

US EPA ARCHIVE DOCUMENT

THE CLEAN AIR ACT ASSESSMENT PACKAGE-1988
(CAP-88)
A DOSE AND RISK ASSESSMENT METHODOLOGY
FOR RADIONUCLIDE EMISSIONS TO AIR

VOLUME 3

APPENDICES I - M

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Contract No. 68-D9-0170
Work Assignment 1-28

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October 1990

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APPENDIX I
SAMPLE CAP-88 OUTPUT FILES

APPENDIX I
SAMPLE CAP-88 OUTPUT FILES

SAMPLE.ERR File

Sample CAP-88 Output Files

CAA88.DATA(ALLRAD88) 09/07/88. ICRP H-SUB-E AND NEW FOOD XFR FACTORS.
TYPE=3 DOSE EQUIVALENT FACTOR (REM) SELECTED WITH Q= 20.0 AND TIME= 50.
11 AIRDOS ORGANS PAIRED WITH DARTAB-RADRIK ORGANS:

EFFEC WT SUM
GONADS GONADS
BREAST BREAST
R MARROW R MAR
LUNG LUNGS
THYROID THYROID
BON SURF ENDOST
RMNDR RMNDR
INT WALL INT WALL
LIVER LIVER
KIDNEYS KIDNEYS

7 ORGANS AND WEIGHTS USED TO PRODUCE WEIGHTED-SUM

GONADS 2.500E-01
BREAST 1.500E-01
R MAR 1.200E-01
LUNGS 1.200E-01
THYROID 3.000E-02
ENDOST 3.000E-02
RMNDR 3.000E-01

READING DATA TYPE= OPTI
READING DATA TYPE= GRID
READING DATA TYPE= METE
READING DATA TYPE= PHYS
READING DATA TYPE= WIND

... WARNING ... STAR DATA CONTAIN ONLY 6 CLASSES.

READING DATA TYPE= RAD1
READING DATA TYPE= MOOI
READING DATA TYPE= POPU

FILE= 24
SKIP= 3

READING DATA TYPE= COMM
READING DATA TYPE= AG D

*** END OF USER DATA; BEGIN PROCESSING ***

SAMPLE.ERR File
(continued)

OUTPUT OF AIRDOS-EPA COMPUTER CODE

OPTIONS SELECTED--

RADIONUCLIDE CONCENTRATIONS ARE LISTED FOR DIRECTION AND DISTANCE FROM FACILITY
RADIONUCLIDE CONCENTRATIONS LISTED ARE SECTOR-AVERAGED VALUES
PLUME RISE IS COMPUTED FOR BUOYANT PLUMES BY BRIGGS EQUATIONS
THE CHI/Q TABLES ARE NOT PRINTED

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT
208 511 OR OVER

Sample CAP-88 Output Files
(continued)

SAMPLE.ERR File
(continued)

PREPAR/AIRDOS-EPA/PREDA/DARTAB2								GE, NV																
XE-133	0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1																
M	NUCAIR	RESPN	PSIZN	GIABS(1)-GIABS(4)				INDICATORS:	2	3	4	5	12	13	14	15	33	96	97	98	99			
1	XE-133	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	1	1	1	0	1	1	1	0	1	1	1	0			

Sample CAP-88 Output Files
(continued)

SAMPLE.ERR File
(continued)

GE, NV

```

PREPAR/AIRDOS-EPA/PREDA/DARTAB2
&INPUT ILOC= 0, JLOC= 0, PLOC=100.0,
ILET= 1, 1,
DTABLE= 0, 0, 0, 0, 0, 0, 0, 0,
RTABLE= 0, 0, 0, 0, 0, 0, 0, 0,
FTABLE= 0, 0, 0, 0, 0, 0, 0, 0,
OUTPUT=T,
GSCFAC=0.500,
ICRP=1, IHEAD=1
&END
&ORGAN NORG= 8,
ORGN= 'GONADS ', 'BREAST ', 'R MAR ', 'LUNGS ', 'THYROID ',
      'ENDOST ', 'RMNDR ', 'EFFEC ',
TIME= 50.0, 50.0, 50.0, 50.0, 50.0, 50.0, 50.0, 50.0,
&END
&QFACTR
HLET=20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,
      20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,20.0,
LLET= 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,
      1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,
&END
&CANCER NCANC= 11,
CANC= 'LEUKEMIA', 'BONE ', 'THYROID ', 'BREAST ', 'LUNG ',
      'STOMACH ', 'BOWEL ', 'LIVER ', 'PANCREAS', 'URINARY ',
      'OTHER ',
RELABS= 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,
        1.0,
&END
&GENETIC GENEFF=T, NGEN= 3,
GEN= 'TESTES ', 'OVARIES ', 'AVERAGE ',
GRFAC= 2.600E+02, 6.900E+02,
REPPER= 0.014113,
GLLET= 1.00, 1.00, 1.00,
GHLET= 20.00, 20.00, 20.00,
&END
&RNUCLD NONCLD= 1,
NUCLID= 'XE-133 ',
PSIZE= 0.00,
RESP= '* ',
GIABS= 0.000E+00, 0.000E+00, 0.000E+00, 0.000E+00,
&END
&LOCTBL NTLOC= 7,
RNLOC= 'WLSUM ', 'WLSUM ', 'WLSUM ', 'SUM ', 'SUM ',
      'SUM ', 'SUM ',
OGLOC= 'SUM ', 'SUM ', 'SUM ', 'SUM ', 'SUM ',
      'SUM ', 'SUM ',
PTLOC= 7, 7, 7, 7, 7, 7, 7,

```

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Sample CAP-88 Output Files
(continued)

SAMPLE.ERR File
(continued)

FALOC= 2, 1, 2, 1, 1, 2, 2,
HLLOC= 1, 1, 1, 1, 1, 1, 1,
LTABLE= 1, 3, 3, 1, 3, 1, 3,
&END
&ORGANF NORGB= 7,
ORGB= 'GONADS ', 'BREAST ', 'R MAR ', 'LUNGS ', 'THYROID ',
'ENDOST ', 'RMNDR ',
IPATH= 5, 5, 5, 5, 5, 5, 5,
ORGDAT= 0.2500, 0.1500, 0.1200, 0.1200, 0.0300,
0.0300, 0.3000,
&END
IHEAD= 1
ICRP= 1

0 INDICATES THE TABLE WILL NOT BE PRINTED
1 INDICATES INDIVIDUAL VALUES WILL BE PRINTED
2 INDICATES MEAN INDIVIDUAL VALUES WILL BE PRINTED
3 INDICATES COLLECTIVE VALUES WILL BE PRINTED
4 INDICATES ALL OF THE ABOVE WILL BE PRINTED

QUANTITY	TABLE NO.	1	2	3	4	5	6	7
1.DOSE RATES		0	0	0	0	0	0	0
2.HEALTH RISKS		0	0	0	0	0	0	0
3.RISK EQUIVALENT FACTOR		0	0	0	0	0	0	0

TABLES FOR THE SELECTED INDIVIDUAL WILL BE DONE FOR THE LOCATION HAVING 100.00 % OF THE HIGHEST TOTAL RISK.

DOSE RATE TABLES COMBINING LOW AND HIGH LET WILL BE PRINTED.
HEALTH RISK TABLES COMBINING LOW AND HIGH LET WILL BE PRINTED.
THE GROUND SURFACE CORRECTION FACTOR IS 0.50

THERE ARE 8 ORGANS TO BE OUTPUT. THEY ARE:

ORGAN	TIME	ORGAN	TIME	ORGAN	TIME
GONADS	50.	BREAST	50.	R MAR	50.
LUNGS	50.	THYROID	50.	ENDOST	50.
RMNDR	50.	EFFEC	50.		

ORGAN	DOSE EQUIVALENT FACTORS	
	LOW LET	HIGH LET
GONADS	1.00000	20.0000
BREAST	1.00000	20.0000
R MAR	1.00000	20.0000
LUNGS	1.00000	20.0000
THYROID	1.00000	20.0000
ENDOST	1.00000	20.0000
RMNDR	1.00000	20.0000
EFFEC	1.00000	20.0000

Sample CAP-88 Output Files
(continued)

SAMPLE.ERR File
(continued)

THERE ARE 11 CANCERS TO BE OUTPUT.
A 1 INDICATES ABSOLUTE RISK; A 2 IS RELATIVE RISK.
CANCER CANCER CANCER CANCER
LEUKEMIA 1. BONE 1. THYROID 1. BREAST 1.
LUNG 1. STOMACH 1. BOWEL 1. LIVER 1.
PANCREAS 1. URINARY 1. OTHER 1.

GENETIC DOSES ARE PRINTED FOR:

TESTES OVARIES AVERAGE

THE RISK FACTOR (PER RAD/MILLION BIRTHS) FOR GENETIC DOSE ARE :

260.0 FOR LOW LET, AND

690.0 FOR HIGH LET,

AND THE REPLACEMENT RATE FOR THE POPULATION IS :

0.1411E-01 YEAR-1

THERE ARE 1 RADIONUCLIDES TO BE OUTPUT.

NUCLIDE PARTICLE SIZE CLEARANCE CLASS

XE-133 0.00000 *

7 LOCATION TABLES ARE TO BE OUTPUT FOR:

NUCLIDE ORGAN PATHWAY QUANTITY LET
OR CANCER

STOMACH
0.00000

G.I. ABSORPTION FRACTION
SI ULI
0.00000 0.00000

LLI
0.00000

WLSUM	SUM	7	2	1
WLSUM	SUM	7	1	1
WLSUM	SUM	7	2	1
SUM	SUM	7	1	1
SUM	SUM	7	1	1
SUM	SUM	7	2	1
SUM	SUM	7	2	1

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT File

PLEASE GIVE TO ==> BARRY PARKS
PHONE NUMBER: (702) 798-2443

Sample CAP-88 Output Files
(continued)

SYNOPSIS REPORT - CAP-88 (1.00)

ID Code: DOE_ARGONNEP Date/Time: THR 7 September, 1989 12:05:43 PM

Facility: ARGONNE NATIONAL LABORATORY
Address: ADDRESS
City: ARGONNE
State: IL Zipcode:

Source Category: DOE FACILITIES Source Term: 1986

Comments:
ARGONNE NATIONAL LAB, IL UNIV. OF CHICAGO POP RUN

POPULATION ASSESSMENT
(RN-222 DOSE/RISK EXCLUDED)

ICRP Collective Effective Dose Equivalent (Person-Rem/Year): 3.07E-01

Collective Population

	GONADS	BREAST	R MAR	LUNGS	THYROID	ENDOST	RMNDR
Organ dose (P-REM/YR) :	3.1E-01	3.0E-01	2.8E-01	3.3E-01	3.5E-01	2.7E-01	3.1E-01

FREQUENCY DISTRIBUTION OF LIFETIME FATAL CANCER RISKS

RISK	NUMBER OF PEOPLE	NUMBER OF PEOPLE AT THIS RISK OR HIGHER	DEATHS/YEAR AT THIS RISK	DEATHS/YEAR AT THIS RISK OR HIGHER
1.0E+00 TO 1.0E-01	0	0	0.00E+00	0.00E+00
1.0E-01 TO 1.0E-02	0	0	0.00E+00	0.00E+00
1.0E-02 TO 1.0E-03	0	0	0.00E+00	0.00E+00
1.0E-03 TO 1.0E-04	0	0	0.00E+00	0.00E+00
1.0E-04 TO 1.0E-05	0	0	0.00E+00	0.00E+00
1.0E-05 TO 1.0E-06	0	0	0.00E+00	0.00E+00
LESS THAN 1.0E-06	7893815	7893815	1.13E-04	1.13E-04

INDIVIDUAL AT MAXIMUM RISK ASSESSEMENT
(RN-222 RISKS EXCLUDED)

Location to the individual: 750 METERS SOUTH SOUTHWEST

	GONADS	BREAST	R MAR	LUNGS	THYROID	ENDOST	RMNDR
Organ dose (mrem/yr) :	2.6E-03	2.5E-03	2.8E-03	3.1E-02	2.5E-03	2.1E-02	2.7E-03

ICRP Effective Dose Equivalent (mrem/yr): 6.59E-03
Lifetime Fatal Cancer Risk : 1.39E-07

SOURCE TERM (1986)

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

ID CODE: DOE_ARGONNEP

DATE/TIME:THR 7 September, 1989 12:05:43 PM PAGE 2

Nuclide	Class	Amad	Stack #1 Ci/yr	TOTAL
AR-41	*	0.00	1.46E+00	1.46E+00
C-11	D	1.00	9.00E+01	9.00E+01
CS-134	D	1.00	2.04E-07	2.04E-07
CS-137	D	1.00	4.95E-07	4.95E-07
BA-137M	D	1.00	0.00E+00	0.00E+00
H-3	*	0.00	5.03E+01	5.03E+01
I-129	D	1.00	1.61E-05	1.61E-05
I-131	D	1.00	1.52E-06	1.52E-06
KR-85	*	0.00	1.70E+00	1.70E+00
NB-95	Y	1.00	1.55E-08	1.55E-08
PU-239	Y	1.00	5.61E-09	5.61E-09
RN-220	*	0.00	6.98E+03	6.98E+03
SB-125	W	1.00	3.38E-05	3.38E-05
ZR-95	W	1.00	7.50E-09	7.50E-09

SITE INFORMATION

Temperature: 10 C
Rainfall: 80 cm/yr
Mixing Height: 700 meters

EMISSION INFORMATION

Stack Number: 1
Stack Height (meters): 61.00
Stack Diameter (meters): 0.00
Plume Rise
Momentum (m/sec): 0.00E+00

FOOD SUPPLY FRACTIONS

	Local	Regional	Imported
Vegetable:	0.076	0.924	0.000
Meat:	0.008	0.992	0.000
Milk:	0.000	1.000	0.000

FOOD FRACTIONS USED: DB = 3.33E-01 DM = 2.16E-02 FC = 2.80E-02

POPULATION ARRAY (1980 Census)

	250	750	1500	2500	3500	4500	7500
N	0.	0.	0.	2070.	514.	3434.	25640.
NNW	0.	0.	0.	0.	3283.	4172.	17450.
NW	0.	0.	0.	0.	0.	1925.	16327.
WNW	0.	0.	0.	421.	0.	0.	15766.
W	0.	0.	0.	0.	0.	3832.	10282.
WSW	0.	0.	0.	0.	757.	0.	18479.

Sample CAP-88 Output Files
(continued)

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SAMPLE.OUT
(Continued)

ID CODE: DOE_ARGONNEP

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	250	750	1500	2500	3500	4500	7500
SW	0.	0.	0.	0.	0.	583.	699.
SSW	0.	371.	0.	0.	0.	754.	3388.
S	0.	0.	0.	0.	0.	0.	11255.
SSE	0.	0.	0.	0.	0.	0.	1524.
SE	0.	0.	0.	0.	0.	0.	1400.
ESE	0.	0.	0.	0.	0.	9.	543.
E	0.	0.	0.	2877.	0.	626.	0.
ENE	0.	0.	0.	0.	549.	807.	7362.
NE	0.	0.	0.	899.	1493.	1477.	6039.
NNE	0.	0.	0.	1245.	4758.	3299.	18169.

	15000	25000	35000	45000	55000	70000
N	79915.	108628.	137641.	198337.	58920.	239266.
NNW	76995.	81605.	153849.	53208.	59104.	111910.
NW	31050.	38804.	39953.	63051.	4973.	21218.
WNW	40030.	32245.	29235.	4906.	2527.	52311.
W	15628.	64259.	34322.	5686.	9600.	6945.
WSW	3255.	3927.	1759.	1552.	2745.	5894.
SW	14087.	25526.	3013.	2211.	11628.	13569.
SSW	25583.	92779.	6919.	6218.	14385.	9580.
S	3057.	17399.	3386.	1227.	3539.	69888.
SSE	1560.	20196.	2956.	3162.	6812.	21119.
SE	38264.	55616.	129090.	26537.	13264.	28396.
ESE	42042.	148331.	186756.	195779.	202379.	109332.
E	110559.	390640.	316868.	23367.	0.	27418.
ENE	85258.	426648.	343806.	0.	0.	0.
NE	104299.	548998.	884496.	132440.	0.	0.
NNE	72950.	210212.	312502.	221810.	53208.	3020.

REFERENCE FILE NAMES FOR ASSESSMENT

JCL FILE ==> CAAR.CAA88.DOE(ARGONNEP)
 ALLRAD FILE ==> CBNRACS.CAA88.DATA(ALLRAD88)
 POP FILE ==> CAAR.CAA88.POPLIB(ARGONNE)
 STARFILE ==> CAAR.CAA88.STARLIB(MDWO675)
 PREDA FILE ==> CAAR.AIRDOS.LIB(JOAPOP)
 RADRISK FILE ==> CBNRACS.CAA88.RADRISK.V8401RBM

Sample CAP-88 Output Files
(continued)

ID CODE: DOE_ARGONNEP

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FREQUENCY DISTRIBUTION OF LIFETIME FATAL CANCER RISKS

RISK ----	NUMBER OF PEOPLE -----	NUMBER OF PEOPLE AT THIS RISK OR HIGHER -----	DEATHS/YEAR AT THIS RISK -----	DEATHS/YEAR AT THIS RISK OR HIGHER -----
1.0E+00 TO 3.0E-01	0	0	0.00E+00	0.00E+00
3.0E-01 TO 1.0E-01	0	0	0.00E+00	0.00E+00
1.0E-01 TO 3.0E-02	0	0	0.00E+00	0.00E+00
3.0E-02 TO 1.0E-02	0	0	0.00E+00	0.00E+00
1.0E-02 TO 3.0E-03	0	0	0.00E+00	0.00E+00
3.0E-03 TO 1.0E-03	0	0	0.00E+00	0.00E+00
1.0E-03 TO 3.0E-04	0	0	0.00E+00	0.00E+00
3.0E-04 TO 1.0E-04	0	0	0.00E+00	0.00E+00
1.0E-04 TO 3.0E-05	0	0	0.00E+00	0.00E+00
3.0E-05 TO 1.0E-05	0	0	0.00E+00	0.00E+00
1.0E-05 TO 3.0E-06	0	0	0.00E+00	0.00E+00
3.0E-06 TO 1.0E-06	0	0	0.00E+00	0.00E+00
1.0E-06 TO 3.0E-07	0	0	0.00E+00	0.00E+00
3.0E-07 TO 1.0E-07	371	371	7.30E-07	7.30E-07
LESS THAN 1.0E-07	7893444	7893815	1.12E-04	1.13E-04

SAMPLE.OUT
(Continued)

Sample CAP-88 Output Files
(continued)

DATE THR 7 September, 1989 12:05:43 PM
MAIN OPTIONS:
CONCEN AND DOSEN OPTION(1)=0
CIRCULAR GRID OPTION(2)=1
CONCEN OPTIONS:
SECTOR-AVERAGED OPTION(3)=0
MOMENTUM-TYPE PLUME OPTION(4)=1
FIXED DEPOSITION VELOCITY OPTION(5)=0
NO PUNCH, CONCEN OPTION(6)=0
POINT SOURCE OPTION(7)=0
NO PRINT CONCEN MAIN TABLE OPTION(8)=1
NO PRINT CONCEN CHI/Q TABLES OPTION(9)=1
DOSEN OPTIONS:
POPULATION ASSESSMENT LIPO=1
NO PRINT DOSEN TABLES NNTB=0
NO PUNCH DOSES NRTB=0
NO PRINT DOSE SUMMARY NTTB=0
DARTAB FILE ONLY NSTB=2
NO RN-222 WORKING LEVELS NUTB=0
READ ORGAN NAMES NVTB=1
BUILDUP TIME IN SOIL TSUBB= 100.0 YEARS
T=3.6524E+04 DAYS

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
GRID DATA:
BOUNDS OF DIRECTION-INDICES NOL= 1 NOU=16
BOUNDS OF DISTANCE-INDICES NRL= 1 NRU=13
SQSD=7000.0 (M), COMPUTED FROM IDIST(13)=70000 (M)
IDIST, THE ARRAY OF RADIAL DISTANCES (M)
250
750
1500
2500
3500
4500
7500
15000
25000
35000
45000
55000
70000

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
NUMBER OF SOURCES NUMST=1
NUMBER OF NUCLIDES NNUCS=14
SOURCE #: 1

HEIGHT	PH=	61.0
DIAMETER	DIA=	0.00
EXIT VELOCITY	VEL=	0.
HEAT RELEASE RATE	QH=	0.
NUCLIDE RELEASE RATE, REL (CI/YR)		

1 AR-41	1.460
2 C-11	90.00
3 CS-134	2.0400E-07
4 CS-137	4.9500E-07
5 BA-137M	0.0000E+00
6 H-3	50.30
7 I-129	1.6100E-05
8 I-131	1.5200E-06
9 KR-85	1.700
10 NB-95	1.5500E-08
11 PU-239	5.6100E-09
12 RN-220	6980.
13 SB-125	3.3800E-05
14 ZR-95	7.5000E-09

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

INDEX	DATE	THR	7 September, 1989	12:05:43 PM		
	NAME	ISOL	LAMSUR	UPTAKE	AMAD	
		CLASS	1/D	F1ING	MICRONS	
1	AR-41	*	5.48E-05	0.00	0.00	
2	C-11	D	5.48E-05	0.95	1.00	
3	CS-134	D	5.48E-05	0.95	1.00	
4	CS-137	D	5.48E-05	0.95	1.00	
5	BA-137M	D	5.48E-05	0.10	1.00	
6	H-3	*	5.48E-05	0.95	0.00	
7	I-129	D	5.48E-05	0.95	1.00	
8	I-131	D	5.48E-05	0.95	1.00	
9	KR-85	*	5.48E-05	0.00	0.00	
10	NB-95	Y	5.48E-05	0.01	1.00	
11	PU-239	Y	5.48E-05	0.00	1.00	
12	RN-220	*	5.48E-05	0.00	0.00	
13	SB-125	W	5.48E-05	0.10	1.00	
14	ZR-95	W	5.48E-05	0.00	1.00	

INDEX	NAME	SC	VD	VG	ANLAM
		1/S	M/S	M/S	1/D
1	AR-41	0.00E+00	0.00E+00	0.00E+00	9.10E+00
2	C-11	0.00E+00	0.00E+00	3.55E-05	4.87E+01
3	CS-134	1.00E-06	1.80E-03	3.55E-05	9.20E-04
4	CS-137	1.00E-06	1.80E-03	3.55E-05	6.29E-05
5	BA-137M	1.00E-06	1.80E-03	3.55E-05	3.91E+02
6	H-3	0.00E+00	0.00E+00	0.00E+00	1.55E-04
7	I-129	1.00E-06	3.50E-02	3.55E-05	1.21E-10
8	I-131	1.00E-06	3.50E-02	3.55E-05	8.62E-02
9	KR-85	0.00E+00	0.00E+00	0.00E+00	1.77E-04
10	NB-95	1.00E-06	1.80E-03	3.55E-05	1.98E-02
11	PU-239	1.00E-06	1.80E-03	3.55E-05	7.86E-08
12	RN-220	0.00E+00	0.00E+00	0.00E+00	1.08E+03
13	SB-125	1.00E-06	1.80E-03	3.55E-05	6.85E-04
14	ZR-95	1.00E-06	1.80E-03	3.55E-05	1.08E-02

***NOTE: VG SET TO ZERO FOR AIRDOS UNLESS GREATER THAN 1.000E-02
 ***NOTE: ANLAM SET TO ZERO FOR AIRDOS UNLESS GREATER THAN 1.000E-02

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR EACH STABILITY CLASS

UDCAT, HARMONIC	A	B	C	D	E	F	G	PERD WIN D. FREQ.
N	0.000	2.039	3.262	4.930	4.630	3.404	1.528	0.180
NNW	0.950	1.917	3.616	4.221	4.442	3.342	1.567	0.037
NW	0.000	1.644	3.025	4.428	3.671	3.314	1.346	0.049
WNW	0.000	3.349	2.988	3.558	2.911	2.811	1.467	0.028
W	0.000	2.015	3.259	3.984	3.453	3.062	1.380	0.065
WSW	0.000	2.549	3.353	4.251	3.452	3.104	1.464	0.051
SW	0.000	2.132	4.196	4.938	3.512	3.335	1.359	0.051
SSW	0.950	1.902	4.632	4.017	3.790	3.756	1.421	0.033
S	0.000	1.749	3.242	4.391	3.777	3.288	1.546	0.067
SSE	0.000	2.001	2.808	4.146	4.251	3.123	1.267	0.036
SE	0.000	1.731	3.105	4.651	3.977	3.435	1.442	0.057
ESE	0.000	1.811	2.842	3.924	3.160	3.643	1.436	0.048
E	0.950	1.712	2.964	4.140	3.028	3.756	1.328	0.075
ENE	0.000	1.819	3.391	5.392	3.996	3.490	1.478	0.058
NE	0.851	2.203	3.322	4.638	3.687	3.392	1.346	0.077
NNE	0.950	1.897	3.168	4.448	3.646	3.231	1.494	0.086

UDAV, ARITHMETIC AVERAGE WIND SPEEDS (WIND TOWARDS)	A	B	C	D	E	F	G
N	0.000	3.017	4.201	5.967	5.750	3.641	2.045
NNW	1.255	2.478	4.279	5.271	5.490	3.579	2.077
NW	0.000	2.706	3.688	5.164	4.937	3.551	1.869
WNW	0.000	3.942	3.591	4.316	4.291	2.943	1.991
W	0.000	2.987	3.881	4.733	4.569	3.271	1.906
WSW	0.000	3.542	4.082	5.272	4.697	3.321	1.988
SW	0.000	3.005	4.677	5.557	5.052	3.572	1.883
SSW	1.255	2.771	5.068	5.352	5.464	3.950	1.947
S	0.000	2.636	4.208	5.423	5.212	3.525	2.060
SSE	0.000	2.631	3.926	5.122	5.511	3.344	1.778
SE	0.000	2.673	3.896	5.613	5.170	3.670	1.967
ESE	0.000	2.735	3.696	5.135	4.762	3.858	1.961
E	1.255	2.669	3.855	5.207	4.666	3.950	1.850
ENE	0.000	2.844	4.370	6.382	5.451	3.722	2.001
NE	1.010	3.036	4.245	5.627	5.244	3.629	1.869
NNE	1.255	2.788	4.015	5.584	4.861	3.464	2.015

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR EACH STABILITY CLASS

	A	B	C	D	E	F	G
FRAW, FREQUENCIES OF STABILITY CLASSES (WIND TOWARDS)							
N	0.00E+00	3.05E-02	9.30E-02	2.85E-01	2.60E-01	1.49E-01	1.83E-01
NNW	1.11E-02	2.59E-02	1.17E-01	2.21E-01	3.63E-01	1.05E-01	1.57E-01
NW	0.00E+00	6.00E-02	7.03E-02	2.11E-01	4.20E-01	1.32E-01	1.06E-01
WNW	0.00E+00	2.54E-02	7.33E-02	1.99E-01	3.70E-01	1.39E-01	1.93E-01
W	0.00E+00	4.14E-02	1.07E-01	2.72E-01	3.59E-01	1.18E-01	1.03E-01
WSW	0.00E+00	4.08E-02	1.48E-01	3.07E-01	3.14E-01	1.08E-01	8.28E-02
SW	0.00E+00	5.05E-02	8.14E-02	3.25E-01	4.29E-01	6.03E-02	5.42E-02
SSW	1.23E-02	4.36E-02	8.97E-02	3.43E-01	3.15E-01	1.17E-01	7.89E-02
S	0.00E+00	2.94E-02	7.25E-02	3.45E-01	3.88E-01	8.97E-02	7.56E-02
SSE	0.00E+00	3.40E-02	8.88E-02	2.70E-01	4.11E-01	1.11E-01	8.52E-02
SE	0.00E+00	4.33E-02	9.17E-02	3.06E-01	2.92E-01	1.17E-01	1.50E-01
ESE	0.00E+00	4.35E-02	1.09E-01	2.70E-01	2.16E-01	1.49E-01	2.11E-01
E	5.48E-03	4.21E-02	8.99E-02	2.56E-01	2.24E-01	1.76E-01	2.07E-01
ENE	0.00E+00	4.44E-02	1.48E-01	2.80E-01	2.31E-01	1.41E-01	1.55E-01
NE	1.08E-02	5.22E-02	1.60E-01	2.75E-01	2.11E-01	1.37E-01	1.54E-01
NNE	4.76E-03	3.19E-02	1.42E-01	2.27E-01	2.13E-01	1.39E-01	2.42E-01
TOT	2.47E-03	3.92E-02	1.07E-01	2.77E-01	2.96E-01	1.29E-01	1.50E-01

HEIGHT OF LID

LIDAI= 700 (M)

RAINFALL RATE

RR= 80.0 (CM/Y)

AVERAGE AIR TEMPERATURE

TA= 10.0 (DEG C) 283.2 (K)

SURFACE ROUGHNESS LENGTH

Z0= 0.010 (M)

HEIGHT OF WIND MEASUREMENTS

Z= 10.0 (M)

AVERAGE WIND SPEED

UBAR= 4.36 (M/S)

VERTICAL TEMPERATURE GRADIENTS: (TG) (K/M)

STABILITY E 0.073

STABILITY F 0.109

STABILITY G 0.146

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Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

Sample CAP-88 Output Files
(continued)

DATE THR 7 September, 1989 12:05:43 PM
STAR INPUT, WIND FREQUENCIES (WIND FROM)

CLASS: A

N	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNE	3.000E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
E	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	3.000E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	3.000E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	7.200E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	3.000E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CLASS: B

N	5.000E-04	9.100E-04	5.700E-04	0.000E+00	0.000E+00	0.000E+00
NNE	3.000E-04	6.900E-04	4.600E-04	0.000E+00	0.000E+00	0.000E+00
NE	4.100E-04	1.140E-03	1.030E-03	0.000E+00	0.000E+00	0.000E+00
ENE	2.500E-04	4.600E-04	1.370E-03	0.000E+00	0.000E+00	0.000E+00
E	5.200E-04	1.030E-03	1.140E-03	0.000E+00	0.000E+00	0.000E+00
ESE	3.000E-05	1.100E-04	5.700E-04	0.000E+00	0.000E+00	0.000E+00
SE	9.200E-04	9.100E-04	1.140E-03	0.000E+00	0.000E+00	0.000E+00
SSE	1.600E-04	6.900E-04	1.100E-04	0.000E+00	0.000E+00	0.000E+00
S	1.040E-03	2.060E-03	2.400E-03	0.000E+00	0.000E+00	0.000E+00
SSW	5.800E-04	1.260E-03	9.100E-04	0.000E+00	0.000E+00	0.000E+00
SW	5.700E-04	1.830E-03	1.600E-03	0.000E+00	0.000E+00	0.000E+00
WSW	6.400E-04	9.100E-04	1.030E-03	0.000E+00	0.000E+00	0.000E+00
W	8.600E-04	1.260E-03	1.030E-03	0.000E+00	0.000E+00	0.000E+00
WNW	5.000E-04	9.100E-04	6.900E-04	0.000E+00	0.000E+00	0.000E+00
NW	6.600E-04	1.030E-03	8.000E-04	0.000E+00	0.000E+00	0.000E+00
NNW	1.900E-04	8.000E-04	2.300E-04	0.000E+00	0.000E+00	0.000E+00

CLASS: C

N	2.200E-04	1.480E-03	2.280E-03	8.000E-04	1.100E-04	0.000E+00
NNE	2.000E-05	1.100E-04	1.940E-03	9.100E-04	0.000E+00	0.000E+00
NE	5.000E-05	3.400E-04	2.970E-03	8.000E-04	0.000E+00	0.000E+00
ENE	3.300E-04	1.370E-03	5.250E-03	5.700E-04	0.000E+00	0.000E+00
E	3.200E-04	1.260E-03	5.370E-03	0.000E+00	0.000E+00	0.000E+00
ESE	1.000E-04	6.900E-04	1.260E-03	0.000E+00	0.000E+00	0.000E+00
SE	1.700E-04	1.140E-03	2.060E-03	1.100E-04	0.000E+00	0.000E+00
SSE	1.200E-04	8.000E-04	2.850E-03	5.700E-04	0.000E+00	0.000E+00
S	9.000E-04	3.430E-03	1.016E-02	2.060E-03	2.300E-04	0.000E+00
SSW	6.200E-04	3.310E-03	6.850E-03	1.480E-03	0.000E+00	0.000E+00
SW	6.200E-04	2.400E-03	7.420E-03	1.710E-03	1.100E-04	0.000E+00
WSW	4.000E-04	1.830E-03	4.680E-03	1.600E-03	1.100E-04	0.000E+00
W	4.300E-04	2.060E-03	3.540E-03	6.900E-04	0.000E+00	0.000E+00
WNW	3.800E-04	1.710E-03	2.850E-03	3.400E-04	0.000E+00	0.000E+00
NW	2.500E-04	1.710E-03	2.740E-03	5.700E-04	0.000E+00	0.000E+00
NNW	3.300E-04	4.600E-04	2.170E-03	2.300E-04	0.000E+00	0.000E+00

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
STAR INPUT, WIND FREQUENCIES (WIND FROM)

CLASS: D

N	2.100E-04	4.340E-03	9.020E-03	6.850E-03	2.850E-03	0.000E+00
NNE	3.400E-04	2.170E-03	3.770E-03	4.110E-03	9.100E-04	1.100E-04
NE	6.000E-05	1.260E-03	7.310E-03	7.420E-03	5.700E-04	0.000E+00
ENE	3.400E-04	2.060E-03	6.620E-03	5.940E-03	6.900E-04	0.000E+00
E	1.800E-04	3.770E-03	9.480E-03	3.200E-03	1.030E-03	0.000E+00
ESE	9.000E-05	1.830E-03	2.630E-03	8.000E-04	2.300E-04	0.000E+00
SE	8.000E-05	1.600E-03	4.450E-03	4.220E-03	1.100E-04	0.000E+00
SSE	9.000E-05	1.940E-03	2.400E-03	3.310E-03	3.400E-04	1.100E-04
S	4.100E-04	6.050E-03	1.587E-02	2.284E-02	5.140E-03	1.030E-03
SSW	2.800E-04	3.310E-03	6.280E-03	7.760E-03	1.830E-03	1.100E-04
SW	1.700E-04	3.430E-03	6.390E-03	9.480E-03	1.480E-03	1.100E-04
WSW	7.000E-05	1.480E-03	4.220E-03	7.540E-03	2.850E-03	1.100E-04
W	4.000E-04	3.310E-03	7.540E-03	6.850E-03	9.100E-04	1.100E-04
WNW	4.600E-04	2.060E-03	5.020E-03	5.140E-03	2.300E-04	1.100E-04
NW	1.400E-04	2.850E-03	5.140E-03	8.450E-03	9.100E-04	1.100E-04
NNW	1.000E-04	2.170E-03	3.880E-03	2.850E-03	4.600E-04	2.300E-04

CLASS: E

N	1.290E-03	3.650E-03	9.930E-03	9.930E-03	1.260E-03	1.100E-04
NNE	6.500E-04	8.000E-04	4.110E-03	4.000E-03	9.100E-04	0.000E+00
NE	1.470E-03	2.740E-03	8.910E-03	7.990E-03	6.900E-04	1.100E-04
ENE	9.500E-04	2.400E-03	7.760E-03	4.800E-03	1.100E-04	0.000E+00
E	1.210E-03	3.880E-03	1.279E-02	4.910E-03	4.600E-04	1.100E-04
ESE	1.000E-03	2.060E-03	4.910E-03	2.280E-03	1.100E-04	0.000E+00
SE	9.400E-04	3.430E-03	9.360E-03	6.050E-03	9.100E-04	1.100E-04
SSE	2.800E-04	1.030E-03	6.740E-03	4.110E-03	1.030E-03	2.300E-04
S	1.120E-03	2.510E-03	1.930E-02	2.032E-02	3.080E-03	5.700E-04
SSW	8.900E-04	2.740E-03	8.340E-03	6.170E-03	2.300E-04	0.000E+00
SW	9.700E-04	1.940E-03	5.820E-03	6.740E-03	6.900E-04	0.000E+00
WSW	6.300E-04	1.260E-03	5.020E-03	5.710E-03	8.000E-04	0.000E+00
W	1.700E-03	2.510E-03	6.510E-03	6.050E-03	0.000E+00	0.000E+00
WNW	9.600E-04	1.370E-03	4.220E-03	3.880E-03	0.000E+00	0.000E+00
NW	6.400E-04	1.830E-03	7.540E-03	6.170E-03	5.700E-04	0.000E+00
NNW	4.900E-04	1.260E-03	6.170E-03	5.710E-03	1.140E-03	0.000E+00

CLASS: F

N	0.000E+00	2.850E-03	3.200E-03	0.000E+00	0.000E+00	0.000E+00
NNE	0.000E+00	9.100E-04	2.970E-03	0.000E+00	0.000E+00	0.000E+00
NE	0.000E+00	1.370E-03	1.710E-03	0.000E+00	0.000E+00	0.000E+00
ENE	0.000E+00	3.200E-03	2.280E-03	0.000E+00	0.000E+00	0.000E+00
E	0.000E+00	4.680E-03	2.970E-03	0.000E+00	0.000E+00	0.000E+00
ESE	0.000E+00	3.080E-03	8.000E-04	0.000E+00	0.000E+00	0.000E+00
SE	0.000E+00	2.970E-03	3.540E-03	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	1.710E-03	2.170E-03	0.000E+00	0.000E+00	0.000E+00
S	0.000E+00	1.096E-02	1.599E-02	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	6.050E-03	5.940E-03	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	4.340E-03	6.170E-03	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	2.970E-03	5.250E-03	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	3.080E-03	1.005E-02	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	2.060E-03	5.140E-03	0.000E+00	0.000E+00	0.000E+00
NW	0.000E+00	2.630E-03	4.110E-03	0.000E+00	0.000E+00	0.000E+00
NNW	0.000E+00	2.280E-03	1.710E-03	0.000E+00	0.000E+00	0.000E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

Sample CAP-88 Output Files
(continued)

DATE THR 7 September, 1989 12:05:43 PM
STAR INPUT, WIND FREQUENCIES (WIND FROM)
CLASS: G
N 1.450E-03 3.650E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NNE 9.100E-04 1.710E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NE 1.060E-03 1.710E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ENE 1.370E-03 2.850E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
E 2.480E-03 4.220E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ESE 1.740E-03 3.650E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 2.050E-03 3.200E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SSE 1.600E-03 4.220E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
S 9.640E-03 2.329E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SSW 6.450E-03 1.439E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SW 4.610E-03 7.190E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
WSW 2.870E-03 6.170E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
W 6.200E-03 9.250E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
WNW 3.460E-03 6.740E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NW 2.890E-03 5.710E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NNW 1.350E-03 1.710E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
I,F INGROWTH FACTORS

INDEX	NUCLIDE NAME	I	PARENT NAME	F
5	BA-137M	4	CS-137	3.2090E+06

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM							
NOBCT, NUMBER OF BEEF CATTLE							
	250	750	1500	2500	3500	4500	7500
N	0	5	20	33	46	59	490
NNW	0	5	20	33	46	59	490
NW	0	5	20	33	46	59	490
WNW	0	5	20	33	46	59	490
W	0	5	20	33	46	59	490
WSW	0	5	20	33	46	59	490
SW	0	5	20	33	46	59	490
SSW	0	5	20	33	46	59	490
S	0	5	20	33	46	59	490
SSE	0	5	20	33	46	59	490
SE	0	5	20	33	46	59	490
ESE	0	5	20	33	46	59	490
E	0	5	20	33	46	59	490
ENE	0	5	20	33	46	59	490
NE	0	5	20	33	46	59	490
NNE	0	5	20	33	46	59	490
	15000	25000	35000	45000	55000	70000	
N	1962	3269	4577	5885	7192	18308	
NNW	1962	3269	4577	5885	7192	18308	
NW	1962	3269	4577	5885	7192	18308	
WNW	1962	3269	4577	5885	7192	18308	
W	1962	3269	4577	5885	7192	18308	
WSW	1962	3269	4577	5885	7192	18308	
SW	1962	3269	4577	5885	7192	18308	
SSW	1962	3269	4577	5885	7192	18308	
S	1962	3269	4577	5885	7192	18308	
SSE	1962	3269	4577	5885	7192	18308	
SE	1962	3269	4577	5885	7192	18308	
ESE	1962	3269	4577	5885	7192	18308	
E	1962	3269	4577	5885	7192	18308	
ENE	1962	3269	4577	5885	7192	18308	
NE	1962	3269	4577	5885	7192	18308	
NNE	1962	3269	4577	5885	7192	18308	

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 NOMCT, NUMBER OF MILK CATTLE

	250	750	1500	2500	3500	4500	7500
N	0	0	1	2	3	4	32
NNW	0	0	1	2	3	4	32
NW	0	0	1	2	3	4	32
WNW	0	0	1	2	3	4	32
W	0	0	1	2	3	4	32
WSW	0	0	1	2	3	4	32
SW	0	0	1	2	3	4	32
SSW	0	0	1	2	3	4	32
S	0	0	1	2	3	4	32
SSE	0	0	1	2	3	4	32
SE	0	0	1	2	3	4	32
ESE	0	0	1	2	3	4	32
E	0	0	1	2	3	4	32
ENE	0	0	1	2	3	4	32
NE	0	0	1	2	3	4	32
NNE	0	0	1	2	3	4	32
	15000	25000	35000	45000	55000	70000	
N	127	212	297	382	467	1188	
NNW	127	212	297	382	467	1188	
NW	127	212	297	382	467	1188	
WNW	127	212	297	382	467	1188	
W	127	212	297	382	467	1188	
WSW	127	212	297	382	467	1188	
SW	127	212	297	382	467	1188	
SSW	127	212	297	382	467	1188	
S	127	212	297	382	467	1188	
SSE	127	212	297	382	467	1188	
SE	127	212	297	382	467	1188	
ESE	127	212	297	382	467	1188	
E	127	212	297	382	467	1188	
ENE	127	212	297	382	467	1188	
NE	127	212	297	382	467	1188	
NNE	127	212	297	382	467	1188	

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Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INTFC, AREA OF VEGETABLE CROP PRODUCTION (M**2)

	250	750	1500	2500	3500	4500	7500
N	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
NNW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
NW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
WNW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
W	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
WSW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
SW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
SSW	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
S	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
SSE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
SE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
ESE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
E	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
ENE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
NE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
NNE	0.00E+00	4.12E+03	1.65E+04	2.75E+04	3.85E+04	4.95E+04	4.12E+05
	15000	25000	35000	45000	55000	70000	
N	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
NNW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
NW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
WNW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
W	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
WSW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
SW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
SSW	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
S	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
SSE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
SE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
ESE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
E	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
ENE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
NE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	
NNE	1.65E+06	2.75E+06	3.85E+06	4.95E+06	6.05E+06	1.54E+07	

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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	INTPA, POPULATION						
	250	750	1500	2500	3500	4500	7500
N	0	0	0	2070	514	3434	25640
NNW	0	0	0	0	3283	4172	17450
NW	0	0	0	0	0	1925	16327
WNW	0	0	0	421	0	0	15766
W	0	0	0	0	0	3832	10282
WSW	0	0	0	0	757	0	18479
SW	0	0	0	0	0	583	699
SSW	0	371	0	0	0	754	3388
S	0	0	0	0	0	0	11255
SSE	0	0	0	0	0	0	1524
SE	0	0	0	0	0	0	1400
ESE	0	0	0	0	0	9	543
E	0	0	0	2877	0	626	0
ENE	0	0	0	0	549	807	7362
NE	0	0	0	899	1493	1477	6039
NNE	0	0	0	1245	4758	3299	18169
	15000	25000	35000	45000	55000	70000	
N	79915	108628	137641	198337	58920	239266	
NNW	76995	81605	153849	53208	59104	111910	
NW	31050	38804	39953	63051	4973	21218	
WNW	40030	32245	29235	4906	2527	52311	
W	15628	64259	34322	5686	9600	6945	
WSW	3255	3927	1759	1552	2745	5894	
SW	14087	25526	3013	2211	11628	13569	
SSW	25583	92779	6919	6218	14385	9580	
S	3057	17399	3386	1227	3539	69888	
SSE	1560	20196	2956	3162	6812	21119	
SE	38264	55616	129090	26537	13264	28396	
ESE	42042	148331	186756	195779	202379	109332	
E	110559	390640	316868	23367	0	27418	
ENE	85258	426648	343806	0	0	0	
NE	104299	548998	884496	132440	0	0	
NNE	72950	210212	312502	221810	53208	3020	

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
OPTIONS SELECTED FOR DOSE AND INTAKE CALCULATIONS
CALCULATIONS ARE MADE FOR THE POPULATION.
TABLES FOR EACH NUCLIDE LISTING DOSES BY ORGAN AND PATHWAY
AT EACH ENVIRONMENTAL LOCATION ARE OMITTED.
ORGAN NAMES ARE INPUT.

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
VALUES FOR RADIONUCLIDE-INDEPENDENT VARIABLES

NUMBER OF NUCLIDES CONSIDERED	14
TIME DELAY--INGESTION OF PASTURE GRASS BY ANIMALS (HR)	0.00E+00
TIME DELAY--INGESTION OF STORED FEED BY ANIMALS (HR)	0.22E+04
TIME DELAY--INGESTION OF LEAFY VEGETABLES BY MAN (HR)	0.34E+03
TIME DELAY--INGESTION OF PRODUCE BY MAN (HR)	0.34E+03
REMOVAL RATE CONSTANT FOR PHYSICAL LOSS BY WEATHERING (PER HOUR)	0.29E-02
PERIOD OF EXPOSURE DURING GROWING SEASON--PASTURE GRASS (HR)	0.72E+03
PERIOD OF EXPOSURE DURING GROWING SEASON--CROPS OR LEAFY VEGETABLES (HR)	0.14E+04
AGRICULTURAL PRODUCTIVITY BY UNIT AREA (GRASS-COW-MILK-MAN PATHWAY (KG/SQ. METER))	0.28E+00
AGRICULTURAL PRODUCTIVITY BY UNIT AREA (PRODUCE OR LEAFY VEG INGESTED BY MAN (KG/SQ METER))	0.72E+00
FRACTION OF YEAR ANIMALS GRAZE ON PASTURE	0.40E+00
FRACTION OF DAILY FEED THAT IS PASTURE GRASS WHEN ANIMAL GRAZES ON PASTURE	0.43E+00
CONSUMPTION RATE OF CONTAMINATED FEED OR FORAGE BY AN ANIMAL IN KG/DAY (DRY WEIGHT)	0.16E+02
TRANSPORT TIME FROM ANIMAL FEED-MILK-MAN (DAY)	0.20E+01
RATE OF INGESTION OF PRODUCE BY MAN (KG/YR)	0.18E+03
RATE OF INGESTION OF MILK BY MAN (LITERS/YR)	0.11E+03
RATE OF INGESTION OF MEAT BY MAN (KG/YR)	0.85E+02
RATE OF INGESTION OF LEAFY VEGETABLES BY MAN (KG/YR)	0.18E+02
AVERAGE TIME FROM SLAUGHTER OF MEAT ANIMAL TO CONSUMPTION (DAY)	0.20E+02
FRACTION OF PRODUCE INGESTED GROWN IN GARDEN OF INTEREST	0.10E+01
FRACTION OF LEAFY VEGETABLES GROWN IN GARDEN OF INTEREST	0.10E+01
PERIOD OF LONG-TERM BUILDUP FOR ACTIVITY IN SOIL (YEARS)	0.10E+03
EFFECTIVE SURFACE DENSITY OF SOILKG/SQ. M, DRY WEIGHT. (ASSUMES 15 CM PLOW LAYER)	0.22E+03
VEGETABLE INGESTION RATIO-IMMEDIATE SURROUNDING AREA/TOTAL WITHIN AREA	0.76E-01
MEAT INGESTION RATIO-IMMEDIATE SURROUNDING AREA/TOTAL WITHIN AREA	0.80E-02
MILK INGESTION RATIO-IMMEDIATE SURROUNDING AREA/TOTAL WITHIN AREA	0.00E+00
ACTUAL FRACTIONS OF FOOD TYPES FROM OUTSIDE AREA CAN BE GREATER THAN THE MINIMUM FRACTIONS LISTED BELOW	
MINIMUM FRACTION VEGETABLES INGESTED FROM OUTSIDE AREA	0.00E+00
MINIMUM FRACTION MEAT INGESTED FROM OUTSIDE AREA	0.00E+00
MINIMUM FRACTION MILK INGESTED FROM OUTSIDE AREA	0.00E+00
INHALATION RATE OF MAN (CUBIC CENTIMETERS/HR)	0.92E+06
BUILDUP TIME FOR RADIONUCLIDES DEPOSITED ON GROUND AND WATER (DAYS)	0.37E+05
DILUTION FACTOR FOR WATER FOR SWIMMING (CM)	0.10E+01
FRACTION OF TIME SPENT SWIMMING	0.00E+00
MUSCLE MASS OF ANIMAL AT SLAUGHTER (KG)	0.20E+03
FRACTION OF ANIMAL HERD SLAUGHTERED PER DAY	0.38E-02
MILK PRODUCTION OF COW (LITERS/DAY)	0.11E+02
FALLOUT INTERCEPTION FRACTION-VEGETABLES	0.20E+00
FALLOUT INTERCEPTION FRACTION-PASTURE	0.57E+00
FRACTION OF RADIOACTIVITY RETAINED ON LEAFY VEGETABLES AND PRODUCE AFTER WASHING	0.50E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM	
COMPUTED VALUES FOR THE AREA	
TOTAL POPULATION	7893815.0
TOTAL NUMBER OF MEAT ANIMALS	669536
TOTAL NUMBER OF MILK CATTLE	43440
TOTAL AREA OF VEGETABLE FOOD CROPS (SQUARE METERS)	0.56E+09
TOTAL MEAT CONSUMPTION (KG PER YEAR)	0.67E+09
TOTAL MEAT PRODUCTION (KG PER YEAR)	0.19E+09
TOTAL MILK CONSUMPTION (LITERS/YEAR)	0.88E+09
TOTAL MILK PRODUCTION (LITERS/YEAR)	0.17E+09
TOTAL VEGETABLE FOOD CONSUMPTION (KG PER YEAR)	0.15E+10
TOTAL VEGETABLE FOOD PRODUCED (KG PER YEAR)	0.40E+09

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE AR-41 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.91E+01
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.00E+00
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.00E+00
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.00E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.00E+00
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.00E+00
 GI UPTAKE FRACTION (INGESTION) 0.00E+00
 PARTICLE SIZE (MICRONS) 0.00E+00
 SOLUBILITY CLASS *

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE C-11 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.49E+02
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.00E+00
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.00E+00
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.00E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.00E+00
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.95E+00
 GI UPTAKE FRACTION (INGESTION) 0.95E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS D

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE CS-134 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.92E-03
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.70E-02
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.20E-01
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.80E-01
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.13E-01
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.95E+00
 GI UPTAKE FRACTION (INGESTION) 0.95E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS D

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE CS-137 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.63E-04
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.70E-02
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.20E-01
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.80E-01
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.13E-01
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.95E+00
 GI UPTAKE FRACTION (INGESTION) 0.95E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS D

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE BA-137M *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.39E+03
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.35E-03
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.15E-03
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.15E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.64E-02
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.10E+00
 GI UPTAKE FRACTION (INGESTION) 0.10E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS
 D
 CONCENTRATIONS ON GROUND AND WATER INCLUDE CONTRIBUT IONS RESULTING FROM
 DECAY OF THE FOLLOWING PARENT NUCLIDES AFTER DEPOSITION--
 NUCLIDE BUILD UP FACTOR
 CS-137 0.321E+07

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
*LIST OF INPUT DATA FOR NUCLIDE H-3 *

RADIOACTIVE DECAY CONSTANT (PER DAY)	0.15E-03
ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY)	0.55E-04
ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY)	0.00E+00
DOSE CONVERSION FACTOR FOR FOOD INGESTION (REM-CC/ PCI-YEAR)	0.62E+01
DOSE CONVERSION FACTOR FOR WATER INGESTION (REM-CC /PCI-YEAR)	0.57E-01

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE I-129 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.12E-09
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.10E-01
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.70E-02
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.15E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.21E-01
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.95E+00
 GI UPTAKE FRACTION (INGESTION) 0.95E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS D

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE I-131 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.86E-01
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.10E-01
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.70E-02
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.15E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.21E-01
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.95E+00
 GI UPTAKE FRACTION (INGESTION) 0.95E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS D

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE KR-85 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.18E-03
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.00E+00
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.00E+00
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.00E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.00E+00
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.00E+00
 GI UPTAKE FRACTION (INGESTION) 0.00E+00
 PARTICLE SIZE (MICRONS) 0.00E+00
 SOLUBILITY CLASS *

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE NB-95 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.20E-01
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.20E-01
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.25E+00
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.20E-01
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.21E-02
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.10E-01
 GI UPTAKE FRACTION (INGESTION) 0.10E-01
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS Y

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM	
*LIST OF INPUT DATA FOR NUCLIDE PU-239 *	
RADIOACTIVE DECAY CONSTANT (PER DAY)	0.79E-07
ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY)	0.55E-04
ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY)	0.00E+00
AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE	
WHICH APPEARS IN EACH L OF MILK (DAYS/L)	0.10E-06
FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE	
WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG)	0.50E-06
CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR	
PASTURE AND FORAGE	0.45E-03
(IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)	
CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY	
EDIBLE PARTS OF CROPS	0.19E-04
(IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)	
GI UPTAKE FRACTION (INHALATION)	0.10E-03
GI UPTAKE FRACTION (INGESTION)	0.10E-02
PARTICLE SIZE (MICRONS)	0.10E+01
SOLUBILITY CLASS	

Y

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE RN-220 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.11E+04
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.00E+00
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.00E+00
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.00E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.00E+00
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.00E+00
 GI UPTAKE FRACTION (INGESTION) 0.00E+00
 PARTICLE SIZE (MICRONS) 0.00E+00
 SOLUBILITY CLASS *

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE SB-125 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.69E-03
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.10E-03
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.10E-02
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.20E+00
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.13E-01
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.10E-01
 GI UPTAKE FRACTION (INGESTION) 0.10E+00
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS W

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
 *LIST OF INPUT DATA FOR NUCLIDE ZR-95 *
 RADIOACTIVE DECAY CONSTANT (PER DAY) 0.11E-01
 ENVIRONMENTAL DECAY CONSTANT--SURFACE (PER DAY) 0.55E-04
 ENVIRONMENTAL DECAY CONSTANT--WATER (PER DAY) 0.00E+00
 AVERAGE FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH L OF MILK (DAYS/L) 0.30E-04
 FRACTION OF ANIMAL'S DAILY INTAKE OF NUCLIDE
 WHICH APPEARS IN EACH KG OF FLESH (DAYS/KG) 0.55E-02
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL FOR
 PASTURE AND FORAGE 0.20E-02
 (IN PCI/KG DRY WEIGHT PER PCI/KG DRY SOIL)
 CONCENTRATION FACTOR FOR UPTAKE OF NUCLIDE FROM SOIL BY
 EDIBLE PARTS OF CROPS 0.21E-03
 (IN PCI/KG WET WEIGHT PER PCI/KG DRY SOIL)
 GI UPTAKE FRACTION (INHALATION) 0.20E-02
 GI UPTAKE FRACTION (INGESTION) 0.20E-02
 PARTICLE SIZE (MICRONS) 0.10E+01
 SOLUBILITY CLASS W

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : AR-41

DOSE RATE CONVERSION FACTORS

ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	0.00E+00	0.00E+00	2.95E-10	0.00E+00	7.73E+09	1.35E+06
BREAST	0.00E+00	0.00E+00	3.24E-10	0.00E+00	6.96E+09	1.21E+06
R MAR	0.00E+00	0.00E+00	3.08E-10	0.00E+00	5.96E+09	1.03E+06
LUNGS	0.00E+00	0.00E+00	3.44E-09	0.00E+00	5.88E+09	1.02E+06
THYROID	0.00E+00	0.00E+00	3.47E-10	0.00E+00	7.33E+09	1.28E+06
ENDOST	0.00E+00	0.00E+00	2.55E-10	0.00E+00	6.29E+09	1.10E+06
RMNDR	0.00E+00	0.00E+00	3.53E-10	0.00E+00	5.96E+09	1.04E+06
EFFEC	0.00E+00	0.00E+00	6.96E-10	0.00E+00	6.60E+09	1.15E+06

GENETIC EFFECT DOSE RATE CONVERSION FACTORS

TESTES	0.00E+00	0.00E+00	8.84E-09	0.00E+00	2.32E+11	4.04E+07
OVARIES	0.00E+00	0.00E+00	7.79E-09	0.00E+00	1.59E+11	2.76E+07
AVERAGE	0.00E+00	0.00E+00	8.32E-09	0.00E+00	1.95E+11	3.40E+07

RISK CONVERSION FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	0.0E+00	0.0E+00	9.8E-11	0.0E+00	1.9E+03	3.3E-01
BONE	0.0E+00	0.0E+00	4.5E-12	0.0E+00	1.1E+02	1.9E-02
THYROID	0.0E+00	0.0E+00	1.6E-11	0.0E+00	3.3E+02	5.8E-02
BREAST	0.0E+00	0.0E+00	1.3E-10	0.0E+00	2.7E+03	4.7E-01
LUNG	0.0E+00	0.0E+00	2.7E-09	0.0E+00	2.9E+03	5.1E-01
STOMACH	0.0E+00	0.0E+00	8.8E-11	0.0E+00	1.8E+03	3.1E-01
BOWEL	0.0E+00	0.0E+00	2.9E-11	0.0E+00	9.0E+02	1.6E-01
LIVER	0.0E+00	0.0E+00	1.2E-10	0.0E+00	1.9E+03	3.4E-01
PANCREAS	0.0E+00	0.0E+00	8.6E-11	0.0E+00	1.2E+03	2.1E-01
URINARY	0.0E+00	0.0E+00	4.2E-11	0.0E+00	7.4E+02	1.3E-01
OTHER	0.0E+00	0.0E+00	1.0E-10	0.0E+00	1.4E+03	2.5E-01

GENETIC EFFECT RISK CONVERSION FACTORS

AVERAGE	0.00E+00	0.00E+00	2.16E-15	0.00E+00	5.08E+04	8.85E+00
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YEARS OF LIFE LOST FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	0.0E+00	0.0E+00	1.4E-09	0.0E+00	6.0E+04	1.0E+01
BONE	0.0E+00	0.0E+00	1.3E-10	0.0E+00	3.3E+03	5.7E-01
THYROID	0.0E+00	0.0E+00	3.8E-10	0.0E+00	9.4E+03	1.6E+00
BREAST	0.0E+00	0.0E+00	1.4E-09	0.0E+00	5.9E+04	1.0E+01
LUNG	0.0E+00	0.0E+00	6.0E-08	0.0E+00	6.7E+04	1.2E+01
STOMACH	0.0E+00	0.0E+00	2.6E-09	0.0E+00	3.8E+04	6.6E+00
BOWEL	0.0E+00	0.0E+00	1.5E-09	0.0E+00	1.9E+04	3.4E+00
LIVER	0.0E+00	0.0E+00	2.1E-09	0.0E+00	4.2E+04	7.3E+00
PANCREAS	0.0E+00	0.0E+00	1.4E-09	0.0E+00	2.5E+04	4.4E+00
URINARY	0.0E+00	0.0E+00	2.5E-09	0.0E+00	1.6E+04	2.8E+00
OTHER	0.0E+00	0.0E+00	1.7E-09	0.0E+00	3.1E+04	5.4E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	0.00E+00	3.08E-10	5.96E+03	1.03E+00
BONE	0.00E+00	2.55E-10	6.29E+03	1.10E+00
THYROID	0.00E+00	3.47E-10	7.33E+03	1.28E+00
BREAST	0.00E+00	3.24E-10	6.96E+03	1.21E+00
LUNG	0.00E+00	5.49E-09	5.88E+03	1.02E+00
STOMACH	0.00E+00	2.72E-10	5.44E+03	9.47E-01
BOWEL	0.00E+00	1.81E-10	5.54E+03	9.63E-01
LIVER	0.00E+00	3.45E-10	5.55E+03	9.69E-01
PANCREAS	0.00E+00	3.51E-10	4.81E+03	8.40E-01
URINARY	0.00E+00	3.37E-10	5.88E+03	1.02E+00
OTHER	0.00E+00	3.51E-10	4.81E+03	8.40E-01
W BODY	0.00E+00	1.24E-09	5.74E+03	1.00E+00
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	0.00E+00	2.77E-10	6.51E+09	1.13E+06

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : C-11

DOSE RATE CONVERSION FACTORS							
ORGAN	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
GONADS	7.40E-09	0.00E+00	2.50E-09	0.00E+00	5.96E+09	1.23E+06	
BREAST	6.82E-09	0.00E+00	4.37E-09	0.00E+00	5.55E+09	1.14E+06	
R MAR	6.23E-09	0.00E+00	4.15E-09	0.00E+00	4.55E+09	9.40E+05	
LUNGS	7.34E-09	0.00E+00	1.88E-07	0.00E+00	4.44E+09	9.18E+05	
THYROID	3.17E-09	0.00E+00	3.86E-09	0.00E+00	5.55E+09	1.14E+06	
ENDOST	3.85E-09	0.00E+00	3.15E-09	0.00E+00	5.22E+09	1.07E+06	
RMNDR	1.68E-07	0.00E+00	1.95E-08	0.00E+00	4.45E+09	9.16E+05	
EFFEC	5.52E-08	0.00E+00	3.04E-08	0.00E+00	5.06E+09	1.04E+06	
GENETIC EFFECT DOSE RATE CONVERSION FACTORS							
TESTES	8.42E-08	0.00E+00	5.80E-08	0.00E+00	1.79E+11	3.70E+07	
OVARIES	2.22E-07	0.00E+00	7.50E-08	0.00E+00	1.20E+11	2.46E+07	
AVERAGE	1.53E-07	0.00E+00	6.65E-08	0.00E+00	1.49E+11	3.08E+07	
RISK CONVERSION FACTORS							
CANCER	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	2.0E-09	0.0E+00	1.3E-09	0.0E+00	1.4E+03	3.0E-01	
BONE	6.8E-11	0.0E+00	5.6E-11	0.0E+00	9.2E+01	1.9E-02	
THYROID	1.4E-10	0.0E+00	1.8E-10	0.0E+00	2.5E+02	5.2E-02	
BREAST	2.7E-09	0.0E+00	1.7E-09	0.0E+00	2.2E+03	4.5E-01	
LUNG	3.6E-09	0.0E+00	9.7E-08	0.0E+00	2.2E+03	4.5E-01	
STOMACH	2.2E-07	0.0E+00	2.1E-08	0.0E+00	1.3E+03	2.7E-01	
BOWEL	4.6E-09	0.0E+00	6.5E-10	0.0E+00	6.6E+02	1.4E-01	
LIVER	3.0E-09	0.0E+00	2.1E-09	0.0E+00	1.5E+03	3.0E-01	
PANCREAS	1.1E-08	0.0E+00	2.5E-09	0.0E+00	8.7E+02	1.8E-01	
URINARY	1.5E-09	0.0E+00	5.7E-10	0.0E+00	5.4E+02	1.1E-01	
OTHER	1.4E-08	0.0E+00	3.0E-09	0.0E+00	1.1E+03	2.2E-01	
GENETIC EFFECT RISK CONVERSION FACTORS							
AVERAGE	3.98E-14	0.00E+00	1.73E-14	0.00E+00	3.88E+04	8.01E+00	
YEARS OF LIFE LOST FACTORS							
CANCER	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	5.9E-08	0.0E+00	3.9E-08	0.0E+00	4.6E+04	9.4E+00	
BONE	9.4E-10	0.0E+00	8.0E-10	0.0E+00	2.7E+03	5.6E-01	
THYROID	2.8E-09	0.0E+00	3.9E-09	0.0E+00	7.1E+03	1.5E+00	
BREAST	5.6E-08	0.0E+00	3.4E-08	0.0E+00	4.7E+04	9.6E+00	
LUNG	8.1E-08	0.0E+00	2.2E-06	0.0E+00	5.1E+04	1.0E+01	
STOMACH	4.7E-06	0.0E+00	4.5E-07	0.0E+00	2.9E+04	5.9E+00	
BOWEL	9.3E-08	0.0E+00	7.0E-09	0.0E+00	1.4E+04	2.9E+00	
LIVER	5.6E-08	0.0E+00	4.5E-08	0.0E+00	3.1E+04	6.4E+00	
PANCREAS	2.4E-07	0.0E+00	4.8E-08	0.0E+00	1.9E+04	3.9E+00	
URINARY	2.9E-08	0.0E+00	5.9E-09	0.0E+00	1.2E+04	2.4E+00	
OTHER	2.9E-07	0.0E+00	5.8E-08	0.0E+00	2.3E+04	4.7E+00	

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

CANCER	RISK EQUIVALENT CONVERSION FACTORS			
	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE
LEUKEMIA	6.23E-09	4.15E-09	4.55E+03	9.40E-01
BONE	3.85E-09	3.15E-09	5.22E+03	1.07E+00
THYROID	3.17E-09	3.86E-09	5.55E+03	1.14E+00
BREAST	6.82E-09	4.37E-09	5.55E+03	1.14E+00
LUNG	7.34E-09	1.96E-07	4.44E+03	9.18E-01
STOMACH	6.71E-07	6.52E-08	4.11E+03	8.44E-01
BOWEL	2.86E-08	4.00E-09	4.06E+03	8.36E-01
LIVER	8.50E-09	6.07E-09	4.14E+03	8.55E-01
PANCREAS	4.64E-08	1.01E-08	3.57E+03	7.36E-01
URINARY	1.22E-08	4.55E-09	4.33E+03	8.92E-01
OTHER	4.64E-08	1.01E-08	3.57E+03	7.36E-01
W BODY	9.41E-08	4.70E-08	4.36E+03	8.98E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	5.10E-09	2.22E-09	4.98E+09	1.03E+06

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : CS-134

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	6.09E-05	0.00E+00	4.04E-05	0.00E+00	9.36E+09	1.85E+06
BREAST	7.13E-05	0.00E+00	4.74E-05	0.00E+00	8.51E+09	1.68E+06
R MAR	6.64E-05	0.00E+00	4.41E-05	0.00E+00	7.18E+09	1.41E+06
LUNGS	6.15E-05	0.00E+00	4.35E-05	0.00E+00	7.03E+09	1.39E+06
THYROID	8.03E-05	0.00E+00	5.34E-05	0.00E+00	8.84E+09	1.74E+06
ENDOST	4.42E-05	0.00E+00	2.94E-05	0.00E+00	7.92E+09	1.56E+06
RMNDR	7.47E-05	0.00E+00	4.97E-05	0.00E+00	7.10E+09	1.40E+06
EFFEC	6.74E-05	0.00E+00	4.51E-05	0.00E+00	7.95E+09	1.57E+06
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	1.80E-03	0.00E+00	1.20E-03	0.00E+00	2.81E+11	5.54E+07
OVARIES	1.77E-03	0.00E+00	1.17E-03	0.00E+00	1.91E+11	3.77E+07
AVERAGE	1.78E-03	0.00E+00	1.18E-03	0.00E+00	2.36E+11	4.66E+07

RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	2.1E-05	0.0E+00	1.4E-05	0.0E+00	2.3E+03	4.5E-01
BONE	7.8E-07	0.0E+00	5.2E-07	0.0E+00	1.4E+02	2.8E-02
THYROID	3.6E-06	0.0E+00	2.4E-06	0.0E+00	4.0E+02	7.9E-02
BREAST	2.8E-05	0.0E+00	1.8E-05	0.0E+00	3.3E+03	6.6E-01
LUNG	3.0E-05	0.0E+00	2.2E-05	0.0E+00	3.5E+03	6.9E-01
STOMACH	2.1E-05	0.0E+00	1.3E-05	0.0E+00	2.1E+03	4.2E-01
BOWEL	7.5E-06	0.0E+00	4.8E-06	0.0E+00	1.1E+03	2.1E-01
LIVER	2.5E-05	0.0E+00	1.6E-05	0.0E+00	2.3E+03	4.5E-01
PANCREAS	1.5E-05	0.0E+00	1.0E-05	0.0E+00	1.4E+03	2.7E-01
URINARY	9.7E-06	0.0E+00	6.4E-06	0.0E+00	8.7E+02	1.7E-01
OTHER	1.8E-05	0.0E+00	1.2E-05	0.0E+00	1.7E+03	3.3E-01
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	4.64E-10	0.00E+00	3.08E-10	0.00E+00	6.13E+04	1.21E+01

YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	6.6E-04	0.0E+00	4.4E-04	0.0E+00	7.2E+04	1.4E+01
BONE	2.3E-05	0.0E+00	1.5E-05	0.0E+00	4.1E+03	8.1E-01
THYROID	1.0E-04	0.0E+00	6.8E-05	0.0E+00	1.1E+04	2.2E+00
BREAST	6.0E-04	0.0E+00	4.0E-04	0.0E+00	7.2E+04	1.4E+01
LUNG	7.0E-04	0.0E+00	5.1E-04	0.0E+00	8.0E+04	1.6E+01
STOMACH	4.4E-04	0.0E+00	2.9E-04	0.0E+00	4.5E+04	8.9E+00
BOWEL	1.6E-04	0.0E+00	1.0E-04	0.0E+00	2.3E+04	4.5E+00
LIVER	5.3E-04	0.0E+00	3.5E-04	0.0E+00	5.0E+04	9.8E+00
PANCREAS	3.2E-04	0.0E+00	2.1E-04	0.0E+00	3.0E+04	5.9E+00
URINARY	2.1E-04	0.0E+00	1.4E-04	0.0E+00	1.9E+04	3.7E+00
OTHER	3.9E-04	0.0E+00	2.6E-04	0.0E+00	3.6E+04	7.2E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE
LEUKEMIA	6.62E-05	4.40E-05	7.18E+03	1.41E+00
BONE	4.41E-05	2.93E-05	7.92E+03	1.56E+00
THYROID	8.01E-05	5.33E-05	8.84E+03	1.74E+00
BREAST	7.09E-05	4.72E-05	8.51E+03	1.68E+00
LUNG	6.12E-05	4.45E-05	7.03E+03	1.39E+00
STOMACH	6.31E-05	4.14E-05	6.51E+03	1.28E+00
BOWEL	4.60E-05	2.99E-05	6.49E+03	1.28E+00
LIVER	7.03E-05	4.68E-05	6.59E+03	1.29E+00
PANCREAS	6.14E-05	4.08E-05	5.66E+03	1.12E+00
URINARY	7.70E-05	5.12E-05	6.92E+03	1.36E+00
OTHER	6.14E-05	4.08E-05	5.66E+03	1.12E+00
W BODY	6.46E-05	4.35E-05	6.87E+03	1.35E+00
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	5.95E-05	3.94E-05	7.86E+09	1.55E+06

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : CS-137

DOSE RATE CONVERSION FACTORS

ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	4.40E-05	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00
BREAST	4.80E-05	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00
R MAR	4.37E-05	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00
LUNGS	4.44E-05	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00
THYROID	5.08E-05	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00
ENDOST	3.05E-05	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00
RMNDR	4.95E-05	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00
EFFEC	4.61E-05	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00

GENETIC EFFECT DOSE RATE CONVERSION FACTORS

TESTES	1.30E-03	0.00E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00
OVARIES	1.29E-03	0.00E+00	8.55E-04	0.00E+00	0.00E+00	0.00E+00
AVERAGE	1.30E-03	0.00E+00	8.60E-04	0.00E+00	0.00E+00	0.00E+00

RISK CONVERSION FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	1.4E-05	0.0E+00	9.2E-06	0.0E+00	0.0E+00	0.0E+00
BONE	5.4E-07	0.0E+00	3.6E-07	0.0E+00	0.0E+00	0.0E+00
THYROID	2.3E-06	0.0E+00	1.5E-06	0.0E+00	0.0E+00	0.0E+00
BREAST	1.9E-05	0.0E+00	1.2E-05	0.0E+00	0.0E+00	0.0E+00
LUNG	2.2E-05	0.0E+00	1.7E-05	0.0E+00	0.0E+00	0.0E+00
STOMACH	1.2E-05	0.0E+00	7.5E-06	0.0E+00	0.0E+00	0.0E+00
BOWEL	4.7E-06	0.0E+00	3.0E-06	0.0E+00	0.0E+00	0.0E+00
LIVER	1.7E-05	0.0E+00	1.1E-05	0.0E+00	0.0E+00	0.0E+00
PANCREAS	1.1E-05	0.0E+00	7.2E-06	0.0E+00	0.0E+00	0.0E+00
URINARY	6.3E-06	0.0E+00	4.2E-06	0.0E+00	0.0E+00	0.0E+00
OTHER	1.3E-05	0.0E+00	8.8E-06	0.0E+00	0.0E+00	0.0E+00

GENETIC EFFECT RISK CONVERSION FACTORS

AVERAGE	3.37E-10	0.00E+00	2.24E-10	0.00E+00	0.00E+00	0.00E+00
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YEARS OF LIFE LOST FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	4.3E-04	0.0E+00	2.9E-04	0.0E+00	0.0E+00	0.0E+00
BONE	1.6E-05	0.0E+00	1.0E-05	0.0E+00	0.0E+00	0.0E+00
THYROID	6.5E-05	0.0E+00	4.3E-05	0.0E+00	0.0E+00	0.0E+00
BREAST	4.0E-04	0.0E+00	2.7E-04	0.0E+00	0.0E+00	0.0E+00
LUNG	5.0E-04	0.0E+00	3.8E-04	0.0E+00	0.0E+00	0.0E+00
STOMACH	2.5E-04	0.0E+00	1.6E-04	0.0E+00	0.0E+00	0.0E+00
BOWEL	1.0E-04	0.0E+00	6.5E-05	0.0E+00	0.0E+00	0.0E+00
LIVER	3.6E-04	0.0E+00	2.4E-04	0.0E+00	0.0E+00	0.0E+00
PANCREAS	2.3E-04	0.0E+00	1.5E-04	0.0E+00	0.0E+00	0.0E+00
URINARY	1.4E-04	0.0E+00	9.0E-05	0.0E+00	0.0E+00	0.0E+00
OTHER	2.8E-04	0.0E+00	1.9E-04	0.0E+00	0.0E+00	0.0E+00

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	4.35E-05	2.89E-05	0.00E+00	0.00E+00
BONE	3.04E-05	2.02E-05	0.00E+00	0.00E+00
THYROID	5.06E-05	3.36E-05	0.00E+00	0.00E+00
BREAST	4.77E-05	3.17E-05	0.00E+00	0.00E+00
LUNG	4.41E-05	3.38E-05	0.00E+00	0.00E+00
STOMACH	3.55E-05	2.30E-05	0.00E+00	0.00E+00
BOWEL	2.91E-05	1.86E-05	0.00E+00	0.00E+00
LIVER	4.76E-05	3.16E-05	0.00E+00	0.00E+00
PANCREAS	4.41E-05	2.93E-05	0.00E+00	0.00E+00
URINARY	5.02E-05	3.34E-05	0.00E+00	0.00E+00
OTHER	4.41E-05	2.93E-05	0.00E+00	0.00E+00
W BODY	4.34E-05	2.95E-05	0.00E+00	0.00E+00
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	4.32E-05	2.87E-05	0.00E+00	0.00E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : BA-137M

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	3.46E-10	0.00E+00	5.09E-11	0.00E+00	3.58E+09	7.14E+05
BREAST	3.74E-10	0.00E+00	2.36E-10	0.00E+00	3.26E+09	6.51E+05
R MAR	2.92E-10	0.00E+00	2.18E-10	0.00E+00	2.73E+09	5.44E+05
LUNGS	4.59E-10	0.00E+00	7.20E-09	0.00E+00	2.69E+09	5.36E+05
THYROID	4.05E-11	0.00E+00	2.20E-10	0.00E+00	3.37E+09	6.73E+05
ENDOST	1.61E-10	0.00E+00	1.65E-10	0.00E+00	3.03E+09	6.07E+05
RMNDR	7.70E-09	0.00E+00	5.84E-10	0.00E+00	2.70E+09	5.39E+05
EFFEC	2.55E-09	0.00E+00	1.13E-09	0.00E+00	3.04E+09	6.06E+05
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	7.17E-10	0.00E+00	7.21E-10	0.00E+00	1.07E+11	2.14E+07
OVARIES	1.04E-08	0.00E+00	1.53E-09	0.00E+00	7.30E+10	1.45E+07
AVERAGE	5.54E-09	0.00E+00	1.12E-09	0.00E+00	9.02E+10	1.80E+07

RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	9.3E-11	0.0E+00	6.9E-11	0.0E+00	8.7E+02	1.7E-01
BONE	2.8E-12	0.0E+00	2.9E-12	0.0E+00	5.4E+01	1.1E-02
THYROID	1.8E-12	0.0E+00	1.0E-11	0.0E+00	1.5E+02	3.1E-02
BREAST	1.5E-10	0.0E+00	9.2E-11	0.0E+00	1.3E+03	2.6E-01
LUNG	2.3E-10	0.0E+00	2.7E-09	0.0E+00	1.3E+03	2.7E-01
STOMACH	9.4E-09	0.0E+00	3.2E-10	0.0E+00	8.1E+02	1.6E-01
BOWEL	1.6E-10	0.0E+00	1.2E-11	0.0E+00	4.0E+02	8.0E-02
LIVER	1.8E-10	0.0E+00	1.4E-10	0.0E+00	8.8E+02	1.8E-01
PANCREAS	1.0E-09	0.0E+00	1.3E-10	0.0E+00	5.3E+02	1.0E-01
URINARY	1.1E-10	0.0E+00	2.5E-11	0.0E+00	3.3E+02	6.6E-02
OTHER	1.3E-09	0.0E+00	1.5E-10	0.0E+00	6.5E+02	1.3E-01
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	1.44E-15	0.00E+00	2.92E-16	0.00E+00	2.35E+04	4.68E+00

YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	1.4E-09	0.0E+00	6.8E-10	0.0E+00	2.7E+04	5.4E+00
BONE	1.3E-10	0.0E+00	1.3E-10	0.0E+00	1.6E+03	3.1E-01
THYROID	5.2E-11	0.0E+00	3.8E-10	0.0E+00	4.3E+03	8.6E-01
BREAST	1.4E-09	0.0E+00	1.1E-09	0.0E+00	2.7E+04	5.5E+00
LUNG	3.4E-09	0.0E+00	5.9E-08	0.0E+00	3.1E+04	6.1E+00
STOMACH	2.0E-07	0.0E+00	4.4E-09	0.0E+00	1.7E+04	3.5E+00
BOWEL	3.3E-09	0.0E+00	5.5E-10	0.0E+00	8.6E+03	1.7E+00
LIVER	2.1E-09	0.0E+00	2.1E-09	0.0E+00	1.9E+04	3.8E+00
PANCREAS	1.9E-08	0.0E+00	1.9E-09	0.0E+00	1.1E+04	2.3E+00
URINARY	2.5E-09	0.0E+00	8.4E-10	0.0E+00	7.1E+03	1.4E+00
OTHER	2.3E-08	0.0E+00	2.3E-09	0.0E+00	1.4E+04	2.8E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE
LEUKEMIA	2.92E-10	2.18E-10	2.73E+03	5.44E-01
BONE	1.61E-10	1.65E-10	3.03E+03	6.07E-01
THYROID	4.05E-11	2.20E-10	3.37E+03	6.73E-01
BREAST	3.74E-10	2.36E-10	3.26E+03	6.51E-01
LUNG	4.59E-10	5.40E-09	2.69E+03	5.36E-01
STOMACH	2.90E-08	9.82E-10	2.48E+03	4.96E-01
BOWEL	9.78E-10	7.49E-11	2.47E+03	4.94E-01
LIVER	5.26E-10	3.99E-10	2.51E+03	4.99E-01
PANCREAS	4.29E-09	5.18E-10	2.16E+03	4.29E-01
URINARY	8.60E-10	2.01E-10	2.63E+03	5.25E-01
OTHER	4.29E-09	5.18E-10	2.16E+03	4.29E-01
W BODY	4.57E-09	1.31E-09	2.62E+03	5.23E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.85E-10	3.75E-11	3.01E+09	5.99E+05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : H-3

DOSE RATE CONVERSION FACTORS							
ORGAN	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
GONADS	8.30E-08	0.00E+00	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BREAST	8.30E-08	0.00E+00	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
R MAR	8.26E-08	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LUNGS	8.36E-08	0.00E+00	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
THYROID	8.28E-08	0.00E+00	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ENDOST	6.56E-08	0.00E+00	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RMNDR	1.08E-07	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EFFEC	8.99E-08	0.00E+00	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GENETIC EFFECT DOSE RATE CONVERSION FACTORS							
TESTES	2.49E-06	0.00E+00	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
OVARIES	2.49E-06	0.00E+00	3.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVERAGE	2.49E-06	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

RISK CONVERSION FACTORS							
CANCER	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	2.6E-08	0.0E+00	3.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BONE	1.2E-09	0.0E+00	1.7E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00
THYROID	3.8E-09	0.0E+00	5.6E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BREAST	3.3E-08	0.0E+00	4.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LUNG	4.1E-08	0.0E+00	6.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
STOMACH	3.5E-08	0.0E+00	4.1E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BOWEL	1.9E-08	0.0E+00	2.2E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LIVER	2.9E-08	0.0E+00	4.3E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PANCREAS	2.0E-08	0.0E+00	3.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
URINARY	1.1E-08	0.0E+00	1.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
OTHER	2.4E-08	0.0E+00	3.6E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
GENETIC EFFECT RISK CONVERSION FACTORS							
AVERAGE	6.47E-13	0.00E+00	9.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00

YEARS OF LIFE LOST FACTORS							
CANCER	INGESTION		INHALATION		AIR	GROUND	
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	8.3E-07	0.0E+00	1.2E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BONE	3.3E-08	0.0E+00	5.0E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
THYROID	1.1E-07	0.0E+00	1.6E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BREAST	7.0E-07	0.0E+00	1.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LUNG	9.5E-07	0.0E+00	1.4E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00
STOMACH	7.4E-07	0.0E+00	8.7E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BOWEL	4.0E-07	0.0E+00	4.6E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LIVER	6.2E-07	0.0E+00	9.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PANCREAS	4.2E-07	0.0E+00	6.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
URINARY	2.3E-07	0.0E+00	3.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
OTHER	5.1E-07	0.0E+00	7.7E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

CANCER	INGESTION	INHALATION	RISK EQUIVALENT CONVERSION FACTORS	
			AIR IMMERSION	GROUND SURFACE
LEUKEMIA	8.26E-08	1.24E-07	0.00E+00	0.00E+00
BONE	6.56E-08	9.85E-08	0.00E+00	0.00E+00
THYROID	8.28E-08	1.24E-07	0.00E+00	0.00E+00
BREAST	8.30E-08	1.25E-07	0.00E+00	0.00E+00
LUNG	8.36E-08	1.25E-07	0.00E+00	0.00E+00
STOMACH	1.08E-07	1.25E-07	0.00E+00	0.00E+00
BOWEL	1.19E-07	1.34E-07	0.00E+00	0.00E+00
LIVER	8.28E-08	1.24E-07	0.00E+00	0.00E+00
PANCREAS	8.06E-08	1.21E-07	0.00E+00	0.00E+00
URINARY	8.56E-08	1.29E-07	0.00E+00	0.00E+00
OTHER	8.06E-08	1.21E-07	0.00E+00	0.00E+00
W BODY	8.76E-08	1.24E-07	0.00E+00	0.00E+00
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	8.29E-08	1.24E-07	0.00E+00	0.00E+00

Sample CAP-88 Output Files
(continued)

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FOR NUCLIDE : I-129

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	5.02E-07	0.00E+00	3.26E-07	0.00E+00	5.85E+07	3.09E+04
BREAST	1.20E-06	0.00E+00	7.96E-07	0.00E+00	8.88E+07	4.74E+04
R MAR	7.89E-07	0.00E+00	5.26E-07	0.00E+00	7.81E+06	4.03E+03
LUNGS	5.83E-07	0.00E+00	1.18E-06	0.00E+00	2.06E+07	1.07E+04
THYROID	8.67E-03	0.00E+00	5.76E-03	0.00E+00	4.14E+07	2.17E+04
ENDOST	6.31E-07	0.00E+00	4.21E-07	0.00E+00	3.62E+07	1.87E+04
RMNDR	7.76E-07	0.00E+00	4.36E-07	0.00E+00	2.32E+07	1.20E+04
EFFEC	2.61E-04	0.00E+00	1.73E-04	0.00E+00	4.06E+07	2.14E+04
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	1.43E-05	0.00E+00	9.49E-06	0.00E+00	1.75E+09	9.28E+05
OVARIES	1.48E-05	0.00E+00	9.64E-06	0.00E+00	4.44E+08	2.30E+05
AVERAGE	1.46E-05	0.00E+00	9.56E-06	0.00E+00	1.10E+09	5.79E+05
RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	2.5E-07	0.0E+00	1.7E-07	0.0E+00	2.5E+00	1.3E-03
BONE	1.1E-08	0.0E+00	7.4E-09	0.0E+00	6.4E-01	3.3E-04
THYROID	1.3E-04	0.0E+00	8.7E-05	0.0E+00	6.3E+00	3.3E-03
BREAST	4.6E-07	0.0E+00	3.1E-07	0.0E+00	3.5E+01	1.9E-02
LUNG	2.9E-07	0.0E+00	7.5E-07	0.0E+00	1.0E+01	5.3E-03
STOMACH	1.9E-07	0.0E+00	7.5E-08	0.0E+00	4.9E+00	2.5E-03
BOWEL	1.1E-07	0.0E+00	4.1E-08	0.0E+00	2.3E+00	1.2E-03
LIVER	1.7E-07	0.0E+00	1.1E-07	0.0E+00	5.8E+00	3.0E-03
PANCREAS	1.2E-07	0.0E+00	8.0E-08	0.0E+00	2.4E+00	1.2E-03
URINARY	6.2E-08	0.0E+00	4.1E-08	0.0E+00	4.2E+00	2.2E-03
OTHER	1.5E-07	0.0E+00	9.8E-08	0.0E+00	2.9E+00	1.5E-03
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	3.78E-12	0.00E+00	2.49E-12	0.00E+00	2.86E+02	1.51E-01
YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	7.8E-06	0.0E+00	5.2E-06	0.0E+00	7.8E+01	4.0E-02
BONE	3.2E-07	0.0E+00	2.2E-07	0.0E+00	1.9E+01	9.7E-03
THYROID	3.7E-03	0.0E+00	2.4E-03	0.0E+00	1.8E+02	9.3E-02
BREAST	9.9E-06	0.0E+00	6.6E-06	0.0E+00	7.5E+02	4.0E-01
LUNG	6.6E-06	0.0E+00	1.7E-05	0.0E+00	2.3E+02	1.2E-01
STOMACH	4.0E-06	0.0E+00	1.6E-06	0.0E+00	1.1E+02	5.5E-02
BOWEL	2.3E-06	0.0E+00	8.8E-07	0.0E+00	5.0E+01	2.6E-02
LIVER	3.6E-06	0.0E+00	2.4E-06	0.0E+00	1.2E+02	6.4E-02
PANCREAS	2.6E-06	0.0E+00	1.7E-06	0.0E+00	5.1E+01	2.7E-02
URINARY	1.3E-06	0.0E+00	8.8E-07	0.0E+00	9.1E+01	4.8E-02
OTHER	3.2E-06	0.0E+00	2.1E-06	0.0E+00	6.3E+01	3.3E-02

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	7.86E-07	5.23E-07	7.81E+00	4.03E-03
BONE	6.28E-07	4.20E-07	3.62E+01	1.87E-02
THYROID	2.88E-03	1.91E-03	1.38E+02	7.23E-02
BREAST	1.19E-06	7.90E-07	8.88E+01	4.74E-02
LUNG	5.79E-07	1.51E-06	2.06E+01	1.07E-02
STOMACH	5.79E-07	2.31E-07	1.51E+01	7.81E-03
BOWEL	6.56E-07	2.55E-07	1.44E+01	7.46E-03
LIVER	4.78E-07	3.21E-07	1.65E+01	8.44E-03
PANCREAS	4.96E-07	3.28E-07	9.77E+00	5.07E-03
URINARY	4.97E-07	3.30E-07	3.39E+01	1.77E-02
OTHER	4.96E-07	3.28E-07	9.77E+00	5.07E-03
W BODY	4.78E-05	3.19E-05	2.77E+01	1.46E-02
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	4.85E-07	3.19E-07	3.66E+07	1.93E+04

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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FOR NUCLIDE : I-131

DOSE RATE CONVERSION FACTORS

ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	2.12E-07	0.00E+00	1.00E-07	0.00E+00	2.22E+09	4.70E+05
BREAST	4.47E-07	0.00E+00	3.02E-07	0.00E+00	2.13E+09	4.51E+05
R MAR	3.51E-07	0.00E+00	2.37E-07	0.00E+00	1.69E+09	3.57E+05
LUNGS	3.67E-07	0.00E+00	2.48E-06	0.00E+00	1.64E+09	3.47E+05
THYROID	1.67E-03	0.00E+00	1.08E-03	0.00E+00	2.07E+09	4.37E+05
ENDOST	2.88E-07	0.00E+00	1.98E-07	0.00E+00	2.02E+09	4.29E+05
RMNDR	1.06E-06	0.00E+00	3.67E-07	0.00E+00	1.64E+09	3.46E+05
EFFEC	5.06E-05	0.00E+00	3.30E-05	0.00E+00	1.89E+09	3.99E+05
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	4.63E-06	0.00E+00	2.90E-06	0.00E+00	6.65E+10	1.41E+07
OVARIES	6.36E-06	0.00E+00	3.00E-06	0.00E+00	4.28E+10	9.05E+06
AVERAGE	5.50E-06	0.00E+00	2.95E-06	0.00E+00	5.47E+10	1.16E+07

RISK CONVERSION FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	1.1E-07	0.0E+00	7.5E-08	0.0E+00	5.4E+02	1.1E-01
BONE	5.1E-09	0.0E+00	3.5E-09	0.0E+00	3.6E+01	7.6E-03
THYROID	2.5E-05	0.0E+00	1.6E-05	0.0E+00	3.1E+02	6.6E-02
BREAST	1.8E-07	0.0E+00	1.2E-07	0.0E+00	8.4E+02	1.8E-01
LUNG	1.8E-07	0.0E+00	1.7E-06	0.0E+00	8.1E+02	1.7E-01
STOMACH	3.5E-07	0.0E+00	8.3E-08	0.0E+00	4.9E+02	1.0E-01
BOWEL	1.8E-07	0.0E+00	3.6E-08	0.0E+00	2.4E+02	5.1E-02
LIVER	6.5E-08	0.0E+00	5.2E-08	0.0E+00	5.3E+02	1.1E-01
PANCREAS	5.2E-08	0.0E+00	3.6E-08	0.0E+00	3.2E+02	6.8E-02
URINARY	2.2E-08	0.0E+00	1.5E-08	0.0E+00	2.0E+02	4.2E-02
OTHER	6.4E-08	0.0E+00	4.4E-08	0.0E+00	3.9E+02	8.3E-02
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	1.43E-12	0.00E+00	7.68E-13	0.00E+00	1.42E+04	3.01E+00

YEARS OF LIFE LOST FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	3.5E-06	0.0E+00	2.4E-06	0.0E+00	1.7E+04	3.6E+00
BONE	1.5E-07	0.0E+00	1.0E-07	0.0E+00	1.0E+03	2.2E-01
THYROID	7.1E-04	0.0E+00	4.6E-04	0.0E+00	8.9E+03	1.9E+00
BREAST	3.8E-06	0.0E+00	2.5E-06	0.0E+00	1.8E+04	3.8E+00
LUNG	4.2E-06	0.0E+00	3.9E-05	0.0E+00	1.9E+04	4.0E+00
STOMACH	7.6E-06	0.0E+00	1.8E-06	0.0E+00	1.1E+04	2.2E+00
BOWEL	3.8E-06	0.0E+00	7.5E-07	0.0E+00	5.2E+03	1.1E+00
LIVER	1.4E-06	0.0E+00	1.1E-06	0.0E+00	1.1E+04	2.4E+00
PANCREAS	1.1E-06	0.0E+00	7.7E-07	0.0E+00	6.9E+03	1.5E+00
URINARY	4.6E-07	0.0E+00	3.0E-07	0.0E+00	4.3E+03	9.0E-01
OTHER	1.4E-06	0.0E+00	9.5E-07	0.0E+00	8.5E+03	1.8E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	3.51E-07	2.37E-07	1.69E+03	3.57E-01
BONE	2.88E-07	1.98E-07	2.02E+03	4.29E-01
THYROID	5.57E-04	3.60E-04	6.91E+03	1.46E+00
BREAST	4.47E-07	3.02E-07	2.13E+03	4.51E-01
LUNG	3.67E-07	3.44E-06	1.64E+03	3.47E-01
STOMACH	1.09E-06	2.57E-07	1.51E+03	3.18E-01
BOWEL	1.10E-06	2.19E-07	1.49E+03	3.16E-01
LIVER	1.84E-07	1.48E-07	1.52E+03	3.22E-01
PANCREAS	2.13E-07	1.48E-07	1.32E+03	2.78E-01
URINARY	1.74E-07	1.18E-07	1.59E+03	3.36E-01
OTHER	2.13E-07	1.48E-07	1.32E+03	2.78E-01
W BODY	9.56E-06	6.69E-06	1.70E+03	3.59E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.83E-07	9.84E-08	1.82E+09	3.86E+05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : KR-85

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	0.00E+00	0.00E+00	4.90E-10	0.00E+00	1.31E+07	2.69E+03
BREAST	0.00E+00	0.00E+00	4.90E-10	0.00E+00	1.21E+07	2.49E+03
R MAR	0.00E+00	0.00E+00	4.90E-10	0.00E+00	9.99E+06	2.05E+03
LUNGS	0.00E+00	0.00E+00	2.01E-09	0.00E+00	9.73E+06	2.01E+03
THYROID	0.00E+00	0.00E+00	4.90E-10	0.00E+00	1.21E+07	2.49E+03
ENDOST	0.00E+00	0.00E+00	4.90E-10	0.00E+00	1.14E+07	2.35E+03
RMNDR	0.00E+00	0.00E+00	4.90E-10	0.00E+00	9.73E+06	2.00E+03
EFFEC	0.00E+00	0.00E+00	6.72E-10	0.00E+00	1.11E+07	2.28E+03
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	0.00E+00	0.00E+00	1.47E-08	0.00E+00	3.93E+08	8.08E+04
OVARIES	0.00E+00	0.00E+00	1.46E-08	0.00E+00	2.62E+08	5.38E+04
AVERAGE	0.00E+00	0.00E+00	1.47E-08	0.00E+00	3.27E+08	6.73E+04
RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	0.0E+00	0.0E+00	1.6E-10	0.0E+00	3.2E+00	6.5E-04
BONE	0.0E+00	0.0E+00	8.7E-12	0.0E+00	2.0E-01	4.2E-05
THYROID	0.0E+00	0.0E+00	2.2E-11	0.0E+00	5.5E-01	1.1E-04
BREAST	0.0E+00	0.0E+00	1.9E-10	0.0E+00	4.7E+00	9.8E-04
LUNG	0.0E+00	0.0E+00	1.5E-09	0.0E+00	4.8E+00	9.9E-04
STOMACH	0.0E+00	0.0E+00	8.0E-11	0.0E+00	2.9E+00	6.0E-04
BOWEL	0.0E+00	0.0E+00	4.0E-11	0.0E+00	1.4E+00	3.0E-04
LIVER	0.0E+00	0.0E+00	1.7E-10	0.0E+00	3.2E+00	6.6E-04
PANCREAS	0.0E+00	0.0E+00	1.2E-10	0.0E+00	1.9E+00	3.9E-04
URINARY	0.0E+00	0.0E+00	6.1E-11	0.0E+00	1.2E+00	2.4E-04
OTHER	0.0E+00	0.0E+00	1.5E-10	0.0E+00	2.3E+00	4.8E-04
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	0.00E+00	0.00E+00	3.81E-15	0.00E+00	8.51E+01	1.75E-02
YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	0.0E+00	0.0E+00	2.7E-09	0.0E+00	1.0E+02	2.1E-02
BONE	0.0E+00	0.0E+00	4.0E-10	0.0E+00	5.9E+00	1.2E-03
THYROID	0.0E+00	0.0E+00	3.8E-10	0.0E+00	1.6E+01	3.2E-03
BREAST	0.0E+00	0.0E+00	2.5E-09	0.0E+00	1.0E+02	2.1E-02
LUNG	0.0E+00	0.0E+00	3.1E-08	0.0E+00	1.1E+02	2.3E-02
STOMACH	0.0E+00	0.0E+00	2.6E-09	0.0E+00	6.3E+01	1.3E-02
BOWEL	0.0E+00	0.0E+00	1.5E-09	0.0E+00	3.1E+01	6.4E-03
LIVER	0.0E+00	0.0E+00	2.1E-09	0.0E+00	6.8E+01	1.4E-02
PANCREAS	0.0E+00	0.0E+00	1.9E-09	0.0E+00	4.1E+01	8.5E-03
URINARY	0.0E+00	0.0E+00	2.5E-09	0.0E+00	2.6E+01	5.3E-03
OTHER	0.0E+00	0.0E+00	2.3E-09	0.0E+00	5.0E+01	1.0E-02

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Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

CANCER	INGESTION	INHALATION	RISK EQUIVALENT CONVERSION FACTORS	
			AIR IMMERSION	GROUND SURFACE
LEUKEMIA	0.00E+00	4.90E-10	9.99E+00	2.05E-03
BONE	0.00E+00	4.90E-10	1.14E+01	2.35E-03
THYROID	0.00E+00	4.90E-10	1.21E+01	2.49E-03
BREAST	0.00E+00	4.90E-10	1.21E+01	2.49E-03
LUNG	0.00E+00	2.99E-09	9.73E+00	2.01E-03
STOMACH	0.00E+00	2.45E-10	8.95E+00	1.84E-03
BOWEL	0.00E+00	2.45E-10	8.89E+00	1.83E-03
LIVER	0.00E+00	4.90E-10	9.06E+00	1.87E-03
PANCREAS	0.00E+00	4.88E-10	7.81E+00	1.61E-03
URINARY	0.00E+00	4.90E-10	9.47E+00	1.95E-03
OTHER	0.00E+00	4.88E-10	7.81E+00	1.61E-03
W BODY	0.00E+00	8.94E-10	9.53E+00	1.96E-03
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	0.00E+00	4.89E-10	1.09E+07	2.24E+03

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : NB-95

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSSION	SURFACE
GONADS	2.98E-06	0.00E+00	1.63E-06	0.00E+00	4.66E+09	9.06E+05
BREAST	4.01E-07	0.00E+00	1.54E-06	0.00E+00	4.18E+09	8.18E+05
R MAR	7.38E-07	0.00E+00	1.67E-06	0.00E+00	3.56E+09	6.96E+05
LUNGS	1.00E-07	0.00E+00	3.14E-05	0.00E+00	3.50E+09	6.84E+05
THYROID	5.01E-08	0.00E+00	1.36E-06	0.00E+00	4.40E+09	8.62E+05
ENDOST	1.10E-06	0.00E+00	1.95E-06	0.00E+00	3.88E+09	7.58E+05
RMNDR	5.36E-06	0.00E+00	4.03E-06	0.00E+00	3.54E+09	6.91E+05
EFFEC	2.55E-06	0.00E+00	5.92E-06	0.00E+00	3.95E+09	7.71E+05
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	1.06E-05	0.00E+00	7.24E-06	0.00E+00	1.40E+11	2.72E+07
OVARIES	8.94E-05	0.00E+00	4.88E-05	0.00E+00	9.56E+10	1.86E+07
AVERAGE	5.00E-05	0.00E+00	2.80E-05	0.00E+00	1.18E+11	2.29E+07
RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSSION	SURFACE
LEUKEMIA	2.3E-07	0.0E+00	5.3E-07	0.0E+00	1.1E+03	2.2E-01
BONE	1.9E-08	0.0E+00	3.4E-08	0.0E+00	6.9E+01	1.3E-02
THYROID	2.3E-09	0.0E+00	6.2E-08	0.0E+00	2.0E+02	3.9E-02
BREAST	1.6E-07	0.0E+00	6.0E-07	0.0E+00	1.6E+03	3.2E-01
LUNG	5.0E-08	0.0E+00	2.6E-05	0.0E+00	1.7E+03	3.4E-01
STOMACH	3.4E-07	0.0E+00	7.8E-07	0.0E+00	1.1E+03	2.1E-01
BOWEL	1.5E-06	0.0E+00	7.7E-07	0.0E+00	5.3E+02	1.0E-01
LIVER	1.1E-07	0.0E+00	8.9E-07	0.0E+00	1.1E+03	2.2E-01
PANCREAS	1.0E-07	0.0E+00	6.6E-07	0.0E+00	6.9E+02	1.3E-01
URINARY	6.4E-08	0.0E+00	1.7E-07	0.0E+00	4.3E+02	8.4E-02
OTHER	1.2E-07	0.0E+00	8.0E-07	0.0E+00	8.5E+02	1.6E-01
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	1.30E-11	0.00E+00	7.29E-12	0.00E+00	3.06E+04	5.96E+00
YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSSION	SURFACE
LEUKEMIA	7.4E-06	0.0E+00	1.7E-05	0.0E+00	3.6E+04	7.0E+00
BONE	5.7E-07	0.0E+00	1.0E-06	0.0E+00	2.0E+03	3.9E-01
THYROID	6.1E-08	0.0E+00	1.7E-06	0.0E+00	5.6E+03	1.1E+00
BREAST	3.4E-06	0.0E+00	1.3E-05	0.0E+00	3.5E+04	6.9E+00
LUNG	1.1E-06	0.0E+00	6.0E-04	0.0E+00	4.0E+04	7.8E+00
STOMACH	7.2E-06	0.0E+00	1.7E-05	0.0E+00	2.3E+04	4.4E+00
BOWEL	3.2E-05	0.0E+00	1.7E-05	0.0E+00	1.1E+04	2.2E+00
LIVER	2.3E-06	0.0E+00	1.9E-05	0.0E+00	2.5E+04	4.8E+00
PANCREAS	2.2E-06	0.0E+00	1.4E-05	0.0E+00	1.5E+04	2.9E+00
URINARY	1.4E-06	0.0E+00	3.5E-06	0.0E+00	9.3E+03	1.8E+00
OTHER	2.6E-06	0.0E+00	1.7E-05	0.0E+00	1.8E+04	3.5E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

CANCER	RISK EQUIVALENT CONVERSION FACTORS			
	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE
LEUKEMIA	7.38E-07	1.67E-06	3.56E+03	6.96E-01
BONE	1.10E-06	1.95E-06	3.89E+03	7.59E-01
THYROID	5.01E-08	1.36E-06	4.40E+03	8.62E-01
BREAST	4.01E-07	1.54E-06	4.18E+03	8.18E-01
LUNG	1.00E-07	5.26E-05	3.50E+03	6.84E-01
STOMACH	1.03E-06	2.40E-06	3.24E+03	6.33E-01
BOWEL	9.28E-06	4.77E-06	3.24E+03	6.33E-01
LIVER	3.07E-07	2.52E-06	3.27E+03	6.40E-01
PANCREAS	4.11E-07	2.68E-06	2.83E+03	5.51E-01
URINARY	5.09E-07	1.32E-06	3.44E+03	6.73E-01
OTHER	4.11E-07	2.68E-06	2.83E+03	5.51E-01
W BODY	9.73E-07	1.13E-05	3.41E+03	6.67E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.67E-06	9.34E-07	3.92E+09	7.64E+05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : PU-239

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	6.75E-08	4.87E-05	3.08E-06	2.22E-03	4.33E+05	3.46E+02
BREAST	7.79E-09	4.73E-06	4.14E-07	2.18E-04	9.99E+05	1.62E+03
R MAR	4.24E-07	3.08E-04	1.96E-05	1.42E-02	1.95E+05	5.59E+01
LUNGS	8.41E-09	4.73E-06	8.23E-05	5.97E-02	2.42E+05	8.95E+01
THYROID	6.87E-09	4.73E-06	3.20E-07	2.18E-04	3.39E+05	1.17E+02
ENDOST	5.00E-06	3.80E-03	2.31E-04	1.75E-01	4.00E+05	1.47E+02
RMNDR	6.07E-07	1.70E-04	1.13E-05	7.86E-03	2.25E+05	6.73E+01
EFFEC	4.02E-07	2.15E-04	2.34E-05	1.71E-02	4.00E+05	3.75E+02
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	6.11E-07	4.40E-04	2.27E-05	1.64E-02	1.30E+07	1.04E+04
OVARIES	7.46E-07	4.39E-04	2.28E-05	1.64E-02	5.51E+06	1.80E+03
AVERAGE	6.78E-07	4.39E-04	2.28E-05	1.64E-02	9.25E+06	6.09E+03

RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	8.9E-08	5.2E-04	3.9E-06	2.3E-02	6.2E-02	1.8E-05
BONE	5.5E-08	3.3E-04	2.4E-06	1.4E-02	7.1E-03	2.6E-06
THYROID	1.9E-10	1.0E-06	8.2E-09	4.4E-05	1.5E-02	5.3E-06
BREAST	1.5E-09	6.9E-06	7.6E-08	2.8E-04	3.9E-01	6.3E-04
LUNG	2.1E-09	9.3E-06	3.3E-05	1.9E-01	1.2E-01	4.4E-05
STOMACH	1.0E-08	6.2E-06	3.5E-08	2.3E-04	6.7E-02	2.0E-05
BOWEL	1.2E-07	9.7E-06	8.0E-08	1.2E-04	3.3E-02	8.7E-06
LIVER	2.0E-07	1.1E-03	8.4E-06	4.8E-02	7.2E-02	1.7E-05
PANCREAS	9.4E-10	4.3E-06	4.0E-08	1.8E-04	4.2E-02	1.5E-05
URINARY	4.5E-10	2.2E-06	1.9E-08	9.1E-05	2.6E-02	6.1E-06
OTHER	1.1E-09	5.2E-06	4.9E-08	2.2E-04	5.2E-02	1.8E-05
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	1.76E-13	3.03E-10	5.92E-12	1.13E-08	2.40E+00	1.58E-03

YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	2.0E-06	1.2E-02	8.4E-05	4.9E-01	2.0E+00	5.6E-04
BONE	1.2E-06	7.1E-03	4.8E-05	2.9E-01	2.1E-01	7.6E-05
THYROID	2.0E-09	2.2E-05	1.6E-07	8.8E-04	4.3E-01	1.5E-04
BREAST	2.4E-08	1.2E-04	1.3E-06	4.6E-03	8.4E+00	1.4E-02
LUNG	3.5E-08	1.7E-04	7.4E-04	4.3E+00	2.8E+00	1.0E-03
STOMACH	2.2E-07	1.1E-04	6.1E-07	3.8E-03	1.4E+00	4.2E-04
BOWEL	2.5E-06	2.0E-04	1.6E-06	2.0E-03	7.0E-01	1.9E-04
LIVER	3.5E-06	2.0E-02	1.4E-04	7.9E-01	1.5E+00	3.7E-04
PANCREAS	1.2E-08	7.3E-05	6.4E-07	2.9E-03	9.1E-01	3.2E-04
URINARY	5.1E-09	3.7E-05	3.0E-07	1.5E-03	5.6E-01	1.3E-04
OTHER	1.4E-08	8.9E-05	7.9E-07	3.5E-03	1.1E+00	3.9E-04

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	1.64E-03	7.20E-02	1.95E-01	5.59E-05
BONE	1.88E-02	8.17E-01	4.00E-01	1.47E-04
THYROID	2.26E-05	9.77E-04	3.39E-01	1.17E-04
BREAST	1.75E-05	7.25E-04	9.99E-01	1.62E-03
LUNG	1.87E-05	3.85E-01	2.42E-01	8.95E-05
STOMACH	1.92E-05	7.22E-04	2.07E-01	6.03E-05
BOWEL	6.05E-05	7.46E-04	2.02E-01	5.37E-05
LIVER	3.28E-03	1.36E-01	2.05E-01	4.85E-05
PANCREAS	1.75E-05	7.25E-04	1.73E-01	6.14E-05
URINARY	1.75E-05	7.25E-04	2.08E-01	4.85E-05
OTHER	1.75E-05	7.25E-04	1.73E-01	6.14E-05
W BODY	7.37E-04	9.99E-02	3.20E-01	2.84E-04
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	3.89E-05	1.45E-03	3.08E+05	2.03E+02

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : RN-220

DOSE RATE CONVERSION FACTORS						
ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	1.73E-09	1.65E-10	3.36E-10	4.61E-09	3.08E+06	6.29E+02
BREAST	3.17E-10	1.65E-10	3.12E-10	4.61E-09	2.84E+06	5.81E+02
R MAR	1.03E-09	4.97E-09	5.03E-10	5.92E-09	2.35E+06	4.81E+02
LUNGS	1.69E-10	1.65E-10	2.87E-09	9.64E-08	2.30E+06	4.70E+02
THYROID	1.04E-10	1.65E-10	3.07E-10	4.61E-09	2.86E+06	5.85E+02
ENDOST	2.13E-09	6.19E-08	1.20E-09	6.35E-08	2.66E+06	5.44E+02
RMNDR	1.47E-08	6.17E-09	4.83E-10	5.75E-09	2.30E+06	4.71E+02
EFFEC	5.10E-09	4.40E-09	7.26E-10	1.79E-08	2.61E+06	5.34E+02
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	7.33E-09	4.96E-09	9.15E-09	1.38E-07	9.25E+07	1.89E+04
OVARIES	5.20E-08	4.96E-09	1.01E-08	1.38E-07	6.20E+07	1.27E+04
AVERAGE	2.97E-08	4.96E-09	9.62E-09	1.38E-07	7.73E+07	1.58E+04

RISK CONVERSION FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	3.2E-10	1.3E-08	1.6E-10	1.5E-08	7.5E-01	1.5E-04
BONE	3.8E-11	8.8E-09	2.1E-11	9.0E-09	4.7E-02	9.6E-06
THYROID	4.7E-12	6.0E-11	1.4E-11	1.7E-09	1.3E-01	2.7E-05
BREAST	1.2E-10	5.2E-10	1.2E-10	1.4E-08	1.1E+00	2.3E-04
LUNG	8.4E-11	6.6E-10	2.2E-09	6.2E-07	1.1E+00	2.3E-04
STOMACH	1.1E-09	3.3E-08	1.1E-10	1.2E-08	6.9E-01	1.4E-04
BOWEL	4.6E-09	3.3E-09	6.0E-11	6.0E-09	3.4E-01	7.0E-05
LIVER	4.7E-10	2.1E-08	2.3E-10	2.0E-08	7.5E-01	1.5E-04
PANCREAS	1.2E-10	3.2E-10	9.5E-11	9.0E-09	4.5E-01	9.2E-05
URINARY	1.4E-10	4.8E-09	8.2E-11	7.7E-09	2.8E-01	5.8E-05
OTHER	1.4E-10	4.0E-10	1.2E-10	1.1E-08	5.5E-01	1.1E-04
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	7.72E-15	3.42E-15	2.50E-15	9.53E-14	2.01E+01	4.10E-03

YEARS OF LIFE LOST FACTORS						
CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	7.5E-09	4.0E-07	2.7E-09	4.7E-07	2.4E+01	4.8E-03
BONE	4.0E-10	2.6E-07	4.0E-10	2.6E-07	1.4E+00	2.8E-04
THYROID	1.3E-10	3.0E-09	3.8E-10	3.5E-08	3.7E+00	7.5E-04
BREAST	1.4E-09	7.3E-09	1.4E-09	2.8E-07	2.4E+01	4.9E-03
LUNG	9.5E-10	1.4E-08	4.8E-08	1.4E-05	2.6E+01	5.4E-03
STOMACH	1.3E-08	7.0E-07	2.6E-09	2.5E-07	1.5E+01	3.0E-03
BOWEL	9.5E-08	6.6E-08	2.4E-09	1.2E-07	7.3E+00	1.5E-03
LIVER	5.7E-09	4.5E-07	2.6E-09	4.3E-07	1.6E+01	3.3E-03
PANCREAS	1.9E-09	4.1E-09	1.4E-09	1.9E-07	9.7E+00	2.0E-03
URINARY	2.5E-09	9.8E-08	2.5E-09	1.6E-07	6.0E+00	1.2E-03
OTHER	2.3E-09	5.0E-09	1.7E-09	2.3E-07	1.2E+01	2.4E-03

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	4.08E-08	4.79E-08	2.35E+00	4.81E-04
BONE	4.97E-07	5.09E-07	2.66E+00	5.44E-04
THYROID	1.43E-09	3.71E-08	2.86E+00	5.85E-04
BREAST	1.64E-09	3.72E-08	2.84E+00	5.81E-04
LUNG	1.49E-09	1.26E-06	2.30E+00	4.70E-04
STOMACH	1.04E-07	3.72E-08	2.12E+00	4.33E-04
BOWEL	4.92E-08	3.72E-08	2.10E+00	4.30E-04
LIVER	6.20E-08	5.75E-08	2.15E+00	4.37E-04
PANCREAS	1.80E-09	3.72E-08	1.85E+00	3.77E-04
URINARY	3.95E-08	6.24E-08	2.24E+00	4.59E-04
OTHER	1.80E-09	3.72E-08	1.85E+00	3.77E-04
W BODY	3.33E-08	2.63E-07	2.25E+00	4.60E-04
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.43E-09	1.25E-08	2.58E+06	5.25E+02

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FOR NUCLIDE : SB-125

DOSE RATE CONVERSION FACTORS

ORGAN	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
GONADS	1.93E-06	0.00E+00	1.35E-06	0.00E+00	2.50E+09	5.18E+05
BREAST	3.92E-07	0.00E+00	1.59E-06	0.00E+00	2.35E+09	4.92E+05
R MAR	8.80E-07	0.00E+00	2.20E-06	0.00E+00	1.88E+09	3.88E+05
LUNGS	2.25E-07	0.00E+00	7.85E-05	0.00E+00	1.85E+09	3.81E+05
THYROID	2.02E-07	0.00E+00	1.26E-06	0.00E+00	2.32E+09	4.81E+05
ENDOST	2.99E-06	0.00E+00	6.37E-06	0.00E+00	2.18E+09	4.51E+05
RMNDR	6.84E-06	0.00E+00	5.42E-06	0.00E+00	1.85E+09	3.82E+05
EFFEC	2.82E-06	0.00E+00	1.21E-05	0.00E+00	2.11E+09	4.38E+05
GENETIC EFFECT DOSE RATE CONVERSION FACTORS						
TESTES	9.92E-06	0.00E+00	1.01E-05	0.00E+00	7.49E+10	1.55E+07
OVARIES	5.78E-05	0.00E+00	4.04E-05	0.00E+00	4.94E+10	1.02E+07
AVERAGE	3.39E-05	0.00E+00	2.53E-05	0.00E+00	6.22E+10	1.29E+07

RISK CONVERSION FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	2.8E-07	0.0E+00	7.0E-07	0.0E+00	6.0E+02	1.2E-01
BONE	5.3E-08	0.0E+00	1.1E-07	0.0E+00	3.9E+01	8.0E-03
THYROID	9.2E-09	0.0E+00	5.7E-08	0.0E+00	1.1E+02	2.2E-02
BREAST	1.5E-07	0.0E+00	6.2E-07	0.0E+00	9.2E+02	1.9E-01
LUNG	1.1E-07	0.0E+00	6.2E-05	0.0E+00	9.2E+02	1.9E-01
STOMACH	3.4E-07	0.0E+00	7.5E-07	0.0E+00	5.5E+02	1.1E-01
BOWEL	2.0E-06	0.0E+00	1.2E-06	0.0E+00	2.7E+02	5.6E-02
LIVER	3.2E-07	0.0E+00	1.1E-06	0.0E+00	6.0E+02	1.2E-01
PANCREAS	1.0E-07	0.0E+00	6.6E-07	0.0E+00	3.6E+02	7.5E-02
URINARY	5.4E-08	0.0E+00	1.6E-07	0.0E+00	2.3E+02	4.7E-02
OTHER	1.2E-07	0.0E+00	8.1E-07	0.0E+00	4.4E+02	9.1E-02
GENETIC EFFECT RISK CONVERSION FACTORS						
AVERAGE	8.81E-12	0.00E+00	6.57E-12	0.00E+00	1.62E+04	3.34E+00

YEARS OF LIFE LOST FACTORS

CANCER	INGESTION		INHALATION		AIR	GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE
LEUKEMIA	8.8E-06	0.0E+00	2.2E-05	0.0E+00	1.9E+04	3.9E+00
BONE	1.5E-06	0.0E+00	3.3E-06	0.0E+00	1.1E+03	2.3E-01
THYROID	2.6E-07	0.0E+00	1.6E-06	0.0E+00	3.0E+03	6.2E-01
BREAST	3.3E-06	0.0E+00	1.3E-05	0.0E+00	2.0E+04	4.1E+00
LUNG	2.6E-06	0.0E+00	1.4E-03	0.0E+00	2.1E+04	4.3E+00
STOMACH	7.4E-06	0.0E+00	1.6E-05	0.0E+00	1.2E+04	2.4E+00
BOWEL	4.3E-05	0.0E+00	2.6E-05	0.0E+00	5.9E+03	1.2E+00
LIVER	6.8E-06	0.0E+00	2.4E-05	0.0E+00	1.3E+04	2.7E+00
PANCREAS	2.2E-06	0.0E+00	1.4E-05	0.0E+00	7.8E+03	1.6E+00
URINARY	1.2E-06	0.0E+00	3.4E-06	0.0E+00	4.9E+03	1.0E+00
OTHER	2.7E-06	0.0E+00	1.7E-05	0.0E+00	9.5E+03	2.0E+00

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE
LEUKEMIA	8.79E-07	2.20E-06	1.88E+03	3.88E-01
BONE	2.98E-06	6.34E-06	2.18E+03	4.51E-01
THYROID	2.02E-07	1.26E-06	2.32E+03	4.81E-01
BREAST	3.92E-07	1.58E-06	2.35E+03	4.92E-01
LUNG	2.25E-07	1.24E-04	1.85E+03	3.81E-01
STOMACH	1.06E-06	2.31E-06	1.70E+03	3.50E-01
BOWEL	1.23E-05	7.42E-06	1.69E+03	3.48E-01
LIVER	9.05E-07	3.16E-06	1.72E+03	3.55E-01
PANCREAS	4.14E-07	2.71E-06	1.48E+03	3.05E-01
URINARY	4.32E-07	1.27E-06	1.80E+03	3.74E-01
OTHER	4.14E-07	2.71E-06	1.48E+03	3.05E-01
W BODY	1.28E-06	2.45E-05	1.82E+03	3.76E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.13E-06	8.42E-07	2.07E+09	4.29E+05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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FOR NUCLIDE : ZR-95

DOSE RATE CONVERSION FACTORS							
ORGAN	INGESTION		INHALATION		AIR		GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
GONADS	3.01E-06	0.00E+00	2.92E-06	0.00E+00	4.48E+09	8.73E+05	
BREAST	3.83E-07	0.00E+00	2.99E-06	0.00E+00	4.03E+09	7.88E+05	
R MAR	7.57E-07	0.00E+00	1.00E-05	0.00E+00	3.41E+09	6.70E+05	
LUNGS	8.15E-08	0.00E+00	6.36E-05	0.00E+00	3.36E+09	6.59E+05	
THYROID	2.80E-08	0.00E+00	2.55E-06	0.00E+00	4.22E+09	8.29E+05	
ENDOST	1.58E-06	0.00E+00	6.90E-05	0.00E+00	3.74E+09	7.33E+05	
RMNDR	9.30E-06	0.00E+00	7.48E-06	0.00E+00	3.39E+09	6.65E+05	
EFFEC	3.75E-06	0.00E+00	1.44E-05	0.00E+00	3.79E+09	7.42E+05	
GENETIC EFFECT DOSE RATE CONVERSION FACTORS							
TESTES	8.82E-06	0.00E+00	2.99E-05	0.00E+00	1.34E+11	2.62E+07	
OVARIES	9.04E-05	0.00E+00	8.71E-05	0.00E+00	9.16E+10	1.80E+07	
AVERAGE	4.96E-05	0.00E+00	5.85E-05	0.00E+00	1.13E+11	2.21E+07	
RISK CONVERSION FACTORS							
CANCER	INGESTION		INHALATION		AIR		GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	2.4E-07	0.0E+00	3.2E-06	0.0E+00	1.1E+03	2.1E-01	
BONE	2.8E-08	0.0E+00	1.2E-06	0.0E+00	6.6E+01	1.3E-02	
THYROID	1.3E-09	0.0E+00	1.2E-07	0.0E+00	1.9E+02	3.8E-02	
BREAST	1.5E-07	0.0E+00	1.2E-06	0.0E+00	1.6E+03	3.1E-01	
LUNG	4.0E-08	0.0E+00	5.1E-05	0.0E+00	1.7E+03	3.3E-01	
STOMACH	4.3E-07	0.0E+00	1.2E-06	0.0E+00	1.0E+03	2.0E-01	
BOWEL	2.7E-06	0.0E+00	1.6E-06	0.0E+00	5.0E+02	9.9E-02	
LIVER	1.0E-07	0.0E+00	1.3E-06	0.0E+00	1.1E+03	2.2E-01	
PANCREAS	9.3E-08	0.0E+00	1.0E-06	0.0E+00	6.6E+02	1.3E-01	
URINARY	5.2E-08	0.0E+00	3.4E-07	0.0E+00	4.1E+02	8.1E-02	
OTHER	1.1E-07	0.0E+00	1.3E-06	0.0E+00	8.1E+02	1.6E-01	
GENETIC EFFECT RISK CONVERSION FACTORS							
AVERAGE	1.29E-11	0.00E+00	1.52E-11	0.00E+00	2.94E+04	5.74E+00	
YEARS OF LIFE LOST FACTORS							
CANCER	INGESTION		INHALATION		AIR		GROUND
	LOW LET	HIGH LET	LOW LET	HIGH LET	IMMERSION	SURFACE	
LEUKEMIA	7.6E-06	0.0E+00	1.0E-04	0.0E+00	3.4E+04	6.7E+00	
BONE	8.2E-07	0.0E+00	3.6E-05	0.0E+00	1.9E+03	3.8E-01	
THYROID	3.4E-08	0.0E+00	3.3E-06	0.0E+00	5.4E+03	1.1E+00	
BREAST	3.2E-06	0.0E+00	2.5E-05	0.0E+00	3.4E+04	6.6E+00	
LUNG	9.3E-07	0.0E+00	1.2E-03	0.0E+00	3.8E+04	7.5E+00	
STOMACH	9.2E-06	0.0E+00	2.5E-05	0.0E+00	2.2E+04	4.3E+00	
BOWEL	5.9E-05	0.0E+00	3.4E-05	0.0E+00	1.1E+04	2.1E+00	
LIVER	2.1E-06	0.0E+00	2.9E-05	0.0E+00	2.4E+04	4.6E+00	
PANCREAS	2.0E-06	0.0E+00	2.2E-05	0.0E+00	1.4E+04	2.8E+00	
URINARY	1.1E-06	0.0E+00	7.2E-06	0.0E+00	8.9E+03	1.7E+00	
OTHER	2.5E-06	0.0E+00	2.7E-05	0.0E+00	1.7E+04	3.4E+00	

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

RISK EQUIVALENT CONVERSION FACTORS				
CANCER	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE
LEUKEMIA	7.57E-07	9.99E-06	3.41E+03	6.70E-01
BONE	1.57E-06	6.88E-05	3.74E+03	7.33E-01
THYROID	2.80E-08	2.55E-06	4.22E+03	8.29E-01
BREAST	3.83E-07	2.98E-06	4.03E+03	7.88E-01
LUNG	8.15E-08	1.02E-04	3.36E+03	6.59E-01
STOMACH	1.32E-06	3.62E-06	3.10E+03	6.10E-01
BOWEL	1.69E-05	9.80E-06	3.10E+03	6.08E-01
LIVER	2.85E-07	3.82E-06	3.14E+03	6.14E-01
PANCREAS	3.82E-07	4.19E-06	2.70E+03	5.29E-01
URINARY	4.14E-07	2.69E-06	3.30E+03	6.47E-01
OTHER	3.82E-07	4.19E-06	2.70E+03	5.29E-01
W BODY	1.44E-06	2.27E-05	3.27E+03	6.41E-01
GENETIC EFFECT RISK EQ. CONVERSION FACTOR				
AVERAGE	1.65E-06	1.95E-06	3.76E+09	7.36E+05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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THE LOCATION USED FOR THE SELECTED INDIVIDUAL EXPOSURE IS
===> 750 METERS SSW FROM THE SOURCE.
THE LIFETIME FATAL CANCER RISK IS 1.39E-07.
ORGAN DOSE WEIGHTING FACTORS

ORGAN	FACTORS	PATHWAYS
GONADS	0.25000	1 2 3 4
BREAST	0.15000	1 2 3 4
R MAR	0.12000	1 2 3 4
LUNGS	0.12000	1 2 3 4
THYROID	0.03000	1 2 3 4
ENDOST	0.03000	1 2 3 4
RMNDR	0.30000	1 2 3 4

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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ORGAN DOSE/EXPOSURE SUMMARY

*** SELECTED INDIVIDUAL ***

DOSE RATES:

ORGANS:	GONADS	BREAST	R MAR	LUNGS	THYROID	ENDOST	RMNDR	EFFEC	WT.SUM
DOSE EQUIVALENT (MREM/Y)	2.60E-03	2.53E-03	2.76E-03	3.10E-02	2.55E-03	2.06E-02	2.73E-03	6.59E-03	6.59E-03

*** MEAN INDIVIDUAL ***

DOSE RATE:

ORGANS:	GONADS	BREAST	R MAR	LUNGS	THYROID	ENDOST	RMNDR	EFFEC	WT.SUM
DOSE EQUIVALENT (MREM/Y)	3.91E-05	3.80E-05	3.51E-05	4.16E-05	4.49E-05	3.41E-05	3.94E-05	3.89E-05	3.88E-05

*** COLLECTIVE POPULATION ***

DOSE RATE:

ORGANS:	GONADS	BREAST	R MAR	LUNGS	THYROID	ENDOST	RMNDR	EFFEC	WT.SUM
DOSE EQ. (PERSON REM/Y)	3.09E-01	3.00E-01	2.78E-01	3.29E-01	3.54E-01	2.69E-01	3.11E-01	3.07E-01	3.07E-01

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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PATHWAY DOSE/EXPOSURE SUMMARY

*** SELECTED INDIVIDUAL ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
DOSE EQUIVALENT (MREM/Y)	2.49E-05	5.69E-03	8.76E-04	2.25E-06	5.71E-03	8.78E-04	6.59E-03

*** MEAN INDIVIDUAL ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
DOSE EQUIVALENT (MREM/Y)	1.21E-05	1.30E-05	1.36E-05	1.13E-07	2.51E-05	1.37E-05	3.89E-05

*** COLLECTIVE POPULATION ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
DOSE EQ. (PERSON REM/Y)	9.58E-02	1.03E-01	1.08E-01	8.94E-04	1.98E-01	1.08E-01	3.07E-01

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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NUCLIDE DOSE/EXPOSURE SUMMARY

*** SELECTED INDIVIDUAL ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
PU-239		RN-220	SB-125	ZR-95	TOTAL					
DOSE EQUIVALENT (MREM/Y)	2.04E-05	8.91E-04	7.43E-09	5.83E-10	5.34E-08	1.36E-04	2.39E-06	3.83E-09	6.12E-08	1.54E-11
	3.37E-08	5.54E-03	4.42E-07	1.32E-11	6.59E-03					

*** MEAN INDIVIDUAL ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
PU-239		RN-220	SB-125	ZR-95	TOTAL					
DOSE EQUIVALENT (MREM/Y)	1.20E-06	1.30E-05	7.72E-10	2.40E-10	4.88E-09	2.37E-05	2.77E-07	3.22E-10	6.49E-09	1.83E-12
	3.37E-09	5.67E-07	4.07E-08	1.27E-12	3.89E-05					

*** COLLECTIVE POPULATION ***

DOSE RATES:

WEIGHTED SUMS OF ORGAN DOSE RATES

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
PU-239		RN-220	SB-125	ZR-95	TOTAL					
DOSE EQ. (PERSON REM/Y)	9.46E-03	1.03E-01	6.10E-06	1.89E-06	3.85E-05	1.87E-01	2.19E-03	2.54E-06	5.12E-05	1.44E-08
	2.66E-05	4.47E-03	3.21E-04	1.00E-08	3.07E-01					

SAMPLE.OUT
(Continued)

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RISK/RISK EQUIVALENT SUMMARY

*** SELECTED INDIVIDUAL ***
LIFETIME FATAL CANCER RISK:

	CANCERS:	LEUKEMIA	BONE	THYROID	BREAST	LUNG	STOMACH	BOWEL	LIVER	PANCREAS	URINARY
		OTHER	TOTAL								
TOTAL		5.27E-09	1.57E-09	7.66E-10	6.57E-09	1.02E-07	4.92E-09	2.33E-09	6.12E-09	3.27E-09	2.33E-09
		4.00E-09	1.39E-07								
AVERAGE LIFE LOSS PER PREMATURE DEATH:											
	CANCERS:	LEUKEMIA	BONE	THYROID	BREAST	LUNG	STOMACH	BOWEL	LIVER	PANCREAS	URINARY
		OTHER	TOTAL								
COMBINED (YR)		3.15E+01	2.92E+01	2.57E+01	2.08E+01	2.30E+01	2.12E+01	2.11E+01	2.14E+01	2.13E+01	2.11E+01
		2.13E+01	2.30E+01								

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
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RISK/RISK EQUIVALENT SUMMARY

*** MEAN INDIVIDUAL ***
LIFETIME FATAL CANCER RISK:

	CANCERS:	LEUKEMIA	BONE	THYROID	BREAST	LUNG	STOMACH	BOWEL	LIVER	PANCREAS	URINARY
		OTHER	TOTAL								
TOTAL		1.11E-10	5.82E-12	1.83E-11	1.49E-10	2.02E-10	1.25E-10	6.41E-11	1.19E-10	7.82E-11	4.44E-11
		9.56E-11	1.01E-09								
AVERAGE LIFE LOSS PER PREMATURE DEATH:											
	CANCERS:	LEUKEMIA	BONE	THYROID	BREAST	LUNG	STOMACH	BOWEL	LIVER	PANCREAS	URINARY
		OTHER	TOTAL								
COMBINED (YR)		3.16E+01	2.88E+01	2.81E+01	2.15E+01	2.30E+01	2.13E+01	2.11E+01	2.14E+01	2.13E+01	2.12E+01
		2.13E+01	2.29E+01								

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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RISK/RISK EQUIVALENT SUMMARY

*** COLLECTIVE POPULATION ***

COLLECTIVE FATAL CANCER RISK:

CANCERS:	LEUKEMIA	BONE	THYROID	BREAST	LUNG	STOMACH	BOWEL	LIVER	PANCREAS	URINARY
	OTHER	TOTAL								
TOTAL (DEATHS/YR)	1.24E-05	6.49E-07	2.04E-06	1.66E-05	2.25E-05	1.40E-05	7.15E-06	1.33E-05	8.72E-06	4.96E-06
	1.07E-05	1.13E-04								
GENETIC RISK EQUIVALENT:										
(PERSON REM/YR)	2.86E-01									

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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PATHWAY RISK/RISK EQUIVALENT SUMMARY

*** SELECTED INDIVIDUAL ***
LIFETIME FATAL CANCER RISK:

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
TOTAL	6.61E-10	1.18E-07	2.09E-08	4.50E-11	1.18E-07	2.10E-08	1.39E-07

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

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PATHWAY RISK/RISK EQUIVALENT SUMMARY

***MEAN INDIVIDUAL ***
LIFETIME FATAL CANCER RISK:

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
TOTAL	3.23E-10	3.61E-10	3.26E-10	2.36E-12	6.84E-10	3.28E-10	1.01E-09

SAMPLE.OUT
(Continued)

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PATHWAY RISK/RISK EQUIVALENT SUMMARY

*** COLLECTIVE POPULATION ***
COLLECTIVE FATAL CANCER RISK:

PATHWAYS:	INGESTION	INHALATION	AIR IMMERSSION	GROUND SURFACE	INTERNAL	EXTERNAL	TOTAL
TOTAL (DEATHS/YR)	3.61E-05	4.02E-05	3.64E-05	2.63E-07	7.63E-05	3.66E-05	1.13E-04
WHOLE BODY RISK EQ (PERSON REM/YR) FROM ALL EXPOSURES					2.88E-01		
GENETIC RISK EQUIVALENT: (PERSON REM/YR)	8.69E-02	9.25E-02	1.06E-01	8.34E-04	1.79E-01	1.07E-01	2.86E-01

SAMPLE.OUT
(Continued)

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NUCLIDE RISK/RISK EQUIVALENT SUMMARY

*** SELECTED INDIVIDUAL ***

LIFETIME FATAL CANCER RISK:

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
	PU-239	RN-220	SB-125	ZR-95	TOTAL					
TOTAL	4.94E-10	2.21E-08	1.79E-13	1.53E-14	1.28E-12	3.71E-09	3.64E-11	6.53E-14	1.72E-12	4.08E-16
	2.73E-13	1.13E-07	1.07E-11	3.51E-16	1.39E-07					

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM

NUCLIDE RISK/RISK EQUIVALENT SUMMARY

*** MEAN INDIVIDUAL ***

LIFETIME FATAL CANCER RISK:

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
	PU-239	RN-220	SB-125	ZR-95	TOTAL					
TOTAL	2.90E-11	3.23E-10	1.88E-14	6.28E-15	1.17E-13	6.45E-10	2.35E-12	3.43E-15	1.83E-13	4.22E-17
	2.71E-14	1.16E-11	9.87E-13	3.33E-17	1.01E-09					

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM

NUCLIDE RISK/RISK EQUIVALENT SUMMARY

*** COLLECTIVE POPULATION ***
COLLECTIVE FATAL CANCER RISK:

NUCLIDES:	AR-41	C-11	CS-134	CS-137	BA-137M	H-3	I-129	I-131	KR-85	NB-95
	PU-239	RN-220	SB-125	ZR-95	TOTAL					
TOTAL (DEATHS/YR)	3.23E-06	3.60E-05	2.10E-09	7.00E-10	1.30E-08	7.20E-05	2.62E-07	3.82E-10	2.04E-08	4.71E-12
	3.03E-09	1.29E-06	1.10E-07	3.71E-12	1.13E-04					
TOTAL FATAL CANCER RISK FROM ALL EXPOSURES				1.13E-04						

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INDIVIDUAL DOSE EQ. RATE(MREM/YEAR)

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : WT. SUM
AND PATHWAY : ALL

DIRECTIONS: N NNE NE ENE E ESE SE SSE
DISTANCE
(METERS):

250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	3.2E-03	1.4E-03	1.4E-03	0.0E+00	1.4E-03	0.0E+00	0.0E+00	0.0E+00
3500	1.8E-03	8.4E-04	8.1E-04	6.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	1.3E-03	5.8E-04	5.6E-04	4.2E-04	5.7E-04	3.8E-04	0.0E+00	0.0E+00
7500	5.8E-04	2.6E-04	2.5E-04	1.9E-04	0.0E+00	1.7E-04	2.1E-04	1.5E-04
15000	1.6E-04	7.7E-05	7.5E-05	6.0E-05	7.9E-05	5.3E-05	6.3E-05	4.8E-05
25000	6.5E-05	3.5E-05	3.3E-05	2.8E-05	3.5E-05	2.6E-05	2.9E-05	2.4E-05
35000	4.0E-05	2.4E-05	2.3E-05	2.0E-05	2.4E-05	1.9E-05	2.1E-05	1.8E-05
45000	3.1E-05	2.0E-05	1.9E-05	0.0E+00	2.0E-05	1.7E-05	1.7E-05	1.6E-05
55000	2.6E-05	1.8E-05	0.0E+00	0.0E+00	0.0E+00	1.5E-05	1.6E-05	1.4E-05
70000	2.2E-05	1.6E-05	0.0E+00	0.0E+00	1.6E-05	1.4E-05	1.5E-05	1.3E-05

	S	SSW	SW	WSW	W	WNW	NW	NNW	AVG
DISTANCE									
(METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	6.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.6E-03
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.8E-04	0.0E+00	0.0E+00	1.6E-03
3500	0.0E+00	0.0E+00	0.0E+00	6.7E-04	0.0E+00	0.0E+00	0.0E+00	4.2E-04	8.6E-04
4500	0.0E+00	3.1E-04	5.0E-04	0.0E+00	5.9E-04	0.0E+00	4.5E-04	2.9E-04	5.4E-04
7500	2.9E-04	1.4E-04	2.3E-04	2.0E-04	2.6E-04	1.2E-04	2.1E-04	1.4E-04	2.3E-04
15000	8.5E-05	4.6E-05	6.8E-05	6.1E-05	7.5E-05	4.0E-05	6.3E-05	4.4E-05	6.9E-05
25000	3.6E-05	2.3E-05	3.1E-05	2.8E-05	3.4E-05	2.2E-05	3.0E-05	2.3E-05	3.1E-05
35000	2.4E-05	1.7E-05	2.1E-05	2.0E-05	2.4E-05	1.7E-05	2.1E-05	1.7E-05	2.2E-05
45000	2.0E-05	1.5E-05	1.8E-05	1.7E-05	2.0E-05	1.5E-05	1.8E-05	1.5E-05	1.9E-05
55000	1.8E-05	1.4E-05	1.6E-05	1.6E-05	1.8E-05	1.4E-05	1.6E-05	1.4E-05	1.7E-05
70000	1.6E-05	1.3E-05	1.5E-05	1.5E-05	1.6E-05	1.3E-05	1.5E-05	1.3E-05	1.5E-05

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INDIVIDUAL GENETIC DOSE EQ. (MREM)

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : AVERAGE
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	7.8E-02	3.7E-02	3.6E-02	0.0E+00	3.5E-02	0.0E+00	0.0E+00	0.0E+00
3500	5.0E-02	2.4E-02	2.3E-02	1.7E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	3.6E-02	1.7E-02	1.6E-02	1.2E-02	1.6E-02	1.1E-02	0.0E+00	0.0E+00
7500	1.6E-02	7.5E-03	7.2E-03	5.5E-03	0.0E+00	4.9E-03	5.9E-03	4.3E-03
15000	4.7E-03	2.2E-03	2.1E-03	1.7E-03	2.2E-03	1.5E-03	1.8E-03	1.4E-03
25000	1.9E-03	9.9E-04	9.5E-04	7.9E-04	1.0E-03	7.3E-04	8.2E-04	6.8E-04
35000	1.1E-03	6.9E-04	6.6E-04	5.6E-04	6.9E-04	5.4E-04	5.8E-04	5.0E-04
45000	8.7E-04	5.7E-04	5.4E-04	0.0E+00	5.7E-04	4.6E-04	4.9E-04	4.3E-04
55000	7.4E-04	5.1E-04	0.0E+00	0.0E+00	0.0E+00	4.2E-04	4.4E-04	4.0E-04
70000	6.3E-04	4.6E-04	0.0E+00	0.0E+00	4.6E-04	3.9E-04	4.0E-04	3.7E-04

	S	SSW	SW	WSW	W	WNW	NW	NNW	AVG
DISTANCE (METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	7.3E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-02
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.5E-02	0.0E+00	0.0E+00	4.0E-02
3500	0.0E+00	0.0E+00	0.0E+00	1.9E-02	0.0E+00	0.0E+00	0.0E+00	1.2E-02	2.4E-02
4500	0.0E+00	8.7E-03	1.4E-02	0.0E+00	1.7E-02	0.0E+00	1.3E-02	8.3E-03	1.5E-02
7500	8.3E-03	4.1E-03	6.5E-03	5.8E-03	7.5E-03	3.4E-03	5.9E-03	3.9E-03	6.5E-03
15000	2.4E-03	1.3E-03	1.9E-03	1.7E-03	2.2E-03	1.1E-03	1.8E-03	1.3E-03	2.0E-03
25000	1.0E-03	6.4E-04	8.7E-04	8.0E-04	9.7E-04	6.1E-04	8.4E-04	6.3E-04	8.9E-04
35000	6.9E-04	4.8E-04	6.0E-04	5.7E-04	6.7E-04	4.7E-04	6.0E-04	4.8E-04	6.2E-04
45000	5.6E-04	4.2E-04	5.0E-04	4.9E-04	5.6E-04	4.2E-04	5.0E-04	4.2E-04	5.2E-04
55000	4.9E-04	3.9E-04	4.5E-04	4.4E-04	5.0E-04	3.9E-04	4.6E-04	3.9E-04	4.6E-04
70000	4.4E-04	3.6E-04	4.1E-04	4.0E-04	4.5E-04	3.7E-04	4.2E-04	3.6E-04	4.2E-04

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
COLLECTIVE DOSE EQ. (PERSON REM /YEAR)

FOR RADIONUCLIDE : WLSUM
AND ORGAN/CANCER : AVERAGE

AND PATHWAY : ALL

DIRECTIONS: N NNE NE ENE E ESE SE SSE

DISTANCE

(METERS):

250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
15000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
35000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
45000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
55000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
70000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SUM	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE									
(METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
15000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
25000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
35000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
45000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
55000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
70000	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SUM	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
COLLECTIVE DOSE EQ. (PERSON REM /YEAR)

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : WT. SUM
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	6.6E-03	1.8E-03	1.3E-03	0.0E+00	3.9E-03	0.0E+00	0.0E+00	0.0E+00
3500	9.3E-04	4.0E-03	1.2E-03	3.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	4.3E-03	1.9E-03	8.3E-04	3.4E-04	3.6E-04	3.4E-06	0.0E+00	0.0E+00
7500	1.5E-02	4.8E-03	1.5E-03	1.4E-03	0.0E+00	9.3E-05	2.9E-04	2.3E-04
15000	1.3E-02	5.6E-03	7.8E-03	5.1E-03	8.7E-03	2.2E-03	2.4E-03	7.6E-05
25000	7.0E-03	7.3E-03	1.8E-02	1.2E-02	1.4E-02	3.8E-03	1.6E-03	4.8E-04
35000	5.5E-03	7.6E-03	2.1E-02	6.9E-03	7.7E-03	3.6E-03	2.7E-03	5.3E-05
45000	6.1E-03	4.5E-03	2.6E-03	0.0E+00	4.7E-04	3.2E-03	4.6E-04	4.9E-05
55000	1.5E-03	9.6E-04	0.0E+00	0.0E+00	0.0E+00	3.1E-03	2.1E-04	9.8E-05
70000	5.3E-03	4.9E-05	0.0E+00	0.0E+00	4.5E-04	1.5E-03	4.1E-04	2.8E-04
SUM	6.5E-02	3.8E-02	5.4E-02	2.6E-02	3.5E-02	1.8E-02	8.0E-03	1.3E-03

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE (METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	2.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E-03
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E-04	0.0E+00	0.0E+00	1.4E-02
3500	0.0E+00	0.0E+00	0.0E+00	5.0E-04	0.0E+00	0.0E+00	0.0E+00	1.4E-03	8.4E-03
4500	0.0E+00	2.3E-04	2.9E-04	0.0E+00	2.3E-03	0.0E+00	8.6E-04	1.2E-03	1.3E-02
7500	3.3E-03	4.8E-04	1.6E-04	3.8E-03	2.7E-03	1.9E-03	3.4E-03	2.4E-03	4.1E-02
15000	2.6E-04	1.2E-03	9.6E-04	2.0E-04	1.2E-03	1.6E-03	2.0E-03	3.4E-03	5.6E-02
25000	6.3E-04	2.1E-03	7.8E-04	1.1E-04	2.2E-03	6.9E-04	1.2E-03	1.8E-03	7.4E-02
35000	8.2E-05	1.2E-04	6.4E-05	3.6E-05	8.2E-04	5.0E-04	8.5E-04	2.6E-03	6.0E-02
45000	2.4E-05	9.3E-05	3.9E-05	2.7E-05	1.1E-04	7.4E-05	1.1E-03	8.0E-04	2.0E-02
55000	6.2E-05	2.0E-04	1.9E-04	4.3E-05	1.7E-04	3.6E-05	8.1E-05	8.3E-04	7.5E-03
70000	1.1E-03	1.3E-04	2.0E-04	8.6E-05	1.1E-04	7.0E-04	3.2E-04	1.5E-03	1.2E-02
SUM	5.4E-03	7.0E-03	2.7E-03	4.8E-03	9.5E-03	5.7E-03	9.7E-03	1.6E-02	3.1E-01

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
COLLECTIVE GENETIC DOSE EQ. (PERSON REM)

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : AVERAGE
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	1.6E-01	4.6E-02	3.3E-02	0.0E+00	1.0E-01	0.0E+00	0.0E+00	0.0E+00
3500	2.6E-02	1.1E-01	3.4E-02	9.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	1.2E-01	5.5E-02	2.3E-02	9.6E-03	1.0E-02	9.6E-05	0.0E+00	0.0E+00
7500	4.2E-01	1.4E-01	4.3E-02	4.0E-02	0.0E+00	2.7E-03	8.3E-03	6.6E-03
15000	3.7E-01	1.6E-01	2.2E-01	1.4E-01	2.5E-01	6.4E-02	6.8E-02	2.1E-03
25000	2.0E-01	2.1E-01	5.2E-01	3.4E-01	3.9E-01	1.1E-01	4.6E-02	1.4E-02
35000	1.6E-01	2.1E-01	5.8E-01	1.9E-01	2.2E-01	1.0E-01	7.5E-02	1.5E-03
45000	1.7E-01	1.3E-01	7.2E-02	0.0E+00	1.3E-02	9.0E-02	1.3E-02	1.4E-03
55000	4.3E-02	2.7E-02	0.0E+00	0.0E+00	0.0E+00	8.6E-02	5.9E-03	2.7E-03
70000	1.5E-01	1.4E-03	0.0E+00	0.0E+00	1.2E-02	4.3E-02	1.1E-02	7.8E-03
SUM	1.8E+00	1.1E+00	1.5E+00	7.4E-01	1.0E+00	4.9E-01	2.3E-01	3.6E-02

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE (METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	2.7E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-02
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.5E-03	0.0E+00	0.0E+00	3.5E-01
3500	0.0E+00	0.0E+00	0.0E+00	1.4E-02	0.0E+00	0.0E+00	0.0E+00	3.8E-02	2.3E-01
4500	0.0E+00	6.6E-03	8.3E-03	0.0E+00	6.4E-02	0.0E+00	2.4E-02	3.5E-02	3.6E-01
7500	9.3E-02	1.4E-02	4.5E-03	1.1E-01	7.7E-02	5.4E-02	9.6E-02	6.8E-02	1.2E+00
15000	7.4E-03	3.3E-02	2.7E-02	5.6E-03	3.4E-02	4.5E-02	5.6E-02	9.7E-02	1.6E+00
25000	1.8E-02	6.0E-02	2.2E-02	3.1E-03	6.2E-02	2.0E-02	3.3E-02	5.2E-02	2.1E+00
35000	2.3E-03	3.3E-03	1.8E-03	1.0E-03	2.3E-02	1.4E-02	2.4E-02	7.4E-02	1.7E+00
45000	6.9E-04	2.6E-03	1.1E-03	7.5E-04	3.2E-03	2.1E-03	3.2E-02	2.2E-02	5.5E-01
55000	1.8E-03	5.5E-03	5.2E-03	1.2E-03	4.8E-03	9.9E-04	2.3E-03	2.3E-02	2.1E-01
70000	3.1E-02	3.5E-03	5.5E-03	2.4E-03	3.1E-03	1.9E-02	8.8E-03	4.1E-02	3.4E-01
SUM	1.5E-01	1.6E-01	7.6E-02	1.4E-01	2.7E-01	1.6E-01	2.8E-01	4.5E-01	8.6E+00

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INDIVIDUAL LIFETIME RISK (DEATHS)
COMB.LET

FOR RADIONUCLIDE : WLSUM
AND ORGAN/CANCER : TOTAL
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	7.7E-08	3.5E-08	3.5E-08	0.0E+00	3.4E-08	0.0E+00	0.0E+00	0.0E+00
3500	4.5E-08	2.1E-08	2.0E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	3.2E-08	1.5E-08	1.4E-08	1.1E-08	1.4E-08	9.5E-09	0.0E+00	0.0E+00
7500	1.5E-08	6.7E-09	6.4E-09	4.9E-09	0.0E+00	4.4E-09	5.3E-09	3.9E-09
15000	4.2E-09	2.0E-09	1.9E-09	1.5E-09	2.0E-09	1.4E-09	1.6E-09	1.3E-09
25000	1.7E-09	9.2E-10	8.8E-10	7.4E-10	9.3E-10	6.8E-10	7.6E-10	6.3E-10
35000	1.1E-09	6.5E-10	6.2E-10	5.3E-10	6.5E-10	5.1E-10	5.5E-10	4.8E-10
45000	8.2E-10	5.4E-10	5.2E-10	0.0E+00	5.4E-10	4.4E-10	4.7E-10	4.2E-10
55000	7.0E-10	4.9E-10	0.0E+00	0.0E+00	0.0E+00	4.1E-10	4.2E-10	3.9E-10
70000	6.0E-10	4.4E-10	0.0E+00	0.0E+00	4.4E-10	3.8E-10	3.9E-10	3.6E-10

DISTANCE (METERS):	S	SSW	SW	WSW	W	WNW	NW	NNW	AVG
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	3.9E-08
3500	0.0E+00	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-08	2.2E-08
4500	0.0E+00	7.7E-09	1.3E-08	0.0E+00	1.5E-08	0.0E+00	1.1E-08	7.4E-09	1.4E-08
7500	7.4E-09	3.6E-09	5.8E-09	5.2E-09	6.7E-09	3.1E-09	5.2E-09	3.5E-09	5.8E-09
15000	2.2E-09	1.2E-09	1.8E-09	1.6E-09	2.0E-09	1.0E-09	1.6E-09	1.1E-09	1.8E-09
25000	9.6E-10	6.0E-10	8.1E-10	7.5E-10	9.0E-10	5.7E-10	7.8E-10	6.0E-10	8.3E-10
35000	6.5E-10	4.6E-10	5.7E-10	5.4E-10	6.4E-10	4.5E-10	5.7E-10	4.6E-10	5.9E-10
45000	5.3E-10	4.0E-10	4.8E-10	4.7E-10	5.3E-10	4.1E-10	4.8E-10	4.0E-10	5.0E-10
55000	4.7E-10	3.7E-10	4.3E-10	4.2E-10	4.8E-10	3.8E-10	4.4E-10	3.8E-10	4.4E-10
70000	4.2E-10	3.5E-10	3.9E-10	3.9E-10	4.3E-10	3.6E-10	4.0E-10	3.5E-10	4.1E-10

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INDIVIDUAL LIFETIME RISK (DEATHS)
COMB.LET

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : TOTAL

AND PATHWAY : ALL

DIRECTIONS: N NNE NE ENE E ESE SE SSE

DISTANCE

(METERS):

250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	7.7E-08	3.5E-08	3.5E-08	0.0E+00	3.4E-08	0.0E+00	0.0E+00	0.0E+00
3500	4.5E-08	2.1E-08	2.0E-08	1.5E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	3.2E-08	1.5E-08	1.4E-08	1.1E-08	1.4E-08	9.5E-09	0.0E+00	0.0E+00
7500	1.5E-08	6.7E-09	6.4E-09	4.9E-09	0.0E+00	4.4E-09	5.3E-09	3.9E-09
15000	4.2E-09	2.0E-09	1.9E-09	1.5E-09	2.0E-09	1.4E-09	1.6E-09	1.3E-09
25000	1.7E-09	9.2E-10	8.8E-10	7.4E-10	9.3E-10	6.8E-10	7.6E-10	6.3E-10
35000	1.1E-09	6.5E-10	6.2E-10	5.3E-10	6.5E-10	5.1E-10	5.5E-10	4.8E-10
45000	8.2E-10	5.4E-10	5.2E-10	0.0E+00	5.4E-10	4.4E-10	4.7E-10	4.2E-10
55000	7.0E-10	4.9E-10	0.0E+00	0.0E+00	0.0E+00	4.1E-10	4.2E-10	3.9E-10
70000	6.0E-10	4.4E-10	0.0E+00	0.0E+00	4.4E-10	3.8E-10	3.9E-10	3.6E-10

DISTANCE S SSW SW WSW W WNW NW NNW AVG

(METERS):

250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	1.4E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	3.9E-08
3500	0.0E+00	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-08	2.2E-08
4500	0.0E+00	7.7E-09	1.3E-08	0.0E+00	1.5E-08	0.0E+00	1.1E-08	7.4E-09	1.4E-08
7500	7.4E-09	3.6E-09	5.8E-09	5.2E-09	6.7E-09	3.1E-09	5.2E-09	3.5E-09	5.8E-09
15000	2.2E-09	1.2E-09	1.8E-09	1.6E-09	2.0E-09	1.0E-09	1.6E-09	1.1E-09	1.8E-09
25000	9.6E-10	6.0E-10	8.1E-10	7.5E-10	9.0E-10	5.7E-10	7.8E-10	6.0E-10	8.3E-10
35000	6.5E-10	4.6E-10	5.7E-10	5.4E-10	6.4E-10	4.5E-10	5.7E-10	4.6E-10	5.9E-10
45000	5.3E-10	4.0E-10	4.8E-10	4.7E-10	5.3E-10	4.1E-10	4.8E-10	4.0E-10	5.0E-10
55000	4.7E-10	3.7E-10	4.3E-10	4.2E-10	4.8E-10	3.8E-10	4.4E-10	3.8E-10	4.4E-10
70000	4.2E-10	3.5E-10	3.9E-10	3.9E-10	4.3E-10	3.6E-10	4.0E-10	3.5E-10	4.1E-10

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
INDIVIDUAL GENETIC EFFECTS PER BIRTH
COMB.LET

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : AVERAGE
AND PATHWAY : ALL

DIRECTIONS: N NNE NE ENE E ESE SE SSE
DISTANCE
(METERS):

250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	1.9E-08	9.3E-09	9.0E-09	0.0E+00	8.9E-09	0.0E+00	0.0E+00	0.0E+00
3500	1.3E-08	6.1E-09	5.9E-09	4.3E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	9.3E-09	4.3E-09	4.1E-09	3.1E-09	4.2E-09	2.8E-09	0.0E+00	0.0E+00
7500	4.3E-09	1.9E-09	1.9E-09	1.4E-09	0.0E+00	1.3E-09	1.5E-09	1.1E-09
15000	1.2E-09	5.7E-10	5.5E-10	4.4E-10	5.8E-10	3.9E-10	4.6E-10	3.6E-10
25000	4.8E-10	2.6E-10	2.5E-10	2.1E-10	2.6E-10	1.9E-10	2.1E-10	1.8E-10
35000	3.0E-10	1.8E-10	1.7E-10	1.5E-10	1.8E-10	1.4E-10	1.5E-10	1.3E-10
45000	2.3E-10	1.5E-10	1.4E-10	0.0E+00	1.5E-10	1.2E-10	1.3E-10	1.1E-10
55000	1.9E-10	1.3E-10	0.0E+00	0.0E+00	0.0E+00	1.1E-10	1.1E-10	1.0E-10
70000	1.6E-10	1.2E-10	0.0E+00	0.0E+00	1.2E-10	1.0E-10	1.1E-10	9.7E-11

	S	SSW	SW	WSW	W	WNW	NW	NNW	AVG
DISTANCE									
(METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	9.3E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.3E-09
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	1.0E-08
3500	0.0E+00	0.0E+00	0.0E+00	4.8E-09	0.0E+00	0.0E+00	0.0E+00	3.0E-09	6.2E-09
4500	0.0E+00	2.3E-09	3.7E-09	0.0E+00	4.4E-09	0.0E+00	3.3E-09	2.2E-09	4.0E-09
7500	2.2E-09	1.1E-09	1.7E-09	1.5E-09	1.9E-09	8.9E-10	1.5E-09	1.0E-09	1.7E-09
15000	6.3E-10	3.4E-10	5.0E-10	4.5E-10	5.6E-10	2.9E-10	4.7E-10	3.3E-10	5.1E-10
25000	2.7E-10	1.7E-10	2.3E-10	2.1E-10	2.5E-10	1.6E-10	2.2E-10	1.6E-10	2.3E-10
35000	1.8E-10	1.2E-10	1.6E-10	1.5E-10	1.8E-10	1.2E-10	1.6E-10	1.2E-10	1.6E-10
45000	1.5E-10	1.1E-10	1.3E-10	1.3E-10	1.5E-10	1.1E-10	1.3E-10	1.1E-10	1.4E-10
55000	1.3E-10	1.0E-10	1.2E-10	1.1E-10	1.3E-10	1.0E-10	1.2E-10	1.0E-10	1.2E-10
70000	1.1E-10	9.4E-11	1.1E-10	1.0E-10	1.2E-10	9.6E-11	1.1E-10	9.5E-11	1.1E-10

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FATAL CANCER RATE (DEATH/YR)
COMB.LET

FOR RADIONUCLIDE : WLSUM
AND ORGAN/CANCER : TOTAL
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	2.3E-06	6.2E-07	4.4E-07	0.0E+00	1.4E-06	0.0E+00	0.0E+00	0.0E+00
3500	3.3E-07	1.4E-06	4.3E-07	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	1.5E-06	6.8E-07	2.9E-07	1.2E-07	1.3E-07	1.2E-09	0.0E+00	0.0E+00
7500	5.3E-06	1.7E-06	5.5E-07	5.1E-07	0.0E+00	3.3E-08	1.0E-07	8.3E-08
15000	4.8E-06	2.1E-06	2.8E-06	1.9E-06	3.2E-06	8.2E-07	8.8E-07	2.8E-08
25000	2.6E-06	2.7E-06	6.9E-06	4.5E-06	5.1E-06	1.4E-06	6.0E-07	1.8E-07
35000	2.1E-06	2.9E-06	7.7E-06	2.6E-06	2.9E-06	1.3E-06	1.0E-06	2.0E-08
45000	2.3E-06	1.7E-06	9.7E-07	0.0E+00	1.8E-07	1.2E-06	1.7E-07	1.9E-08
55000	5.8E-07	3.7E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-06	8.0E-08	3.7E-08
70000	2.0E-06	1.9E-08	0.0E+00	0.0E+00	1.7E-07	5.8E-07	1.6E-07	1.1E-07
SUM	2.4E-05	1.4E-05	2.0E-05	9.7E-06	1.3E-05	6.6E-06	3.0E-06	4.7E-07

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE (METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	7.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-07
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.5E-08	0.0E+00	0.0E+00	4.8E-06
3500	0.0E+00	0.0E+00	0.0E+00	1.8E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07	3.0E-06
4500	0.0E+00	8.3E-08	1.0E-07	0.0E+00	8.1E-07	0.0E+00	3.1E-07	4.4E-07	4.5E-06
7500	1.2E-06	1.7E-07	5.7E-08	1.4E-06	9.7E-07	6.9E-07	1.2E-06	8.5E-07	1.5E-05
15000	9.4E-08	4.3E-07	3.5E-07	7.2E-08	4.3E-07	5.9E-07	7.2E-07	1.2E-06	2.0E-05
25000	2.4E-07	7.9E-07	2.9E-07	4.2E-08	8.2E-07	2.6E-07	4.3E-07	6.9E-07	2.8E-05
35000	3.1E-08	4.5E-08	2.4E-08	1.4E-08	3.1E-07	1.9E-07	3.2E-07	9.9E-07	2.2E-05
45000	9.2E-09	3.5E-08	1.5E-08	1.0E-08	4.3E-08	2.8E-08	4.3E-07	3.0E-07	7.4E-06
55000	2.4E-08	7.6E-08	7.1E-08	1.6E-08	6.5E-08	1.4E-08	3.1E-08	3.1E-07	2.8E-06
70000	4.2E-07	4.7E-08	7.6E-08	3.2E-08	4.2E-08	2.6E-07	1.2E-07	5.6E-07	4.6E-06
SUM	2.0E-06	2.4E-06	9.9E-07	1.7E-06	3.5E-06	2.1E-06	3.6E-06	5.9E-06	1.1E-04

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
FATAL CANCER RATE (DEATH/YR)
COMB.LET

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : TOTAL
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE (METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	2.3E-06	6.2E-07	4.4E-07	0.0E+00	1.4E-06	0.0E+00	0.0E+00	0.0E+00
3500	3.3E-07	1.4E-06	4.3E-07	1.2E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	1.5E-06	6.8E-07	2.9E-07	1.2E-07	1.3E-07	1.2E-09	0.0E+00	0.0E+00
7500	5.3E-06	1.7E-06	5.5E-07	5.1E-07	0.0E+00	3.3E-08	1.0E-07	8.3E-08
15000	4.8E-06	2.1E-06	2.8E-06	1.9E-06	3.2E-06	8.2E-07	8.8E-07	2.8E-08
25000	2.6E-06	2.7E-06	6.9E-06	4.5E-06	5.1E-06	1.4E-06	6.0E-07	1.8E-07
35000	2.1E-06	2.9E-06	7.7E-06	2.6E-06	2.9E-06	1.3E-06	1.0E-06	2.0E-08
45000	2.3E-06	1.7E-06	9.7E-07	0.0E+00	1.8E-07	1.2E-06	1.7E-07	1.9E-08
55000	5.8E-07	3.7E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-06	8.0E-08	3.7E-08
70000	2.0E-06	1.9E-08	0.0E+00	0.0E+00	1.7E-07	5.8E-07	1.6E-07	1.1E-07
SUM	2.4E-05	1.4E-05	2.0E-05	9.7E-06	1.3E-05	6.6E-06	3.0E-06	4.7E-07

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE (METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	7.3E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	7.3E-07
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.5E-08	0.0E+00	0.0E+00	4.8E-06
3500	0.0E+00	0.0E+00	0.0E+00	1.8E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07	3.0E-06
4500	0.0E+00	8.3E-08	1.0E-07	0.0E+00	8.1E-07	0.0E+00	3.1E-07	4.4E-07	4.5E-06
7500	1.2E-06	1.7E-07	5.7E-08	1.4E-06	9.7E-07	6.9E-07	1.2E-06	8.5E-07	1.5E-05
15000	9.4E-08	4.3E-07	3.5E-07	7.2E-08	4.3E-07	5.9E-07	7.2E-07	1.2E-06	2.0E-05
25000	2.4E-07	7.9E-07	2.9E-07	4.2E-08	8.2E-07	2.6E-07	4.3E-07	6.9E-07	2.8E-05
35000	3.1E-08	4.5E-08	2.4E-08	1.4E-08	3.1E-07	1.9E-07	3.2E-07	9.9E-07	2.2E-05
45000	9.2E-09	3.5E-08	1.5E-08	1.0E-08	4.3E-08	2.8E-08	4.3E-07	3.0E-07	7.4E-06
55000	2.4E-08	7.6E-08	7.1E-08	1.6E-08	6.5E-08	1.4E-08	3.1E-08	3.1E-07	2.8E-06
70000	4.2E-07	4.7E-08	7.6E-08	3.2E-08	4.2E-08	2.6E-07	1.2E-07	5.6E-07	4.6E-06
SUM	2.0E-06	2.4E-06	9.9E-07	1.7E-06	3.5E-06	2.1E-06	3.6E-06	5.9E-06	1.1E-04

Sample CAP-88 Output Files
(continued)

SAMPLE.OUT
(Continued)

DATE THR 7 September, 1989 12:05:43 PM
COLLECTIVE GENETIC EFFECT(EFFECTIVE/YR)
COMB.LET

FOR RADIONUCLIDE : SUM
AND ORGAN/CANCER : AVERAGE
AND PATHWAY : ALL

DIRECTIONS:	N	NNE	NE	ENE	E	ESE	SE	SSE
DISTANCE								
(METERS):								
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	5.6E-07	1.6E-07	1.1E-07	0.0E+00	3.6E-07	0.0E+00	0.0E+00	0.0E+00
3500	9.4E-08	4.1E-07	1.2E-07	3.4E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4500	4.5E-07	2.0E-07	8.6E-08	3.5E-08	3.7E-08	3.5E-10	0.0E+00	0.0E+00
7500	1.5E-06	5.0E-07	1.6E-07	1.5E-07	0.0E+00	9.7E-09	3.0E-08	2.4E-08
15000	1.4E-06	5.9E-07	8.2E-07	5.3E-07	9.1E-07	2.3E-07	2.5E-07	7.9E-09
25000	7.4E-07	7.6E-07	1.9E-06	1.2E-06	1.4E-06	4.0E-07	1.7E-07	5.0E-08
35000	5.8E-07	7.9E-07	2.1E-06	7.1E-07	8.0E-07	3.7E-07	2.7E-07	5.4E-09
45000	6.3E-07	4.6E-07	2.6E-07	0.0E+00	4.9E-08	3.3E-07	4.7E-08	5.0E-09
55000	1.6E-07	9.9E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-07	2.2E-08	1.0E-08
70000	5.5E-07	5.1E-09	0.0E+00	0.0E+00	4.6E-08	1.6E-07	4.2E-08	2.9E-08
SUM	6.7E-06	4.0E-06	5.6E-06	2.7E-06	3.6E-06	1.8E-06	8.3E-07	1.3E-07

	S	SSW	SW	WSW	W	WNW	NW	NNW	SUM
DISTANCE									
(METERS):									
250	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
750	0.0E+00	4.9E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	4.9E-08
1500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2500	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	1.2E-06
3500	0.0E+00	0.0E+00	0.0E+00	5.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-07	8.5E-07
4500	0.0E+00	2.4E-08	3.0E-08	0.0E+00	2.4E-07	0.0E+00	8.9E-08	1.3E-07	1.3E-06
7500	3.4E-07	5.0E-08	1.7E-08	4.0E-07	2.8E-07	2.0E-07	3.5E-07	2.5E-07	4.3E-06
15000	2.7E-08	1.2E-07	1.0E-07	2.1E-08	1.2E-07	1.7E-07	2.1E-07	3.5E-07	5.8E-06
25000	6.6E-08	2.2E-07	8.1E-08	1.2E-08	2.3E-07	7.2E-08	1.2E-07	1.9E-07	7.7E-06
35000	8.6E-09	1.2E-08	6.6E-09	3.7E-09	8.5E-08	5.1E-08	8.8E-08	2.7E-07	6.2E-06
45000	2.5E-09	9.5E-09	4.1E-09	2.8E-09	1.2E-08	7.6E-09	1.2E-07	8.2E-08	2.0E-06
55000	6.4E-09	2.0E-08	1.9E-08	4.4E-09	1.8E-08	3.6E-09	8.3E-09	8.4E-08	7.7E-07
70000	1.1E-07	1.3E-08	2.0E-08	8.7E-09	1.1E-08	7.1E-08	3.2E-08	1.5E-07	1.2E-06
SUM	5.7E-07	5.2E-07	2.8E-07	5.0E-07	1.0E-06	5.9E-07	1.0E-06	1.6E-06	3.1E-05

Sample CAP-88 Output Files
(continued)