

## **Appendix H**

### **Data Dictionaries for National and Massachusetts Databases**

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
National Blood Lead Data Aggregated to the County Level  
Data Dictionary  
March 2, 2007

#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: National\_Analysis\_Dataset:** Dataset used for analysis purposes that contains data merged from all data sources.

1	County_FIPS	Text	255	Concatenation of State & County FIPS numbers to create unique identifier for a		Yes (Duplicates OK)
2	Water	Number, Long Integer	4	SDWIS: Indicator variable for County Level Monitoring		No
3	State	Text	255	US Census State FIPS number		No
4	time	Number, Double	8	Time category for adjusting HUD Funding trends		No
5	county	Text	255	US Census County FIPS number		No
6	ntot	Text	255	CDC: Total Number of Children Screened for PbB		No
7	p5	Number, Double	8	CDC: Percent of Children Observed with PbB > = 5 µg/dL		No
8	p10	Number, Double	8	CDC: Percent of Children Observed with PbB > = 10 µg/dL		No
9	p15	Number, Double	8	CDC: Percent of Children Observed with PbB > = 15 µg/dL		No
10	p25	Number, Double	8	CDC: Percent of Children Observed with PbB > = 25 µg/dL		No
11	gm	Number, Double	8	Geometric Mean		No
12	am	Number, Double	8	Arithmetic Mean		No
13	flag	Number, Integer	2	0/1 Indicator regarding Blood-lead data quality		No
14	lpbw	Number, Double	8	EPA SDWIS: Log Transformed Average 90th percentile values		No
15	Total_Pop	Number, Long Integer	4	Total US Population		No
16	Pct_White	Number, Double	8	Percent US Population where race is Caucasian		No
17	Pct_Black	Number, Double	8	Percent US Population where race is African-American		No
18	Pct_AIANAP	Number, Double	8	Percent US Population where race is American Indian/Alaska Native alone		No
19	Pct_Asian	Number, Double	8	Percent US Population where race is Asian		No
20	Pct_NHOPI	Number, Double	8	Percent US Population where race is Native Hawaiian and Other Pacific Islander		No
21	Pct_Other_Race	Number, Double	8	Percent US Population where race is Some Other Race alone		No
22	Pct_Multi_Race	Number, Double	8	Percent US Population where race is Two or More Races		No
23	Pct_Hispanic	Number, Double	8	Percent US Population where ethnicity is Hispanic		No
24	Pct_LE_Six	Number, Double	8	Percent US Population who are less than or equal to six years of age		No
25	Pct_Single_Parent	Number, Double	8	Percent US Households with Single Parents		No
26	Median_HH_Income	Number, Double	8	Median Household income		No
27	Pct_HH_No_Earnings	Number, Double	8	Percent US Households with no earnings		No
28	Pct_HH_No_Wage	Number, Double	8	Percent US Households with no wages		No
29	Pct_HH_Public_Assist	Number, Double	8	Percent US Households on Public Assistance		No
30	Median_Family_Income	Number, Long Integer	4	Median Family Income		No
31	Median_Per_Capita_Income	Number, Long Integer	4	Median Per Capita Income		No
32	Pct_LT_Poverty	Number, Double	8	Percent US Population living below poverty level		No
33	Pct_LE_5Yrs_LT_Poverty	Number, Double	8	Percent US Population less than or equal to five years of age living below poverty		No
34	Pct_Family_Income_LT_Poverty	Number, Double	8	Percent Households with family income less than poverty level		No
35	Pct_LT_9th_Grade	Number, Double	8	Percent of US Population with less than a 9th grade education		No

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
<b>Table: National_Analysis_Dataset:</b> Dataset used for analysis purposes that contains data merged from all data sources.						
36	Pct_No_HS_Degree	Number, Double	8	Percent of US Population with no high school degree		No
37	Pct_No_College	Number, Double	8	Percent of US Population with no college experience		No
38	Pct_No_College_Degree	Number, Double	8	Percent of US Population with no college degree		No
39	Total_Housing_Units	Number, Long Integer	4	Total number US housing units		No
40	Pct_Vacant	Number, Double	8	Percent US Housing units vacant		No
41	Pct_Rented	Number, Double	8	Percent US Housing units rented		No
42	Pct_Built_Pre_1940	Number, Double	8	Percent US Housing units built before 1940		No
43	Pct_Built_Pre_1950	Number, Double	8	Percent US Housing units built before 1950		No
44	Pct_Built_Pre_1960	Number, Double	8	Percent US Housing units built before 1960		No
45	Pct_Built_Pre_1970	Number, Double	8	Percent US Housing units built before 1970		No
46	Pct_Built_Pre_1980	Number, Double	8	Percent US Housing units built before 1980		No
47	Median_Yr_Built	Number, Long Integer	4	Median year units built		No
48	Pct_Occ_Built_Pre_1940	Number, Double	8	Percent Occupied US Housing units built before 1940		No
49	Pct_Occ_Built_Pre_1950	Number, Double	8	Percent Occupied US Housing units built before 1950		No
50	Pct_Occ_Built_Pre_1960	Number, Double	8	Percent Occupied US Housing units built before 1960		No
51	Pct_Occ_Built_Pre_1970	Number, Double	8	Percent Occupied US Housing units built before 1970		No
52	Pct_Occ_Built_Pre_1980	Number, Double	8	Percent Occupied US Housing units built before 1980		No
53	Median_Yr_Occ_Built	Number, Long Integer	4	Median Year Occupied US Housing units built		No
54	Median_Rent	Number, Double	8	Median rent		No
55	Housing_Value	Number, Long Integer	4	Housing value		No
56	tri_at1	Number, Double	8	TRI: Total Air Emissions of Lead Only (lbs)		No
57	tri_af1	Number, Double	8	TRI: Fugitive Air Emissions of Lead Only (lbs)		No
58	tri_as1	Number, Double	8	TRI: Air Stack Emissions of Lead Only (lbs)		No
59	tri_ws1	Number, Double	8	TRI: Surface Water Emissions of Lead Only (lbs)		No
60	tri_ui1	Number, Double	8	TRI: Underground Injection of Lead Only (lbs)		No
61	tri_at2	Number, Double	8	TRI: Total Air Emissions of Lead Containing Compounds (lbs)		No
62	tri_af2	Number, Double	8	TRI: Fugitive Air Emissions of Lead Containing Compounds (lbs)		No
63	tri_as2	Number, Double	8	TRI: Air Stack Emissions of Lead Containing Compounds (lbs)		No
64	tri_ws2	Number, Double	8	TRI: Surface Water Emissions of Lead Containing Compounds (lbs)		No
65	tri_ui2	Number, Double	8	TRI: Underground Injection of Lead Containing Compounds (lbs)		No
66	tri_at3	Number, Double	8	TRI: Total Air Emissions of Total Lead (lbs)		No
67	tri_af3	Number, Double	8	TRI: Fugitive Air Emissions of Total Lead (lbs)		No
68	tri_as3	Number, Double	8	TRI: Air Stack Emissions of Total Lead (lbs)		No
69	tri_ws3	Number, Double	8	TRI: Surface Water Emissions of Total Lead (lbs)		No
70	tri_ui3	Number, Double	8	TRI: Underground Injection of Total Lead (lbs)		No
71	air_avg	Number, Double	8	1999 EPA NATA: Average Air Pb Concentration		No
72	air_med	Number, Double	8	1999 EPA NATA: Median Air Pb Concentration		No

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
National Blood Lead Data Aggregated to the County Level  
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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
<b>Table: National_Analysis_Dataset:</b> Dataset used for analysis purposes that contains data merged from all data sources.						
73	air_p95	Number, Double	8	1999 EPA NATA: 95th Percentile Air Pb Concentration		No
74	numkids	Number, Long Integer	4	CDC: Total Number of Children in the county		Yes (Duplicates OK)
75	hud_cum	Number, Double	8	Cumulative Funding from HUD Allocated to Counties		No
76	cdc_cum	Number, Double	8	Cumulative Funding from CDC Allocated to Counties		No
77	hud_cur	Number, Double	8	Current Funding from HUD Allocated to Counties		No
78	cdc_cur	Number, Double	8	Current Funding from CDC Allocated to Counties		No
79	quarter	Number, Integer	2	Quarter term used for seasonality adjustments		No
80	t_cat	Number, Integer	2	Time Category for Adjusting HUD Funding Trends		No
81	tot_cur	Number, Double	8	Total Current Funding (HUD+CDC) Allocated to Counties		No
82	tot_cum	Number, Double	8	Total Cumulative Funding (HUD+CDC) Allocated to Counties		No
83	region	Text	255	Categorical Variable representing 10 EPA Regions		No
84	h2o_p95	Number, Double	8	EPA SDWIS: Indicator >= 95th percentile of Water Pb Concentration		No
85	h2o_p99	Number, Double	8	EPA SDWIS: Indicator >= 99th percentile of Water Pb Concentration		No
86	air_med_p95	Number, Double	8	1999 EPA NATA: Indicator >= 95th percentile of Median Air Pb Concentration		No
87	air_med_p99	Number, Double	8	1999 EPA NATA: Indicator >= 99th percentile of Median Air Pb Concentration		No
88	tri_af1_p95	Number, Double	8	TRI: Indicator >= 95th percentile of Lead Only Fugitive Air Emissions		No
89	tri_af1_p99	Number, Double	8	TRI: Indicator >= 99th percentile of Lead Only Fugitive Air Emissions		No
90	tri_ui3_p95	Number, Double	8	TRI: Indicator >= 95th percentile of Total Lead Underground Injection		No
91	tri_ui3_p99	Number, Double	8	TRI: Indicator >= 99th percentile of Total Lead Underground Injection		No
92	tri_as1_p95	Number, Double	8	TRI: Indicator >= 95th percentile of Lead Only Air Stack Emissions		No
93	tri_as1_p99	Number, Double	8	TRI: Indicator >= 99th percentile of Lead Only Air Stack Emissions		No
94	tri_ui1_p95	Number, Double	8	TRI: Indicator >= 95th percentile of Lead Only Underground Injection		No
95	tri_ui1_p99	Number, Double	8	TRI: Indicator >= 99th percentile of Lead Only Underground Injection		No
96	high_airpb	Number, Double	8	1999 EPA NATA: Indicator for 20 Counties with High Pb Concentration		No

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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tblCensus2000County:** US Census Summary File 3 data.

1	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier		No
2	Total_Pop	Number, Double	8	Total Population		No
3	Pct_White	Number, Double	8	Percent Population where race is Caucasian		No
4	Pct_Black	Number, Double	8	Percent Population where race is African-American		No
5	Pct_AIANA	Number, Double	8	Percent Population where race is American Indian/Alaska Native alone		No
6	Pct_Asian	Number, Double	8	Percent Population where race is Asian		No
7	Pct_NHOPI	Number, Double	8	Percent Population where race is Native Hawaiian and Other Pacific Islander		No
8	Pct_Other_Race	Number, Double	8	Percent Population where race is Some Other Race alone		No
9	Pct_Multi_Race	Number, Double	8	Percent Population where race is Two or More Races		No
10	Pct_Hispanic	Number, Double	8	Percent Population where ethnicity is Hispanic		No
11	Pct_LE_Six	Number, Double	8	Percent Population who are less than or equal to six years of age		No
12	Num_LE_Six	Number, Double	8	Number Population who are less than or equal to six years of age		No
13	Pct_Single_Parent	Number, Double	8	Percent Households with Single Parents		No
14	Median_HH_Income	Number, Double	8	Median Household income		No
15	Pct_HH_No_Earnings	Number, Double	8	Percent Households with no earnings		No
16	Pct_HH_No_Wage	Number, Double	8	Percent Households with no wages		No
17	Pct_HH_Public_Assist	Number, Double	8	Percent Households on Public Assistance		No
18	Median_Family_Income	Number, Double	8	Median Family Income		No
19	Median_Per_Capita_Income	Number, Double	8	Median Per Capita Income		No
20	Pct_LT_Poverty	Number, Double	8	Percent Population living below poverty level		No
21	Pct_LE_5Yrs_LT_Poverty	Number, Double	8	Percent Population less than or equal to five years of age living below poverty		No
22	Pct_Family_Income_LT_Poverty	Number, Double	8	Percent Households with family income less than poverty level		No
23	Pct_LT_9th_Grade	Number, Double	8	Percent Population with less than a 9th grade education		No
24	Pct_No_HS_Degree	Number, Double	8	Percent Population with no high school degree		No
25	Pct_No_College	Number, Double	8	Percent Population with no college experience		No
26	Pct_No_College_Degree	Number, Double	8	Percent Population with no college degree		No
27	Total_Housing_Units	Number, Double	8	Total number housing units		No
28	Pct_Vacant	Number, Double	8	Percent Housing units vacant		No
29	Pct_Rented	Number, Double	8	Percent Housing units rented		No
30	Pct_Built_Pre_1940	Number, Double	8	Percent Housing units built before 1940		No
31	Pct_Built_Pre_1950	Number, Double	8	Percent Housing units built before 1950		No
32	Pct_Built_Pre_1960	Number, Double	8	Percent Housing units built before 1960		No
33	Pct_Built_Pre_1970	Number, Double	8	Percent Housing units built before 1970		No
34	Pct_Built_Pre_1980	Number, Double	8	Percent Housing units built before 1980		No
35	Median_Yr_Built	Number, Double	8	Median year units built		No

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National Blood Lead Data Aggregated to the County Level  
Data Dictionary  
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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
<b>Table: tblCensus2000County:</b> US Census Summary File 3 data.						
36	Pct_Occ_Built_Pre_1940	Number, Double	8	Percent Occupied Housing units built before 1940		No
37	Pct_Occ_Built_Pre_1950	Number, Double	8	Percent Occupied Housing units built before 1950		No
38	Pct_Occ_Built_Pre_1960	Number, Double	8	Percent Occupied Housing units built before 1960		No
39	Pct_Occ_Built_Pre_1970	Number, Double	8	Percent Occupied Housing units built before 1970		No
40	Pct_Occ_Built_Pre_1980	Number, Double	8	Percent Occupied Housing units built before 1980		No
41	Median_Yr_Occ_Built	Number, Double	8	Median Year Occupied Housing units built		No
42	Median_Rent	Number, Double	8	Median rent		No
43	Housing_Value	Number, Double	8	Housing value		No
44	Housing_Density	Number, Double	8	Housing Density (calculated variable. Housing_Density = Total_Housing_Units / SQMILE)		No
45	state_num_le_six	Number, Double	8	Number Population less than or equal to six years of age for applicable state		No
46	pct_le_six_by_state	Number, Double	8	Percent Population less than or equal to six years of age for applicable state		No
47	REGION	Text	1	US Census Region		No
48	STATE	Text	2	State FIPS		No
49	COUNTY	Text	3	County FIPS		No
50	NAME	Text	90	Name of County		No
51	INTPTLAT	Text	9	Latitude of Interior Point		No
52	INTPTLON	Text	10	Longitude of Interior Point		No
53	SQMILE	Number, Double	8	Square miles of County		No

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
National Blood Lead Data Aggregated to the County Level  
Data Dictionary  
March 2, 2007

#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tblDrinkingWaterData:** EPA National Review of LCR Implementation and Drinking Water Lead Reduction Plan Data

1	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier for a		Yes (Duplicates OK)
2	STATE	Text	2	US Census State FIPS number		No
3	COUNTY	Text	3	US Census County FIPS number		No
4	PWSID	Text	15	Water Source ID		No
5	PWSName	Text	50	Water Source Name		No
6	EPA_Region	Text	2	EPA Region		No
7	Geography_type	Text	5	Geography Type		No
8	State_Abbrev	Text	2	State Abbreviation		No
9	County_Name	Text	50	County Name		No
10	PWSType	Text	10	Primary Water Source Type		No
11	Gw_Sw	Text	2	Primary Source of Water Indicator		No
12	PSource	Text	3	Primary Source of Water		No
13	SizeCat3_pt	Text	50	Size category, based on average daily retail population served:		No
14	SizeCat11_pt	Text	50	Size category, based on average daily retail population served:		No
15	Pop	Number, Long Integer	4	Population		No
16	CYMonPerBegin	Number, Integer	2	Calendar Year Monitoring Period Began		No
17	MonPerBegin	Date/Time	8	Monitoring Period Began		No
18	MonPerEnd	Date/Time	8	Monitoring Period Ended		No
19	Measure	Number, Double	8	Measure of Lead in Water		No
20	AboveAL	Number, Byte	1	Above Action Level		No

**Table: tblNATA1999AmbientPb\_State\_County:** 1999 EPA NATA Data Ambient Lead data by county

1	County_Fips	Text	5	Concatenation of State & County FIPS numbers to create unique identifier		No
2	air_avg	Number, Double	8	Average Air Pb Concentration		No
3	air_med	Number, Double	8	Median Air Pb Concentration		No
4	air_p95	Number, Double	8	95th Percentile Air Pb Concentration		No

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
National Blood Lead Data Aggregated to the County Level  
Data Dictionary  
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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tblNationalDataByCountyFIPS:** National Blood Lead Level data from CDC.

1	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier for a		Yes (Duplicates OK)
2	Year	Number, Long Integer	4	Sampling year		No
3	Quarter	Number, Long Integer	4	Sampling quarter (1= Jan - Mar; 2=Apr-Jun; 3=Jul-Sep; 4=Oct-Dec)		No
4	StateAbbrev	Text	50	US Postal Service state abbreviation		No
5	State	Text	2	US Census State FIPS number		No
6	County	Text	50	US Census County FIPS number		No
7	Total	Number, Long Integer	4	Total Number of Children Screened for PbB		No
8	PercentG5	Number, Double	8	Percent of Children Observed with PbB > = 5 µg/dL		No
9	PercentG10	Number, Double	8	Percent of Children Observed with PbB > = 10 µg/dL		No
10	PercentG15	Number, Double	8	Percent of Children Observed with PbB > = 15 µg/dL		No
11	PercentG25	Number, Double	8	Percent of Children Observed with PbB > = 25 µg/dL		No
12	GeometricMean	Number, Double	8	Geometric Mean		No
13	ArithmeticMean	Number, Double	8	Arithmetic Mean		No

**Table: tblNationalFunding\_CDC:** Funding Data Provided by CDC and Allocated Across Counties

1	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier for a		Yes (Duplicates OK)
2	Funding_Year	Number, Integer	2	Year of Funding from CDC		No
3	Funding	Number, Long Integer	4	Amount of Funding from CDC		No
4	Funding_Source	Number, Integer	2	Source of Funding from CDC (0=no funding; 1=county-level funding; 2= state-level funding)		No

**Table: tblNationalFunding\_HUD:** Funding Data Provided by HUD and Allocated Across Counties

1	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier for a		Yes (Duplicates OK)
2	Funding_Year	Number, Integer	2	Year of Funding from HUD		No
3	Funding	Number, Long Integer	4	Amount of Funding from HUD		No
4	Funding_Source	Number, Integer	2	Source of Funding from HUD (0=no funding; 1=county-level funding; 2= state-level funding)		No



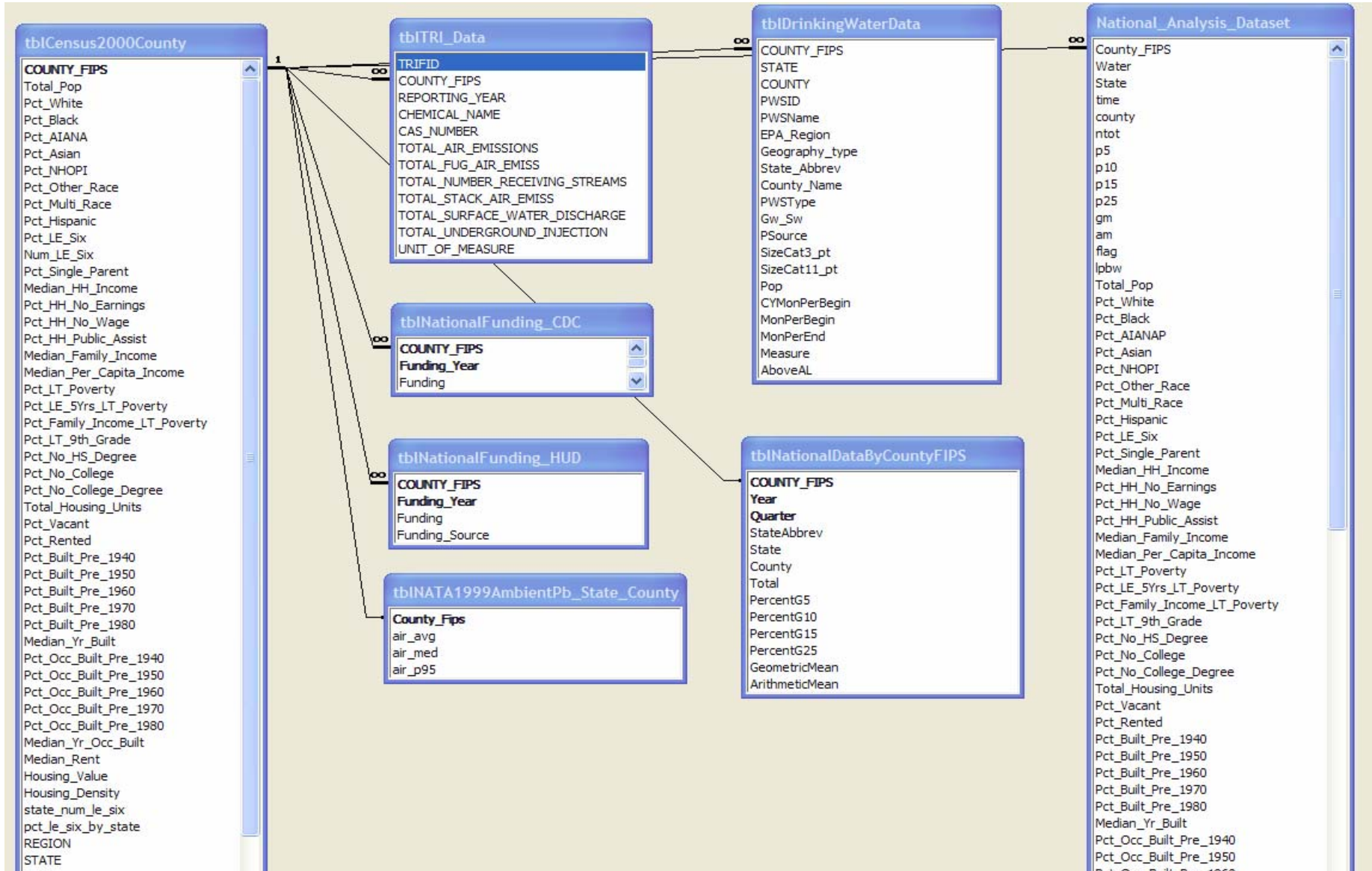
PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
National Blood Lead Data Aggregated to the County Level  
Data Dictionary  
March 2, 2007

#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tbitRI\_Data:** Toxics Release Inventory Data for Lead and Lead Components only (1998 - 2004).

1	TRIFID	Text	20	Toxics Release Inventory Facility ID		No
2	COUNTY_FIPS	Text	5	Concatenation of State & County FIPS numbers to create unique identifier		Yes (Duplicates OK)
3	REPORTING_YEAR	Number, Integer	2	Reporting Year		No
4	CHEMICAL_NAME	Text	100	Name of Chemical ("Lead", "Lead Compounds")		No
5	CAS_NUMBER	Text	15	CAS Number		No
6	TOTAL_AIR_EMISSIONS	Number, Double	8	Total Air Emissions		No
7	TOTAL_FUG_AIR_EMISS	Number, Double	8	Total Fugitive Air Emissions		No
8	TOTAL_NUMBER_RECEIVING_STREAMS	Number, Byte	1	Total Number Receiving Streams		No
9	TOTAL_STACK_AIR_EMISS	Number, Double	8	Total Stack Air Emissions		No
10	TOTAL_SURFACE_WATER_DISCHARGE	Number, Double	8	Total Surface Water Discharge		No
11	TOTAL_UNDERGROUND_INJECTION	Number, Double	8	Total Underground Injection		No
12	UNIT_OF_MEASURE	Text	6	Unit of Measure (pounds)		No

PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
 National Blood Lead Data Aggregated to the County Level  
 Data Diagram  
 March 2, 2007



PILOT STUDY OF TARGETING ELEVATED BLOOD-LEAD LEVELS IN CHILDREN  
Massachusetts Blood Lead Data Aggregated to the Census Tract Level  
Data Dictionary  
March 2, 2007

#	Field Name	Data Type	Size	Description	Primary Key	Secondary
1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier		Yes (Duplicates OK)
2	time	Number, Double	8	Time (Measured in Years - Centered at Yr 2000)		No
3	Total_Pop	Number, Long Integer	4	Total Population		No
4	Pct_AIANA	Number, Double	8	Percent Population where race is American Indian/Alaska Native alone		No
5	Pct_Multi_Race	Number, Double	8	Percent Population where race is Two or More Races		No
6	Pct_LE_Six	Number, Double	8	Percent Population who are less than or equal to six years of age		No
7	Num_LE_Six	Number, Long Integer	4	Number Population who are less than or equal to six years of age		Yes (Duplicates OK)
8	Pct_Single_Parent	Number, Double	8	Percent Households with Single Parents		No
9	Median_HH_Income	Number, Double	8	Median Household income		No
10	Pct_HH_No_Wage	Number, Double	8	Percent Households with no wages		No
11	Pct_LT_9th_Grade	Number, Double	8	Percent Population with less than a 9th grade education		No
12	Pct_No_HS_Degree	Number, Double	8	Percent Population with no high school degree		No
13	Pct_No_College	Number, Double	8	Percent Population with no college experience		No
14	Total_Housing_Units	Number, Long Integer	4	Total number housing units		No
15	Pct_Vacant	Number, Double	8	Percent Housing units vacant		No
16	Pct_Rented	Number, Double	8	Percent Housing units rented		No
17	Pct_Built_Pre_1950	Number, Double	8	Percent Housing units built before 1950		No
18	Pct_Occ_Built_Pre_1940	Number, Double	8	Percent Occupied Housing units built before 1940		No
19	Pct_Occ_Built_Pre_1980	Number, Double	8	Percent Occupied Housing units built before 1980		No
20	Median_Rent	Number, Double	8	Median rent		No
21	numhouse	Number, Long Integer	4	Number of Households		Yes (Duplicates OK)
22	p4	Number, Double	8	MDPH: Housing Interventions - Proportion in compliance		No
23	f4	Number, Double	8	MDPH: Housing Interventions - Proportion out of compliance		No
24	cf_cum	Number, Double	8	CDC: Cumulative Funding Allocated to Census Tract		No
25	sf_cur	Number, Double	8	MDPH: Current Funding Allocation from Massachusetts Loans		No
26	ntot	Number, Double	8	MDPH: Total Number of Children Screened		No
27	p5	Number, Double	8	MDPH: Proportion of Children Screened >= 5 µg/dL		No
28	p10	Number, Double	8	MDPH: Proportion of Children Screened >= 10 µg/dL		No
29	p15	Number, Double	8	MDPH: Proportion of Children Screened >= 15 µg/dL		No
30	p25	Number, Double	8	MDPH: Proportion of Children Screened >= 25 µg/dL		No
31	gm	Number, Double	8	MDPH: Geometric Mean Blood-Lead Concentration		No
32	hq	Number, Double	8	NATA: Air Concentration, Hazard Quotient Model		No
33	water_surf	Number, Double	8	TRI: Pounds of Lead Emitted into Surface Water		No
34	quarter	Number, Integer	2	Seasonality Adjustment Term (Quarter of the Year)		No

**Table: MA\_Analysis\_Dataset:** Dataset used in SAS that contains data from all data sources.

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Massachusetts Blood Lead Data Aggregated to the Census Tract Level  
Data Dictionary  
March 2, 2007

#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tblCensus2000Tract:** US Census Summary File 3 data.

1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier		No
2	REGION	Text	1	US Census Region		No
3	STATE	Text	2	State FIPS		No
4	COUNTY	Text	3	County FIPS		No
5	TRACT	Text	6	Census Tract number		No
6	INTPTLAT	Text	9	Latitude of Interior Point		No
7	INTPTLON	Text	10	Longitude of Interior Point		No
8	SQMI	Number, Double	8	Square miles of Census Tract		No
9	Total_Pop	Number, Double	8	Total Population		No
10	Pct_White	Number, Double	8	Percent Population where race is Caucasian		No
11	Pct_Black	Number, Double	8	Percent Population where race is African-American		No
12	Pct_AIANA	Number, Double	8	Percent Population where race is American Indian/Alaska Native alone		No
13	Pct_Asian	Number, Double	8	Percent Population where race is Asian		No
14	Pct_NHOPI	Number, Double	8	Percent Population where race is Native Hawaiian and Other Pacific Islander		No
15	Pct_Other_Race	Number, Double	8	Percent Population where race is Some Other Race alone		No
16	Pct_Multi_Race	Number, Double	8	Percent Population where race is Two or More Races		No
17	Pct_Hispanic	Number, Double	8	Percent Population where ethnicity is Hispanic		No
18	Pct_LE_Six	Number, Double	8	Percent Population who are less than or equal to six years of age		No
19	Num_LE_Six	Number, Double	8	Number Population who are less than or equal to six years of age		No
20	Pct_Single_Parent	Number, Double	8	Percent Households with Single Parents		No
21	Median_HH_Income	Number, Double	8	Median Household income		No
22	Pct_HH_No_Earnings	Number, Double	8	Percent Households with no earnings		No
23	Pct_HH_No_Wage	Number, Double	8	Percent Households with no wages		No
24	Pct_HH_Public_Assist	Number, Double	8	Percent Households on Public Assistance		No
25	Median_Family_Income	Number, Double	8	Median Family Income		No
26	Median_Per_Capita_Income	Number, Double	8	Median Per Capita Income		No
27	Pct_LT_Poverty	Number, Double	8	Percent Population living below poverty level		No
28	Pct_LE_5Yrs_LT_Poverty	Number, Double	8	Percent Population less than or equal to five years of age living below poverty		No
29	Pct_Family_Income_LT_Poverty	Number, Double	8	Percent Households with family income less than poverty level		No
30	Pct_LT_9th_Grade	Number, Double	8	Percent Population with less than a 9th grade education		No
31	Pct_No_HS_Degree	Number, Double	8	Percent Population with no high school degree		No
32	Pct_No_College	Number, Double	8	Percent Population with no college experience		No
33	Pct_No_College_Degree	Number, Double	8	Percent Population with no college degree		No
34	Total_Housing_Units	Number, Double	8	Total number housing units		No
35	Pct_Vacant	Number, Double	8	Percent Housing units vacant		No

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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
<b>Table: tblCensus2000Tract:</b> US Census Summary File 3 data.						
36	Pct_Rented	Number, Double	8	Percent Housing units rented		No
37	Pct_Built_Pre_1940	Number, Double	8	Percent Housing units built before 1940		No
38	Pct_Built_Pre_1950	Number, Double	8	Percent Housing units built before 1950		No
39	Pct_Built_Pre_1960	Number, Double	8	Percent Housing units built before 1960		No
40	Pct_Built_Pre_1970	Number, Double	8	Percent Housing units built before 1970		No
41	Pct_Built_Pre_1980	Number, Double	8	Percent Housing units built before 1980		No
42	Median_Yr_Built	Number, Double	8	Median year units built		No
43	Pct_Occ_Built_Pre_1940	Number, Double	8	Percent Occupied Housing units built before 1940		No
44	Pct_Occ_Built_Pre_1950	Number, Double	8	Percent Occupied Housing units built before 1950		No
45	Pct_Occ_Built_Pre_1960	Number, Double	8	Percent Occupied Housing units built before 1960		No
46	Pct_Occ_Built_Pre_1970	Number, Double	8	Percent Occupied Housing units built before 1970		No
47	Pct_Occ_Built_Pre_1980	Number, Double	8	Percent Occupied Housing units built before 1980		No
48	Median_Yr_Occ_Built	Number, Double	8	Median Year Occupied Housing units built		No
49	Median_Rent	Number, Double	8	Median rent		No
50	Housing_Value	Number, Double	8	Housing value		No
51	Housing_Density	Number, Double	8	Housing Density (calculated variable. Housing_Density = Total_Housing_Units / SQMILE)		No

**Table: tblIMADDataByCensusTract:** Aggregated Massachusetts blood lead level data by census tract.

1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier		Yes (Duplicates OK)
2	Year	Number, Long Integer	4	Sampling year		No
3	Quarter	Number, Long Integer	4	Sampling quarter (1= Jan - Mar; 2=Apr-Jun; 3=Jul-Sep; 4=Oct-Dec)		No
4	StateAbbrev	Text	2	US Postal Service state abbreviation		No
5	Total	Number, Long Integer	4	Total Number of Children Screened for PbB		No
6	PercentG5	Number, Double	8	Percent of Children Observed with PbB > = 5 µg/dL		No
7	PercentG10	Number, Double	8	Percent of Children Observed with PbB > = 10 µg/dL		No
8	PercentG15	Number, Double	8	Percent of Children Observed with PbB > = 15 µg/dL		No
9	PercentG25	Number, Double	8	Percent of Children Observed with PbB > = 25 µg/dL		No
10	GeometricMean	Number, Double	8	Geometric Mean		No
11	ArithmeticMean	Number, Double	8	Arithmetic Mean		No

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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
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**Table: tbIMAFunding\_CDC:** National CDC Grantee Funding Allocated to the Census Tract Level for the Applicable Massachusetts Grantees.

1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(Duplicates OK)
2	Funding_Year	Number, Integer	2	Year of Funding from CDC	No	
3	Funding	Number, Long Integer	4	Amount of Funding from CDC	No	
4	Funding_Source	Number, Integer	2	Source of Funding from CDC (0=no funding; 1=county-level funding; 2= state-level funding)	No	

**Table: tbIMAHouseholdData:** Massachusetts environmental data.

1	AddressID	Text	14	Address ID	No	
2	Activity Date	Date/Time	8	Activity Date	No	
3	Event_Code	Number, Integer	2	Event Code	No	
4	EventDesc	Text	40	Event Description	No	
5	Event_outcome	Text	20	Event Outcome	No	
6	County	Text	255	County	No	
7	Census_Tract	Text	255	Census Tract	No	
8	Event Result	Text	1	Event Result	No	
9	In Final Compliance	Text	1	In Final Compliance	No	
10	Event_Outcome_Code	Number, Integer	2	Event Outcome Code	No	
11	Month	Number, Integer	2	Month of sample	No	
12	Quarter	Number, Integer	2	Quarter of Sample	No	
13	Year	Number, Integer	2	Year of Sample	No	
14	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(Duplicates OK)

**Table: tbIMASStateFunding:** Funding from the MDPH allocated across census tracts for the state of Massachusetts.

1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(Duplicates OK)
2	Funding_Year	Number, Integer	2	Year of Funding from MDPH	No	
3	Funding	Number, Long Integer	4	Amount of Funding from MDPH	No	
4	Funding_Source	Number, Integer	2	Source of Funding from MDPH (0=no funding; 3 = funding from MDPH)	No	

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#	Field Name	Data Type	Size	Description	Primary Key	Secondary
<b>Table: tbINATA1999CAANUM182_Tract</b>						
1	fulltract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(No Duplicates)
2	ASPENTotal	Number, Double	8	Air Concentration, Assessment System for Population Exposure Nationwide Model		No
3	HAPEMTotal	Number, Double	8	Air Concentration, Hazardous Air Pollutant Exposure Model		No
4	HQTotal	Number, Double	8	Air Concentration, Hazard Quotient Model		No
<b>Table: tbINationalFunding_MA_Tracts:</b> 1999 EPA NATA Data Ambient Lead data by census tract.						
1	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(Duplicates OK)
2	Funding_Year	Number, Integer	2	Year of Funding from HUD		No
3	Funding	Number, Long Integer	4	Amount of Funding from HUD		No
4	Funding_Source	Number, Integer	2	Source of Funding from HUD (0=no funding; 1=county-level funding; 2= state-level funding)		No
<b>Table: tbITRI_Data_MA:</b> Toxics Release Inventory Data at the Census Tract Level for the state of Massachusetts (Lead and Lead Compounds only, 1998 - 2004 data).						
1	TRIFID	Text	20	Toxics Release Inventory Facility ID		No
2	FullTract	Text	11	Concatenation of State & County FIPS & Census Tract numbers to create unique identifier	Yes	(Duplicates OK)
3	REPORTING_YEAR	Number, Integer	2	Reporting Year		No
4	CAS_NUMBER	Text	15	CAS Number		No
5	CHEMICAL_NAME	Text	100	Name of Chemical ("Lead", "Lead Compounds")		No
6	TOTAL_AIR_EMISSIONS	Number, Double	8	Total Air Emissions		No
7	TOTAL_FUG_AIR_EMISS	Number, Double	8	Total Fugitive Air Emissions		No
8	TOTAL_NUMBER_RECEIVING_STREAMS	Number, Byte	1	Total Number Receiving Streams		No
9	TOTAL_STACK_AIR_EMISS	Number, Double	8	Total Stack Air Emissions		No
10	TOTAL_SURFACE_WATER_DISCHARGE	Number, Double	8	Total Surface Water Discharge		No
11	TOTAL_UNDERGROUND_INJECTION	Number, Double	8	Total Underground Injection		No
12	UNIT_OF_MEASURE	Text	6	Unit of Measure (pounds)		No

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