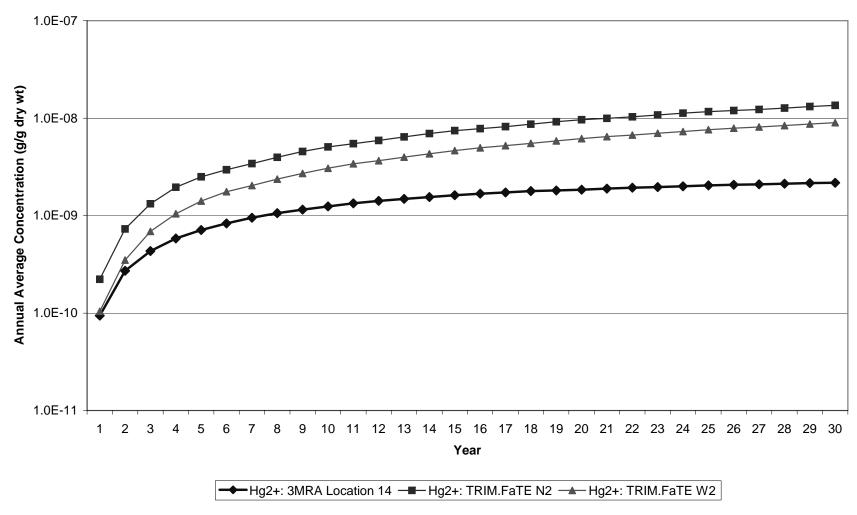


Chart E-4c - Log Scale
Divalent Mercury Concentration in Surface Soil vs. Time: Near Source,
Northeast

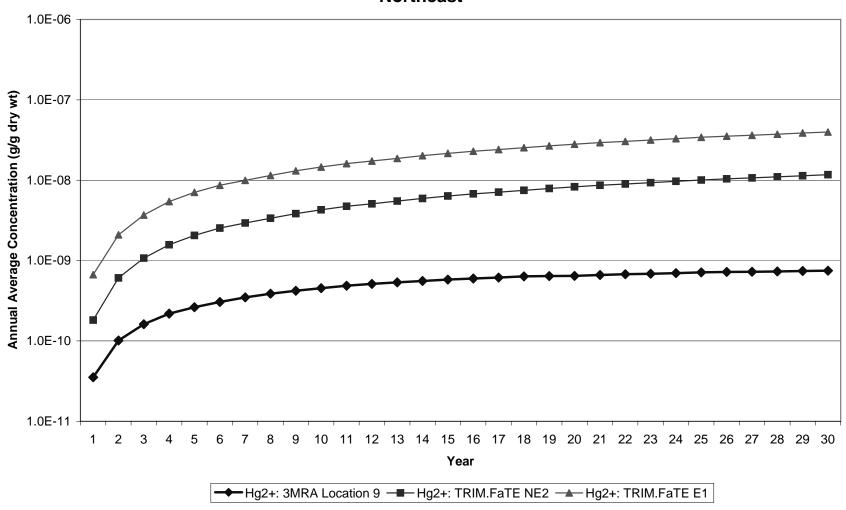


Chart E-4d - Log Scale
Divalent Mercury Concentration in Surface Soil vs. Time: Near Source,
Southwest

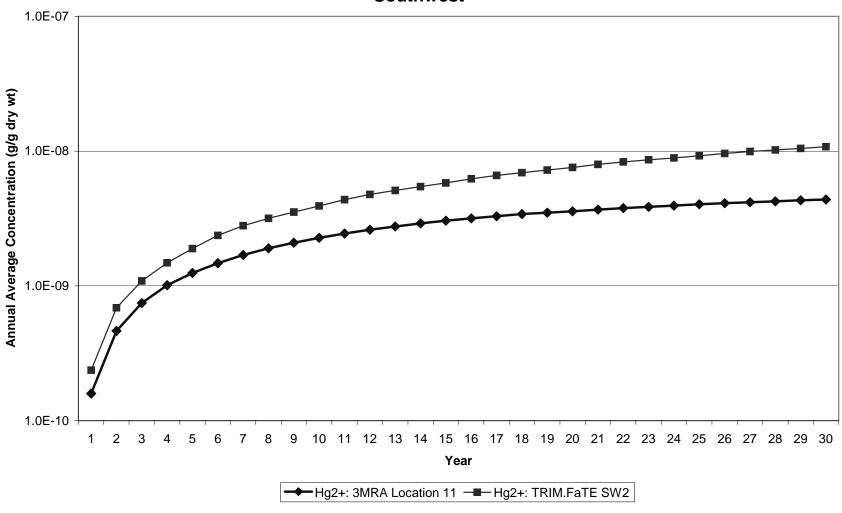


Chart E-4e - Log Scale
Divalent Mercury Concentration in Surface Soil vs. Time: Adjacent to Source,
Southeast

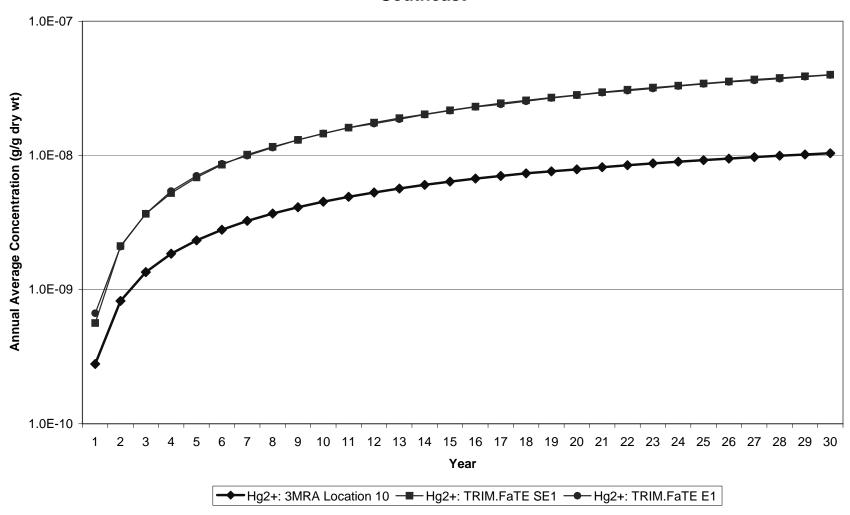


Chart E-5 - Log Scale
Divalent and Total Mercury Concentration in Roots (grasses/herbs) and
Associated Soil vs. Time: Near Source, Southwest

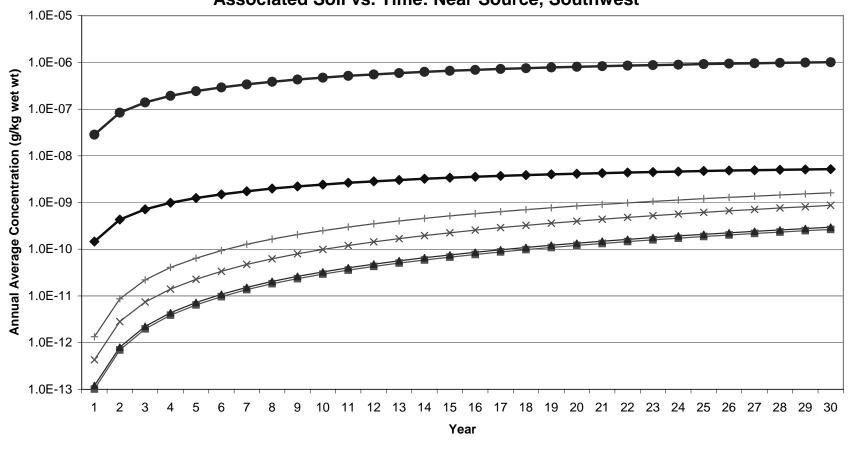


Chart E-6a - Log Scale

Divalent and Total Mercury Concentration in Earthworms and Associated Soil

vs. Time: Swetts Pond Watershed

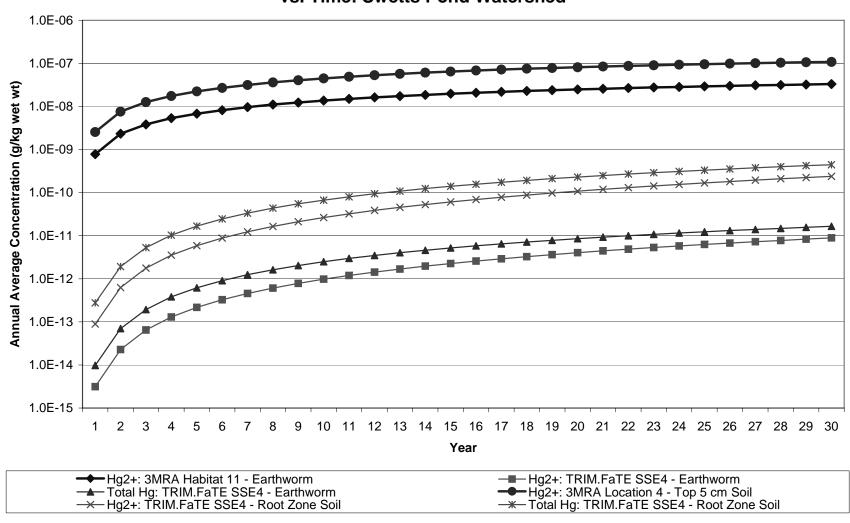


Chart E-6b - Log Scale

Divalent Mercury Concentration in Earthworms and Associated Soil vs. Time:

Near Source, Northwest

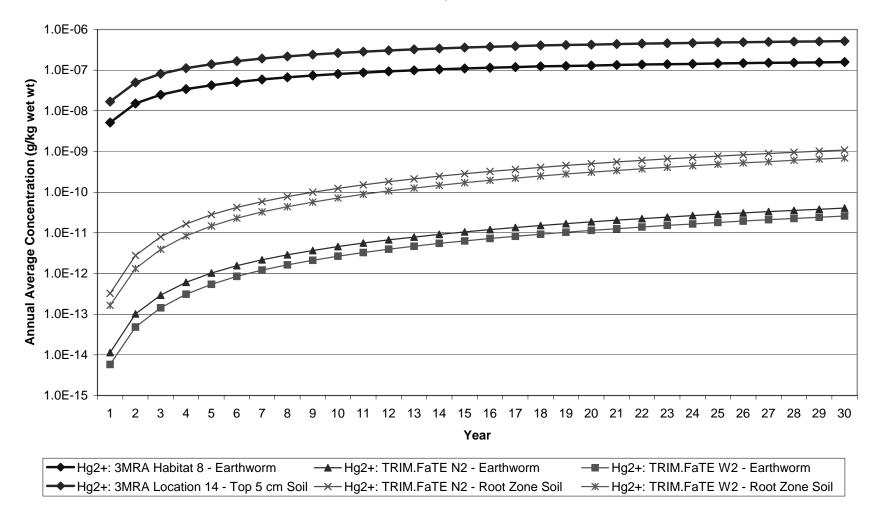


Chart E-6c - Log Scale

Divalent Mercury Concentration in Earthworms and Associated Soil vs. Time:

Near Source, Northeast

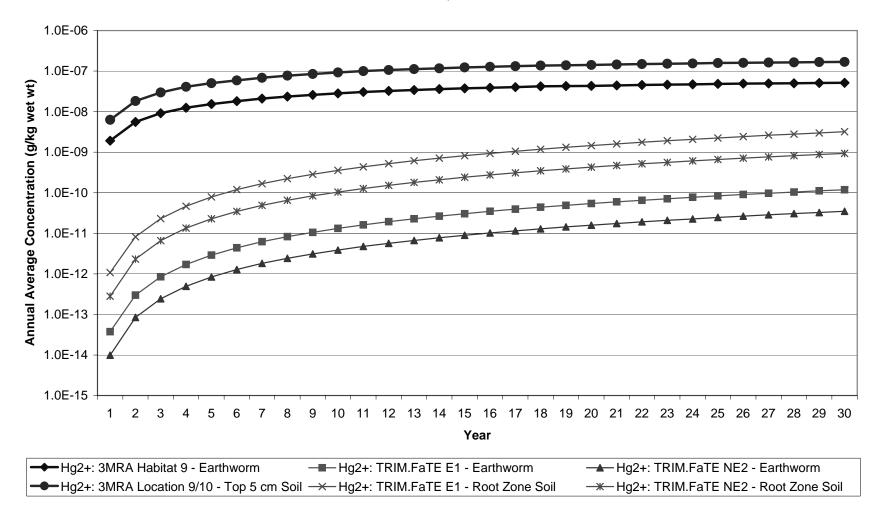


Chart E-6d - Log Scale

Divalent and Total Mercury Concentration in Earthworms and Associated Soil:

Near Source, Southwest

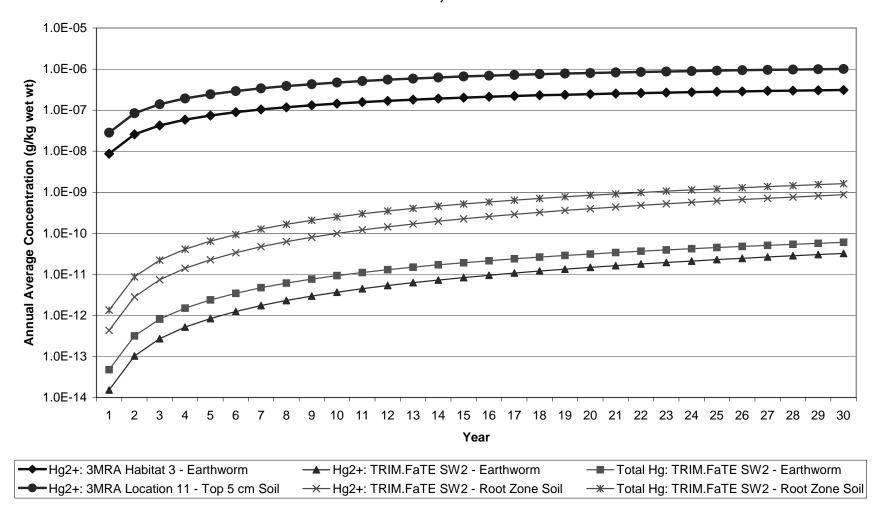
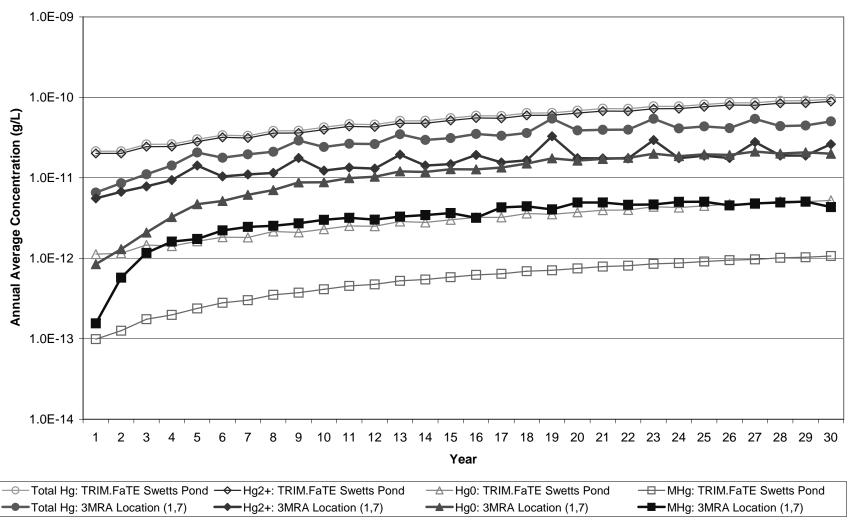


Chart E-7a - Log Scale
Mercury Concentration in Surface Water vs. Time: Swetts Pond



1.0E-10 Annual Average Concentration (g/L) 1.0E-11 1.0E-12 1.0E-13 1.0E-14 -10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Year ── Total Hg: TRIM.FaTE Brewer Lake — Hg2+: TRIM.FaTE Brewer Lake —⊟—MHg: TRIM.FaTE Brewer Lake → Hg0: TRIM.FaTE Brewer Lake Total Hg: 3MRA Location (1,11) + Hg2+: 3MRA Location (1,11) Hg0: 3MRA Location (1,11) MHg: 3MRA Location (1,11)

Chart E-7b - Log Scale
Mercury Concentration in Surface Water vs. Time: Brewer Lake

Chart E-8a - Log Scale
Mercury Concentration in Sediment vs. Time: Swetts Pond

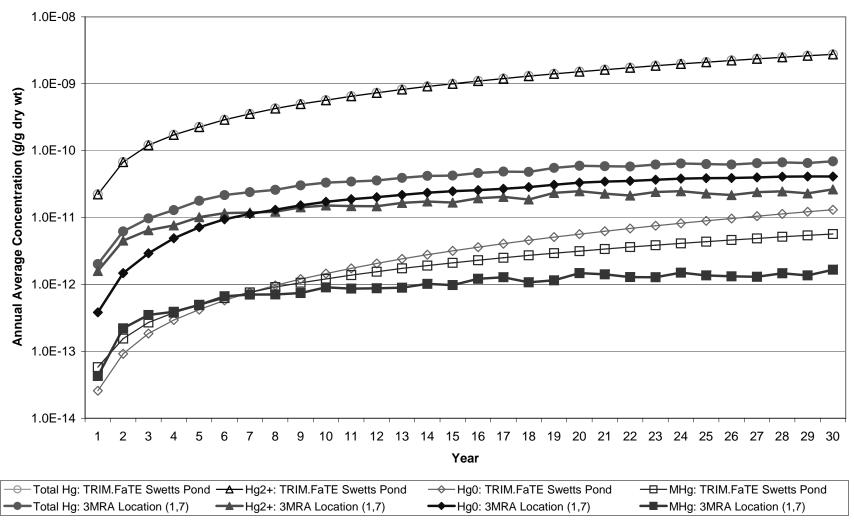


Chart E-8b - Log Scale
Mercury Concentration in Sediment vs. Time: Brewer Lake

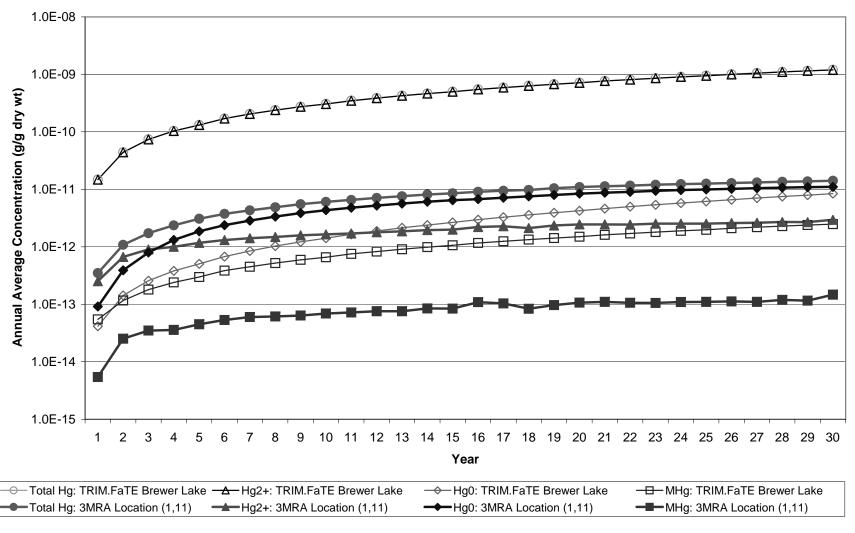


Chart E-9a - Log Scale
Methyl Mercury Concentration in Fish vs. Time: Swetts Pond

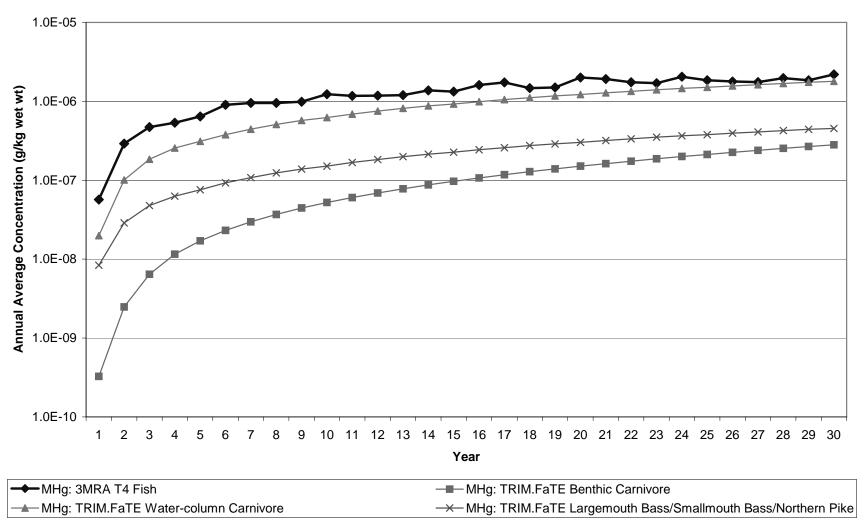


Chart E-9b - Log Scale
Methyl Mercury Concentration in Fish vs. Time: Brewer Lake

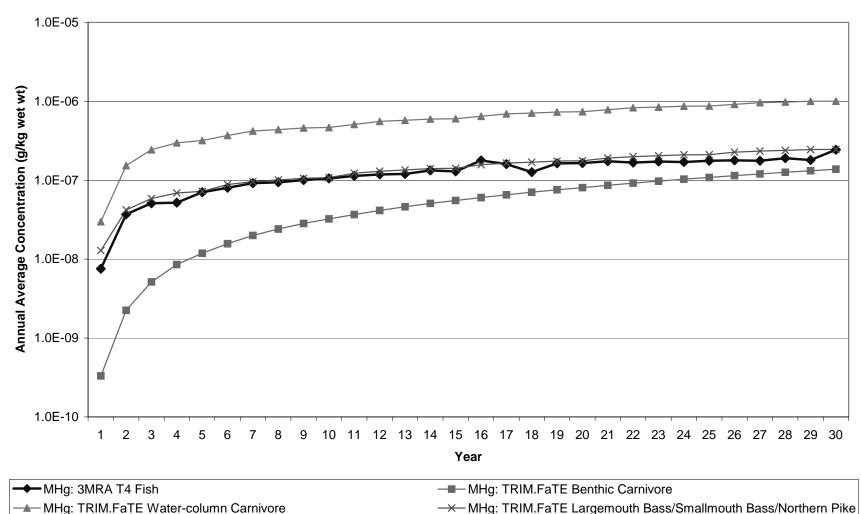
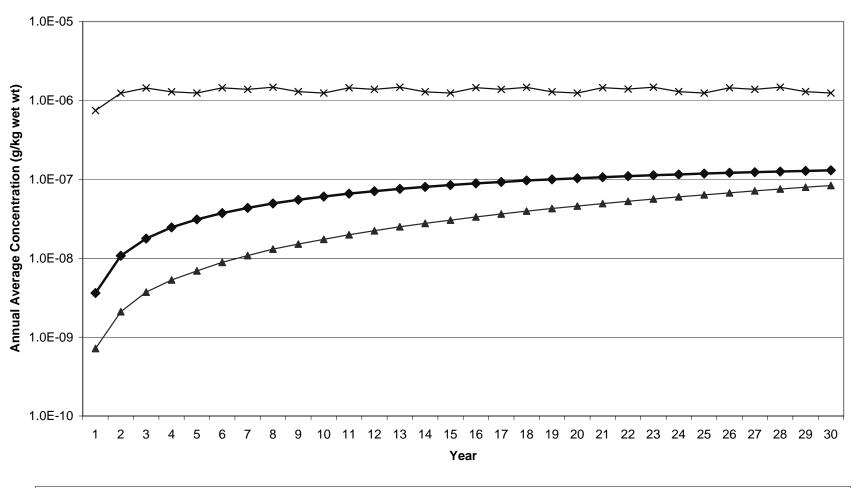
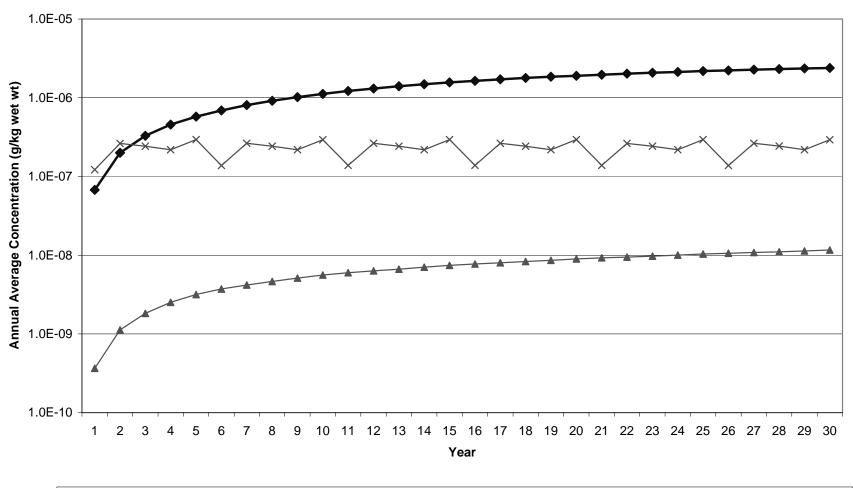


Chart E-10a - Log Scale
Total Mercury Concentration in Small Birds vs. Time: Swetts Pond Watershed



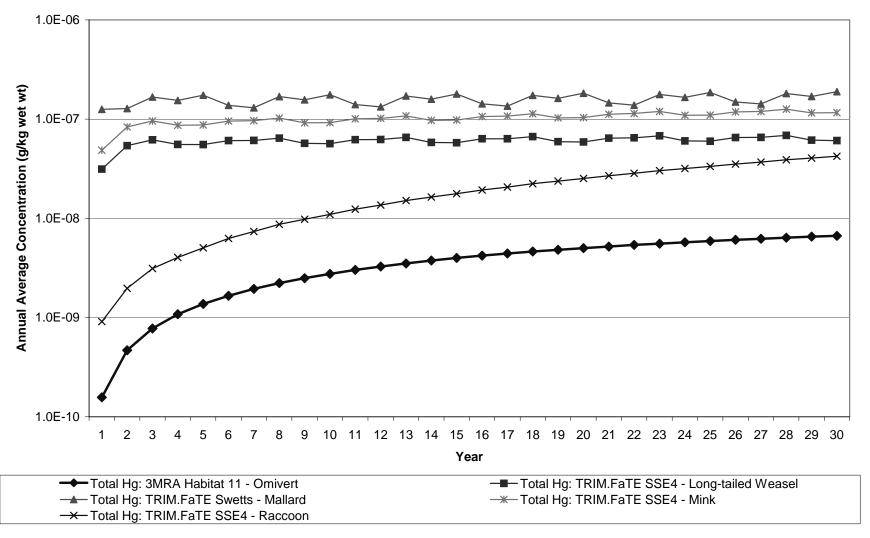
Total Hg: 3MRA Habitat 11 - Small Bird —— Total Hg: TRIM.FaTE SSE4 - Tree Swallow —— Total Hg: TRIM.FaTE SSE4 - Chickadee

Chart E-10b - Log Scale
Total Mercury Concentration in Small Birds vs. Time: Near Source, Southwest



Total Hg: 3MRA Habitat 3 - Small Bird —— Total Hg: TRIM.FaTE SW2 - Tree Swallow —— Total Hg: TRIM.FaTE SW2 - Chickadee

Chart E-11a - Log Scale
Total Mercury Concentration in Omniverts vs. Time: Swetts Pond Watershed





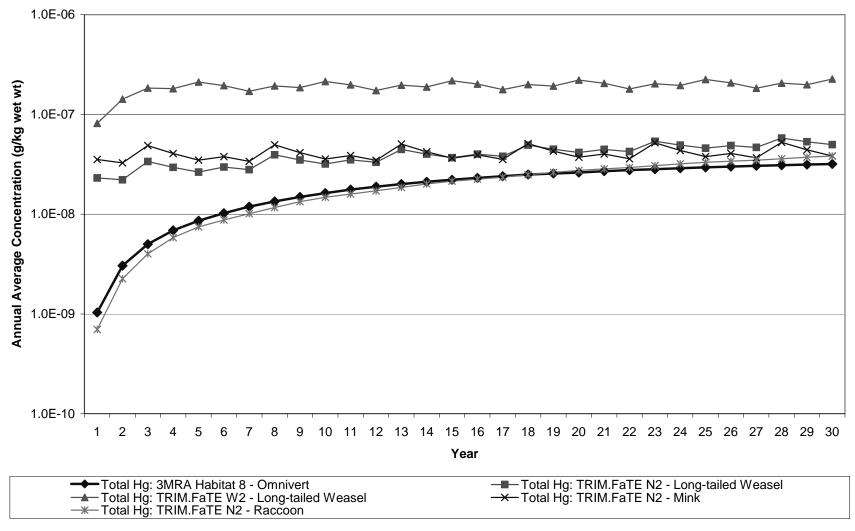


Chart E-11c - Log Scale
Total Mercury Concentration in Omniverts vs. Time: Near Source, Northeast

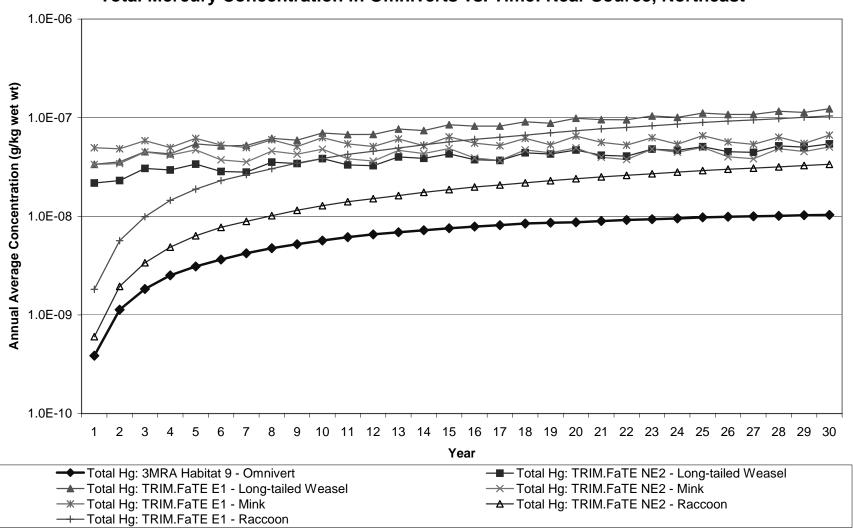


Chart E-11d - Log Scale
Total Mercury Concentration in Omniverts vs. Time: Near Source, Southwest

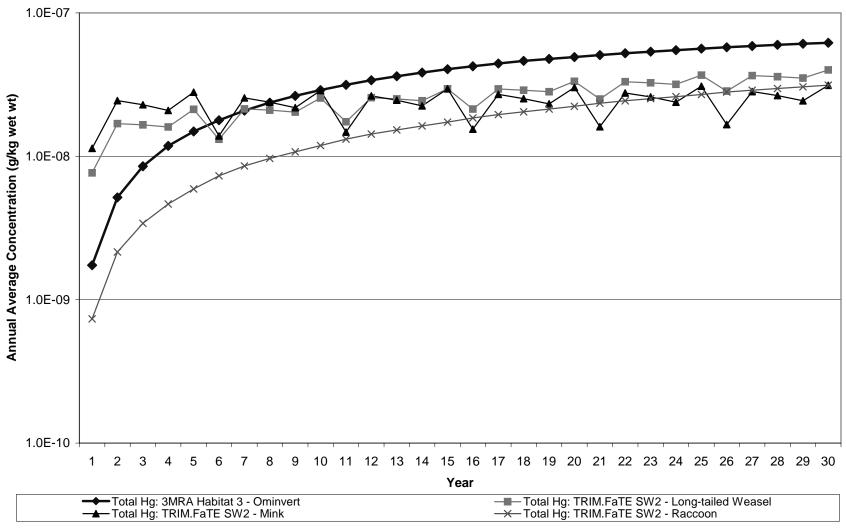
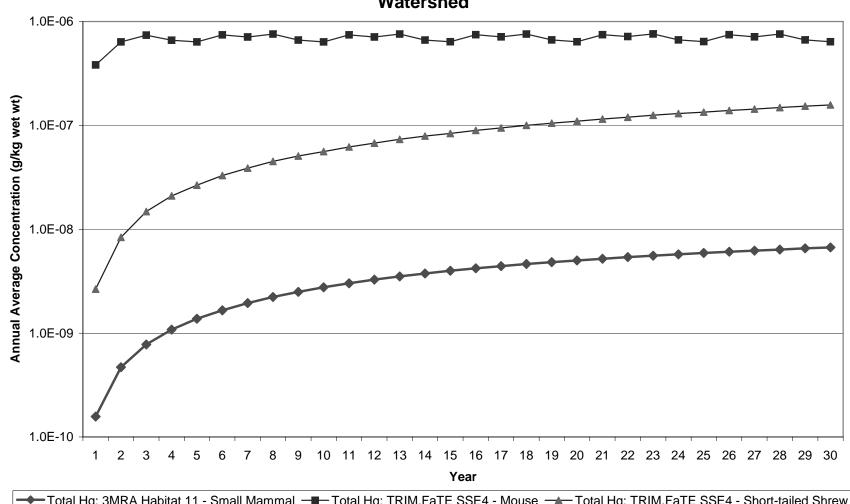


Chart E-12a - Log Scale Total Mercury Concentration in Small Mammals vs. Time: Swetts Pond Watershed



◆ Total Hg: 3MRA Habitat 11 - Small Mammal Total Hg: TRIM.FaTE SSE4 - Mouse Total Hg: TRIM.FaTE SSE4 - Short-tailed Shrew

Chart E-12b - Log Scale

Total Mercury Concentration in Small Mammals vs. Time: Near Source,

Northwest

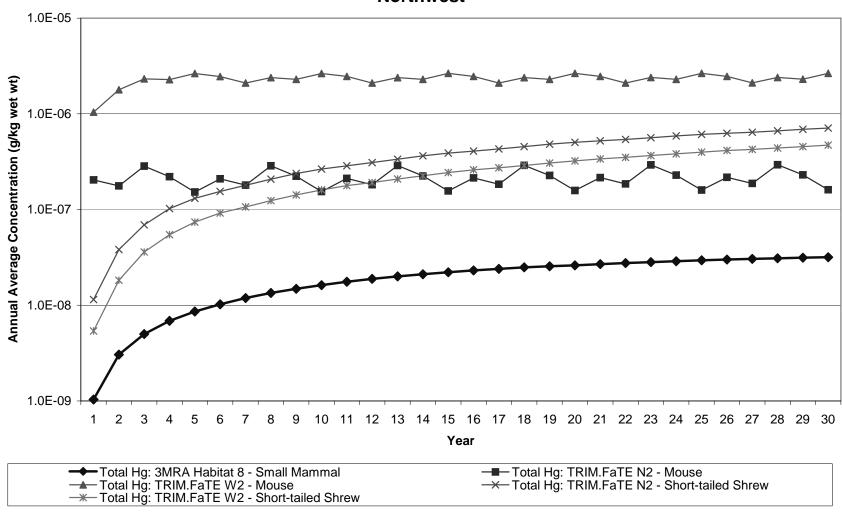
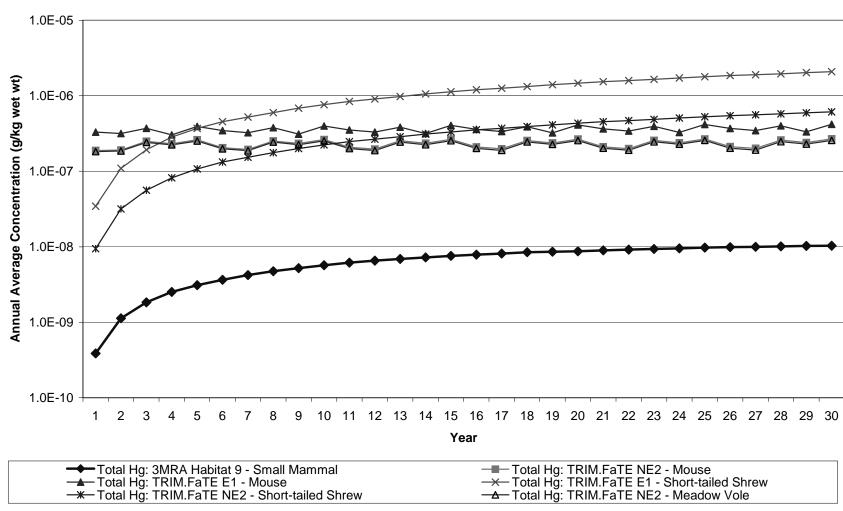


Chart E-12c - Log Scale

Total Mercury Concentration in Small Mammals vs. Time: Near Source,

Northeast



APPENDIX F SUMMARY OF AVAILABLE OFF-SITE MONITORING DATA

Appendix F SUMMARY OF AVAILABLE OFF-SITE MONITORING DATA

This appendix provides a summary of the off-site mercury monitoring data sets identified for the test case site. Off-site measurement data for comparison were identified for air, soil, lake/pond surface water and sediment, river surface water and sediment, and various biota. However, only data that were used for comparison to TRIM.FaTE modeling results are presented in this appendix (see Chapter 7 for detailed comparison of modeling and monitoring results).

Note: Data sources have not been listed here to retain the anonymity of the case study site.

F.1 Off-site Air Monitoring Data

Environmental Medium: Ambient air

Number of Data Points: Approximately 29,000 data points from 3 continuous monitoring stations. Data quality flags are included indicating automatic calibration, power failure, valid measurement, standard addition, maintenance and manual calibrations, equipment failure or malfunction, no peak (i.e., below detection limit), overload (beyond analyzer range), and suspect data (based on quality assurance measures).

Measurement Endpoint (Units): One-hour average total gaseous mercury concentration (ng/m³)

Sampling Date(s): (1) AA1: August 27, 1998 to November 1, 1999

(2) AA2: August 26, 1998 to September 27, 1999

(3) AA3: September 4, 1998 to September 24, 1999

(hourly samples throughout period)

Sample Location(s): (1) AA1: Approximately 1,500 feet southeast of facility

(2) AA2: Approximately 4,300 feet north-northwest of the facility

(3) AA3: Approximately 6,400 feet north-northwest of the facility

Purpose of Monitoring: To provide data to the state environmental agency as a result of a consent agreement enforcement order

Overall Range: (1) AA1: $0.774 - 526 \text{ ng/m}^3$

(2) AA2: 0.259 - 90.1 ng/m³ (3) AA3: 0.461 - 34.2 ng/m³

Mean:^a (1) Overall mean for AA1: 8.63 ng/m³

(2) Overall mean for AA2: 2.25 ng/m³

(3) Overall mean for AA3: 1.78 ng/m³

^a Standard deviation not reported in source.

Raw Data:

Summary of 1-Hour Average TGM (ng/m³) Collected at the AA1 Site

Statistic	1 st Quarter (Sept - Dec)	2 nd Quarter (Jan - Mar)	3 rd Quarter (Apr - Jun)	4 th Quarter (Jul - Oct)	Overall
minimum	0.826	0.798	0.786	0.774	0.774
25 th percentile	1.56	0.940	0.860	0.860	0.878
median	3.53	1.93	1.10	1.02	1.80
75 th percentile	11.5	9.32	6.71	5.56	8.80
maximum	157	153	171	526	526
arithmetic mean	9.96	8.33	7.47	8.33	8.63

Summary of 1-Hour Average TGM (ng/m³) Collected at the AA2 Site

Statistic	1 st Quarter (Sept - Dec)	2 nd Quarter (Jan - Mar)	3 rd Quarter (Apr - Jun)	4 th Quarter (Jul - Sept)	Overall
minimum	0.993	1.01	0.722	0.259	0.259
25 th percentile	1.45	1.31	1.17	0.77	1.25
median	1.72	1.47	1.43	1.09	1.50
75 th percentile	2.66	1.70	2.21	1.91	2.19
maximum	25.8	24.5	25.8	90.1	90.1
arithmetic mean	2.48	1.85	2.34	2.20	2.25

Summary of 1-Hour Average TGM (ng/m³) Collected at the AA3 Site

Statistic	1 st Quarter (Sept - Dec)	2 nd Quarter (Jan - Mar)	3 rd Quarter (Apr - Jun)	4 th Quarter (Jul - Sept)	Overall
minimum	0.461	0.525	0.603	0.481	0.461
25 th percentile	1.03	0.677	1.09	0.794	0.893
median	1.34	1.36	1.28	0.98	1.26
75 th percentile	1.73	1.61	1.56	1.51	1.62
maximum	14.8	26.4	29.4	34.2	34.2
arithmetic mean	1.76	1.58	1.87	1.91	1.78

Other Information: Corresponding meteorological data are also available from an on-site monitoring station, including approximately 8,760 data points each for (1) average hourly wind speed (mph), (2) average hourly wind direction (°N), (3) average hourly ambient temperature (°C), and (4) average hourly solar radiation (W/m²) from 1 continuous monitoring station from November 1, 1998 to November 1, 1999. [The data set of meteorological parameters being used as inputs to TRIM.FaTE is from two monitoring stations near the facility (within 20 km), supplemented by data from a continuous monitoring station roughly 150 km southwest of the facility. This data set includes approximately 8,760 hourly averaged measurements from each year from 1987 to 1991 for wind speed (m/s), wind direction (degrees), rural and urban mixing height (m), precipitation rate (mm/hour), precipitation type (unitless), ambient temperature (K), stability class (unitless), friction velocity (m/s), monin-obukhov length (m), and surface roughness length (m).]

A wind rose was generated from the on-site hourly wind speed and direction data and presented in the final report with the on-site air monitoring data. This wind rose is included below for reference.

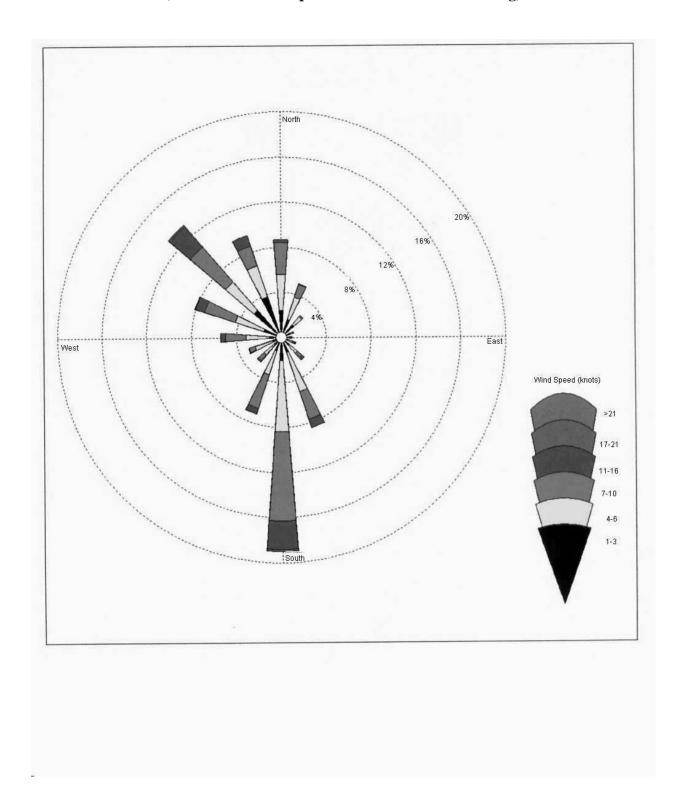
Total Meteorological Data Collected at the Facility

Statistic	5-min average WS (mph)	5-min average WD (°N)	5-min average Temp. (°F)	5-min average SR (W/m²)
available periods	105,058	105,058	105,058	105,058
observed periods	98,244	101,546	97,725	68,042
data recovery	93.5	96.7	93.0	64.8

Quarterly data summaries are also provided in the Final Report (December 1999).

Raw Data:

Wind Rose – On-site Meteorological Station (included in final report with on-site air monitoring)



F.2 Off-site Soil Monitoring Data

Environmental Medium: Surface soil

Number of Data Points: 4 data points from 4 locations

Measurement Endpoint(s) (Units): Total mercury dry weight concentration (mg/kg)

Sampling Date(s): June 6-7, 1995 and October 27, 1997

Sample Location(s): Park (2200 m to SSW)

Purpose of Monitoring: 1995 and 1997 site investigations

Range: 0.18 - <0.32 mg/kg, dry weight

Mean and Standard Deviation: N/A (only one value above detection limit)

Raw Data:

Park Sample Site	Year	Total Hg (mg/kg)
SSS-018	1995	0.18
SSS-054	1997	<0.32
SSS-055	1997	<0.30
SSS-056	1997	<0.30

Other Information: The value for sample code SSS-018 was obtained during 1995 earthworm sampling and concurrent soil samples from earthworm collection sites. Values for SSS-054, SSS-055, and SSS-056 were determined during 1997 soil sampling and mercury analysis. [Corresponding on-site data also available].

F.3 Off-site Sediment Monitoring Data

Environmental Medium: Sediment

Number of Data Points: 4 data points, including a single measurement each from 4 different off-site ponds and lakes.

Measurement Endpoint(s) (Units): Total mercury concentration in the upper 2 cm of the sediment in the deepest part of the water body (mg/kg, dry weight)

Sampling Date(s): (1) September 19, 1996

(2) September 26, 1996(3) September 20, 1996(4) September 20, 1996

Sampling Location(s): (1) Swetts Pond, (2) Thurston Pond, (3) Brewer Lake, and (4) Fields Pond. Deepest part of each water body.

Purpose of Monitoring: To determine if lakes and ponds are measurably affected by small, local air emission sources of mercury

Range: N/A (single value)

Mean and Standard Deviation: N/A

Raw Data: (1) Swetts Pond: 0.319 mg/kg

(2) Thurston Pond: 0.157 mg/kg(3) Brewer Lake: 0.201 mg/kg(4) Fields Pond: 0.132 mg/kg

F.4 Off-site Biota Monitoring Data

Environmental Medium: Earthworm at Park

Number of Data Points: 1 data point

Measurement Endpoint(s) (Units): (1) Percent moisture in earthworm

(2) Total mercury concentration in earthworm

sample (mg/kg, wet weight)

(3) Mercury concentration in concurrent soil sample

(mg/kg, dry weight)

Sampling Date: 1995

Sampling Location: Park (2200 m to SSW)

Purpose of Monitoring: unknown

Range: N/A (single value)

Mean and Standard Deviation: N/A

Raw Data: (1) 87.9 percent moisture in earthworm

(2) 0.044 (mg/kg, wet weight), mercury concentration in earthworm sample

(3) 0.18 (mg/kg, dry weight), mercury concentration in soil sample

Corresponding on-site data also available.

Environmental Medium: Short-tailed Shrew (*Blarina brevicauda*)

Number of Data Points: 1 data point

Measurement Endpoint(s) (Units): (1) Total mercury concentration (mg/kg, wet weight)

(2) Percent moisture (%)

Sampling Date(s): June 1995

Sample Location(s): Park (2200 m to SSW)

Purpose of Monitoring: 1995 Site Investigation

Range: N/A (single value)

Mean and Standard Deviation: N/A

Raw Data: (1) 0.064 mg/kg, wet weight

(2) 73.4 %

Environmental Medium: Deer Mouse

Number of Data Points: 2 data points

Measurement Endpoint(s) (Units): (1) Total mercury (mg/kg, wet weight)

(2) Percent moisture

Sampling Date(s): 1995

Sample Location(s): Park (2200 m to SSW)

Purpose of Monitoring: Mercury risk assessment

Range: N/A

Mean and Standard Deviation: (1) 0.0515 ± 0.05 , total mercury (mg/kg, wet weight)

(2) 75.4 ± 2.68 , percent moisture

Raw Data:

Sample	Percent Moisture	Total Hg (mg/kg wet weight)
Park	77.3	0.087
Park	73.5	0.016

Similar on-site data also available.

Environmental Medium: White perch from lakes in area of case study

Number of Data Points: 35 mercury concentration and fish length data points from 4 waterbodies, including (1) 10 data points from Swetts Pond, (2) 8 data points from Fields Pond, (3) 11 data points from Thurston Pond, and (4) 6 data points from Brewer Lake

Measurement Endpoint(s) (Units): (1) Total mercury concentration in skinless fillet (mg/kg, wet weight)

(2) Fish length (mm)

Sampling Date(s): (1) September 19, 1996

(2) September 20, 1996(3) September 26, 1996(4) September 20, 1996

Sample Location(s): (1) Swetts Pond

(2) Fields Pond(3) Thurston Pond(4) Brewer Lake

Purpose of Monitoring: To determine if lakes and ponds are measurably affected by small, local air emission sources of mercury

Range: (1) 0.50 - 1.31 mg/kg, wet weight and 240 - 350 mm in length

(2) 0.28 - 0.72 mg/kg, wet weight and 135 - 270 mm in length (3) 0.60 - 2.20 mg/kg, wet weight and 186 - 305 mm in length (4) 0.32 - 0.53 mg/kg, wet weight and 185 - 202 mm in length

Mean and Standard Deviation:

- (1) 0.98 ± 0.25 mg/kg, wet weight and 308 ± 32 mm in length
- (2) 0.45 ± 0.14 mg/kg, wet weight and 224 ± 48 mm in length
- (3) 1.07 ± 0.43 mg/kg, wet weight and 231 ± 34 mm in length
- (4) 0.41 ± 0.08 mg/kg, wet weight and 195 ± 8 mm in length

Raw Data:

Sample Point	Date	Length (mm)	Total Hg (mg/kg ww)
Swetts Pond-5544	9/19/96	320	1.29
Swetts Pond-5544	9/19/96	340	1.00
Swetts Pond-5544	9/19/96	330	0.86
Swetts Pond-5544	9/19/96	350	1.31
Swetts Pond-5544	9/19/96	320	0.97
Swetts Pond-5544	9/19/96	300	0.99
Swetts Pond-5544	9/19/96	295	1.15
Swetts Pond-5544	9/19/96	285	0.73
Swetts Pond-5544	9/19/96	295	1.04
Swetts Pond-5544	9/19/96	240	0.50
Fields Pond- 4282	9/20/96	270	0.72
Fields Pond- 4282	9/20/96	258	0.45
Fields Pond- 4282	9/20/96	265	0.57

APPENDIX F
SUMMARY OF AVAILABLE OFF-SITE MONITORING DATA

Sample Point	Date	Length (mm)	Total Hg (mg/kg ww)
Fields Pond- 4282	9/20/96	240	0.43
Fields Pond- 4282	9/20/96	240	0.49
Fields Pond- 4282	9/20/96	215	0.31
Fields Pond- 4282	9/20/96	170	0.28
Fields Pond- 4282	9/20/96	135	0.37
Thurston Pond-4321	9/26/96	305	2.20
Thurston Pond-4321	9/26/96	260	1.26
Thurston Pond-4321	9/26/96	235	1.11
Thurston Pond-4321	9/26/96	243	1.26
Thurston Pond-4321	9/26/96	245	1.02
Thurston Pond-4321	9/26/96	240	1.04
Thurston Pond-4321	9/26/96	186	0.60
Thurston Pond-4321	9/26/96	200	1.00
Thurston Pond-4321	9/26/96	210	0.75
Thurston Pond-4321	9/26/96	213	0.82
Thurston Pond-4321	9/26/96	200	0.67
Brewer Lake-4284	9/20/96	202	0.53
Brewer Lake-4284	9/20/96	191	0.43
Brewer Lake-4284	9/20/96	201	0.32
Brewer Lake-4284	9/20/96	185	0.48
Brewer Lake-4284	9/20/96	187	0.37
Brewer Lake-4284	9/20/96	201	0.32

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