

Number of Sample Runs: 900

Number	Name	Distribution	Parameters						
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA						
1	SHF3	UNIFORM	.15	.95					
2	SHF1	BOUNDED LOGNORMAL-N	-1.3	.59	.044	1			
3	DWIBWT	TRIANGULAR	6	10	30				
4	DM	TRIANGULAR	0	.15	.6				
5	DROOT	UNIFORM	.3	4					
6	YV(1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999			
7	RWET(2)	TRIANGULAR	.06	.67	.95				
8	WLAM	TRIANGULAR	5.1	18	84				
9	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365
10	THICK0	UNIFORM	.15	3					
11	H(1)	UNIFORM	.01	2.85					
12	UW	UNIFORM	957	1689					
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	-2.81	.5	.001	.999			
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	-2.81	.5	.001	.999			
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	-2.81	.5	.001	.999			
16	BRTF(1,1)	TRUNCATED LOGNORMAL-N	1.57	1.1	.001	.999			
17	BRTF(1,2)	TRUNCATED LOGNORMAL-N	-4.42	1	.001	.999			
18	BRTF(1,3)	TRUNCATED LOGNORMAL-N	-4.6	.9	.001	.999			
19	BBIO(1,1)	LOGNORMAL-N	0	.1					
20	RI	UNIFORM	.252	.618					
iiiiii	iiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiii						

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : H-3.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	2.500E+01
2	0.000E+00	2.484E+01
3	0.000E+00	2.513E+01

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : H-3.RAD

Coefficients for peak of mean dose time Dose

Coefficient =

Repetition =

PCC

SRC

PRCC

SRRC

1

1

1

1

Description of Probabilistic Variable

Sig Coeff

Sig Coeff

Sig Coeff

Sig Coeff

Indoor dust filtration factor

13 0.04

15 0.01

6 0.08

6 0.

External gamma shielding factor

9 -0.05

11 -0.01

12 -0.04

14 -0.

Well pump intake depth

10 0.05

12 0.01

10 0.05

12 0.

Depth of soil mixing layer

18 -0.02

18 -0.01

16 -0.03

18 -0.

Depth of roots

1 -0.77

2 -0.32

1 -0.79

2 -0.

Wet weight crop yield of fruit, grain and non-leafy vegetables

4 -0.12

6 -0.03

9 -0.06

11 -0.

Wet foliar interception fraction of leafy vegetables

8 0.06

10 0.02

7 0.07

7 0.

Weathering removal constant of all vegetation

11 0.04

13 0.01

18 0.01

19 0.

Mass loading for inhalation

20 -0.01

20 0.00

11 -0.05

13 -0.

Thickness of contaminated zone

3 0.41

1 0.84

3 0.44

1 0.

Thickness of Unsaturated zone 1

16 -0.03

5 -0.06

19 -0.01

8 -0.

Well pumping rate

15 -0.03

7 -0.03

17 -0.02

9 -0.

Kd of H-3 in Contaminated Zone

2 -0.48

3 -0.15

2 -0.52

3 -0.

Kd of H-3 in Unsaturated Zone 1

17 0.03

17 0.01

14 0.04

16 0.

Kd of H-3 in Saturated Zone

5 -0.07

8 -0.02

4 -0.12

5 -0.

Plant transfer factor for H

12 0.04

14 0.01

8 -0.06

10 -0.

Meat transfer factor for H

7 -0.06

9 -0.02

13 -0.04

15 -0.

Milk transfer factor for H

14 0.03

16 0.01

15 0.03

17 0.

Fish transfer factor for H

19 0.01

19 0.00

20 0.00

20 0.

Irrigation

6 -0.07

4 -0.06

5 -0.09

4 -0.

R-SQUARE

0.93

0.93

0.94

0.

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : H-3.RAD

Coefficients for peak of mean dose time Dose

Coefficient =

Repetition =

PCC

2

SRC

2

PRCC

2

SRRC

2

Description of Probabilistic Variable

Description of Probabilistic Variable	Sig Coeff		Sig Coeff		Sig Coeff		Sig Coeff	
	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor	10	0.09	13	0.02	14	0.06	16	0.0
External gamma shielding factor	4	0.15	7	0.04	6	0.10	9	0.0
Well pump intake depth	5	0.14	8	0.03	4	0.14	7	0.0
Depth of soil mixing layer	11	-0.08	14	-0.02	8	-0.09	10	-0.0
Depth of roots	1	-0.83	2	-0.34	1	-0.82	2	-0.0
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.05	17	-0.01	12	-0.06	15	-0.0
Wet foliar interception fraction of leafy vegetables	19	0.02	19	0.00	19	-0.02	19	0.0
Weathering removal constant of all vegetation	7	-0.10	10	-0.02	10	-0.07	12	-0.0
Mass loading for inhalation	12	0.08	15	0.02	18	-0.02	18	-0.0
Thickness of contaminated zone	2	0.51	1	0.96	2	0.51	1	0.0
Thickness of Unsaturated zone 1	17	0.04	4	0.07	15	0.05	4	0.0
Well pumping rate	15	-0.06	6	-0.05	16	-0.05	6	-0.0
Kd of H-3 in Contaminated Zone	3	-0.47	3	-0.12	3	-0.45	3	-0.0
Kd of H-3 in Unsaturated Zone 1	6	-0.11	9	-0.03	5	-0.12	8	-0.0
Kd of H-3 in Saturated Zone	20	0.01	20	0.00	20	0.01	20	0.0
Plant transfer factor for H	8	0.09	11	0.02	11	0.06	13	0.0
Meat transfer factor for H	9	-0.09	12	-0.02	9	-0.07	11	-0.0
Milk transfer factor for H	14	0.06	16	0.01	13	-0.06	14	-0.0
Fish transfer factor for H	18	0.02	18	0.00	17	0.03	17	0.0
Irrigation	13	-0.07	5	-0.05	7	-0.09	5	-0.0

R-SQUARE

0.95

0.95

0.94

0.0

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Title : Yankee Rowe Sensitivity Analysis=soil

Input File : H-3.RAD

Coefficients for peak of mean dose time Dose

Coefficient =

Repetition =

PCC

3

SRC

3

PRCC

3

SRRC

3

Description of Probabilistic Variable

Description of Probabilistic Variable	Sig Coeff		Sig Coeff		Sig Coeff		Sig Coeff	
	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor	8	0.09	8	0.02	10	0.07	10	0.07
External gamma shielding factor	9	0.07	9	0.02	17	0.01	17	0.01
Well pump intake depth	18	0.03	18	0.01	14	0.03	14	0.03
Depth of soil mixing layer	11	-0.04	11	-0.01	9	-0.07	9	-0.07
Depth of roots	1	-0.83	2	-0.34	1	-0.84	2	-0.84
Wet weight crop yield of fruit, grain and non-leafy vegetables	12	0.04	12	0.01	8	0.07	8	0.07
Wet foliar interception fraction of leafy vegetables	15	-0.03	15	-0.01	15	-0.03	15	-0.03
Weathering removal constant of all vegetation	19	0.02	19	0.00	20	0.00	20	0.00
Mass loading for inhalation	20	-0.02	20	0.00	11	0.05	11	0.05
Thickness of contaminated zone	3	0.56	1	1.05	2	0.56	1	1.05
Thickness of Unsaturated zone 1	6	0.10	4	0.16	5	0.10	4	0.16
Well pumping rate	5	0.11	6	0.09	6	0.10	6	0.10
Kd of H-3 in Contaminated Zone	2	-0.57	5	-0.16	3	-0.55	5	-0.16
Kd of H-3 in Unsaturated Zone 1	17	0.03	17	0.01	13	0.04	13	0.04
Kd of H-3 in Saturated Zone	7	-0.10	7	-0.02	7	-0.10	7	-0.10
Plant transfer factor for H	10	0.05	10	0.01	12	0.05	12	0.05
Meat transfer factor for H	14	-0.04	14	-0.01	19	0.01	19	0.01
Milk transfer factor for H	16	0.03	16	0.01	16	0.01	16	0.01
Fish transfer factor for H	13	0.04	13	0.01	18	0.01	18	0.01
Irrigation	4	-0.21	3	-0.18	4	-0.20	3	-0.18

R-SQUARE

0.95

0.95

0.95

0.95

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Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV (1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET (2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H (1)	UNIFORM	.01 2.85
11	DCACTC (1)	TRUNCATED LOGNORMAL-N	2.4 3.22 .001 .999
12	DCACTU1 (1)	TRUNCATED LOGNORMAL-N	2.4 3.22 .001 .999
13	DCACTS (1)	TRUNCATED LOGNORMAL-N	2.4 3.22 .001 .999
14	BRTF (6,1)	TRUNCATED LOGNORMAL-N	-.36 .9 .001 .999
15	BRTF (6,2)	TRUNCATED LOGNORMAL-N	-3.47 1 .001 .999
16	BRTF (6,3)	TRUNCATED LOGNORMAL-N	-4.4 .9 .001 .999
17	BBIO (6,1)	LOGNORMAL-N	10.8 1.1
18	DMC	TRIANGULAR	.2 .3 .6
19	UW	UNIFORM	957 1689
20	RI	UNIFORM	.252 .618
21	DWIBWT	TRIANGULAR	6 10 30
ffffff	ffffffffffffffffffffff	ffffffffffffffffffffff	ffffffffffffffffffffff

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 Probabilistic results summary : DCGL to Dose for C-14 File: C-14.rad
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.503E+01
 2 0.000E+00 2.491E+01
 3 0.000E+00 2.501E+01
 1 RESRAD Regression and Correlation output 04/21/03 21:22 Page: Coef 1
 Title : DCGL to Dose for C-14
 Input File : C-14.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC	Repetition =		1	1
1	1				
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				19	0.01
14 -0.03	14 -0.01			20	0.00
External gamma shielding factor				8	-0.05
11 -0.04	11 -0.01			8	-0.01
Depth of soil mixing layer				17	0.02
20 0.00	20 0.00			18	0.00
Depth of roots				1	-0.80
1 -0.86	2 -0.31			2	-0.30
Wet weight crop yield of fruit, grain and non-leafy vegetables				12	-0.03
12 -0.03	12 -0.01			13	-0.01
Wet foliar interception fraction of leafy vegetables				16	0.02
16 0.01	17 0.00			17	0.00
Weathering removal constant of all vegetation				11	-0.04
10 -0.04	10 -0.01			12	-0.01
Mass loading for inhalation				15	0.02
15 0.01	16 0.00			16	0.00
Thickness of contaminated zone				2	0.55
2 0.63	1 0.94			1	0.94
Thickness of Unsaturated zone 1				20	0.01
17 0.00	15 0.00			10	0.01
Kd of C-14 in Contaminated Zone				10	0.05
9 0.05	9 0.01			11	0.01
Kd of C-14 in Unsaturated Zone 1				9	-0.05
6 -0.12	6 -0.02			9	-0.01
Kd of C-14 in Saturated Zone				13	-0.03
21 0.00	21 0.00			14	-0.01
Plant transfer factor for C				21	0.00
19 0.00	19 0.00			21	0.00
Meat transfer factor for C				14	0.02
18 0.00	18 0.00			15	0.00
Milk transfer factor for C				6	-0.07
7 -0.08	7 -0.02			6	-0.02
Fish transfer factor for C				18	0.01
8 0.08	8 0.01			19	0.00
Thickness of evasion layer of C-14 in soil				3	0.32
3 0.37	5 0.07			5	0.08
Well pumping rate				5	0.11
5 0.12	4 0.07			4	0.08
Irrigation				4	-0.14
4 -0.15	3 -0.09			3	-0.10
Well pump intake depth				7	-0.06
13 -0.03	13 -0.01			7	-0.01
R-SQUARE				0.95	0.95
0.97	0.97				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:22 Page: Coef 2
 Title : DCGL to Dose for C-14
 Input File : C-14.RAD

Coefficients for peak of mean dose time Dose
 Coefficient = PCC SRC

Depth of roots	1	-0.84	2	-0.30
1 -0.88 2 -0.30				
Wet weight crop yield of fruit, grain and non-leafy vegetables	19	-0.01	20	0.00
8 -0.06 10 -0.01				
Wet foliar interception fraction of leafy vegetables	15	-0.04	16	-0.01
14 -0.03 15 -0.01				
Weathering removal constant of all vegetation	11	-0.05	12	-0.01
13 -0.03 14 -0.01				
Mass loading for inhalation	10	-0.05	11	-0.01
5 -0.11 7 -0.02				
Thickness of contaminated zone	2	0.62	1	0.95
2 0.68 1 0.95				
Thickness of Unsaturated zone 1	17	0.02	7	0.02
18 0.02 8 0.02				
Kd of C-14 in Contaminated Zone	7	-0.07	9	-0.01
4 0.11 6 0.02				
Kd of C-14 in Unsaturated Zone 1	18	-0.01	18	0.00
21 0.00 21 0.00				
Kd of C-14 in Saturated Zone	12	-0.04	13	-0.01
9 -0.05 11 -0.01				
Plant transfer factor for C	9	-0.05	10	-0.01
19 0.02 19 0.00				
Meat transfer factor for C	5	-0.10	8	-0.02
17 -0.02 18 0.00				
Milk transfer factor for C	4	-0.11	6	-0.02
6 -0.08 9 -0.01				
Fish transfer factor for C	21	0.00	21	0.00
16 0.02 17 0.00				
Thickness of evasion layer of C-14 in soil	3	0.37	3	0.08
3 0.40 3 0.07				
Well pumping rate	8	-0.07	5	-0.04
10 -0.04 5 -0.02				
Irrigation	6	0.09	4	0.05
7 0.07 4 0.04				
Well pump intake depth	16	-0.02	17	0.00
12 -0.03 13 -0.01				
<hr/>				
R-SQUARE		0.96		0.96
0.97 0.97				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:22 Page: Coef 4
 Title : DCGL to Dose for C-14
 Input File : C-14.RAD

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0Number of Sample Runs: 900

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Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
10	THICK0	UNIFORM	.15 3
11	H(1)	UNIFORM	.01 2.85
12	UW	UNIFORM	957 1689
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	5.06 2.29 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.06 2.29 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.06 2.29 .001 .999
16	BRTF(25,1)	TRUNCATED LOGNORMAL-N	-1.2 .9 .001 .999
17	BRTF(25,2)	TRUNCATED LOGNORMAL-N	-6.91 .7 .001 .999
18	BRTF(25,3)	TRUNCATED LOGNORMAL-N	-8.11 .7 .001 .999
19	BBIO(25,1)	LOGNORMAL-N	6 1.1
20	RI	UNIFORM	.252 .618
iiiiii	iiiiii	iiiiii	iiiiii

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : MN-54.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.497E+01
2	0.000E+00	2.499E+01
3	0.000E+00	2.503E+01

1 RESRAD Regression and Correlation output 04/21/03 20:17 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						
	Repetition =			1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff							
Indoor dust filtration factor				17	-0.01	17	0.00
17	0.02	17	0.00				
External gamma shielding factor				1	0.99	1	0.97
1	0.97	1	0.95				
Well pump intake depth				6	0.08	9	0.01
14	-0.04	16	-0.01				
Depth of soil mixing layer				19	0.00	19	0.00
10	0.05	13	0.01				
Depth of roots				3	-0.37	4	-0.05
3	-0.26	5	-0.06				
Wet weight crop yield of fruit, grain and non-leafy vegetables				9	-0.07	11	-0.01
9	-0.05	12	-0.01				
Wet foliar interception fraction of leafy vegetables				10	-0.04	13	-0.01
19	-0.01	19	0.00				
Weathering removal constant of all vegetation				7	-0.07	10	-0.01
8	-0.06	11	-0.01				
Mass loading for inhalation				16	0.01	16	0.00
7	-0.07	10	-0.02				
Thickness of contaminated zone				8	0.07	3	0.06
4	0.11	3	0.18				
Thickness of Unsaturated zone 1				11	-0.03	5	-0.02
11	0.05	4	0.08				
Well pumping rate				15	0.01	12	0.01
15	-0.03	6	-0.02				
Kd of Mn-54 in Contaminated Zone				18	-0.01	18	0.00
6	-0.08	9	-0.02				
Kd of Mn-54 in Unsaturated Zone 1				5	-0.11	7	-0.01
5	-0.09	7	-0.02				
Kd of Mn-54 in Saturated Zone				13	0.02	14	0.00
12	0.04	14	0.01				
Plant transfer factor for Mn				2	0.87	2	0.21
2	0.64	2	0.19				
Meat transfer factor for Mn				20	0.00	20	0.00
13	-0.04	15	-0.01				
Milk transfer factor for Mn				14	-0.02	15	0.00
20	0.00	20	0.00				
Fish transfer factor for Mn				4	0.13	6	0.02
18	-0.01	18	0.00				
Irrigation				12	-0.02	8	-0.01
16	0.02	8	0.02				
R-SQUARE				0.99		0.99	
0.95	0.95						

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:17 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						

Repetition =				2	2
2	2				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				7	-0.08
17	0.01	17	0.00	8	-0.01
External gamma shielding factor				1	0.99
1	0.98	1	0.96	1	0.96
Well pump intake depth				8	0.07
16	0.01	16	0.00	10	0.01
Depth of soil mixing layer				10	0.04
19	0.00	19	0.00	12	0.00
Depth of roots				3	-0.44
3	-0.33	5	-0.06	4	-0.06
Wet weight crop yield of fruit, grain and non-leafy vegetables				17	-0.01
20	0.00	20	0.00	19	0.00
Wet foliar interception fraction of leafy vegetables				16	0.02
14	0.02	14	0.00	18	0.00
Weathering removal constant of all vegetation				4	-0.13
8	-0.09	9	-0.02	6	-0.01
Mass loading for inhalation				13	-0.03
7	-0.09	8	-0.02	13	0.00
Thickness of contaminated zone				5	0.12
4	0.17	2	0.22	3	0.10
Thickness of Unsaturated zone 1				12	0.03
5	0.11	4	0.14	5	0.03
Well pumping rate				18	-0.01
13	0.03	10	0.02	14	0.00
Kd of Mn-54 in Contaminated Zone				15	0.02
10	0.05	12	0.01	17	0.00
Kd of Mn-54 in Unsaturated Zone 1				14	-0.02
6	-0.10	7	-0.02	16	0.00
Kd of Mn-54 in Saturated Zone				11	0.04
18	-0.01	18	0.00	11	0.00
Plant transfer factor for Mn				2	0.89
2	0.70	3	0.18	2	0.22
Meat transfer factor for Mn				6	-0.10
15	-0.02	15	0.00	7	-0.01
Milk transfer factor for Mn				20	0.00
12	-0.03	13	-0.01	20	0.00
Fish transfer factor for Mn				9	-0.07
9	0.06	11	0.01	9	-0.01
Irrigation				19	-0.01
11	-0.04	6	-0.02	15	0.00
R-SQUARE				0.99	0.99
0.97	0.97				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:17 Page: Coef 3
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose						
	Coefficient =				PCC	SRC
PRCC	SRRC					
	Repetition =				3	3
3	3					
Description of Probabilistic Variable					Sig	Coeff
Sig Coeff Sig Coeff					Sig	Coeff
Indoor dust filtration factor					5	0.09
10	0.06	11	0.01	6	0.01	
External gamma shielding factor					1	1.00
1	0.98	1	0.96	1	0.96	
Well pump intake depth					6	0.08
9	0.06	10	0.01	7	0.01	
Depth of soil mixing layer					10	-0.04
14	-0.04	15	-0.01	11	0.00	
Depth of roots					3	-0.49
				4	-0.05	

3 -0.20	6 -0.04				
Wet weight crop yield of fruit, grain and non-leafy vegetables					
16 0.03	16 0.01	8	0.05	10	0.00
Wet foliar interception fraction of leafy vegetables					
15 -0.03	17 -0.01	12	-0.03	13	0.00
Weathering removal constant of all vegetation					
17 0.02	18 0.00	7	0.05	9	0.00
Mass loading for inhalation					
8 0.07	9 0.01	11	0.03	12	0.00
Thickness of contaminated zone					
7 0.07	3 0.10	4	0.14	3	0.08
Thickness of Unsaturated zone 1					
19 0.02	7 0.02	9	0.04	5	0.03
Well pumping rate					
5 -0.10	4 -0.07	18	-0.02	8	-0.01
Kd of Mn-54 in Contaminated Zone					
4 0.11	8 0.02	14	0.02	15	0.00
Kd of Mn-54 in Unsaturated Zone 1					
12 -0.05	13 -0.01	15	-0.02	16	0.00
Kd of Mn-54 in Saturated Zone					
20 0.00	20 0.00	17	-0.02	18	0.00
Plant transfer factor for Mn					
2 0.68	2 0.19	2	0.93	2	0.22
Meat transfer factor for Mn					
11 0.05	12 0.01	19	0.01	20	0.00
Milk transfer factor for Mn					
18 0.02	19 0.00	13	-0.03	14	0.00
Fish transfer factor for Mn					
13 -0.04	14 -0.01	16	-0.02	17	0.00
Irrigation					
6 0.08	5 0.06	20	0.00	19	0.00
<hr/>					
R-SQUARE					
0.96	0.96		0.99		0.99
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : FE-55.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.500E+01
2	0.000E+00	2.506E+01
3	0.000E+00	2.499E+01

1 RESRAD Regression and Correlation output 05/31/03 18:47 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : FE-55.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =			1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				13	-0.04
18	-0.01	18	0.00	15	-0.01
External gamma shielding factor				17	-0.02
11	-0.03	14	-0.01	18	0.00
Well pump intake depth				9	0.06
19	-0.01	19	0.00	12	0.02
Depth of soil mixing layer				8	-0.07
8	-0.07	10	-0.02	11	-0.02
Depth of roots				3	-0.28
3	-0.31	4	-0.10	4	-0.08
Wet weight crop yield of fruit, grain and non-leafy vegetables				10	-0.06
12	-0.03	15	-0.01	13	-0.02
Wet foliar interception fraction of leafy vegetables				14	-0.03
20	0.00	20	0.00	16	-0.01
Weathering removal constant of all vegetation				11	-0.05
6	-0.09	7	-0.03	14	-0.01
Mass loading for inhalation				20	0.00
15	-0.02	16	-0.01	20	0.00
Thickness of contaminated zone				7	0.09
5	0.10	3	0.22	3	0.17
Thickness of Unsaturated zone 1				18	-0.01
17	0.01	6	0.03	9	-0.02
Well pumping rate				15	0.03
13	0.02	8	0.03	7	0.03
Kd of Fe-55 in Contaminated Zone				19	-0.01
10	-0.05	13	-0.02	19	0.00
Kd of Fe-55 in Unsaturated Zone 1				5	-0.10
7	-0.08	9	-0.03	8	-0.03
Kd of Fe-55 in Saturated Zone				16	0.02
16	0.02	17	0.01	17	0.01
Plant transfer factor for Fe				2	0.82
2	0.67	2	0.29	2	0.38
Meat transfer factor for Fe				1	0.96
1	0.94	1	0.86	1	0.87
Milk transfer factor for Fe				4	0.26
4	0.24	5	0.08	5	0.07
Fish transfer factor for Fe				6	0.09
9	0.07	11	0.02	10	0.02
Irrigation				12	-0.04
14	-0.02	12	-0.02	6	-0.04
R-SQUARE				0.93	0.93
0.90	0.90				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 05/31/03 18:47 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : FE-55.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =				

2	Repetition = 2	2	2
Description of Probabilistic Variable Sig Coeff Sig Coeff		Sig Coeff	Sig Coeff
Indoor dust filtration factor		9 -0.06	10 -0.02
14 -0.04 15 -0.01			
External gamma shielding factor		8 -0.06	9 -0.02
9 0.10 11 0.03			
Well pump intake depth		13 0.03	14 0.01
17 -0.02 17 -0.01			
Depth of soil mixing layer		10 -0.04	11 -0.01
20 -0.01 20 0.00			
Depth of roots		3 -0.38	4 -0.11
3 -0.27 5 -0.10			
Wet weight crop yield of fruit, grain and non-leafy vegetables		18 0.01	19 0.00
15 0.03 16 0.01			
Wet foliar interception fraction of leafy vegetables		16 0.03	17 0.01
12 0.05 13 0.02			
Weathering removal constant of all vegetation		7 -0.11	8 -0.03
8 -0.10 10 -0.04			
Mass loading for inhalation		15 -0.03	16 -0.01
6 -0.12 8 -0.04			
Thickness of contaminated zone		5 0.12	3 0.22
5 0.15 2 0.36			
Thickness of Unsaturated zone 1		11 0.04	5 0.07
10 0.08 4 0.19			
Well pumping rate		19 0.01	18 0.01
16 0.02 12 0.03			
Kd of Fe-55 in Contaminated Zone		20 0.00	20 0.00
18 -0.02 18 -0.01			
Kd of Fe-55 in Unsaturated Zone 1		14 -0.03	15 -0.01
13 -0.04 14 -0.01			
Kd of Fe-55 in Saturated Zone		12 0.04	12 0.01
19 0.02 19 0.01			
Plant transfer factor for Fe		2 0.83	2 0.39
2 0.68 3 0.31			
Meat transfer factor for Fe		1 0.96	1 0.85
1 0.93 1 0.88			
Milk transfer factor for Fe		4 0.21	6 0.06
4 0.17 6 0.06			
Fish transfer factor for Fe		6 -0.11	7 -0.03
7 0.10 9 0.04			
Irrigation		17 -0.01	13 -0.01
11 -0.05 7 -0.05			
R-SQUARE		0.93	0.93
0.89 0.89			

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 05/31/03 18:47 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : FE-55.RAD

Coefficients for peak of mean dose time Dose		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	3	3
3	3		
Description of Probabilistic Variable Sig Coeff Sig Coeff		Sig Coeff	Sig Coeff
Indoor dust filtration factor		6 0.14	10 0.04
5 0.12 9 0.04			
External gamma shielding factor		11 0.06	12 0.02
8 0.10 11 0.03			
Well pump intake depth		18 0.01	18 0.00
12 0.06 14 0.02			
Depth of soil mixing layer		5 -0.15	9 -0.04
9 -0.10 12 -0.03			
Depth of roots		3 -0.34	5 -0.10

3 -0.31	4 -0.11				
Wet weight crop yield of fruit, grain and non-leafy vegetables					
19 -0.01	19	0.01	19	0.00	
Wet foliar interception fraction of leafy vegetables					
10 -0.10	13 -0.03				
Weathering removal constant of all vegetation					
13 0.06	15 0.02				
Mass loading for inhalation					
18 0.01	18 0.00				
Thickness of contaminated zone					
6 0.11	3 0.24				
Thickness of Unsaturated zone 1					
17 0.02	8 0.05				
Well pumping rate					
11 -0.09	5 -0.10				
Kd of Fe-55 in Contaminated Zone					
7 0.10	10 0.03				
Kd of Fe-55 in Unsaturated Zone 1					
15 0.04	16 0.01				
Kd of Fe-55 in Saturated Zone					
20 0.00	20 0.00				
Plant transfer factor for Fe					
2 0.70	2 0.32				
Meat transfer factor for Fe					
1 0.94	1 0.87				
Milk transfer factor for Fe					
4 0.22	6 0.07				
Fish transfer factor for Fe					
16 -0.03	17 -0.01				
Irrigation					
14 0.05	7 0.06				
<hr/>					
R-SQUARE					
0.90	0.90			0.92	0.92
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : NI-59.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.493E+01
2	0.000E+00	2.500E+01
3	0.000E+00	2.511E+01

1 RESRAD Regression and Correlation output 04/25/03 10:56 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						
	Repetition =			1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				7	0.03	9	0.02
19	-0.03	20	-0.01				
External gamma shielding factor				14	0.01	14	0.01
13	-0.03	16	-0.01				
Well pump intake depth				15	0.01	16	0.01
10	-0.04	13	-0.01				
Depth of soil mixing layer				18	-0.01	19	0.00
17	-0.03	19	-0.01				
Depth of roots				3	-0.30	4	-0.17
3	-0.63	4	-0.26				
Wet weight crop yield of fruit, grain and non-leafy vegetables				11	-0.02	11	-0.01
12	0.03	15	0.01				
Wet foliar interception fraction of leafy vegetables				13	0.02	13	0.01
8	-0.05	11	-0.01				
Weathering removal constant of all vegetation				16	-0.01	17	0.00
7	-0.05	10	-0.02				
Mass loading for inhalation				6	-0.03	8	-0.02
14	0.03	17	0.01				
Thickness of contaminated zone				5	0.05	3	0.20
4	0.16	3	0.34				
Thickness of Unsaturated zone 1				20	0.00	15	0.01
20	-0.01	7	-0.02				
Well pumping rate				8	-0.03	5	-0.06
18	0.03	6	0.03				
Kd of Ni-59 in Contaminated Zone				19	0.00	20	0.00
15	0.03	18	0.01				
Kd of Ni-59 in Unsaturated Zone 1				12	-0.02	12	-0.01
9	-0.04	12	-0.01				
Kd of Ni-59 in Saturated Zone				4	-0.08	7	-0.04
6	0.06	9	0.02				
Plant transfer factor for Ni				1	0.76	1	0.65
1	0.91	1	0.69				
Meat transfer factor for Ni				17	0.01	18	0.00
11	0.04	14	0.01				
Milk transfer factor for Ni				2	0.62	2	0.44
2	0.82	2	0.46				
Fish transfer factor for Ni				10	0.03	10	0.01
5	-0.07	8	-0.02				
Irrigation				9	0.03	6	0.06
16	-0.03	5	-0.03				
R-SQUARE				0.70		0.70	
0.90	0.90						

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/25/03 10:56 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						

Repetition =				2	2
2					
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				8	0.05
17	0.01	17	0.00	11	0.02
External gamma shielding factor				11	0.03
7	0.04	10	0.01	12	0.02
Well pump intake depth				7	0.05
19	0.00	19	0.00	10	0.03
Depth of soil mixing layer				19	0.00
6	-0.05	9	-0.02	19	0.00
Depth of roots				3	-0.33
3	-0.62	4	-0.26	4	-0.18
Wet weight crop yield of fruit, grain and non-leafy vegetables				20	0.00
11	0.02	13	0.01	20	0.00
Wet foliar interception fraction of leafy vegetables				16	-0.02
9	-0.03	12	-0.01	16	-0.01
Weathering removal constant of all vegetation				18	0.01
13	-0.02	14	-0.01	18	0.00
Mass loading for inhalation				6	-0.05
15	-0.02	15	-0.01	9	-0.03
Thickness of contaminated zone				5	0.09
4	0.13	3	0.31	3	0.30
Thickness of Unsaturated zone 1				14	0.02
12	-0.02	5	-0.05	5	0.08
Well pumping rate				10	0.03
14	-0.02	8	-0.02	7	0.06
Kd of Ni-59 in Contaminated Zone				15	0.02
20	0.00	20	0.00	15	0.01
Kd of Ni-59 in Unsaturated Zone 1				17	0.01
16	-0.02	16	-0.01	17	0.01
Kd of Ni-59 in Saturated Zone				12	0.03
8	-0.03	11	-0.01	13	0.01
Plant transfer factor for Ni				1	0.81
1	0.90	1	0.69	1	0.71
Meat transfer factor for Ni				4	0.11
5	0.07	7	0.02	8	0.05
Milk transfer factor for Ni				2	0.63
2	0.82	2	0.47	2	0.41
Fish transfer factor for Ni				13	-0.03
18	-0.01	18	0.00	14	-0.01
Irrigation				9	-0.04
10	0.03	6	0.03	6	-0.07
R-SQUARE				0.75	0.75
0.89	0.89				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/25/03 10:56 Page: Coef 3
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose											
Coefficient =				PCC			SRC				
PRCC				SRRC							
Repetition =				3			3				
3											
Description of Probabilistic Variable											
Sig Coeff				Sig Coeff		Sig Coeff		Sig Coeff			
Sig Coeff				Sig Coeff		Sig Coeff		Sig Coeff			
Indoor dust filtration factor				13		0.02		13		0.01	
14 0.02 15 0.01				18		0.00		20		0.00	
External gamma shielding factor				7		-0.05		10		-0.02	
7 -0.05 10 -0.02				4		-0.08		5		-0.04	
Well pump intake depth				12		-0.03		13		-0.01	
12 -0.03 13 -0.01				14		-0.02		14		-0.01	
Depth of soil mixing layer				15		-0.02		16		-0.01	
15 -0.02 16 -0.01				3		-0.33		4		-0.19	
Depth of roots											

3 -0.62	4 -0.27		
Wet weight crop yield of fruit, grain and non-leafy vegetables		15 -0.02	15 -0.01
18 -0.01	18 0.00		
Wet foliar interception fraction of leafy vegetables		12 0.03	12 0.01
13 0.02	14 0.01		
Weathering removal constant of all vegetation		8 -0.05	8 -0.03
17 0.01	17 0.00		
Mass loading for inhalation		17 0.00	19 0.00
19 0.01	19 0.00		
Thickness of contaminated zone		5 0.07	3 0.25
4 0.18	3 0.40		
Thickness of Unsaturated zone 1		19 0.00	17 0.01
16 0.01	7 0.03		
Well pumping rate		16 0.00	16 0.01
9 0.05	5 0.05		
Kd of Ni-59 in Contaminated Zone		6 0.05	6 0.03
11 0.03	12 0.01		
Kd of Ni-59 in Unsaturated Zone 1		10 0.04	10 0.02
20 0.01	20 0.00		
Kd of Ni-59 in Saturated Zone		7 -0.05	7 -0.03
8 0.05	11 0.02		
Plant transfer factor for Ni		1 0.79	1 0.69
1 0.89	1 0.66		
Meat transfer factor for Ni		9 0.04	9 0.02
6 0.08	9 0.03		
Milk transfer factor for Ni		2 0.57	2 0.37
2 0.81	2 0.47		
Fish transfer factor for Ni		11 -0.03	11 -0.02
5 0.08	8 0.03		
Irrigation		20 0.00	18 0.00
10 -0.04	6 -0.05		
<hr/>		<hr/>	<hr/>
R-SQUARE		0.72	0.72
0.89	0.89		
<hr/>		<hr/>	<hr/>

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Ni-63.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.494E+01
2	0.000E+00	2.501E+01
3	0.000E+00	2.512E+01

1 RESRAD Regression and Correlation output 04/29/03 19:39 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =			1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				7	0.03
17	-0.03	20	-0.01	9	0.02
External gamma shielding factor				14	0.01
13	-0.03	16	-0.01	14	0.01
Well pump intake depth				15	0.01
10	-0.04	13	-0.01	16	0.01
Depth of soil mixing layer				18	-0.01
16	-0.03	19	-0.01	19	0.00
Depth of roots				3	-0.30
3	-0.63	4	-0.26	4	-0.17
Wet weight crop yield of fruit, grain and non-leafy vegetables				12	-0.02
12	0.03	15	0.01	12	-0.01
Wet foliar interception fraction of leafy vegetables				13	0.02
8	-0.05	11	-0.01	13	0.01
Weathering removal constant of all vegetation				16	-0.01
7	-0.05	9	-0.02	17	0.00
Mass loading for inhalation				6	-0.03
14	0.03	17	0.01	8	-0.02
Thickness of contaminated zone				5	0.05
4	0.15	3	0.34	3	0.20
Well pumping rate				9	-0.03
19	0.01	10	0.02	6	-0.06
Thickness of Unsaturated zone 1				20	0.00
20	-0.01	5	-0.03	15	0.01
Kd of Ni-63 in Contaminated Zone				19	0.00
15	0.03	18	0.01	20	0.00
Kd of Ni-63 in Unsaturated Zone 1				11	-0.02
9	-0.04	12	-0.01	11	-0.01
Kd of Ni-63 in Saturated Zone				4	-0.08
6	0.06	8	0.02	7	-0.04
Plant transfer factor for Ni				1	0.76
1	0.91	1	0.69	1	0.65
Meat transfer factor for Ni				17	0.01
11	0.04	14	0.01	18	0.00
Milk transfer factor for Ni				2	0.62
2	0.82	2	0.46	2	0.44
Fish transfer factor for Ni				10	0.03
5	-0.07	6	-0.02	10	0.01
Irrigation				8	0.03
18	-0.02	7	-0.02	5	0.06
R-SQUARE				0.70	0.70
0.90	0.90				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/29/03 19:39 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =				

Repetition =				2	2
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				10	0.05
16	0.01	17	0.00	10	0.02
External gamma shielding factor				11	0.03
9	0.04	9	0.01	11	0.02
Well pump intake depth				9	0.05
19	0.00	19	0.00	9	0.03
Depth of soil mixing layer				18	0.00
6	-0.05	8	-0.02	18	0.00
Depth of roots				3	-0.33
3	-0.62	4	-0.26	4	-0.18
Wet weight crop yield of fruit, grain and non-leafy vegetables				20	0.00
12	0.02	12	0.01	20	0.00
Wet foliar interception fraction of leafy vegetables				16	-0.01
10	-0.04	10	-0.01	17	-0.01
Weathering removal constant of all vegetation				17	0.01
13	-0.02	14	-0.01	18	0.00
Mass loading for inhalation				8	-0.05
14	-0.02	15	-0.01	8	-0.03
Thickness of contaminated zone				5	0.06
4	0.16	3	0.35	3	0.20
Well pumping rate				6	0.06
7	-0.05	5	-0.06	5	0.10
Thickness of Unsaturated zone 1				19	0.00
18	0.00	13	-0.01	12	-0.02
Kd of Ni-63 in Contaminated Zone				14	0.02
20	0.00	20	0.00	15	0.01
Kd of Ni-63 in Unsaturated Zone 1				15	0.01
15	-0.02	16	-0.01	16	0.01
Kd of Ni-63 in Saturated Zone				12	0.03
11	-0.03	11	-0.01	13	0.02
Plant transfer factor for Ni				1	0.81
1	0.90	1	0.69	1	0.71
Meat transfer factor for Ni				4	0.11
5	0.07	7	0.02	7	0.05
Milk transfer factor for Ni				2	0.63
2	0.82	2	0.47	2	0.41
Fish transfer factor for Ni				13	-0.03
17	-0.01	18	0.00	14	-0.01
Irrigation				7	-0.06
8	0.05	6	0.05	6	-0.10
R-SQUARE				0.75	0.75
0.89	0.89				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/29/03 19:39 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose					
	Coefficient =			PCC	SRC
PRCC	SRRC				
	Repetition =			3	3
3	3				
Description of Probabilistic Variable				Sig	Coeff
Sig Coeff Sig Coeff					
Indoor dust filtration factor				13	0.02
14	0.02	14	0.01	16	0.01
External gamma shielding factor				20	0.00
8	-0.05	10	-0.02	20	0.00
Well pump intake depth				5	-0.08
11	-0.03	12	-0.01	6	-0.04
Depth of soil mixing layer				15	-0.02
15	-0.02	15	-0.01	17	-0.01
Depth of roots				3	-0.33
				4	-0.19

3 -0.62	4 -0.27		
Wet weight crop yield of fruit, grain and non-leafy vegetables		16 -0.02	18 -0.01
17 -0.01	17 0.00		
Wet foliar interception fraction of leafy vegetables		12 0.03	15 0.01
13 0.02	13 0.01		
Weathering removal constant of all vegetation		8 -0.05	11 -0.03
16 0.01	16 0.00		
Mass loading for inhalation		19 0.00	19 0.00
18 0.01	19 0.00		
Thickness of contaminated zone		4 0.09	3 0.31
4 0.16	3 0.38		
Well pumping rate		18 0.01	10 0.03
12 0.02	6 0.03		
Thickness of Unsaturated zone 1		14 0.02	5 0.07
20 0.00	18 0.00		
Kd of Ni-63 in Contaminated Zone		6 0.05	8 0.03
10 0.04	11 0.01		
Kd of Ni-63 in Unsaturated Zone 1		10 0.04	13 0.02
19 0.00	20 0.00		
Kd of Ni-63 in Saturated Zone		7 -0.05	9 -0.03
7 0.05	9 0.02		
Plant transfer factor for Ni		1 0.79	1 0.69
1 0.89	1 0.66		
Meat transfer factor for Ni		9 0.04	12 0.02
5 0.08	7 0.03		
Milk transfer factor for Ni		2 0.57	2 0.37
2 0.81	2 0.47		
Fish transfer factor for Ni		11 -0.03	14 -0.02
6 0.08	8 0.03		
Irrigation		17 -0.02	7 -0.03
9 -0.04	5 -0.04		
R-SQUARE		0.72	0.72
0.89	0.89		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET(2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H(1)	UNIFORM	.01 2.85
11	DCACTC(1)	TRUNCATED LOGNORMAL-N	5.46 2.53 .001 .999
12	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.46 2.53 .001 .999
13	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.46 2.53 .001 .999
14	BRTF(27,1)	TRUNCATED LOGNORMAL-N	-2.53 .9 .001 .999
15	BRTF(27,2)	TRUNCATED LOGNORMAL-N	-3.51 1 .001 .999
16	BRTF(27,3)	TRUNCATED LOGNORMAL-N	-6.21 .7 .001 .999
17	BBIO(27,1)	LOGNORMAL-N	5.7 1.1
18	UW	UNIFORM	957 1689
19	RI	UNIFORM	.252 .618
20	DWIBWT	TRIANGULAR	6 10 30
#####	#####	#####	#####

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	12	-0.02	13	0.00
9 -0.07 9 -0.02				
External gamma shielding factor	1	0.98	1	0.93
1 0.97 1 0.92				
Depth of soil mixing layer	16	0.02	17	0.00
18 0.01 20 0.00				
Depth of roots	4	-0.34	6	-0.07
3 -0.37 4 -0.10				
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	-0.02	14	0.00
14 0.03 16 0.01				
Wet foliar interception fraction of leafy vegetables	7	0.08	8	0.01
16 -0.01 19 0.00				
Weathering removal constant of all vegetation	18	-0.01	19	0.00
6 -0.09 7 -0.02				
Mass loading for inhalation	14	0.02	16	0.00
12 0.04 12 0.01				
Thickness of contaminated zone	6	0.15	3	0.18
20 0.00 18 0.00				
Thickness of Unsaturated zone 1	8	0.06	5	0.07
8 -0.07 3 -0.11				
Kd of Co-60 in Contaminated Zone	15	0.02	15	0.00
10 0.06 10 0.02				
Kd of Co-60 in Unsaturated Zone 1	17	0.02	18	0.00
15 0.02 17 0.01				
Kd of Co-60 in Saturated Zone	9	-0.05	9	-0.01
5 -0.13 6 -0.03				
Plant transfer factor for Co	2	0.84	2	0.28
2 0.66 2 0.22				
Meat transfer factor for Co	3	0.55	4	0.12
4 0.30 5 0.08				
Milk transfer factor for Co	5	0.19	7	0.04
11 -0.06 11 -0.01				
Fish transfer factor for Co	10	-0.05	10	-0.01
13 0.04 14 0.01				
Well pumping rate	19	-0.01	11	-0.01
19 0.01 15 0.01				
Irrigation	20	0.00	20	0.00
17 0.01 13 0.01				
Well pump intake depth	11	-0.03	12	-0.01
7 -0.09 8 -0.02				
R-SQUARE		0.97		0.97
0.94 0.94				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 16:56 Page: Coef 3
 Title : DCGL to Dose for Co-60
 Input File : Co-60.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		PCC	SRC	
	SRRC				
3	Repetition =		3	3	
	3				
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	
Sig Coeff Sig Coeff					
Indoor dust filtration factor	17	-0.02	17	0.00	
8 0.08 10 0.02					
External gamma shielding factor	1	0.98	1	0.91	
1 0.96 1 0.90					
Depth of soil mixing layer	8	-0.06	11	-0.01	
20 0.00 20 0.00					
Depth of roots	4	-0.35	6	-0.07	
4 -0.29 5 -0.08					
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.06	12	-0.01	
16 -0.02 17 -0.01					

Wet foliar interception fraction of leafy vegetables	20	0.00	20	0.00
13 0.03 15 0.01				
Weathering removal constant of all vegetation	10	-0.06	13	-0.01
18 0.00 19 0.00				
Mass loading for inhalation	7	-0.08	10	-0.01
14 0.02 16 0.01				
Thickness of contaminated zone	11	-0.05	5	-0.07
11 0.04 4 0.09				
Thickness of Unsaturated zone 1	6	-0.14	3	-0.18
15 -0.02 7 -0.04				
Kd of Co-60 in Contaminated Zone	18	0.02	18	0.00
6 0.11 8 0.03				
Kd of Co-60 in Unsaturated Zone 1	12	0.04	14	0.01
9 -0.05 12 -0.01				
Kd of Co-60 in Saturated Zone	19	0.01	19	0.00
7 0.09 9 0.03				
Plant transfer factor for Co	2	0.85	2	0.30
2 0.67 2 0.25				
Meat transfer factor for Co	3	0.47	4	0.10
3 0.39 3 0.12				
Milk transfer factor for Co	5	0.22	7	0.04
5 0.19 6 0.05				
Fish transfer factor for Co	16	0.03	16	0.00
10 0.05 13 0.01				
Well pumping rate	14	-0.03	9	-0.02
19 0.00 18 0.00				
Irrigation	13	0.04	8	0.03
17 0.02 11 0.02				
Well pump intake depth	15	0.03	15	0.00
12 0.03 14 0.01				
<hr/>				
R-SQUARE		0.97		0.97
0.92	0.92			

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

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0Number of Sample Runs: 900
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Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
10	THICK0	UNIFORM	.15 3
11	UW	UNIFORM	957 1689
12	H(1)	UNIFORM	.01 2.85
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	3.45 2.12 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	3.45 2.12 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	3.45 2.12 .001 .999
16	BRTF(38,1)	TRUNCATED LOGNORMAL-N	-1.2 1 .001 .999
17	BRTF(38,2)	TRUNCATED LOGNORMAL-N	-4.61 .4 .001 .999
18	BRTF(38,3)	TRUNCATED LOGNORMAL-N	-6.21 .5 .001 .999
19	BBIO(38,1)	LOGNORMAL-N	4.1 1.1
20	RI	UNIFORM	.252 .618
iiiiii	iiiiii	iiiiii	iiiiii

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Sr-90.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.484E+01
2	0.000E+00	2.501E+01
3	0.000E+00	2.587E+01

1 RESRAD Regression and Correlation output 04/24/03 16:33 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =			1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				17	0.01
7	0.08	7	0.03	19	0.01
External gamma shielding factor				10	-0.04
10	0.06	11	0.02	11	-0.02
Well pump intake depth				8	0.06
13	-0.05	14	-0.02	10	0.02
Depth of soil mixing layer				16	0.01
6	0.11	6	0.03	17	0.01
Depth of roots				2	-0.37
2	-0.64	3	-0.27	3	-0.16
Wet weight crop yield of fruit, grain and non-leafy vegetables				7	-0.08
8	-0.06	8	-0.02	8	-0.03
Wet foliar interception fraction of leafy vegetables				18	-0.01
9	-0.06	10	-0.02	20	0.00
Weathering removal constant of all vegetation				6	-0.08
11	0.05	12	0.02	9	-0.03
Mass loading for inhalation				15	0.01
18	-0.01	20	0.00	18	0.01
Thickness of contaminated zone				11	0.04
4	0.20	2	0.43	4	0.12
Well pumping rate				20	-0.01
20	0.00	19	0.00	15	-0.01
Thickness of Unsaturated zone 1				9	-0.06
17	0.01	9	0.02	2	-0.16
Kd of Sr-90 in Contaminated Zone				13	-0.03
15	-0.04	16	-0.01	13	-0.01
Kd of Sr-90 in Unsaturated Zone 1				3	-0.13
16	0.02	17	0.01	5	-0.06
Kd of Sr-90 in Saturated Zone				14	0.02
12	-0.05	13	-0.02	16	0.01
Plant transfer factor for Sr				1	0.90
1	0.93	1	0.80	1	0.84
Meat transfer factor for Sr				12	0.04
5	0.15	5	0.05	12	0.01
Milk transfer factor for Sr				4	0.11
3	0.21	4	0.07	7	0.04
Fish transfer factor for Sr				5	0.11
14	-0.04	15	-0.01	6	0.05
Irrigation				19	0.01
19	0.00	18	0.01	14	0.01
R-SQUARE				0.84	0.84
0.90	0.90				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 16:33 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =				

Repetition =		2	2
2			
Description of Probabilistic Variable		Sig	Coeff
Sig	Coeff	Sig	Coeff
Indoor dust filtration factor		10	-0.05
11	0.04 12 0.01	12	-0.02
External gamma shielding factor		9	-0.05
5	0.08 8 0.03	11	-0.02
Well pump intake depth		13	0.03
20	-0.01 20 0.00	14	0.01
Depth of soil mixing layer		20	-0.01
17	0.02 17 0.01	20	0.00
Depth of roots		2	-0.45
2	-0.65 3 -0.26	3	-0.20
Wet weight crop yield of fruit, grain and non-leafy vegetables		18	-0.02
16	0.02 16 0.01	18	-0.01
Wet foliar interception fraction of leafy vegetables		19	0.01
18	0.01 18 0.00	19	0.00
Weathering removal constant of all vegetation		3	-0.17
14	-0.03 14 -0.01	5	-0.07
Mass loading for inhalation		12	-0.04
10	-0.04 11 -0.01	13	-0.02
Thickness of contaminated zone		7	-0.07
3	0.22 2 0.47	4	-0.18
Well pumping rate		17	-0.02
9	-0.06 7 -0.06	10	-0.02
Thickness of Unsaturated zone 1		4	-0.15
12	0.04 4 0.07	2	-0.41
Kd of Sr-90 in Contaminated Zone		16	-0.02
19	0.01 19 0.00	17	-0.01
Kd of Sr-90 in Unsaturated Zone 1		14	-0.03
6	-0.08 9 -0.02	15	-0.01
Kd of Sr-90 in Saturated Zone		15	0.02
8	-0.06 10 -0.02	16	0.01
Plant transfer factor for Sr		1	0.91
1	0.94 1 0.82	1	0.87
Meat transfer factor for Sr		8	-0.07
13	0.03 13 0.01	9	-0.03
Milk transfer factor for Sr		5	0.08
4	0.21 6 0.06	7	0.03
Fish transfer factor for Sr		6	-0.08
15	0.03 15 0.01	8	-0.03
Irrigation		11	0.04
7	0.07 5 0.07	6	0.05
R-SQUARE		0.85	0.85
0.91	0.91		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 16:33 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =			PCC	SRC	
PRCC	SRRC				
Repetition =			3	3	
3	3				
Description of Probabilistic Variable			Sig	Coeff	
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor			8	0.08	
5	0.16	7	0.05	9	0.02
External gamma shielding factor			4	0.11	
19	0.01	19	0.00	5	0.03
Well pump intake depth			6	0.09	
9	-0.05	11	-0.01	7	0.03
Depth of soil mixing layer			11	-0.04	
15	-0.02	15	-0.01	13	-0.01
Depth of roots			2	-0.49	
			3	-0.17	

2 -0.70	3 -0.29				
Wet weight crop yield of fruit, grain and non-leafy vegetables		9	0.07	10	0.02
10 0.05	12 0.01				
Wet foliar interception fraction of leafy vegetables		15	-0.03	16	-0.01
20 0.00	20 0.00				
Weathering removal constant of all vegetation		12	0.04	14	0.01
12 0.04	13 0.01				
Mass loading for inhalation		18	0.01	19	0.00
16 -0.02	16 0.00				
Thickness of contaminated zone		5	0.10	2	0.19
4 0.23	2 0.46				
Well pumping rate		16	-0.02	11	-0.02
11 -0.04	8 -0.05				
Thickness of Unsaturated zone 1		19	0.00	17	0.01
13 0.03	6 0.06				
Kd of Sr-90 in Contaminated Zone		10	0.04	12	0.01
7 0.08	10 0.02				
Kd of Sr-90 in Unsaturated Zone 1		20	0.00	20	0.00
18 -0.01	18 0.00				
Kd of Sr-90 in Saturated Zone		13	-0.03	15	-0.01
17 0.01	17 0.00				
Plant transfer factor for Sr		1	0.95	1	0.91
1 0.94	1 0.82				
Meat transfer factor for Sr		7	0.09	8	0.03
6 0.10	9 0.03				
Milk transfer factor for Sr		3	0.18	4	0.06
3 0.27	4 0.08				
Fish transfer factor for Sr		17	-0.01	18	0.00
14 0.03	14 0.01				
Irrigation		14	0.03	6	0.03
8 0.06	5 0.06				
<hr/>					
R-SQUARE			0.91		0.91
0.92	0.92				
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : NB-94.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.497E+01
2	0.000E+00	2.501E+01
3	0.000E+00	2.500E+01

1 RESRAD Regression and Correlation output 04/21/03 21:10 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =			1	1
1	1				
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				6 -0.07	8 -0.01
18 -0.03	19 0.00				
External gamma shielding factor				1 0.99	1 0.99
1 1.00	1 1.00				
Well pump intake depth				3 0.10	5 0.01
4 0.09	7 0.01				
Depth of soil mixing layer				10 -0.03	13 0.00
11 -0.05	13 0.00				
Depth of roots				19 0.00	19 0.00
15 0.04	16 0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables				14 -0.02	17 0.00
16 -0.04	17 0.00				
Wet foliar interception fraction of leafy vegetables				5 -0.09	7 -0.01
7 -0.07	10 -0.01				
Weathering removal constant of all vegetation				18 0.00	18 0.00
20 0.00	20 0.00				
Mass loading for inhalation				13 0.02	16 0.00
12 -0.05	14 0.00				
Thickness of contaminated zone				9 0.03	2 0.03
6 0.08	2 0.05				
Thickness of Unsaturated zone 1				15 0.01	6 0.01
10 0.06	3 0.03				
Well pumping rate				17 -0.01	12 0.00
13 -0.05	6 -0.01				
Kd of Nb-94 in Contaminated Zone				20 0.00	20 0.00
2 0.25	4 0.02				
Kd of Nb-94 in Unsaturated Zone 1				7 0.04	9 0.00
9 -0.06	12 -0.01				
Kd of Nb-94 in Saturated Zone				11 -0.02	14 0.00
14 0.04	15 0.00				
Plant transfer factor for Nb				4 0.10	4 0.01
3 0.19	5 0.02				
Meat transfer factor for Nb				8 0.04	11 0.00
17 -0.03	18 0.00				
Milk transfer factor for Nb				2 -0.11	3 -0.01
8 -0.07	11 -0.01				
Fish transfer factor for Nb				12 0.02	15 0.00
5 -0.08	8 -0.01				
Irrigation				16 -0.01	10 0.00
19 0.02	9 0.01				
R-SQUARE				0.99	0.99
0.99	0.99				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:10 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =				

Repetition =				2	2
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				7	-0.05
16	-0.02	16	0.00	9	0.00
External gamma shielding factor				1	1.00
1	1.00	1	1.00	1	1.00
Well pump intake depth				3	0.08
4	0.11	8	0.01	7	0.01
Depth of soil mixing layer				4	0.07
11	0.04	11	0.00	8	0.01
Depth of roots				19	0.00
19	0.00	19	0.00	19	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables				16	0.01
18	0.01	18	0.00	16	0.00
Wet foliar interception fraction of leafy vegetables				14	0.02
15	0.02	15	0.00	14	0.00
Weathering removal constant of all vegetation				13	0.02
20	0.00	20	0.00	13	0.00
Mass loading for inhalation				17	0.01
14	0.02	14	0.00	17	0.00
Thickness of contaminated zone				5	0.05
5	0.11	2	0.06	2	0.03
Thickness of Unsaturated zone 1				11	0.03
6	0.09	3	0.05	3	0.02
Well pumping rate				9	-0.04
8	-0.07	6	-0.02	6	-0.01
Kd of Nb-94 in Contaminated Zone				8	0.05
2	0.33	4	0.03	10	0.00
Kd of Nb-94 in Unsaturated Zone 1				12	0.02
9	0.05	9	0.00	12	0.00
Kd of Nb-94 in Saturated Zone				10	0.04
10	0.04	10	0.00	11	0.00
Plant transfer factor for Nb				2	0.19
3	0.13	7	0.01	4	0.02
Meat transfer factor for Nb				15	0.01
17	-0.02	17	0.00	15	0.00
Milk transfer factor for Nb				18	0.00
12	-0.03	12	0.00	18	0.00
Fish transfer factor for Nb				20	0.00
13	0.03	13	0.00	20	0.00
Irrigation				6	0.05
7	0.08	5	0.02	5	0.02
R-SQUARE				0.99	0.99
0.99	0.99				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:10 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose									
Coefficient =						PCC	SRC		
PRCC	SRRC								
Repetition =						3	3		
3	3								
Description of Probabilistic Variable						Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff									
Indoor dust filtration factor						14	0.02	16	0.00
10	0.04	12	0.00						
External gamma shielding factor						1	1.00	1	1.00
1	0.99	1	0.99						
Well pump intake depth						7	0.05	9	0.00
7	0.07	8	0.01						
Depth of soil mixing layer						4	-0.08	4	-0.01
6	-0.08	7	-0.01						
Depth of roots						8	-0.05	10	0.00

15 -0.02	17	0.00			
Wet weight crop yield of fruit, grain and non-leafy vegetables			16 -0.01	17	0.00
20 0.00	20	0.00			
Wet foliar interception fraction of leafy vegetables			6 -0.06	8	-0.01
5 -0.09	6	-0.01			
Weathering removal constant of all vegetation			3 0.09	3	0.01
4 0.12	5	0.01			
Mass loading for inhalation			12 0.02	15	0.00
17 0.01	19	0.00			
Thickness of contaminated zone			18 0.00	12	0.00
14 0.02	3	0.02			
Thickness of Unsaturated zone 1			15 -0.01	5	-0.01
18 0.00	15	0.00			
Well pumping rate			20 0.00	18	0.00
16 -0.01	11	-0.01			
Kd of Nb-94 in Contaminated Zone			11 0.02	14	0.00
2 0.29	2	0.03			
Kd of Nb-94 in Unsaturated Zone 1			17 -0.01	19	0.00
11 -0.04	13	0.00			
Kd of Nb-94 in Saturated Zone			19 0.00	20	0.00
8 0.06	9	0.01			
Plant transfer factor for Nb			2 0.18	2	0.02
12 0.04	14	0.00			
Meat transfer factor for Nb			9 0.03	11	0.00
13 -0.02	16	0.00			
Milk transfer factor for Nb			5 -0.07	7	-0.01
3 -0.12	4	-0.01			
Fish transfer factor for Nb			10 -0.03	13	0.00
9 -0.06	10	-0.01			
Irrigation			13 -0.02	6	-0.01
19 0.00	18	0.00			
<hr/>			<hr/>		
R-SQUARE			0.99		0.99
0.99		0.99			
<hr/>			<hr/>		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Tc-99.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.498E+01
2	0.000E+00	2.500E+01
3	0.000E+00	2.596E+01

1 RESRAD Regression and Correlation output 04/24/03 17:40 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose						PCC		SRC	
PRCC	Coefficient =								
	SRRC								
	Repetition =					1		1	
1	1								
Description of Probabilistic Variable						Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff									
Indoor dust filtration factor						14	0.03	15	0.01
7	0.07	9	0.02						
External gamma shielding factor						11	-0.04	11	-0.02
20	0.00	20	0.00						
Well pump intake depth						9	0.05	10	0.02
15	-0.02	17	-0.01						
Depth of soil mixing layer						15	0.01	17	0.01
6	0.07	7	0.03						
Depth of roots						2	-0.38	3	-0.17
2	-0.58	3	-0.26						
Wet weight crop yield of fruit, grain and non-leafy vegetables						5	-0.08	7	-0.03
8	-0.06	10	-0.02						
Wet foliar interception fraction of leafy vegetables						20	0.00	20	0.00
17	-0.02	18	-0.01						
Weathering removal constant of all vegetation						8	-0.06	9	-0.03
10	0.05	13	0.02						
Mass loading for inhalation						12	0.04	12	0.02
19	-0.01	19	0.00						
Thickness of contaminated zone						7	0.07	2	0.20
4	0.21	2	0.53						
Well pumping rate						17	-0.01	13	-0.02
14	-0.02	8	-0.02						
Thickness of Unsaturated zone 1						10	-0.05	4	-0.14
18	0.01	6	0.03						
Kd of Tc-99 in Contaminated Zone						16	0.01	18	0.01
3	0.25	4	0.09						
Kd of Tc-99 in Unsaturated Zone 1						3	-0.19	5	-0.09
13	0.02	16	0.01						
Kd of Tc-99 in Saturated Zone						13	0.03	14	0.01
9	-0.06	11	-0.02						
Plant transfer factor for Tc						1	0.88	1	0.80
1	0.89	1	0.72						
Meat transfer factor for Tc						19	0.00	19	0.00
11	0.05	14	0.02						
Milk transfer factor for Tc						4	0.14	6	0.06
5	0.18	5	0.07						
Fish transfer factor for Tc						6	0.08	8	0.03
12	-0.03	15	-0.01						
Irrigation						18	0.01	16	0.01
16	0.02	12	0.02						
R-SQUARE						0.82		0.82	
0.87	0.87								

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 17:40 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose						PCC		SRC	
PRCC	Coefficient =								
	SRRC								

Repetition =				2	2
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				7	-0.09
14	0.05	15	0.02	8	-0.04
External gamma shielding factor				12	-0.04
11	0.07	13	0.02	13	-0.02
Well pump intake depth				14	0.03
18	-0.02	18	-0.01	15	0.01
Depth of soil mixing layer				15	0.03
16	0.02	17	0.01	16	0.01
Depth of roots				2	-0.46
2	-0.61	3	-0.27	3	-0.22
Wet weight crop yield of fruit, grain and non-leafy vegetables				18	0.01
20	0.00	20	0.00	19	0.00
Wet foliar interception fraction of leafy vegetables				17	-0.02
19	-0.01	19	0.00	17	-0.01
Weathering removal constant of all vegetation				3	-0.18
10	-0.07	12	-0.02	5	-0.08
Mass loading for inhalation				10	-0.05
13	-0.05	14	-0.02	12	-0.02
Thickness of contaminated zone				11	-0.04
4	0.21	2	0.51	4	-0.11
Well pumping rate				16	0.02
12	-0.06	6	-0.07	10	0.03
Thickness of Unsaturated zone 1				4	-0.15
17	0.02	8	0.04	2	-0.42
Kd of Tc-99 in Contaminated Zone				13	0.03
3	0.30	4	0.11	14	0.01
Kd of Tc-99 in Unsaturated Zone 1				9	-0.06
7	-0.07	10	-0.02	11	-0.03
Kd of Tc-99 in Saturated Zone				19	0.00
9	-0.07	11	-0.02	20	0.00
Plant transfer factor for Tc				1	0.89
1	0.91	1	0.75	1	0.83
Meat transfer factor for Tc				5	-0.12
6	-0.08	9	-0.03	6	-0.05
Milk transfer factor for Tc				6	0.09
5	0.14	7	0.05	7	0.04
Fish transfer factor for Tc				8	-0.08
15	0.05	16	0.02	9	-0.03
Irrigation				20	0.00
8	0.07	5	0.08	18	0.00
R-SQUARE				0.83	0.83
0.88	0.88				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 17:40 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose						
Coefficient =					PCC	SRC
PRCC	SRRC					
Repetition =					3	3
3	3					
Description of Probabilistic Variable					Sig	Coeff
Sig Coeff Sig Coeff					Sig	Coeff
Indoor dust filtration factor					9	0.05
6	0.14	6	0.05	11	0.02	
External gamma shielding factor					5	0.09
9	0.04	11	0.01	7	0.03	
Well pump intake depth					4	0.13
10	-0.04	12	-0.01	6	0.04	
Depth of soil mixing layer					12	-0.04
15	-0.02	17	-0.01	14	-0.01	
Depth of roots					2	-0.46
				2	-0.18	

2 -0.66	3 -0.29				
Wet weight crop yield of fruit, grain and non-leafy vegetables		7	0.07	9	0.02
8 0.05	10 0.02				
Wet foliar interception fraction of leafy vegetables		10	-0.04	13	-0.02
18 0.01	19 0.00				
Weathering removal constant of all vegetation		13	0.03	15	0.01
7 0.05	9 0.02				
Mass loading for inhalation		18	-0.01	18	0.00
12 -0.03	15 -0.01				
Thickness of contaminated zone		6	0.07	3	0.15
5 0.23	2 0.51				
Well pumping rate		15	0.02	8	0.03
19 -0.01	14 -0.01				
Thickness of Unsaturated zone 1		11	-0.04	4	-0.09
14 0.02	7 0.04				
Kd of Tc-99 in Contaminated Zone		8	0.05	10	0.02
3 0.32	4 0.11				
Kd of Tc-99 in Unsaturated Zone 1		20	0.00	20	0.00
20 0.01	20 0.00				
Kd of Tc-99 in Saturated Zone		14	-0.03	16	-0.01
17 -0.01	18 0.00				
Plant transfer factor for Tc		1	0.93	1	0.87
1 0.92	1 0.76				
Meat transfer factor for Tc		19	0.01	19	0.00
13 0.02	16 0.01				
Milk transfer factor for Tc		3	0.23	5	0.08
4 0.23	5 0.08				
Fish transfer factor for Tc		16	-0.02	17	-0.01
11 0.03	13 0.01				
Irrigation		17	-0.01	12	-0.02
16 0.02	8 0.02				
<hr/>					
R-SQUARE			0.89		0.89
0.89	0.89				
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET(2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H(1)	UNIFORM	.01 2.85
11	UW	UNIFORM	957 1689
12	DCACTC(1)	TRUNCATED LOGNORMAL-N	7.37 3.13 .001 .999
13	DCACTU1(1)	TRUNCATED LOGNORMAL-N	7.37 3.13 .001 .999
14	DCACTS(1)	TRUNCATED LOGNORMAL-N	7.37 3.13 .001 .999
15	BRTF(44,1)	TRUNCATED LOGNORMAL-N	-3.51 .9 .001 .999
16	BRTF(44,2)	TRUNCATED LOGNORMAL-N	-6.21 .9 .001 .999
17	BRTF(44,3)	TRUNCATED LOGNORMAL-N	-10.82 .6 .001 .999
18	BBIO(44,1)	LOGNORMAL-N	3 1.1
19	RI	UNIFORM	.252 .618
20	DWIBWT	TRIANGULAR	6 10 30
iiiiiii	iiiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiiii

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 20:52 Page 22
 Probabilistic results summary : DCGL to Dose for Ru106 File: Ru-106.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 0.000E+00 2.500E+01
 0.000E+00 2.502E+01
 0.000E+00 2.493E+01
 1 RESRAD Regression and Correlation output 04/21/03 20:54 Page: Coef 1
 Title : DCGL to Dose for Ru106
 Input File : Ru-106.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC				
Repetition =				1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				7	-0.07
8	-0.07	9	-0.03	11	-0.02
External gamma shielding factor				1	0.92
1	0.89	1	0.75	1	0.71
Depth of soil mixing layer				19	-0.02
10	-0.04	11	-0.02	19	-0.01
Depth of roots				3	-0.48
3	-0.38	4	-0.16	3	-0.16
Wet weight crop yield of fruit, grain and non-leafy vegetables				12	0.05
18	0.00	18	0.00	14	0.01
Wet foliar interception fraction of leafy vegetables				18	0.03
14	-0.03	14	-0.01	18	0.01
Weathering removal constant of all vegetation				17	-0.03
11	-0.04	12	-0.02	17	-0.01
Mass loading for inhalation				16	0.04
12	0.03	13	0.01	16	0.01
Thickness of contaminated zone				8	0.07
4	0.12	3	0.31	4	0.13
Thickness of Unsaturated zone 1				15	-0.04
13	0.03	5	0.08	5	-0.08
Well pumping rate				13	0.04
16	-0.01	15	-0.01	7	0.05
Kd of Ru-106 in Contaminated Zone				5	0.09
15	-0.02	16	-0.01	9	0.03
Kd of Ru-106 in Unsaturated Zone 1				20	0.00
17	0.01	17	0.00	20	0.00
Kd of Ru-106 in Saturated Zone				6	0.08
5	-0.11	6	-0.04	10	0.02
Plant transfer factor for Ru				2	0.89
2	0.79	2	0.48	2	0.59
Meat transfer factor for Ru				4	0.10
9	0.06	10	0.02	8	0.03
Milk transfer factor for Ru				9	-0.06
6	-0.08	7	-0.03	12	-0.02
Fish transfer factor for Ru				14	-0.04
7	-0.08	8	-0.03	15	-0.01
Irrigation				11	-0.05
20	0.00	20	0.00	6	-0.05
Well pump intake depth				10	-0.05
19	0.00	19	0.00	13	-0.02
R-SQUARE				0.92	0.92
0.86	0.86				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:54 Page: Coef 2
 Title : DCGL to Dose for Ru106
 Input File : Ru-106.RAD

Coefficients for peak of mean dose time Dose					
	Coefficient	=		PCC	SRC
PRCC	SRRC				
	Repetition	=		2	2

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	5	-0.12	7	-0.03
7 -0.13 10 -0.05				
External gamma shielding factor	1	0.92	1	0.67
1 0.91 1 0.77				
Depth of soil mixing layer	8	-0.09	8	-0.03
4 -0.15 8 -0.05				
Depth of roots	3	-0.48	4	-0.16
3 -0.42 4 -0.17				
Wet weight crop yield of fruit, grain and non-leafy vegetables	20	0.00	20	0.00
10 0.08 12 0.03				
Wet foliar interception fraction of leafy vegetables	10	0.05	11	0.01
16 0.05 17 0.02				
Weathering removal constant of all vegetation	15	0.02	16	0.01
12 -0.07 14 -0.03				
Mass loading for inhalation	19	-0.01	19	0.00
19 0.01 19 0.01				
Thickness of contaminated zone	6	0.12	3	0.22
15 0.06 6 0.14				
Thickness of Unsaturated zone 1	17	0.01	9	0.02
18 -0.03 7 -0.08				
Well pumping rate	4	-0.13	5	-0.13
5 -0.14 3 -0.18				
Kd of Ru-106 in Contaminated Zone	11	-0.04	12	-0.01
13 0.07 15 0.02				
Kd of Ru-106 in Unsaturated Zone 1	16	-0.01	17	0.00
20 -0.01 20 0.00				
Kd of Ru-106 in Saturated Zone	14	-0.03	15	-0.01
6 -0.14 9 -0.05				
Plant transfer factor for Ru	2	0.91	2	0.65
2 0.77 2 0.43				
Meat transfer factor for Ru	12	0.03	13	0.01
11 -0.08 13 -0.03				
Milk transfer factor for Ru	18	0.01	18	0.00
14 0.06 16 0.02				
Fish transfer factor for Ru	13	0.03	14	0.01
17 0.04 18 0.02				
Irrigation	7	0.10	6	0.10
8 0.11 5 0.14				
Well pump intake depth	9	-0.07	10	-0.02
9 -0.10 11 -0.04				
R-SQUARE		0.92		0.92
0.87 0.87				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:54 Page: Coef 3
 Title : DCGL to Dose for Ru106
 Input File : Ru-106.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		PCC	SRC	
	SRRC				
3	Repetition =		3	3	
	3				
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	
Sig Coeff Sig Coeff					
Indoor dust filtration factor	12	-0.04	13	-0.01	
11 0.09 13 0.03					
External gamma shielding factor	1	0.91	1	0.74	
1 0.92 1 0.76					
Depth of soil mixing layer	10	0.06	11	0.02	
15 0.07 16 0.02					
Depth of roots	3	-0.41	4	-0.15	
3 -0.47 4 -0.17					
Wet weight crop yield of fruit, grain and non-leafy vegetables	6	-0.10	7	-0.03	
16 0.06 17 0.02					

Wet foliar interception fraction of leafy vegetables	9	0.07	9	0.02
6 0.14 9 0.05				
Weathering removal constant of all vegetation	17	0.01	18	0.00
10 -0.09 12 -0.03				
Mass loading for inhalation	14	0.02	17	0.01
20 -0.01 20 0.00				
Thickness of contaminated zone	18	0.00	16	0.01
5 0.14 3 0.32				
Thickness of Unsaturated zone 1	7	-0.10	3	-0.22
17 0.05 6 0.12				
Well pumping rate	16	-0.01	14	-0.01
8 0.11 5 0.12				
Kd of Ru-106 in Contaminated Zone	8	0.08	8	0.03
19 -0.02 19 -0.01				
Kd of Ru-106 in Unsaturated Zone 1	11	0.05	12	0.02
7 0.11 10 0.03				
Kd of Ru-106 in Saturated Zone	13	-0.02	15	-0.01
9 0.10 11 0.03				
Plant transfer factor for Ru	2	0.84	2	0.52
2 0.82 2 0.47				
Meat transfer factor for Ru	5	0.11	6	0.04
4 0.21 8 0.07				
Milk transfer factor for Ru	4	-0.15	5	-0.05
14 -0.07 15 -0.02				
Fish transfer factor for Ru	20	0.00	20	0.00
13 -0.07 14 -0.02				
Irrigation	15	0.02	10	0.02
12 -0.07 7 -0.08				
Well pump intake depth	19	0.00	19	0.00
18 0.05 18 0.02				
<hr/>				
R-SQUARE		0.89		0.89
0.90 0.90				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

```
0Number of Sample Runs: 900
```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
10	DCACTC(1)	TRUNCATED LOGNORMAL-N	5.38 2.1 .001 .999
11	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.38 2.1 .001 .999
12	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.38 2.1 .001 .999
13	BRTF(47,1)	TRUNCATED LOGNORMAL-N	-5.52 .9 .001 .999
14	BRTF(47,2)	TRUNCATED LOGNORMAL-N	-6.21 .7 .001 .999
15	BRTF(47,3)	TRUNCATED LOGNORMAL-N	-5.12 .7 .001 .999
16	BBIO(47,1)	LOGNORMAL-N	1.6 1.1
17	THICK0	UNIFORM	.15 3
18	H(1)	UNIFORM	.01 2.85
19	UW	UNIFORM	957 1689
20	RI	UNIFORM	.252 .618
iiiiii	iiiiiiiii	iiiiiiiii	iiiiiiiii

1RESRAD, Version 6.21 T< Limit = 0.5 year 06/03/2003 22:07 Page 22
 Probabilistic results summary : DCGL to Dose for Ag108m File: Ag-108m.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.500E+01
 2 0.000E+00 2.498E+01
 3 0.000E+00 2.500E+01
 1 RESRAD Regression and Correlation output 06/03/03 22:12 Page: Coef 1
 Title : DCGL to Dose for Ag108m
 Input File : Ag-108m.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC	Repetition =		1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				16	-0.01
6	-0.08	7	0.00		
External gamma shielding factor				1	1.00
1	1.00	1	1.00		
Well pump intake depth				4	-0.11
7	-0.08	8	0.00		
Depth of soil mixing layer				15	-0.02
18	-0.01	19	0.00		
Depth of roots				11	-0.06
11	-0.03	15	0.00		
Wet weight crop yield of fruit, grain and non-leafy vegetables				20	0.00
20	0.00	20	0.00		
Wet foliar interception fraction of leafy vegetables				14	0.04
8	-0.06	10	0.00		
Weathering removal constant of all vegetation				12	0.05
10	0.04	14	0.00		
Mass loading for inhalation				10	-0.07
17	-0.01	18	0.00		
Kd of Ag-108m in Contaminated Zone				9	0.08
2	0.30	2	0.01		
Kd of Ag-108m in Unsaturated Zone 1				6	0.09
12	0.02	16	0.00		
Kd of Ag-108m in Saturated Zone				13	0.04
16	-0.01	17	0.00		
Plant transfer factor for Ag				2	0.34
4	0.20	4	0.00		
Meat transfer factor for Ag				19	0.00
9	-0.05	12	0.00		
Milk transfer factor for Ag				3	0.24
3	0.23	3	0.01		
Fish transfer factor for Ag				5	-0.10
5	-0.11	6	0.00		
Thickness of contaminated zone				18	0.01
14	0.02	5	0.00		
Thickness of Unsaturated zone 1				17	0.01
19	0.01	13	0.00		
Well pumping rate				7	0.09
13	0.02	9	0.00		
Irrigation				8	-0.08
15	-0.02	11	0.00		
R-SQUARE				1.00	1.00
1.00	1.00				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 06/03/03 22:12 Page: Coef 2
 Title : DCGL to Dose for Ag108m
 Input File : Ag-108m.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC	Repetition =		2	2

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	4	-0.09	8	0.00
6 -0.09 8 -0.01				
External gamma shielding factor	1	1.00	1	1.00
1 1.00 1 1.00				
Well pump intake depth	6	0.08	10	0.00
7 0.08 9 0.00				
Depth of soil mixing layer	5	0.08	9	0.00
5 0.09 7 0.01				
Depth of roots	17	0.03	17	0.00
11 0.04 13 0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.04	16	0.00
13 -0.03 15 0.00				
Wet foliar interception fraction of leafy vegetables	7	0.08	11	0.00
4 0.13 6 0.01				
Weathering removal constant of all vegetation	3	0.10	7	0.00
8 0.07 10 0.00				
Mass loading for inhalation	19	-0.02	19	0.00
9 -0.05 12 0.00				
Kd of Ag-108m in Contaminated Zone	13	0.05	15	0.00
2 0.21 3 0.01				
Kd of Ag-108m in Unsaturated Zone 1	20	0.02	20	0.00
18 -0.01 18 0.00				
Kd of Ag-108m in Saturated Zone	9	0.07	12	0.00
19 -0.01 20 0.00				
Plant transfer factor for Ag	2	0.19	5	0.01
3 0.15 5 0.01				
Meat transfer factor for Ag	11	0.06	13	0.00
15 0.03 16 0.00				
Milk transfer factor for Ag	18	0.03	18	0.00
16 -0.03 17 0.00				
Fish transfer factor for Ag	12	0.05	14	0.00
12 0.04 14 0.00				
Thickness of contaminated zone	15	-0.05	3	-0.02
14 -0.03 4 -0.01				
Thickness of Unsaturated zone 1	10	-0.06	2	-0.02
10 -0.04 2 -0.02				
Well pumping rate	8	-0.08	4	-0.01
17 -0.02 11 0.00				
Irrigation	14	0.05	6	0.01
20 0.00 19 0.00				
R-SQUARE		1.00		1.00
1.00 1.00				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 06/03/03 22:12 Page: Coef 3
 Title : DCGL to Dose for Ag108m
 Input File : Ag-108m.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		PCC	SRC	
	SRRC				
3	Repetition =		3	3	
	3				
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	
Sig Coeff Sig Coeff					
Indoor dust filtration factor	4	0.10	4	0.00	
8 0.10 10 0.00					
External gamma shielding factor	1	1.00	1	1.00	
1 1.00 1 1.00					
Well pump intake depth	7	-0.05	7	0.00	
11 0.06 13 0.00					
Depth of soil mixing layer	18	0.00	20	0.00	
15 -0.03 15 0.00					
Depth of roots	9	-0.04	10	0.00	
16 -0.03 16 0.00					

Wet weight crop yield of fruit, grain and non-leafy vegetables	11	0.02	12	0.00
10 -0.06 12 0.00				
Wet foliar interception fraction of leafy vegetables	6	-0.06	6	0.00
9 -0.10 11 0.00				
Weathering removal constant of all vegetation	13	-0.01	16	0.00
12 -0.06 14 0.00				
Mass loading for inhalation	10	0.04	11	0.00
20 0.00 20 0.00				
Kd of Ag-108m in Contaminated Zone	5	0.07	5	0.00
3 0.36 4 0.01				
Kd of Ag-108m in Unsaturated Zone 1	12	0.01	14	0.00
19 0.00 19 0.00				
Kd of Ag-108m in Saturated Zone	17	0.00	19	0.00
6 -0.11 9 0.00				
Plant transfer factor for Ag	2	0.38	2	0.01
2 0.37 3 0.01				
Meat transfer factor for Ag	8	0.05	8	0.00
17 0.02 17 0.00				
Milk transfer factor for Ag	3	0.34	3	0.01
4 0.31 7 0.01				
Fish transfer factor for Ag	15	0.00	18	0.00
18 0.02 18 0.00				
Thickness of contaminated zone	14	-0.01	9	0.00
14 0.05 8 0.01				
Thickness of Unsaturated zone 1	20	0.00	15	0.00
13 0.06 6 0.01				
Well pumping rate	19	0.00	17	0.00
7 -0.11 5 -0.01				
Irrigation	16	0.00	13	0.00
5 0.11 2 0.01				

R-SQUARE	1.00	1.00
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

```

0Number of Sample Runs:  900

```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
10	THICK0	UNIFORM	.15 3
11	UW	UNIFORM	957 1689
12	H(1)	UNIFORM	.01 2.85
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	5.94 3.22 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.94 3.22 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.94 3.22 .001 .999
16	BRTF(51,1)	TRUNCATED LOGNORMAL-N	-4.61 1 .001 .999
17	BRTF(51,2)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
18	BRTF(51,3)	TRUNCATED LOGNORMAL-N	-9.72 .9 .001 .999
19	BBIO(51,1)	LOGNORMAL-N	4.6 1.1
20	RI	UNIFORM	.252 .618
iiiiii	iiiiii	iiiiii	iiiiii

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Sb-125.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.497E+01
2	0.000E+00	2.501E+01
3	0.000E+00	2.500E+01

1 RESRAD Regression and Correlation output 04/24/03 17:58 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sb-125.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =				
1	1			1	1
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				7 -0.08	8 -0.01
15 -0.03	16 0.00				
External gamma shielding factor				1 0.99	1 0.99
1 1.00	1 1.00				
Well pump intake depth				4 0.11	6 0.01
4 0.09	6 0.01				
Depth of soil mixing layer				12 -0.03	14 0.00
12 -0.04	14 0.00				
Depth of roots				15 -0.02	17 0.00
20 0.00	20 0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables				17 -0.01	18 0.00
13 -0.04	15 0.00				
Wet foliar interception fraction of leafy vegetables				5 -0.09	7 -0.01
7 -0.07	9 -0.01				
Weathering removal constant of all vegetation				19 -0.01	19 0.00
16 -0.02	17 0.00				
Mass loading for inhalation				13 0.02	15 0.00
11 -0.05	13 0.00				
Thickness of contaminated zone				8 -0.06	3 -0.04
14 -0.03	4 -0.02				
Well pumping rate				16 -0.02	9 -0.01
19 0.00	19 0.00				
Thickness of Unsaturated zone 1				6 -0.08	2 -0.06
8 -0.06	2 -0.03				
Kd of Sb-125 in Contaminated Zone				20 -0.01	20 0.00
3 0.21	5 0.02				
Kd of Sb-125 in Unsaturated Zone 1				10 0.03	12 0.00
6 -0.08	8 -0.01				
Kd of Sb-125 in Saturated Zone				14 -0.02	16 0.00
10 0.06	11 0.00				
Plant transfer factor for Sb				2 0.19	4 0.02
2 0.29	3 0.03				
Meat transfer factor for Sb				9 0.05	10 0.01
17 -0.02	18 0.00				
Milk transfer factor for Sb				3 -0.11	5 -0.01
5 -0.08	7 -0.01				
Fish transfer factor for Sb				11 0.03	13 0.00
9 -0.06	10 0.00				
Irrigation				18 0.01	11 0.01
18 0.02	12 0.00				
R-SQUARE				0.99	0.99
0.99	0.99				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 17:58 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sb-125.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	SRRC				

2	Repetition =	2	2
2	2		

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	6	-0.05	8	0.00
17 -0.01 18 0.00				
External gamma shielding factor	1	1.00	1	1.00
1 1.00 1 1.00				
Well pump intake depth	3	0.08	5	0.01
4 0.10 6 0.01				
Depth of soil mixing layer	4	0.07	6	0.01
11 0.03 13 0.00				
Depth of roots	8	-0.03	10	0.00
5 -0.06 7 0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	0.01	16	0.00
15 0.02 17 0.00				
Wet foliar interception fraction of leafy vegetables	11	0.02	14	0.00
10 0.03 12 0.00				
Weathering removal constant of all vegetation	12	0.02	15	0.00
18 -0.01 19 0.00				
Mass loading for inhalation	20	0.01	20	0.00
14 0.02 15 0.00				
Thickness of contaminated zone	15	-0.01	4	-0.01
13 0.02 5 0.01				
Well pumping rate	16	0.01	9	0.00
16 -0.01 9 0.00				
Thickness of Unsaturated zone 1	7	-0.04	3	-0.02
20 0.00 16 0.00				
Kd of Sb-125 in Contaminated Zone	5	0.05	7	0.01
2 0.31 2 0.02				
Kd of Sb-125 in Unsaturated Zone 1	14	0.01	17	0.00
9 0.04 11 0.00				
Kd of Sb-125 in Saturated Zone	9	0.03	11	0.00
6 0.05 8 0.00				
Plant transfer factor for Sb	2	0.29	2	0.03
3 0.24 3 0.02				
Meat transfer factor for Sb	10	0.02	13	0.00
19 -0.01 20 0.00				
Milk transfer factor for Sb	17	0.01	18	0.00
12 -0.03 14 0.00				
Fish transfer factor for Sb	19	0.01	19	0.00
8 0.04 10 0.00				
Irrigation	18	0.01	12	0.00
7 0.05 4 0.01				
R-SQUARE	0.99	0.99		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 17:58 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Sb-125.RAD

Coefficients for peak of mean dose time Dose						PCC		SRC	
PRCC		Coefficient =		SRRC					
3		Repetition =		3		3		3	
Description of Probabilistic Variable						Sig	Coeff	Sig	Coeff
Sig Coeff		Sig Coeff							
Indoor dust filtration factor						19	0.01	19	0.00
16	0.03	17	0.00						
External gamma shielding factor						1	1.00	1	1.00
1	0.99	1	0.99						
Well pump intake depth						9	0.05	11	0.00
10	0.06	12	0.01						
Depth of soil mixing layer						4	-0.09	7	-0.01
7	-0.08	10	-0.01						
Depth of roots						5	-0.07	8	-0.01

Probabilistic Input

```

0Number of Sample Runs: 900

```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET(2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119 .00004 .9495		.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H(1)	UNIFORM	.01 2.85
11	DCACTC(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
12	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
13	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
14	BRTF(55,1)	TRUNCATED LOGNORMAL-N	-3.22 1 .001 .999
15	BRTF(55,2)	TRUNCATED LOGNORMAL-N	-3 .4 .001 .999
16	BRTF(55,3)	TRUNCATED LOGNORMAL-N	-4.61 .5 .001 .999
17	BBIO(55,1)	LOGNORMAL-N	7.6 .7
18	UW	UNIFORM	957 1689
19	RI	UNIFORM	.252 .618
20	DWIBWT	TRIANGULAR	6 10 30
f f f f f f	f f f f f f f f f f f f f f f f f f	f f f f f f f f f f f f f f f f f f	f f f f f f f f f f f f f f f f f f

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:41 Page 22
 Probabilistic results summary : DCGL to Dose for Cs134 File: Cs-134.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.516E+01
 2 0.000E+00 2.473E+01
 3 0.000E+00 2.500E+01
 1 RESRAD Regression and Correlation output 04/21/03 21:45 Page: Coef 1
 Title : DCGL to Dose for Cs134
 Input File : Cs-134.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC				
Repetition =				1	1
1	1				
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
<hr/>					
Indoor dust filtration factor				19	0.00
14	-0.03	14	-0.01	20	0.00
External gamma shielding factor				2	0.67
1	0.88	1	0.72	2	0.38
Depth of soil mixing layer				14	-0.04
17	-0.01	17	0.00	14	-0.02
Depth of roots				4	-0.32
3	-0.38	6	-0.16	5	-0.15
Wet weight crop yield of fruit, grain and non-leafy vegetables				15	0.03
9	0.09	9	0.03	16	0.01
Wet foliar interception fraction of leafy vegetables				10	0.05
16	-0.01	16	-0.01	11	0.02
Weathering removal constant of all vegetation				6	-0.10
19	0.00	20	0.00	8	-0.04
Mass loading for inhalation				8	0.06
15	-0.03	15	-0.01	9	0.03
Thickness of contaminated zone				20	0.00
8	0.09	3	0.24	17	-0.01
Thickness of Unsaturated zone 1				7	-0.06
20	0.00	18	0.00	4	-0.17
Kd of Cs-134 in Contaminated Zone				16	0.01
11	0.04	11	0.02	18	0.01
Kd of Cs-134 in Unsaturated Zone 1				19	0.00
13	-0.03	13	-0.01		
Kd of Cs-134 in Saturated Zone				9	0.06
18	-0.01	19	0.00	10	0.02
Plant transfer factor for Cs				1	0.86
2	0.79	2	0.50	1	0.73
Meat transfer factor for Cs				5	0.13
5	0.19	8	0.07	7	0.06
Milk transfer factor for Cs				3	0.37
4	0.32	7	0.13	3	0.17
Fish transfer factor for Cs				11	0.05
12	0.04	12	0.01	12	0.02
Well pumping rate				13	0.04
6	-0.14	4	-0.19	6	0.06
Irrigation				17	-0.01
7	0.13	5	0.17	15	-0.01
Well pump intake depth				12	-0.04
10	0.07	10	0.03	13	-0.02
<hr/>				<hr/>	
R-SQUARE				0.82	0.82
0.85	0.85				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:46 Page: Coef 2
 Title : DCGL to Dose for Cs134
 Input File : Cs-134.RAD

Coefficients for peak of mean dose time Dose					
	Coefficient	=		PCC	SRC
PRCC	SRRC				
	Repetition	=		2	2

Description of Probabilistic Variable Sig Coeff Sig Coeff	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor	14	-0.02	14	-0.01
14 -0.03 16 -0.01				
External gamma shielding factor	2	0.79	2	0.50
1 0.87 1 0.67				
Depth of soil mixing layer	12	0.04	12	0.01
20 0.00 20 0.00				
Depth of roots	3	-0.35	5	-0.15
3 -0.44 3 -0.18				
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	-0.02	18	-0.01
18 0.01 19 0.00				
Wet foliar interception fraction of leafy vegetables	8	0.06	10	0.02
11 -0.05 13 -0.02				
Weathering removal constant of all vegetation	15	0.02	15	0.01
8 -0.06 10 -0.02				
Mass loading for inhalation	11	0.04	11	0.01
10 0.05 12 0.02				
Thickness of contaminated zone	6	0.15	3	0.38
7 0.07 4 0.17				
Thickness of Unsaturated zone 1	7	0.06	4	0.17
15 -0.03 6 -0.07				
Kd of Cs-134 in Contaminated Zone	17	0.02	17	0.01
9 -0.06 11 -0.02				
Kd of Cs-134 in Unsaturated Zone 1	13	0.03	13	0.01
12 0.05 14 0.02				
Kd of Cs-134 in Saturated Zone	19	-0.01	19	0.00
6 -0.14 8 -0.05				
Plant transfer factor for Cs	1	0.87	1	0.71
2 0.81 2 0.53				
Meat transfer factor for Cs	5	0.16	8	0.06
5 0.16 7 0.06				
Milk transfer factor for Cs	4	0.29	6	0.12
4 0.20 5 0.08				
Fish transfer factor for Cs	16	-0.02	16	-0.01
17 0.01 18 0.01				
Well pumping rate	9	-0.06	7	-0.08
16 0.02 9 0.03				
Irrigation	10	0.04	9	0.06
19 0.00 17 0.01				
Well pump intake depth	20	0.01	20	0.00
13 -0.03 15 -0.01				
R-SQUARE		0.85		0.85
0.86 0.86				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:46 Page: Coef 3
 Title : DCGL to Dose for Cs134
 Input File : Cs-134.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		PCC		SRC
	SRRC				
3	Repetition =		3		3
	3				
Description of Probabilistic Variable Sig Coeff Sig Coeff	Sig	Coeff	Sig	Coeff	
Indoor dust filtration factor	18	0.01	18	0.00	
7 0.10 7 0.03					
External gamma shielding factor	2	0.71	2	0.40	
1 0.88 1 0.66					
Depth of soil mixing layer	7	-0.09	10	-0.03	
15 -0.02 17 -0.01					
Depth of roots	4	-0.31	5	-0.13	
3 -0.46 4 -0.18					
Wet weight crop yield of fruit, grain and non-leafy vegetables	8	-0.06	11	-0.02	
9 0.06 10 0.02					

Wet foliar interception fraction of leafy vegetables	11	-0.05	14	-0.02
19 0.00 20 0.00				
Weathering removal constant of all vegetation	10	-0.05	13	-0.02
13 0.05 14 0.02				
Mass loading for inhalation	9	-0.06	12	-0.02
18 -0.01 19 0.00				
Thickness of contaminated zone	16	-0.02	8	-0.05
6 0.10 3 0.26				
Thickness of Unsaturated zone 1	6	-0.10	3	-0.27
20 0.00 18 0.00				
Kd of Cs-134 in Contaminated Zone	17	0.02	17	0.01
11 0.05 12 0.02				
Kd of Cs-134 in Unsaturated Zone 1	15	0.02	16	0.01
12 -0.05 13 -0.02				
Kd of Cs-134 in Saturated Zone	20	0.00	20	0.00
10 0.05 11 0.02				
Plant transfer factor for Cs	1	0.88	1	0.73
2 0.84 2 0.54				
Meat transfer factor for Cs	5	0.15	7	0.06
5 0.34 6 0.13				
Milk transfer factor for Cs	3	0.38	4	0.16
4 0.41 5 0.16				
Fish transfer factor for Cs	12	0.05	15	0.02
14 0.03 16 0.01				
Well pumping rate	14	-0.03	9	-0.04
16 0.02 9 0.03				
Irrigation	13	0.04	6	0.06
17 -0.01 15 -0.02				
Well pump intake depth	19	0.00	19	0.00
8 0.08 8 0.03				

R-SQUARE	0.85	0.85
0.88	0.88	

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET(2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H(1)	UNIFORM	.01 2.85
11	BRTF(55,1)	TRUNCATED LOGNORMAL-N	-3.22 1 .001 .999
12	BRTF(55,2)	TRUNCATED LOGNORMAL-N	-3 .4 .001 .999
13	BRTF(55,3)	TRUNCATED LOGNORMAL-N	-4.61 .5 .001 .999
14	BBIO(55,1)	LOGNORMAL-N	7.6 .7
15	DCACTC(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
16	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
17	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.1 2.33 .001 .999
18	UW	UNIFORM	957 1689
19	RI	UNIFORM	.252 .618
20	DWIBWT	TRIANGULAR	6 10 30
↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑	↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑↑

Description of Probabilistic Variable Sig Coeff Sig Coeff	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor 20 -0.01 20 0.00	17	-0.01	18	0.00
External gamma shielding factor 2 0.78 2 0.48	2	0.53	3	0.22
Depth of soil mixing layer 7 -0.12 10 -0.05	9	-0.06	10	-0.02
Depth of roots 3 -0.51 4 -0.23	3	-0.42	4	-0.17
Wet weight crop yield of fruit, grain and non-leafy vegetables 16 0.07 18 0.03	7	0.09	9	0.03
Wet foliar interception fraction of leafy vegetables 6 -0.13 9 -0.05	19	0.00	20	0.00
Weathering removal constant of all vegetation 12 0.09 15 0.04	11	-0.04	12	-0.01
Mass loading for inhalation 10 0.11 14 0.04	14	-0.02	14	-0.01
Thickness of contaminated zone 11 0.11 3 0.27	20	0.00	17	0.00
Thickness of Unsaturated zone 1 18 -0.02 12 -0.05	6	-0.10	2	-0.23
Plant transfer factor for Cs 1 0.85 1 0.63	1	0.91	1	0.81
Meat transfer factor for Cs 5 0.36 6 0.15	5	0.30	6	0.11
Milk transfer factor for Cs 4 0.46 5 0.20	4	0.32	5	0.12
Fish transfer factor for Cs 9 -0.11 13 -0.04	16	-0.01	16	0.00
Kd of Cs-137 in Contaminated Zone 14 -0.07 16 -0.03	15	-0.02	15	-0.01
Kd of Cs-137 in Unsaturated Zone 1 8 -0.12 11 -0.05	12	0.04	11	0.01
Kd of Cs-137 in Saturated Zone 15 0.07 17 0.03	13	0.03	13	0.01
Well pumping rate 17 -0.06 8 -0.09	8	-0.07	7	-0.09
Irrigation 13 0.08 7 0.11	10	0.05	8	0.06
Well pump intake depth 19 -0.01 19 0.00	18	0.00	19	0.00
R-SQUARE 0.85 0.85		0.87		0.87

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 22:00 Page: Coef 3
Title : DCGL to Dose for Cs137
Input File : Cs-137.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =			PCC	SRC
	SRRC				
3	Repetition =			3	3
	3				
Description of Probabilistic Variable Sig Coeff Sig Coeff	Sig	Coeff	Sig	Coeff	
Indoor dust filtration factor 9 0.09 12 0.03	20	-0.01	20	0.00	
External gamma shielding factor 2 0.81 2 0.50	2	0.57	2	0.26	
Depth of soil mixing layer 19 -0.01 19 -0.01	17	-0.02	17	-0.01	
Depth of roots 3 -0.54 4 -0.23	3	-0.42	3	-0.17	
Wet weight crop yield of fruit, grain and non-leafy vegetables 18 -0.02 18 -0.01	12	-0.04	13	-0.02	

Wet foliar interception fraction of leafy vegetables	10	-0.06	12	-0.02
15 0.04 16 0.01				
Weathering removal constant of all vegetation	13	-0.04	14	-0.01
17 0.02 17 0.01				
Mass loading for inhalation	18	0.02	18	0.01
20 -0.01 20 0.00				
Thickness of contaminated zone	11	0.04	7	0.12
5 0.16 3 0.41				
Thickness of Unsaturated zone 1	16	-0.03	8	-0.08
12 0.05 6 0.12				
Plant transfer factor for Cs	1	0.91	1	0.84
1 0.87 1 0.65				
Meat transfer factor for Cs	5	0.15	9	0.06
6 0.15 8 0.06				
Milk transfer factor for Cs	4	0.39	4	0.16
4 0.44 5 0.17				
Fish transfer factor for Cs	14	0.04	15	0.01
10 0.06 13 0.02				
Kd of Cs-137 in Contaminated Zone	9	-0.06	11	-0.02
8 0.13 10 0.05				
Kd of Cs-137 in Unsaturated Zone 1	15	-0.04	16	-0.01
7 0.15 9 0.05				
Kd of Cs-137 in Saturated Zone	19	-0.02	19	-0.01
14 0.04 15 0.02				
Well pumping rate	7	0.11	6	0.15
16 0.03 11 0.03				
Irrigation	6	-0.12	5	-0.16
13 -0.04 7 -0.06				
Well pump intake depth	8	-0.07	10	-0.03
11 0.06 14 0.02				

R-SQUARE	0.86	0.86
0.87 0.87		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

```
0Number of Sample Runs: 900
```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV (1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET (2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H (1)	UNIFORM	.01 2.85
11	UW	UNIFORM	957 1689
12	DCACTC (2)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
13	DCACTU1 (2)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
14	DCACTC (3)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
15	DCACTU1 (3)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
16	DCACTS (3)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
17	BRTF (63,1)	TRUNCATED LOGNORMAL-N	-6.21 1.1 .001 .999
18	BRTF (63,2)	TRUNCATED LOGNORMAL-N	-6.21 1 .001 .999
19	BRTF (63,3)	TRUNCATED LOGNORMAL-N	-9.72 .9 .001 .999
20	BBIO (63,1)	LOGNORMAL-N	3.9 1.1
21	BBIO (64,1)	LOGNORMAL-N	3.2 1.1
22	BRTF (64,3)	TRUNCATED LOGNORMAL-N	-9.72 .9 .001 .999
23	BRTF (64,2)	TRUNCATED LOGNORMAL-N	-6.21 1 .001 .999
24	BRTF (64,1)	TRUNCATED LOGNORMAL-N	-6.21 1.1 .001 .999
25	DCACTS (2)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
26	RI	UNIFORM	.252 .618
27	DWIBWT	TRIANGULAR	6 10 30

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 20:46 Page 22
 Probabilistic results summary : DCGL to Dose for Eu152 File: Eu-152.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.500E+01
 2 0.000E+00 2.501E+01
 3 0.000E+00 2.500E+01
 1 RESRAD Regression and Correlation output 04/21/03 20:56 Page: Coef 1
 Title : DCGL to Dose for Eu152
 Input File : Eu-152.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC						
	Repetition =						
1	1			1		1	
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				6	0.06	8	0.00
18	0.04	19	0.00				
External gamma shielding factor				1	1.00	1	1.00
1	1.00	1	1.00				
Depth of soil mixing layer				24	0.01	24	0.00
22	0.02	22	0.00				
Depth of roots				18	0.03	18	0.00
11	0.06	13	0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables				9	-0.05	9	0.00
10	-0.07	12	-0.01				
Wet foliar interception fraction of leafy vegetables				3	-0.10	7	-0.01
5	-0.11	9	-0.01				
Weathering removal constant of all vegetation				12	0.04	13	0.00
15	0.04	16	0.00				
Mass loading for inhalation				10	-0.04	10	0.00
27	-0.01	27	0.00				
Thickness of contaminated zone				8	-0.05	3	-0.02
19	-0.04	4	-0.02				
Thickness of Unsaturated zone 1				4	-0.07	2	-0.03
12	-0.05	2	-0.03				
Well pumping rate				7	0.05	5	0.01
9	0.07	6	0.02				
Kd of Eu-152 in Contaminated Zone				11	0.04	11	0.00
2	0.25	5	0.02				
Kd of Eu-152 in Unsaturated Zone 1				23	0.01	23	0.00
3	-0.13	7	-0.01				
Kd of Gd-152 in Contaminated Zone				15	0.04	14	0.00
21	0.03	21	0.00				
Kd of Gd-152 in Unsaturated Zone 1				25	0.00	25	0.00
6	-0.10	10	-0.01				
Kd of Gd-152 in Saturated Zone				20	0.03	20	0.00
24	-0.01	24	0.00				
Plant transfer factor for Eu				2	0.12	6	0.01
4	0.11	8	0.01				
Meat transfer factor for Eu				13	0.04	12	0.00
25	0.01	25	0.00				
Milk transfer factor for Eu				14	-0.04	15	0.00
23	0.02	23	0.00				
Fish transfer factor for Eu				16	-0.04	16	0.00
16	-0.04	17	0.00				
Fish transfer factor for Gd				27	0.00	27	0.00
17	0.04	18	0.00				
Milk transfer factor for Gd				22	0.01	22	0.00
7	0.09	11	0.01				
Meat transfer factor for Gd				19	0.03	19	0.00
14	0.05	15	0.00				
Plant transfer factor for Gd				17	0.03	17	0.00
26	0.01	26	0.00				
Kd of Eu-152 in Saturated Zone				26	0.00	26	0.00
13	0.05	14	0.00				
Irrigation				5	-0.06	4	-0.01
8	-0.08	3	-0.02				
Well pump intake depth				21	-0.02	21	0.00
20	-0.03	20	0.00				
R-SQUARE				1.00		1.00	
0.99	0.99						

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:56 Page: Coef 2
 Title : DCGL to Dose for Eu152
 Input File : Eu-152.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC						
Repetition =				2		2	
2							
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				12	0.03	13	0.00
13	0.05	14	0.00				
External gamma shielding factor				1	1.00	1	1.00
1	1.00	1	1.00				
Depth of soil mixing layer				3	-0.13	6	-0.01
4	-0.13	6	-0.01				
Depth of roots				2	-0.14	4	-0.01
3	-0.13	5	-0.01				
Wet weight crop yield of fruit, grain and non-leafy vegetables				7	0.05	9	0.00
15	0.04	16	0.00				
Wet foliar interception fraction of leafy vegetables				18	-0.01	18	0.00
19	0.02	19	0.00				
Weathering removal constant of all vegetation				11	-0.03	12	0.00
21	-0.01	21	0.00				
Mass loading for inhalation				20	0.01	20	0.00
22	-0.01	22	0.00				
Thickness of contaminated zone				16	0.02	5	0.01
18	0.02	7	0.01				
Thickness of Unsaturated zone 1				26	0.00	21	0.00
27	0.00	27	0.00				
Well pumping rate				9	-0.05	3	-0.01
6	-0.09	3	-0.02				
Kd of Eu-152 in Contaminated Zone				17	0.02	14	0.00
2	0.31	2	0.02				
Kd of Eu-152 in Unsaturated Zone 1				27	0.00	27	0.00
8	-0.08	10	-0.01				
Kd of Gd-152 in Contaminated Zone				8	0.05	10	0.00
20	-0.01	20	0.00				
Kd of Gd-152 in Unsaturated Zone 1				24	0.00	25	0.00
25	0.01	25	0.00				
Kd of Gd-152 in Saturated Zone				22	0.00	23	0.00
17	-0.02	18	0.00				
Plant transfer factor for Eu				4	0.08	7	0.00
10	0.08	11	0.01				
Meat transfer factor for Eu				6	0.05	8	0.00
16	-0.03	17	0.00				
Milk transfer factor for Eu				21	0.01	22	0.00
23	0.01	23	0.00				
Fish transfer factor for Eu				19	-0.01	19	0.00
11	-0.07	12	-0.01				
Fish transfer factor for Gd				14	-0.03	16	0.00
12	-0.06	13	0.00				
Milk transfer factor for Gd				13	0.03	15	0.00
26	0.00	26	0.00				
Meat transfer factor for Gd				10	-0.04	11	0.00
7	-0.09	9	-0.01				
Plant transfer factor for Gd				15	0.03	17	0.00
24	0.01	24	0.00				
Kd of Eu-152 in Saturated Zone				23	0.00	24	0.00
5	-0.09	8	-0.01				
Irrigation				5	0.05	2	0.01
9	0.08	4	0.02				
Well pump intake depth				25	0.00	26	0.00
14	0.04	15	0.00				
R-SQUARE				1.00		1.00	
0.99	0.99						

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the

variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 20:56 Page: Coef 3

Title : DCGL to Dose for Eu152

Input File : Eu-152.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC						
Repetition =				3		3	
3							
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				13	0.04	14	0.00
6	0.09	10	0.01				
External gamma shielding factor				1	1.00	1	1.00
1	1.00	1	1.00				
Depth of soil mixing layer				3	0.11	5	0.01
7	0.08	11	0.01				
Depth of roots				10	-0.07	11	0.00
8	-0.08	12	-0.01				
Wet weight crop yield of fruit, grain and non-leafy vegetables				9	-0.08	10	0.00
14	-0.05	16	0.00				
Wet foliar interception fraction of leafy vegetables				14	-0.04	15	0.00
20	-0.04	21	0.00				
Weathering removal constant of all vegetation				11	-0.07	12	0.00
13	-0.06	15	0.00				
Mass loading for inhalation				20	0.02	21	0.00
27	0.01	27	0.00				
Thickness of contaminated zone				4	0.11	2	0.04
9	0.08	2	0.04				
Thickness of Unsaturated zone 1				7	0.08	3	0.03
11	0.06	3	0.03				
Well pumping rate				24	0.01	18	0.00
24	0.03	8	0.01				
Kd of Eu-152 in Contaminated Zone				17	0.03	17	0.00
2	0.25	4	0.02				
Kd of Eu-152 in Unsaturated Zone 1				19	-0.02	20	0.00
17	0.05	19	0.00				
Kd of Gd-152 in Contaminated Zone				12	0.06	13	0.00
10	-0.06	13	0.00				
Kd of Gd-152 in Unsaturated Zone 1				22	-0.02	23	0.00
19	0.04	20	0.00				
Kd of Gd-152 in Saturated Zone				6	-0.09	8	0.00
26	-0.02	26	0.00				
Plant transfer factor for Eu				18	-0.02	19	0.00
25	-0.03	25	0.00				
Meat transfer factor for Eu				27	0.00	27	0.00
15	0.05	17	0.00				
Milk transfer factor for Eu				2	-0.12	4	-0.01
5	-0.10	9	-0.01				
Fish transfer factor for Eu				21	-0.02	22	0.00
22	-0.04	23	0.00				
Fish transfer factor for Gd				5	-0.09	7	-0.01
3	-0.13	6	-0.01				
Milk transfer factor for Gd				8	0.08	9	0.00
4	0.10	7	0.01				
Meat transfer factor for Gd				26	0.00	26	0.00
23	0.03	24	0.00				
Plant transfer factor for Gd				25	-0.01	25	0.00
21	-0.04	22	0.00				
Kd of Eu-152 in Saturated Zone				23	-0.01	24	0.00
16	0.05	18	0.00				
Irrigation				16	-0.03	6	-0.01
18	-0.05	5	-0.01				
Well pump intake depth				15	-0.03	16	0.00
12	-0.06	14	0.00				
R-SQUARE				1.00		1.00	
0.99	0.99						

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

```
0Number of Sample Runs: 900
```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
10	THICK0	UNIFORM	.15 3
11	H(1)	UNIFORM	.01 2.85
12	UW	UNIFORM	957 1689
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.72 3.22 .001 .999
16	BRTF(63,1)	TRUNCATED LOGNORMAL-N	-6.21 1.1 .001 .999
17	BRTF(63,2)	TRUNCATED LOGNORMAL-N	-6.21 1 .001 .999
18	BRTF(63,3)	TRUNCATED LOGNORMAL-N	-9.72 .9 .001 .999
19	BBIO(63,1)	LOGNORMAL-N	3.9 1.1
20	RI	UNIFORM	.252 .618
ffffff	ffffffffffffffffffffff	ffffffffffffffffffffff	ffffffffffffffffffffff

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : EU-154.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.500E+01
2	0.000E+00	2.501E+01
3	0.000E+00	2.502E+01

1 RESRAD Regression and Correlation output 04/21/03 21:15 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	Repetition =			1	1
1	1				
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				4 -0.09	5 -0.01
18 -0.02	18	0.00			
External gamma shielding factor				1 1.00	1 1.00
1 1.00	1	1.00			
Well pump intake depth				5 0.08	6 0.01
7 0.07	11	0.00			
Depth of soil mixing layer				8 -0.03	10 0.00
6 -0.07	10	0.00			
Depth of roots				15 0.01	17 0.00
9 0.06	12	0.00			
Wet weight crop yield of fruit, grain and non-leafy vegetables				11 -0.02	13 0.00
11 -0.05	13	0.00			
Wet foliar interception fraction of leafy vegetables				3 -0.09	4 -0.01
14 -0.05	16	0.00			
Weathering removal constant of all vegetation				19 0.00	20 0.00
20 -0.01	20	0.00			
Mass loading for inhalation				16 0.01	18 0.00
12 -0.05	14	0.00			
Thickness of contaminated zone				12 0.02	2 0.01
8 0.07	2	0.03			
Thickness of Unsaturated zone 1				20 0.00	15 0.00
15 0.04	3	0.02			
Well pumping rate				17 -0.01	11 0.00
10 -0.06	5	-0.01			
Kd of Eu-154 in Contaminated Zone				18 -0.01	19 0.00
2 0.20	4	0.01			
Kd of Eu-154 in Unsaturated Zone 1				7 0.05	8 0.00
4 -0.08	8	-0.01			
Kd of Eu-154 in Saturated Zone				10 -0.02	14 0.00
13 0.05	15	0.00			
Plant transfer factor for Eu				13 0.01	16 0.00
3 0.09	7	0.01			
Meat transfer factor for Eu				6 0.06	7 0.00
19 0.01	19	0.00			
Milk transfer factor for Eu				2 -0.11	3 -0.01
17 -0.03	17	0.00			
Fish transfer factor for Eu				9 0.02	12 0.00
5 -0.07	9	0.00			
Irrigation				14 -0.01	9 0.00
16 0.03	6	0.01			
R-SQUARE				0.99	0.99
1.00		1.00			

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:15 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose					
PRCC	Coefficient =		SRRC	PCC	SRC
	SRRC				

Repetition =				2	2
2					
Description of Probabilistic Variable				Sig	Coeff
Sig	Coeff	Sig	Coeff		
Indoor dust filtration factor				5	-0.06
15	-0.03	15	0.00	8	-0.01
External gamma shielding factor				1	1.00
1	1.00	1	1.00		
Well pump intake depth				4	0.07
5	0.09	8	0.00	7	0.01
Depth of soil mixing layer				2	0.10
4	0.09	7	0.01		
Depth of roots				9	0.04
10	0.05	10	0.00	12	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables				16	0.02
19	0.01	19	0.00	17	0.00
Wet foliar interception fraction of leafy vegetables				13	0.03
12	0.04	12	0.00	15	0.00
Weathering removal constant of all vegetation				10	0.03
14	0.03	14	0.00	13	0.00
Mass loading for inhalation				19	0.00
18	0.01	18	0.00		
Thickness of contaminated zone				6	0.04
3	0.10	2	0.04	2	0.03
Thickness of Unsaturated zone 1				14	0.02
6	0.08	3	0.03	3	0.01
Well pumping rate				15	-0.02
9	-0.06	6	-0.01	9	0.00
Kd of Eu-154 in Contaminated Zone				7	0.04
2	0.29	4	0.02	10	0.00
Kd of Eu-154 in Unsaturated Zone 1				17	0.02
13	0.04	13	0.00	16	0.00
Kd of Eu-154 in Saturated Zone				8	0.04
16	0.03	16	0.00	11	0.00
Plant transfer factor for Eu				3	0.10
7	0.07	9	0.00	5	0.01
Meat transfer factor for Eu				11	0.03
20	-0.01	20	0.00	14	0.00
Milk transfer factor for Eu				18	0.01
17	-0.03	17	0.00	18	0.00
Fish transfer factor for Eu				20	0.00
11	0.04	11	0.00	20	0.00
Irrigation				12	0.03
8	0.06	5	0.01	6	0.01
R-SQUARE				0.99	0.99
1.00	1.00				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:15 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose								
Coefficient =					PCC		SRC	
PRCC	SRRC							
Repetition =					3		3	
3	3							
Description of Probabilistic Variable					Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff								
Indoor dust filtration factor					9	0.03	11	0.00
8	0.07	12	0.00					
External gamma shielding factor					1	1.00	1	1.00
1	1.00	1	1.00					
Well pump intake depth					7	0.04	9	0.00
9	0.05	13	0.00					
Depth of soil mixing layer					4	-0.08	5	0.00
5	-0.09	9	-0.01					
Depth of roots					11	-0.02	13	0.00

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : EU-155.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.498E+01
2	0.000E+00	2.500E+01
3	0.000E+00	2.500E+01

1 RESRAD Regression and Correlation output 04/21/03 21:24 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC				
Repetition =				1	1
1	1				
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				7 -0.08	8 -0.01
18 -0.01	18	0.00			
External gamma shielding factor				1 1.00	1 1.00
1 1.00	1	1.00			
Well pump intake depth				4 0.11	5 0.01
14 0.04	15	0.00			
Depth of soil mixing layer				11 -0.03	14 0.00
15 -0.02	16	0.00			
Depth of roots				8 -0.06	11 0.00
8 -0.06	9	-0.01			
Wet weight crop yield of fruit, grain and non-leafy vegetables				10 -0.03	13 0.00
11 -0.06	11	0.00			
Wet foliar interception fraction of leafy vegetables				6 -0.09	7 -0.01
16 -0.02	17	0.00			
Weathering removal constant of all vegetation				14 -0.02	15 0.00
13 -0.04	14	0.00			
Mass loading for inhalation				15 0.02	16 0.00
12 -0.05	13	0.00			
Thickness of contaminated zone				12 0.03	3 0.01
4 0.09	2	0.05			
Thickness of Unsaturated zone 1				17 -0.01	10 0.00
10 0.06	3	0.03			
Well pumping rate				20 0.00	20 0.00
17 -0.02	12	0.00			
Kd of Eu-155 in Contaminated Zone				18 0.00	18 0.00
5 0.09	6	0.01			
Kd of Eu-155 in Unsaturated Zone 1				19 0.00	19 0.00
3 -0.10	5	-0.01			
Kd of Eu-155 in Saturated Zone				16 -0.01	17 0.00
7 0.06	8	0.01			
Plant transfer factor for Eu				2 0.38	2 0.03
2 0.38	4	0.03			
Meat transfer factor for Eu				3 0.16	4 0.01
6 0.08	7	0.01			
Milk transfer factor for Eu				5 -0.11	6 -0.01
9 -0.06	10	-0.01			
Fish transfer factor for Eu				9 0.05	12 0.00
19 -0.01	19	0.00			
Irrigation				13 -0.02	9 -0.01
20 0.00	20	0.00			
R-SQUARE				0.99	0.99
0.99	0.99				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:24 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC				

2	Repetition =	2	2
2	2		

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	8	-0.06	11	0.00
20 0.01 20 0.00				
External gamma shielding factor	1	1.00	1	0.99
1 1.00 1 1.00				
Well pump intake depth	5	0.06	9	0.01
10 0.06 12 0.00				
Depth of soil mixing layer	4	0.09	7	0.01
13 0.04 15 0.00				
Depth of roots	6	-0.06	10	0.00
6 -0.09 6 -0.01				
Wet weight crop yield of fruit, grain and non-leafy vegetables	14	0.02	15	0.00
18 0.01 18 0.00				
Wet foliar interception fraction of leafy vegetables	11	0.03	13	0.00
17 0.02 17 0.00				
Weathering removal constant of all vegetation	18	0.00	18	0.00
11 -0.05 13 0.00				
Mass loading for inhalation	20	0.00	20	0.00
16 -0.02 16 0.00				
Thickness of contaminated zone	7	0.06	3	0.03
4 0.14 2 0.06				
Thickness of Unsaturated zone 1	12	0.03	4	0.01
5 0.11 3 0.05				
Well pumping rate	16	-0.02	8	-0.01
14 -0.03 8 -0.01				
Kd of Eu-155 in Contaminated Zone	13	0.02	14	0.00
3 0.20 5 0.01				
Kd of Eu-155 in Unsaturated Zone 1	15	0.02	16	0.00
19 -0.01 19 0.00				
Kd of Eu-155 in Saturated Zone	9	0.04	12	0.00
9 0.07 11 0.00				
Plant transfer factor for Eu	2	0.43	2	0.04
2 0.41 4 0.03				
Meat transfer factor for Eu	3	0.13	5	0.01
7 0.09 7 0.01				
Milk transfer factor for Eu	19	0.00	19	0.00
12 -0.05 14 0.00				
Fish transfer factor for Eu	17	0.01	17	0.00
8 0.08 9 0.01				
Irrigation	10	0.03	6	0.01
15 0.02 10 0.00				
R-SQUARE		0.99		0.99
1.00 1.00				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 21:24 Page: Coef 3
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose				PCC	SRC
Coefficient =					
PRCC	SRRC	Repetition			
3	3			3	3
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	
Sig Coeff Sig Coeff					
Indoor dust filtration factor	12	0.03	13	0.00	
14 0.05 16 0.00					
External gamma shielding factor	1	1.00	1	1.00	
1 1.00 1 1.00					
Well pump intake depth	8	0.06	9	0.00	
8 0.07 11 0.00					
Depth of soil mixing layer	6	-0.10	7	0.00	
7 -0.08 10 -0.01					
Depth of roots	4	-0.15	5	-0.01	

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119 .00004 .9495 .00006 .9937 .000076 .9983 .0001		1
10	THICK0	UNIFORM	.15 3
11	UW	UNIFORM	957 1689
12	H(1)	UNIFORM	.01 2.85
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	7.78 2.76 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	7.78 2.76 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	7.78 2.76 .001 .999
16	DCACTC(2)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
17	DCACTU1(2)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
18	DCACTS(2)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
19	DCACTC(3)	TRUNCATED LOGNORMAL-N	8.17 1.7 .001 .999
20	DCACTU1(3)	TRUNCATED LOGNORMAL-N	8.17 1.7 .001 .999
21	DCACTS(3)	TRUNCATED LOGNORMAL-N	8.17 1.7 .001 .999
22	DCACTC(4)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
23	DCACTU1(4)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
24	DCACTS(4)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
25	DCACTC(5)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
26	DCACTU1(5)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
27	DCACTS(5)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
28	BRTF(82,1)	TRUNCATED LOGNORMAL-N	-5.52 .9 .001 .999
29	BRTF(94,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
30	BRTF(88,1)	TRUNCATED LOGNORMAL-N	-3.22 .9 .001 .999
31	BRTF(90,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
32	BRTF(92,1)	TRUNCATED LOGNORMAL-N	-6.21 .9 .001 .999
33	BRTF(82,2)	TRUNCATED LOGNORMAL-N	-7.13 .7 .001 .999
34	BRTF(94,2)	TRUNCATED LOGNORMAL-N	-9.21 .2 .001 .999
35	BRTF(88,2)	TRUNCATED LOGNORMAL-N	-6.91 .7 .001 .999
36	BRTF(90,2)	TRUNCATED LOGNORMAL-N	-9.21 1 .001 .999
37	BRTF(92,2)	TRUNCATED LOGNORMAL-N	-7.13 .7 .001 .999
38	BRTF(82,3)	TRUNCATED LOGNORMAL-N	-8.11 .9 .001 .999
39	BRTF(94,3)	TRUNCATED LOGNORMAL-N	-13.82 .5 .001 .999
40	BRTF(88,3)	TRUNCATED LOGNORMAL-N	-6.91 .5 .001 .999
41	BRTF(90,3)	TRUNCATED LOGNORMAL-N	-12.21 .9 .001 .999
42	BRTF(92,3)	TRUNCATED LOGNORMAL-N	-7.82 .6 .001 .999
43	BBIO(82,1)	LOGNORMAL-N	5.7 1.1
44	BBIO(94,1)	LOGNORMAL-N	3.4 1.1
45	BBIO(88,1)	LOGNORMAL-N	3.9 1.1
46	BBIO(90,1)	LOGNORMAL-N	4.6 1.1
47	BBIO(92,1)	LOGNORMAL-N	2.3 1.1
48	RI	UNIFORM	.252 .618
fiffff	fifffffffffffffffffff	fifffffffffffffffffff	fifffffffffffffffffff

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Pu-238.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.435E+01
2	0.000E+00	2.558E+01
3	0.000E+00	2.500E+01

1 RESRAD Regression and Correlation output 04/24/03 18:27 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Pu-238.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						
	Repetition =			1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				21	0.06	24	0.03
24	0.04	27	0.01				
External gamma shielding factor				37	0.02	37	0.01
29	0.03	32	0.01				
Well pump intake depth				33	-0.03	33	-0.01
41	-0.02	42	0.00				
Depth of soil mixing layer				19	-0.07	23	-0.03
9	-0.08	10	-0.03				
Depth of roots				2	-0.40	3	-0.21
2	-0.65	3	-0.26				
Wet weight crop yield of fruit, grain and non-leafy vegetables				6	-0.12	11	-0.06
48	0.00	48	0.00				
Wet foliar interception fraction of leafy vegetables				8	0.10	14	0.05
14	0.05	16	0.02				
Weathering removal constant of all vegetation				42	0.00	42	0.00
25	0.04	28	0.01				
Mass loading for inhalation				31	0.03	32	0.01
8	0.10	9	0.03				
Thickness of contaminated zone				14	0.08	2	0.26
3	0.19	2	0.41				
Well pumping rate				23	-0.05	7	-0.08
42	0.01	20	0.01				
Thickness of Unsaturated zone 1				30	-0.03	6	-0.10
40	-0.02	7	-0.03				
Kd of Pb-210 in Contaminated Zone				41	0.00	41	0.00
34	-0.02	37	-0.01				
Kd of Pb-210 in Unsaturated Zone 1				40	-0.01	40	0.00
47	0.00	47	0.00				
Kd of Pb-210 in Saturated Zone				22	-0.05	25	-0.02
26	0.04	29	0.01				
Kd of Pu-238 in Contaminated Zone				9	0.10	13	0.05
4	-0.13	4	-0.04				
Kd of Pu-238 in Unsaturated Zone 1				29	0.03	31	0.02
28	-0.03	31	-0.01				
Kd of Pu-238 in Saturated Zone				39	0.01	39	0.01
27	0.03	30	0.01				
Kd of Ra-226 in Contaminated Zone				3	-0.24	4	-0.12
11	0.06	12	0.02				
Kd of Ra-226 in Unsaturated Zone 1				15	-0.08	18	-0.04
33	-0.03	35	-0.01				
Kd of Ra-226 in Saturated Zone				32	-0.03	27	-0.02
19	0.05	22	0.01				
Kd of Th-230 in Contaminated Zone				27	-0.04	29	-0.02
43	-0.01	43	0.00				
Kd of Th-230 in Unsaturated Zone 1				11	0.09	9	0.07
44	0.01	44	0.00				
Kd of Th-230 in Saturated Zone				43	0.00	43	0.00
18	-0.05	21	-0.01				
Kd of U-234 in Contaminated Zone				7	-0.10	12	-0.05
31	-0.03	34	-0.01				
Kd of U-234 in Unsaturated Zone 1				46	0.00	46	0.00
20	-0.04	23	-0.01				
Kd of U-234 in Saturated Zone				20	0.06	20	0.04
16	0.05	18	0.01				
Plant transfer factor for Pb				34	-0.02	34	-0.01
30	0.03	33	0.01				
Plant transfer factor for Pu				1	0.84	1	0.76
1	0.93	1	0.79				

Plant transfer factor for Ra	5	0.12	10	0.06
15 0.05 17 0.02				
Plant transfer factor for Th	16	0.07	21	0.03
45 -0.01 45 0.00				
Plant transfer factor for U	38	-0.01	38	-0.01
6 0.11 6 0.03				
Meat transfer factor for Pb	28	-0.04	30	-0.02
46 0.00 46 0.00				
Meat transfer factor for Pu	35	-0.02	35	-0.01
10 0.06 11 0.02				
Meat transfer factor for Ra	47	0.00	47	0.00
21 0.04 24 0.01				
Meat transfer factor for Th	25	-0.04	28	-0.02
38 0.02 40 0.01				
Meat transfer factor for U	4	0.24	5	0.12
5 0.12 5 0.04				
Milk transfer factor for Pb	48	0.00	48	0.00
22 -0.04 25 -0.01				
Milk transfer factor for Pu	24	-0.04	26	-0.02
32 0.03 36 0.01				
Milk transfer factor for Ra	12	0.09	16	0.04
39 0.02 41 0.01				
Milk transfer factor for Th	45	0.00	45	0.00
35 -0.02 38 -0.01				
Milk transfer factor for U	17	0.07	22	0.03
23 0.04 26 0.01				
Fish transfer factor for Pb	13	0.09	17	0.04
13 0.06 15 0.02				
Fish transfer factor for Pu	44	0.00	44	0.00
17 0.05 19 0.01				
Fish transfer factor for Ra	18	-0.07	19	-0.04
7 -0.11 8 -0.03				
Fish transfer factor for Th	36	-0.02	36	-0.01
12 -0.06 13 -0.02				
Fish transfer factor for U	10	-0.09	15	-0.05
36 0.02 39 0.01				
Irrigation	26	0.04	8	0.07
37 0.02 14 0.02				

R-SQUARE	0.78	0.78
0.91 0.91		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 18:27 Page: Coef 2
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Pu-238.RAD

Coefficients for peak of mean dose time Dose		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	2	2
2	2		

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	45	0.00	45	0.00
25 -0.05 26 -0.02				
External gamma shielding factor	17	0.07	18	0.03
41 0.01 41 0.00				
Well pump intake depth	16	-0.08	17	-0.03
46 0.00 46 0.00				
Depth of soil mixing layer	33	0.03	34	0.01
28 -0.03 29 -0.01				
Depth of roots	2	-0.48	3	-0.22
2 -0.68 3 -0.30				
Wet weight crop yield of fruit, grain and non-leafy vegetables	39	0.03	39	0.01
5 -0.10 9 -0.03				
Wet foliar interception fraction of leafy vegetables	36	0.03	37	0.01
39 0.01 39 0.00				
Weathering removal constant of all vegetation	30	0.04	31	0.02
13 -0.08 16 -0.03				
Mass loading for inhalation	48	0.00	48	0.00
43 0.01 43 0.00				
Thickness of contaminated zone	5	0.15	2	0.39

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 18:27 Page: Coef 3
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : YR_Pu-238.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC						
	Repetition =						
3	3			3		3	
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				29	-0.04	30	-0.02
9	0.11	10	0.03				
External gamma shielding factor				20	0.06	22	0.02
21	-0.06	22	-0.02				
Well pump intake depth				18	0.06	21	0.02
38	-0.02	39	-0.01				
Depth of soil mixing layer				6	0.11	9	0.04
13	0.09	15	0.02				
Depth of roots				2	-0.48	3	-0.21
2	-0.76	3	-0.33				
Wet weight crop yield of fruit, grain and non-leafy vegetables				12	-0.08	17	-0.03
23	-0.05	25	-0.02				
Wet foliar interception fraction of leafy vegetables				47	0.00	47	0.00
15	-0.08	16	-0.02				
Weathering removal constant of all vegetation				48	0.00	48	0.00
34	0.03	35	0.01				
Mass loading for inhalation				14	-0.08	18	-0.03
30	0.04	31	0.01				
Thickness of contaminated zone				5	0.11	2	0.26
3	0.26	2	0.46				
Well pumping rate				21	-0.05	5	-0.07
27	-0.05	4	-0.05				
Thickness of Unsaturated zone 1				41	-0.01	13	-0.03
46	0.00	36	-0.01				
Kd of Pb-210 in Contaminated Zone				32	0.04	33	0.01
45	0.00	46	0.00				
Kd of Pb-210 in Unsaturated Zone 1				25	0.05	26	0.02
22	0.06	23	0.02				
Kd of Pb-210 in Saturated Zone				36	0.03	36	0.01
48	0.00	48	0.00				
Kd of Pu-238 in Contaminated Zone				9	-0.09	11	-0.04
19	0.06	20	0.02				
Kd of Pu-238 in Unsaturated Zone 1				39	-0.02	39	-0.01
28	-0.04	29	-0.01				
Kd of Pu-238 in Saturated Zone				13	0.08	12	0.03
47	0.00	47	0.00				
Kd of Ra-226 in Contaminated Zone				40	-0.02	41	-0.01
10	-0.10	11	-0.03				
Kd of Ra-226 in Unsaturated Zone 1				46	0.00	46	0.00
16	0.07	17	0.02				
Kd of Ra-226 in Saturated Zone				34	-0.03	31	-0.01
43	0.01	44	0.00				
Kd of Th-230 in Contaminated Zone				42	-0.01	42	-0.01
36	0.02	38	0.01				
Kd of Th-230 in Unsaturated Zone 1				8	0.10	8	0.05
32	-0.03	33	-0.01				
Kd of Th-230 in Saturated Zone				26	0.05	27	0.02
31	-0.03	32	-0.01				
Kd of U-234 in Contaminated Zone				3	0.15	6	0.06
7	0.12	8	0.03				
Kd of U-234 in Unsaturated Zone 1				24	0.05	24	0.02
24	-0.05	26	-0.01				
Kd of U-234 in Saturated Zone				11	-0.08	15	-0.03
33	0.03	34	0.01				
Plant transfer factor for Pb				33	0.03	35	0.01
18	0.06	19	0.02				
Plant transfer factor for Pu				1	0.91	1	0.86
1	0.94	1	0.78				
Plant transfer factor for Ra				30	-0.04	34	-0.01
6	-0.12	7	-0.03				
Plant transfer factor for Th				7	-0.11	10	-0.04
5	-0.13	6	-0.04				
Plant transfer factor for U				16	0.07	19	0.03

11 -0.10	12 -0.03				
Meat transfer factor for Pb				45 -0.01	45 0.00
40 0.02	42 0.00				
Meat transfer factor for Pu				4 0.15	7 0.06
4 0.18	5 0.05				
Meat transfer factor for Ra				38 -0.02	40 -0.01
44 0.01	45 0.00				
Meat transfer factor for Th				10 0.09	14 0.03
29 0.04	30 0.01				
Meat transfer factor for U				35 -0.03	37 -0.01
35 -0.02	37 -0.01				
Milk transfer factor for Pb				23 0.05	25 0.02
26 -0.05	28 -0.01				
Milk transfer factor for Pu				22 0.05	23 0.02
8 0.11	9 0.03				
Milk transfer factor for Ra				28 0.04	29 0.02
12 0.09	13 0.03				
Milk transfer factor for Th				43 -0.01	43 -0.01
37 -0.02	40 -0.01				
Milk transfer factor for U				37 0.03	38 0.01
14 -0.09	14 -0.03				
Fish transfer factor for Pb				27 0.05	28 0.02
20 -0.06	21 -0.02				
Fish transfer factor for Pu				44 0.01	44 0.00
17 -0.07	18 -0.02				
Fish transfer factor for Ra				15 -0.07	16 -0.03
25 0.05	27 0.01				
Fish transfer factor for Th				19 0.06	20 0.02
39 -0.02	41 -0.01				
Fish transfer factor for U				31 -0.04	32 -0.01
42 0.01	43 0.00				
Irrigation				17 0.07	4 0.09
41 0.02	24 0.02				
<hr/>					
R-SQUARE				0.87	0.87
0.92	0.92				
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Number	Name	Distribution				Parameters					
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA				AAAAAAAAAAAAAAAAAAAAA				
1	SHF3					UNIFORM	.15	.95			
2	SHF1					BOUNDED LOGNORMAL-N	-1.3	.59	.044	1	
3	DWIBWT					TRIANGULAR	6	10	30		
4	DM					TRIANGULAR	0	.15	.6		
5	DROOT					UNIFORM	.3	4			
6	YV (1)					TRUNCATED LOGNORMAL-N	.56	.48	.001	.999	
7	RWET (2)					TRIANGULAR	.06	.67	.95		
8	WLAM					TRIANGULAR	5.1	18	84		
9	MLINH					CONTINUOUS LINEAR	8	0	0	.000008	.0151
.000016	.1365	.00003	.8119	.00004	.9495		.00006	.9937	.000076	.9983	.0001
10	THICK0					UNIFORM	.15	3			
11	UW					UNIFORM	957	1689			
12	H (1)					UNIFORM	.01	2.85			
13	DCACTC (1)					TRUNCATED LOGNORMAL-N	6.72	3.22	.001	.999	
14	DCACTU1 (1)					TRUNCATED LOGNORMAL-N	6.72	3.22	.001	.999	
15	DCACTS (1)					TRUNCATED LOGNORMAL-N	6.72	3.22	.001	.999	
16	DCACTC (2)					TRUNCATED LOGNORMAL-N	5.94	3.22	.001	.999	
17	DCACTU1 (2)					TRUNCATED LOGNORMAL-N	5.94	3.22	.001	.999	
18	DCACTS (2)					TRUNCATED LOGNORMAL-N	5.94	3.22	.001	.999	
19	DCACTC (3)					TRUNCATED LOGNORMAL-N	6.86	1.89	.001	.999	
20	DCACTU1 (3)					TRUNCATED LOGNORMAL-N	6.86	1.89	.001	.999	
21	DCACTS (3)					TRUNCATED LOGNORMAL-N	6.86	1.89	.001	.999	
22	DCACTC (4)					TRUNCATED LOGNORMAL-N	4.84	3.13	.001	.999	
23	DCACTU1 (4)					TRUNCATED LOGNORMAL-N	4.84	3.13	.001	.999	
24	DCACTS (4)					TRUNCATED LOGNORMAL-N	4.84	3.13	.001	.999	
25	BRTF (89,1)					TRUNCATED LOGNORMAL-N	-6.91	1.1	.001	.999	
26	BRTF (91,1)					TRUNCATED LOGNORMAL-N	-4.61	1.1	.001	.999	
27	BRTF (94,1)					TRUNCATED LOGNORMAL-N	-6.91	.9	.001	.999	
28	BRTF (92,1)					TRUNCATED LOGNORMAL-N	-6.21	.9	.001	.999	
29	BRTF (89,2)					TRUNCATED LOGNORMAL-N	-10.82	1	.001	.999	
30	BRTF (91,2)					TRUNCATED LOGNORMAL-N	-12.21	1	.001	.999	
31	BRTF (94,2)					TRUNCATED LOGNORMAL-N	-9.21	.2	.001	.999	
32	BRTF (92,2)					TRUNCATED LOGNORMAL-N	-7.13	.7	.001	.999	
33	BRTF (89,3)					TRUNCATED LOGNORMAL-N	-13.12	.9	.001	.999	
34	BRTF (91,3)					TRUNCATED LOGNORMAL-N	-12.21	.9	.001	.999	
35	BRTF (94,3)					TRUNCATED LOGNORMAL-N	-13.82	.5	.001	.999	
36	BRTF (92,3)					TRUNCATED LOGNORMAL-N	-7.82	.6	.001	.999	
37	BBIO (89,1)					LOGNORMAL-N	2.7	1.1			
38	BBIO (91,1)					LOGNORMAL-N	2.3	1.1			
39	BBIO (94,1)					LOGNORMAL-N	3.4	1.1			
40	BBIO (92,1)					LOGNORMAL-N	2.3	1.1			
41	RI					UNIFORM	.252	.618			
iiiiii	iiiiiiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiiiiiiiii				iiiiiiiiiiiiiiiiiiiiiiiiii				

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Pu-239.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.508E+01
2	0.000E+00	2.500E+01
3	0.000E+00	2.422E+01

1 RESRAD Regression and Correlation output 04/24/03 18:57 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Pu-239.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						
	Repetition =			1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				6	-0.09	8	-0.03
6	0.09	9	0.03	30	0.03	31	0.01
External gamma shielding factor				18	-0.06	19	-0.02
Well pump intake depth				20	-0.05	21	-0.02
Depth of soil mixing layer				5	0.10	7	0.04
4	-0.14	7	-0.04	2	-0.55	3	-0.25
Depth of roots				32	-0.03	33	-0.01
2	-0.71	3	-0.32	41	0.00	41	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables				30	-0.03	30	-0.01
41	0.00	41	0.00	34	-0.02	34	-0.01
Wet foliar interception fraction of leafy vegetables				11	0.07	13	0.03
30	-0.03	30	-0.01	4	0.11	6	0.04
Weathering removal constant of all vegetation				15	0.07	17	0.02
34	-0.02	34	-0.01	3	0.12	2	0.32
Mass loading for inhalation				27	0.03	4	0.04
15	0.07	17	0.02	34	0.02	5	0.04
Thickness of contaminated zone				37	0.01	38	0.00
3	0.27	2	0.62	20	-0.05	20	-0.02
Well pumping rate				36	0.01	37	0.00
26	0.05	6	0.05	25	-0.03	27	-0.01
Thickness of Unsaturated zone 1				39	0.00	39	0.00
9	0.08	4	0.19	22	0.04	25	0.01
Kd of Ac-227 in Contaminated Zone				40	0.00	40	0.00
11	0.08	13	0.03	23	-0.04	24	-0.01
Kd of Ac-227 in Unsaturated Zone 1				41	0.00	41	0.00
31	-0.03	31	-0.01	24	0.04	26	0.01
Kd of Ac-227 in Saturated Zone				7	0.09	10	0.03
21	0.05	22	0.02	19	0.05	22	0.02
Kd of Pa-231 in Contaminated Zone				10	0.07	12	0.03
37	-0.01	37	0.00	17	0.05	19	0.02
Kd of Pa-231 in Unsaturated Zone 1				1	0.91	1	0.85
32	0.03	32	0.01	31	-0.03	32	-0.01
Kd of Pa-231 in Saturated Zone				5	-0.13	8	-0.04
28	-0.04	28	-0.01	15	0.06	17	0.02
Kd of Pu-239 in Contaminated Zone							
7	-0.09	10	-0.03				
Kd of Pu-239 in Unsaturated Zone 1							
39	0.01	39	0.00				
Kd of Pu-239 in Saturated Zone							
29	-0.03	29	-0.01				
Kd of U-235 in Contaminated Zone							
35	0.02	35	0.00				
Kd of U-235 in Unsaturated Zone 1							
33	0.02	33	0.01				
Kd of U-235 in Saturated Zone							
10	0.08	12	0.03				
Plant transfer factor for Ac							
40	0.00	40	0.00				
Plant transfer factor for Pa							
36	0.01	36	0.00				
Plant transfer factor for Pu							
1	0.93	1	0.78				
Plant transfer factor for U							
5	-0.13	8	-0.04				
Meat transfer factor for Ac							
24	0.05	25	0.02				

Meat transfer factor for Pa	9	0.08	11	0.03
25 -0.05 26 -0.01				
Meat transfer factor for Pu	28	-0.03	29	-0.01
38 0.01 38 0.00				
Meat transfer factor for U	12	0.07	14	0.03
12 -0.08 14 -0.03				
Milk transfer factor for Ac	29	-0.03	30	-0.01
19 -0.06 20 -0.02				
Milk transfer factor for Pa	33	-0.02	34	-0.01
27 -0.04 27 -0.01				
Milk transfer factor for Pu	14	0.06	16	0.02
23 0.05 24 0.02				
Milk transfer factor for U	26	-0.03	28	-0.01
14 0.07 16 0.02				
Fish transfer factor for Ac	16	-0.05	18	-0.02
8 -0.09 11 -0.03				
Fish transfer factor for Pa	18	0.05	21	0.02
22 -0.05 23 -0.02				
Fish transfer factor for Pu	8	0.09	9	0.03
13 0.08 15 0.02				
Fish transfer factor for U	13	-0.06	15	-0.02
17 0.06 18 0.02				
Irrigation	38	0.00	35	-0.01
16 -0.06 5 -0.07				

R-SQUARE	0.87	0.87
0.90 0.90		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 18:57 Page: Coef 2
Title : Yankee Rowe Sensitivity Analysis=soil
Input File : YR_Pu-239.RAD

Coefficients for peak of mean dose time Dose		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	2	2
2	2		

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	20	0.05	20	0.02
22 -0.04 24 -0.01				
External gamma shielding factor	28	0.03	28	0.01
10 -0.09 11 -0.03				
Well pump intake depth	40	0.00	40	0.00
32 0.01 32 0.00				
Depth of soil mixing layer	5	-0.10	7	-0.04
39 0.00 39 0.00				
Depth of roots	2	-0.48	3	-0.19
2 -0.69 3 -0.28				
Wet weight crop yield of fruit, grain and non-leafy vegetables	25	0.04	25	0.01
14 -0.07 16 -0.02				
Wet foliar interception fraction of leafy vegetables	11	-0.07	12	-0.03
4 0.13 5 0.04				
Weathering removal constant of all vegetation	8	-0.08	10	-0.03
37 0.01 37 0.00				
Mass loading for inhalation	10	0.07	13	0.03
30 0.02 30 0.01				
Thickness of contaminated zone	3	0.11	2	0.26
3 0.19 2 0.39				
Well pumping rate	15	-0.06	5	-0.08
27 0.02 13 0.03				
Thickness of Unsaturated zone 1	39	0.00	30	-0.01
26 -0.03 4 -0.05				
Kd of Ac-227 in Contaminated Zone	33	0.01	34	0.00
33 -0.01 33 0.00				
Kd of Ac-227 in Unsaturated Zone 1	41	0.00	41	0.00
18 0.04 20 0.01				
Kd of Ac-227 in Saturated Zone	22	-0.05	22	-0.02
36 0.01 36 0.00				
Kd of Pa-231 in Contaminated Zone	32	-0.02	33	-0.01
28 -0.02 28 -0.01				
Kd of Pa-231 in Unsaturated Zone 1	13	-0.07	14	-0.02

9	0.09	10	0.03						
Kd of Pa-231 in Saturated Zone									
38	0.01	38	0.00			31	0.02	32	0.01
Kd of Pu-239 in Contaminated Zone									
15	-0.06	17	-0.02			21	-0.05	21	-0.02
Kd of Pu-239 in Unsaturated Zone 1									
13	0.07	15	0.02			6	0.10	8	0.03
Kd of Pu-239 in Saturated Zone									
21	-0.04	23	-0.01			27	0.03	27	0.01
Kd of U-235 in Contaminated Zone									
12	-0.08	14	-0.02			26	-0.04	26	-0.01
Kd of U-235 in Unsaturated Zone 1									
24	0.03	26	0.01			16	0.06	15	0.02
Kd of U-235 in Saturated Zone									
19	0.04	21	0.01			18	0.06	18	0.02
Plant transfer factor for Ac									
7	-0.10	8	-0.03			36	-0.01	37	0.00
Plant transfer factor for Pa									
11	-0.09	12	-0.03			29	0.03	29	0.01
Plant transfer factor for Pu									
1	0.94	1	0.80			1	0.93	1	0.86
Plant transfer factor for U									
29	0.02	29	0.01			19	0.06	19	0.02
Meat transfer factor for Ac									
25	0.03	27	0.01			24	-0.04	24	-0.02
Meat transfer factor for Pa									
35	0.01	35	0.00			9	-0.07	11	-0.03
Meat transfer factor for Pu									
34	-0.01	34	0.00			7	0.08	9	0.03
Meat transfer factor for U									
23	-0.04	25	-0.01			14	0.06	16	0.02
Milk transfer factor for Ac									
5	0.12	6	0.04			37	0.00	38	0.00
Milk transfer factor for Pa									
40	0.00	40	0.00			38	0.00	39	0.00
Milk transfer factor for Pu									
20	0.04	22	0.01			4	-0.10	6	-0.04
Milk transfer factor for U									
8	-0.10	9	-0.03			30	0.02	31	0.01
Fish transfer factor for Ac									
31	0.02	31	0.00			34	0.01	35	0.00
Fish transfer factor for Pa									
6	-0.10	7	-0.03			35	0.01	36	0.00
Fish transfer factor for Pu									
16	0.06	18	0.02			17	0.06	17	0.02
Fish transfer factor for U									
17	-0.05	19	-0.01			23	0.05	23	0.02
Irrigation									
41	0.00	41	0.00			12	0.07	4	0.08
<hr/>									
R-SQUARE									
0.91		0.91					0.88		0.88
<hr/>									

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 18:57 Page: Coef 3

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Pu-239.RAD

Coefficients for peak of mean dose time Dose							PCC	SRC		
PRCC	Coefficient =									
	SRRC									
	Repetition =						3	3		
3	3									
Description of Probabilistic Variable							Sig	Coeff	Sig	Coeff
Sig Coeff		Sig Coeff								
Indoor dust filtration factor							36	-0.01	36	0.00
12	0.06	12	0.02							
External gamma shielding factor							21	-0.04	20	-0.02
21	-0.04	21	-0.01							
Well pump intake depth							11	0.07	14	0.04
31	-0.02	31	-0.01							
Depth of soil mixing layer							27	0.03	29	0.01
35	-0.01	35	0.00							

Depth of roots	2	-0.38	3	-0.22
2 -0.69 2 -0.29				
Wet weight crop yield of fruit, grain and non-leafy vegetables	37	0.01	37	0.00
17 0.04 17 0.01				
Wet foliar interception fraction of leafy vegetables	26	-0.03	28	-0.01
29 -0.02 29 -0.01				
Weathering removal constant of all vegetation	4	0.13	6	0.07
39 -0.01 39 0.00				
Mass loading for inhalation	13	-0.06	15	-0.03
38 -0.01 38 0.00				
Thickness of contaminated zone	3	0.13	2	0.46
3 0.12 3 0.26				
Well pumping rate	33	0.01	24	0.02
4 -0.10 5 -0.11				
Thickness of Unsaturated zone 1	30	0.02	5	0.07
6 -0.09 4 -0.18				
Kd of Ac-227 in Contaminated Zone	23	-0.03	25	-0.02
28 0.02 28 0.01				
Kd of Ac-227 in Unsaturated Zone 1	40	0.00	40	0.00
22 -0.03 22 -0.01				
Kd of Ac-227 in Saturated Zone	34	0.01	34	0.00
36 0.01 36 0.00				
Kd of Pa-231 in Contaminated Zone	14	0.05	16	0.03
27 -0.03 27 -0.01				
Kd of Pa-231 in Unsaturated Zone 1	29	0.02	31	0.01
13 -0.06 13 -0.02				
Kd of Pa-231 in Saturated Zone	38	0.00	38	0.00
41 -0.01 41 0.00				
Kd of Pu-239 in Contaminated Zone	24	-0.03	26	-0.02
11 -0.06 11 -0.02				
Kd of Pu-239 in Unsaturated Zone 1	41	0.00	41	0.00
16 -0.05 16 -0.01				
Kd of Pu-239 in Saturated Zone	20	-0.04	22	-0.02
18 -0.04 18 -0.01				
Kd of U-235 in Contaminated Zone	6	0.08	8	0.05
19 0.04 19 0.01				
Kd of U-235 in Unsaturated Zone 1	39	0.00	39	0.00
7 -0.09 8 -0.03				
Kd of U-235 in Saturated Zone	8	-0.08	12	-0.04
26 -0.03 26 -0.01				
Plant transfer factor for Ac	31	-0.01	32	-0.01
15 -0.05 15 -0.02				
Plant transfer factor for Pa	16	0.05	17	0.03
34 0.01 34 0.00				
Plant transfer factor for Pu	1	0.81	1	0.73
1 0.93 1 0.78				
Plant transfer factor for U	32	0.01	33	0.01
32 -0.01 32 0.00				
Meat transfer factor for Ac	22	-0.04	23	-0.02
37 0.01 37 0.00				
Meat transfer factor for Pa	9	-0.08	10	-0.04
20 0.04 20 0.01				
Meat transfer factor for Pu	35	-0.01	35	0.00
25 0.03 25 0.01				
Meat transfer factor for U	12	-0.07	13	-0.04
14 -0.05 14 -0.02				
Milk transfer factor for Ac	25	0.03	27	0.02
23 -0.03 23 -0.01				
Milk transfer factor for Pa	7	0.08	9	0.04
33 0.01 33 0.00				
Milk transfer factor for Pu	5	0.09	7	0.05
40 0.01 40 0.00				
Milk transfer factor for U	19	-0.04	21	-0.02
10 0.06 10 0.02				
Fish transfer factor for Ac	17	0.05	19	0.02
30 -0.02 30 -0.01				
Fish transfer factor for Pa	10	-0.08	11	-0.04
5 -0.09 7 -0.03				
Fish transfer factor for Pu	15	-0.05	18	-0.03
9 -0.08 9 -0.02				
Fish transfer factor for U	28	-0.03	30	-0.01
24 -0.03 24 -0.01				
Irrigation	18	-0.05	4	-0.08
8 0.08 6 0.09				

R-SQUARE	0.73	0.73
0.91 0.91		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008
.000016	.1365 .00003 .8119 .00004 .9495		.00006 .9937 .000076 .9983
10	THICK0	UNIFORM	.15 3
11	UW	UNIFORM	957 1689
12	H(1)	UNIFORM	.01 2.85
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
16	DCACTC(4)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
17	DCACTU1(4)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
18	DCACTS(4)	TRUNCATED LOGNORMAL-N	6.86 1.89 .001 .999
19	DCACTC(5)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
20	DCACTU1(5)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
21	DCACTS(5)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
22	DCACTC(6)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
23	DCACTU1(6)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
24	DCACTS(6)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
25	BRTF(95,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
26	BRTF(93,1)	TRUNCATED LOGNORMAL-N	-3.91 .9 .001 .999
27	BRTF(94,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
28	BRTF(90,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
29	BRTF(92,1)	TRUNCATED LOGNORMAL-N	-6.21 .9 .001 .999
30	BRTF(95,2)	TRUNCATED LOGNORMAL-N	-9.9 .2 .001 .999
31	BRTF(93,2)	TRUNCATED LOGNORMAL-N	-6.91 .7 .001 .999
32	BRTF(94,2)	TRUNCATED LOGNORMAL-N	-9.21 .2 .001 .999
33	BRTF(90,2)	TRUNCATED LOGNORMAL-N	-9.21 1 .001 .999
34	BRTF(92,2)	TRUNCATED LOGNORMAL-N	-7.13 .7 .001 .999
35	BRTF(95,3)	TRUNCATED LOGNORMAL-N	-13.12 .7 .001 .999
36	BRTF(93,3)	TRUNCATED LOGNORMAL-N	-11.51 .7 .001 .999
37	BRTF(94,3)	TRUNCATED LOGNORMAL-N	-13.82 .5 .001 .999
38	BRTF(90,3)	TRUNCATED LOGNORMAL-N	-12.21 .9 .001 .999
39	BRTF(92,3)	TRUNCATED LOGNORMAL-N	-7.82 .6 .001 .999
40	BBIO(95,1)	LOGNORMAL-N	3.4 1.1
41	BBIO(93,1)	LOGNORMAL-N	3.4 1.1
42	BBIO(94,1)	LOGNORMAL-N	3.4 1.1
43	BBIO(90,1)	LOGNORMAL-N	4.6 1.1
44	BBIO(92,1)	LOGNORMAL-N	2.3 1.1
45	DCACTS(2)	TRUNCATED LOGNORMAL-N	2.84 2.25 .001 .999
46	DCACTC(2)	TRUNCATED LOGNORMAL-N	2.84 2.25 .001 .999
47	DCACTU1(2)	TRUNCATED LOGNORMAL	2.84 2.25 .001 .999
48	RI	UNIFORM	.252 .618

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Pu-241.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	4.125E+01	2.495E+01
2	4.125E+01	2.500E+01
3	4.125E+01	2.568E+01

1 RESRAD Regression and Correlation output 04/24/03 23:18 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Pu-241.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
PRCC	Coefficient =						
	SRRC						
	Repetition =			1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				19	0.06	24	0.02
32	0.03	32	0.01				
External gamma shielding factor				38	0.02	38	0.01
9	0.10	12	0.04				
Well pump intake depth				48	0.00	48	0.00
19	0.07	21	0.03				
Depth of soil mixing layer				28	-0.04	28	-0.02
21	-0.06	23	-0.02				
Depth of roots				2	-0.43	3	-0.20
2	-0.52	3	-0.25				
Wet weight crop yield of fruit, grain and non-leafy vegetables				5	-0.11	8	-0.05
35	0.03	35	0.01				
Wet foliar interception fraction of leafy vegetables				46	0.00	46	0.00
47	0.00	47	0.00				
Weathering removal constant of all vegetation				17	0.07	21	0.03
43	-0.01	43	0.00				
Mass loading for inhalation				21	0.06	25	0.02
24	0.06	25	0.02				
Thickness of contaminated zone				4	0.18	2	0.51
6	0.14	2	0.39				
Well pumping rate				23	0.05	6	0.07
26	-0.05	8	-0.07				
Thickness of Unsaturated zone 1				15	0.07	4	0.19
29	-0.05	4	-0.13				
Kd of Am-241 in Contaminated Zone				37	0.02	37	0.01
4	0.19	7	0.08				
Kd of Am-241 in Unsaturated Zone 1				36	0.02	36	0.01
39	0.02	39	0.01				
Kd of Am-241 in Saturated Zone				30	-0.03	32	-0.01
15	-0.07	18	-0.03				
Kd of Pu-241 in Contaminated Zone				47	0.00	47	0.00
41	-0.02	41	-0.01				
Kd of Pu-241 in Unsaturated Zone 1				40	0.01	40	0.01
31	-0.04	31	-0.01				
Kd of Pu-241 in Saturated Zone				10	-0.09	15	-0.04
16	-0.07	19	-0.03				
Kd of Th-229 in Contaminated Zone				39	-0.02	39	-0.01
33	0.03	34	0.01				
Kd of Th-229 in Unsaturated Zone 1				34	-0.03	34	-0.01
25	-0.05	27	-0.02				
Kd of Th-229 in Saturated Zone				24	-0.05	9	-0.04
5	0.16	9	0.07				
Kd of U-233 in Contaminated Zone				31	0.03	31	0.01
8	0.11	11	0.05				
Kd of U-233 in Unsaturated Zone 1				27	0.05	11	0.04
45	0.01	45	0.00				
Kd of U-233 in Saturated Zone				22	0.05	26	0.02
23	-0.06	26	-0.02				
Plant transfer factor for Am				1	0.90	1	0.82
1	0.86	1	0.69				
Plant transfer factor for Np				8	0.09	13	0.04
22	0.06	24	0.02				
Plant transfer factor for Pu				3	0.19	5	0.08
3	0.24	5	0.10				
Plant transfer factor for Th				6	-0.10	10	-0.04
37	0.02	37	0.01				
Plant transfer factor for U				29	-0.03	29	-0.01
34	-0.03	33	-0.01				

Meat transfer factor for Am	14	0.07	19	0.03
13 0.07 15 0.03				
Meat transfer factor for Np	41	-0.01	41	-0.01
44 -0.01 44 0.00				
Meat transfer factor for Pu	11	-0.09	16	-0.03
27 0.05 28 0.02				
Meat transfer factor for Th	32	0.03	33	0.01
40 0.02 40 0.01				
Meat transfer factor for U	13	0.07	17	0.03
30 0.04 30 0.02				
Milk transfer factor for Am	26	-0.05	27	-0.02
28 0.05 29 0.02				
Milk transfer factor for Np	45	0.00	45	0.00
42 -0.01 42 -0.01				
Milk transfer factor for Pu	42	-0.01	42	0.00
14 0.07 17 0.03				
Milk transfer factor for Th	35	0.03	35	0.01
18 -0.07 20 -0.03				
Milk transfer factor for U	16	0.07	20	0.03
12 -0.07 16 -0.03				
Fish transfer factor for Am	20	0.06	23	0.03
20 -0.06 22 -0.03				
Fish transfer factor for Np	18	0.06	22	0.03
36 -0.02 36 -0.01				
Fish transfer factor for Pu	12	0.08	18	0.03
48 0.00 48 0.00				
Fish transfer factor for Th	9	0.09	14	0.04
11 0.08 14 0.03				
Fish transfer factor for U	43	-0.01	44	0.00
38 -0.02 38 -0.01				
Kd of Np-237 in Saturated Zone	33	0.03	30	0.01
7 -0.11 10 -0.05				
Kd of Np-237 in Contaminated Zone	44	0.01	43	0.00
46 -0.01 46 0.00				
Kd of Np-237 in Unsaturated Zone 1	7	-0.10	12	-0.04
10 -0.09 13 -0.04				
Irrigation	25	-0.05	7	-0.07
17 0.07 6 0.10				

R-SQUARE	0.85	0.85
0.84 0.84		

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 23:18 Page: Coef 2
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : YR_Pu-241.RAD

Coefficients for peak of mean dose time Dose		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	2	2
2	2		

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff				
Indoor dust filtration factor	12	0.10	14	0.04
39 -0.02 40 -0.01				
External gamma shielding factor	16	0.08	17	0.03
14 0.10 15 0.04				
Well pump intake depth	30	-0.03	30	-0.01
37 -0.03 38 -0.01				
Depth of soil mixing layer	48	0.00	48	0.00
27 -0.06 27 -0.02				
Depth of roots	2	-0.41	4	-0.18
2 -0.61 3 -0.29				
Wet weight crop yield of fruit, grain and non-leafy vegetables	47	0.00	47	0.00
22 -0.07 23 -0.03				
Wet foliar interception fraction of leafy vegetables	40	-0.01	40	-0.01
40 -0.02 41 -0.01				
Weathering removal constant of all vegetation	27	-0.04	28	-0.02
25 -0.06 26 -0.02				
Mass loading for inhalation	8	0.15	10	0.06
8 0.12 10 0.04				
Thickness of contaminated zone	5	0.16	2	0.44

4	0.21	2	0.54						
Well pumping rate									
10	0.11	4	0.14				9	0.13	5 0.18
Thickness of Unsaturated zone 1							25	0.04	6 0.11
41	0.02	12	0.04						
Kd of Am-241 in Contaminated Zone							24	0.05	25 0.02
3	0.22	6	0.08						
Kd of Am-241 in Unsaturated Zone 1							10	0.12	11 0.05
16	0.09	17	0.03						
Kd of Am-241 in Saturated Zone							42	-0.01	42 0.00
23	-0.07	24	-0.02						
Kd of Pu-241 in Contaminated Zone							36	-0.02	35 -0.01
20	0.08	21	0.03						
Kd of Pu-241 in Unsaturated Zone 1							46	0.01	45 0.00
19	0.08	20	0.03						
Kd of Pu-241 in Saturated Zone							33	0.03	33 0.01
46	-0.01	46	0.00						
Kd of Th-229 in Contaminated Zone							29	-0.04	29 -0.02
29	0.05	30	0.02						
Kd of Th-229 in Unsaturated Zone 1							21	0.06	23 0.02
30	-0.05	31	-0.02						
Kd of Th-229 in Saturated Zone							4	0.17	9 0.07
13	-0.11	14	-0.04						
Kd of U-233 in Contaminated Zone							43	0.01	43 0.00
47	0.00	47	0.00						
Kd of U-233 in Unsaturated Zone 1							28	0.04	27 0.02
12	-0.11	13	-0.04						
Kd of U-233 in Saturated Zone							44	-0.01	44 0.00
17	-0.08	18	-0.03						
Plant transfer factor for Am							1	0.89	1 0.81
1	0.89	1	0.72						
Plant transfer factor for Np							22	-0.06	22 -0.02
31	-0.04	32	-0.02						
Plant transfer factor for Pu							3	0.20	7 0.08
5	0.19	7	0.07						
Plant transfer factor for Th							34	0.03	34 0.01
45	-0.01	45	0.00						
Plant transfer factor for U							15	0.09	16 0.04
43	0.01	43	0.00						
Meat transfer factor for Am							38	0.02	38 0.01
26	0.06	28	0.02						
Meat transfer factor for Np							35	0.02	36 0.01
42	-0.01	42	0.00						
Meat transfer factor for Pu							13	0.10	15 0.04
48	0.00	48	0.00						
Meat transfer factor for Th							23	-0.05	24 -0.02
44	-0.01	44	0.00						
Meat transfer factor for U							18	0.08	19 0.03
33	-0.03	34	-0.01						
Milk transfer factor for Am							45	0.01	46 0.00
32	0.03	33	0.01						
Milk transfer factor for Np							20	-0.06	21 -0.02
21	-0.08	22	-0.03						
Milk transfer factor for Pu							26	-0.04	26 -0.02
15	-0.09	16	-0.03						
Milk transfer factor for Th							39	0.02	39 0.01
38	-0.02	39	-0.01						
Milk transfer factor for U							17	-0.08	18 -0.03
28	-0.06	29	-0.02						
Fish transfer factor for Am							19	0.07	20 0.03
7	-0.12	9	-0.05						
Fish transfer factor for Np							31	-0.03	31 -0.01
9	-0.11	11	-0.04						
Fish transfer factor for Pu							14	-0.09	12 -0.05
34	-0.03	35	-0.01						
Fish transfer factor for Th							6	0.15	8 0.08
6	0.12	8	0.05						
Fish transfer factor for U							11	0.11	13 0.04
24	0.07	25	0.02						
Kd of Np-237 in Saturated Zone							41	-0.01	41 -0.01
18	0.08	19	0.03						
Kd of Np-237 in Contaminated Zone							32	-0.03	32 -0.01
35	-0.03	36	-0.01						
Kd of Np-237 in Unsaturated Zone 1							37	-0.02	37 -0.01
36	0.03	37	0.01						
Irrigation							7	-0.15	3 -0.20
11	-0.11	5	-0.14						
R-SQUARE									
0.86		0.86					0.85		0.85

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/24/03 23:18 Page: Coef 3
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : YR_Pu-241.RAD

Coefficients for peak of mean dose time Dose					
Coefficient =				PCC	SRC
PRCC	SRRC				
	Repetition =				
3	3			3	3
Description of Probabilistic Variable				Sig Coeff	Sig Coeff
Sig Coeff	Sig Coeff				
Indoor dust filtration factor				47	0.00
42	0.02	42	0.01		
External gamma shielding factor				42	0.00
27	0.06	29	0.02	43	
Well pump intake depth				32	-0.01
10	-0.10	13	-0.04	35	
Depth of soil mixing layer				18	0.03
48	0.00	48	0.00	18	
Depth of roots				2	-0.22
2	-0.63	3	-0.30	3	
Wet weight crop yield of fruit, grain and non-leafy vegetables				13	-0.03
6	-0.14	9	-0.05	14	
Wet foliar interception fraction of leafy vegetables				38	0.01
19	-0.07	22	-0.02	39	
Weathering removal constant of all vegetation				46	0.00
18	-0.07	21	-0.03	46	
Mass loading for inhalation				26	-0.02
40	0.02	41	0.01	28	
Thickness of contaminated zone				8	0.25
5	0.23	2	0.53	2	
Well pumping rate				5	-0.18
20	-0.07	6	-0.09	4	
Thickness of Unsaturated zone 1				43	-0.02
41	0.02	8	0.05	20	
Kd of Am-241 in Contaminated Zone				28	0.02
3	0.28	4	0.11	29	
Kd of Am-241 in Unsaturated Zone 1				31	0.01
29	0.05	31	0.02	32	
Kd of Am-241 in Saturated Zone				34	0.01
8	0.13	11	0.05	33	
Kd of Pu-241 in Contaminated Zone				35	0.01
39	0.03	40	0.01	36	
Kd of Pu-241 in Unsaturated Zone 1				21	0.03
11	-0.09	14	-0.03	19	
Kd of Pu-241 in Saturated Zone				16	-0.04
17	-0.07	20	-0.03	11	
Kd of Th-229 in Contaminated Zone				41	-0.01
35	-0.03	36	-0.01	42	
Kd of Th-229 in Unsaturated Zone 1				48	0.00
13	-0.09	16	-0.03	48	
Kd of Th-229 in Saturated Zone				6	0.07
23	0.06	24	0.02	7	
Kd of U-233 in Contaminated Zone				45	0.00
33	-0.04	34	-0.01	45	
Kd of U-233 in Unsaturated Zone 1				7	-0.07
14	-0.08	17	-0.03	8	
Kd of U-233 in Saturated Zone				37	0.01
43	-0.02	43	-0.01	38	
Plant transfer factor for Am				1	0.86
1	0.89	1	0.71	1	
Plant transfer factor for Np				29	0.02
25	-0.06	27	-0.02	30	
Plant transfer factor for Pu				3	0.10
4	0.26	5	0.10	6	
Plant transfer factor for Th				44	0.00
24	0.06	26	0.02	44	
Plant transfer factor for U				22	0.02
31	-0.05	32	-0.02	24	
Meat transfer factor for Am				15	-0.03
38	-0.03	39	-0.01	16	
Meat transfer factor for Np				20	0.02
36	-0.03	37	-0.01	22	
Meat transfer factor for Pu				36	0.01

22 -0.06	25 -0.02				
Meat transfer factor for Th				30 -0.04	31 -0.02
12 0.09	15 0.03				
Meat transfer factor for U				12 0.09	13 0.03
9 0.11	12 0.04				
Milk transfer factor for Am				11 -0.09	12 -0.03
16 -0.07	19 -0.03				
Milk transfer factor for Np				40 0.02	41 0.01
32 -0.04	33 -0.01				
Milk transfer factor for Pu				19 -0.06	23 -0.02
21 0.07	23 0.02				
Milk transfer factor for Th				9 -0.10	10 -0.04
15 -0.08	18 -0.03				
Milk transfer factor for U				14 0.08	15 0.03
37 0.03	38 0.01				
Fish transfer factor for Am				33 -0.03	34 -0.01
7 0.13	10 0.05				
Fish transfer factor for Np				4 -0.17	9 -0.07
44 -0.02	44 -0.01				
Fish transfer factor for Pu				39 -0.02	40 -0.01
28 0.05	30 0.02				
Fish transfer factor for Th				17 -0.07	17 -0.03
47 0.01	47 0.00				
Fish transfer factor for U				23 0.05	25 0.02
34 -0.04	35 -0.01				
Kd of Np-237 in Saturated Zone				24 -0.05	21 -0.02
26 -0.06	28 -0.02				
Kd of Np-237 in Contaminated Zone				27 0.04	26 0.02
46 0.01	46 0.00				
Kd of Np-237 in Unsaturated Zone 1				25 0.04	27 0.02
45 0.02	45 0.01				
Irrigation				10 0.10	5 0.13
30 0.05	7 0.06				
<hr/>					
R-SQUARE				0.87	0.87
0.87	0.87				
<hr/>					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

```
0Number of Sample Runs: 900
```

Number	Name	Distribution	Parameters
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DM	TRIANGULAR	0 .15 .6
4	DROOT	UNIFORM	.3 4
5	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
6	RWET(2)	TRIANGULAR	.06 .67 .95
7	WLAM	TRIANGULAR	5.1 18 84
8	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119	.00004 .9495	.00006 .9937 .000076 .9983 .0001 1
9	THICK0	UNIFORM	.15 3
10	H(1)	UNIFORM	.01 2.85
11	DCACTC(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
12	DCACTU1(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
13	DCACTS(1)	TRUNCATED LOGNORMAL-N	7.28 3.15 .001 .999
14	BRTF(95,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
15	BRTF(95,2)	TRUNCATED LOGNORMAL-N	-9.9 .2 .001 .999
16	BRTF(95,3)	TRUNCATED LOGNORMAL-N	-13.12 .7 .001 .999
17	BBIO(95,1)	LOGNORMAL-N	3.4 1.1
18	BRTF(93,1)	TRUNCATED LOGNORMAL-N	-3.91 .9 .001 .999
19	BRTF(93,2)	TRUNCATED LOGNORMAL-N	-6.91 .7 .001 .999
20	BRTF(93,3)	TRUNCATED LOGNORMAL-N	-11.51 .7 .001 .999
21	BBIO(93,1)	LOGNORMAL-N	3.4 1.1
22	DCACTC(3)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
23	DCACTU1(3)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
24	DCACTS(3)	TRUNCATED LOGNORMAL-N	8.68 3.62 .001 .999
25	BRTF(90,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
26	BRTF(90,2)	TRUNCATED LOGNORMAL-N	-9.21 1 .001 .999
27	BRTF(90,3)	TRUNCATED LOGNORMAL-N	-12.21 .9 .001 .999
28	BBIO(90,1)	LOGNORMAL-N	4.6 1.1
29	DCACTC(4)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
30	DCACTU1(4)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
31	DCACTS(4)	TRUNCATED LOGNORMAL-N	4.84 3.13 .001 .999
32	BRTF(92,1)	TRUNCATED LOGNORMAL-N	-6.21 .9 .001 .999
33	BRTF(92,2)	TRUNCATED LOGNORMAL-N	-7.13 .7 .001 .999
34	BRTF(92,3)	TRUNCATED LOGNORMAL-N	-7.82 .6 .001 .999
35	BBIO(92,1)	LOGNORMAL-N	2.3 1.1
36	DCACTC(2)	TRUNCATED LOGNORMAL-N	2.84 2.25 .001 .999
37	DCACTU1(2)	TRUNCATED LOGNORMAL-N	2.84 2.25 .001 .999
38	DCACTS(2)	TRUNCATED LOGNORMAL-N	2.84 2.25 .001 .999
39	UW	UNIFORM	957 1689
40	RI	UNIFORM	.252 .618
41	DWIBWT	TRIANGULAR	6 10 30
iiiiii	iiiiiiiii	iiiiiiiii	iiiiiiiii

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 22:20 Page 22
 Probabilistic results summary : DCGL to Dose for Am-241 File: Am-241.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.500E+01
 2 0.000E+00 2.501E+01
 3 0.000E+00 2.438E+01
 1 RESRAD Regression and Correlation output 04/21/03 23:12 Page: Coef 1
 Title : DCGL to Dose for Am-241
 Input File : Am-241.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC			1		1	
Repetition =				1		1	
1	1						
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
Indoor dust filtration factor				17	0.06	18	0.02
34	0.02	36	0.01				
External gamma shielding factor				35	0.01	35	0.01
10	0.10	12	0.03				
Depth of soil mixing layer				22	0.04	22	0.02
40	-0.01	40	0.00				
Depth of roots				2	-0.44	4	-0.19
2	-0.70	3	-0.30				
Wet weight crop yield of fruit, grain and non-leafy vegetables				12	0.07	13	0.03
30	0.03	32	0.01				
Wet foliar interception fraction of leafy vegetables				15	-0.06	16	-0.02
14	-0.07	16	-0.02				
Weathering removal constant of all vegetation				36	0.01	37	0.00
29	0.03	31	0.01				
Mass loading for inhalation				5	-0.15	8	-0.06
24	-0.04	27	-0.01				
Thickness of contaminated zone				4	0.16	2	0.41
3	0.20	2	0.40				
Thickness of Unsaturated zone 1				21	0.04	6	0.11
36	-0.02	8	-0.04				
Kd of Am-241 in Contaminated Zone				18	0.06	19	0.02
39	-0.01	39	0.00				
Kd of Am-241 in Unsaturated Zone 1				11	-0.08	12	-0.03
6	-0.13	6	-0.04				
Kd of Am-241 in Saturated Zone				34	-0.01	34	-0.01
38	0.01	38	0.00				
Plant transfer factor for Am				1	0.91	1	0.85
1	0.93	1	0.77				
Meat transfer factor for Am				24	-0.04	24	-0.02
8	-0.11	10	-0.03				
Milk transfer factor for Am				33	-0.02	33	-0.01
31	0.03	33	0.01				
Fish transfer factor for Am				14	-0.06	15	-0.02
9	-0.11	11	-0.03				
Plant transfer factor for Np				3	-0.18	7	-0.07
32	-0.03	34	-0.01				
Meat transfer factor for Np				6	-0.14	9	-0.06
22	-0.05	25	-0.02				
Milk transfer factor for Np				9	0.10	10	0.04
20	0.06	23	0.02				
Fish transfer factor for Np				41	0.00	41	0.00
41	0.00	41	0.00				
Kd of Th-229 in Contaminated Zone				40	0.00	40	0.00
15	-0.07	17	-0.02				
Kd of Th-229 in Unsaturated Zone 1				38	-0.01	38	0.00
25	-0.04	28	-0.01				
Kd of Th-229 in Saturated Zone				26	-0.04	26	-0.01
12	-0.09	14	-0.03				
Plant transfer factor for Th				10	-0.10	11	-0.04
18	0.07	20	0.02				
Meat transfer factor for Th				29	0.02	29	0.01
16	0.07	18	0.02				
Milk transfer factor for Th				16	0.06	17	0.02
13	0.08	15	0.03				
Fish transfer factor for Th				37	0.01	36	0.00
11	0.09	13	0.03				
Kd of U-233 in Contaminated Zone				39	-0.01	39	0.00
33	-0.02	35	-0.01				
Kd of U-233 in Unsaturated Zone 1				27	-0.03	27	-0.01

23 -0.04	26 -0.01				
Kd of U-233 in Saturated Zone					
37 0.02	37 0.00	23	0.04	23	0.02
Plant transfer factor for U					
27 0.03	30 0.01	32	0.02	31	0.01
Meat transfer factor for U					
21 0.05	24 0.02	25	0.04	25	0.02
Milk transfer factor for U					
5 0.14	5 0.04	20	0.05	21	0.02
Fish transfer factor for U					
28 0.03	29 0.01	13	0.06	14	0.02
Kd of Np-237 in Contaminated Zone					
4 0.18	4 0.06	28	-0.03	28	-0.01
Kd of Np-237 in Unsaturated Zone 1					
7 -0.13	7 -0.04	31	0.02	32	0.01
Kd of Np-237 in Saturated Zone					
19 0.06	22 0.02	30	0.02	30	0.01
Well pumping rate					
35 -0.02	21 -0.02	8	-0.11	5	-0.16
Irrigation					
26 0.03	9 0.03	7	0.14	3	0.19
Well pump intake depth					
17 -0.07	19 -0.02	19	0.05	20	0.02
<hr/>					
R-SQUARE			0.86		0.86
0.91	0.91				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 23:12 Page: Coef 2
Title : DCGI to Dose for Am-241
Input File : Am-241.RAD

Coefficients for peak of mean dose time Dose		PCC		SRC	
PRCC	Coefficient =				
	SRRC				
	Repetition =				
2	2	2		2	
<hr/>					
Description of Probabilistic Variable		Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff	Sig	Coeff
<hr/>					
Indoor dust filtration factor		12	0.06	14	0.02
7 0.09	10 0.03				
External gamma shielding factor		31	0.03	31	0.01
4 0.12	6 0.04				
Depth of soil mixing layer		9	-0.08	11	-0.03
6 -0.10	9 -0.03				
Depth of roots		2	-0.50	2	-0.22
2 -0.66	3 -0.27				
Wet weight crop yield of fruit, grain and non-leafy vegetables		19	-0.04	20	-0.02
12 -0.06	15 -0.02				
Wet foliar interception fraction of leafy vegetables		28	-0.03	28	-0.01
39 -0.01	39 0.00				
Weathering removal constant of all vegetation		20	-0.04	21	-0.02
41 0.00	41 0.00				
Mass loading for inhalation		22	0.04	23	0.02
17 -0.05	19 -0.02				
Thickness of contaminated zone		23	0.04	6	0.10
3 0.17	2 0.36				
Thickness of Unsaturated zone 1		13	-0.05	5	-0.14
23 -0.03	5 -0.05				
Kd of Am-241 in Contaminated Zone		15	0.05	15	0.02
29 0.02	29 0.01				
Kd of Am-241 in Unsaturated Zone 1		34	0.02	34	0.01
30 0.02	30 0.01				
Kd of Am-241 in Saturated Zone		14	-0.05	16	-0.02
16 -0.05	18 -0.02				
Plant transfer factor for Am		1	0.92	1	0.87
1 0.93	1 0.80				
Meat transfer factor for Am		11	0.08	13	0.03
24 -0.03	24 -0.01				
Milk transfer factor for Am		33	0.02	33	0.01
27 0.02	27 0.01				
Fish transfer factor for Am		26	-0.04	26	-0.01
33 -0.02	33 -0.01				

Plant transfer factor for Np	41	0.00	41	0.00
18 -0.04 20 -0.01				
Meat transfer factor for Np	32	0.02	32	0.01
20 -0.03 21 -0.01				
Milk transfer factor for Np	21	-0.04	22	-0.02
13 -0.06 16 -0.02				
Fish transfer factor for Np	6	-0.12	9	-0.05
25 -0.02 25 -0.01				
Kd of Th-229 in Contaminated Zone	37	-0.01	37	0.00
5 0.10 8 0.03				
Kd of Th-229 in Unsaturated Zone 1	24	-0.04	24	-0.02
34 0.02 34 0.01				
Kd of Th-229 in Saturated Zone	27	0.04	27	0.01
32 0.02 32 0.01				
Plant transfer factor for Th	38	0.01	38	0.00
40 0.00 40 0.00				
Meat transfer factor for Th	4	-0.14	7	-0.05
11 0.06 14 0.02				
Milk transfer factor for Th	36	-0.01	36	0.00
21 0.03 22 0.01				
Fish transfer factor for Th	30	-0.03	30	-0.01
38 -0.01 38 0.00				
Kd of U-233 in Contaminated Zone	17	-0.05	18	-0.02
35 0.01 35 0.00				
Kd of U-233 in Unsaturated Zone 1	18	-0.04	19	-0.02
9 -0.07 12 -0.02				
Kd of U-233 in Saturated Zone	40	0.01	40	0.00
8 0.07 11 0.02				
Plant transfer factor for U	10	0.08	12	0.03
14 0.05 17 0.02				
Meat transfer factor for U	35	-0.02	35	-0.01
10 0.06 13 0.02				
Milk transfer factor for U	8	-0.09	10	-0.03
31 -0.02 31 -0.01				
Fish transfer factor for U	29	0.03	29	0.01
36 0.01 36 0.00				
Kd of Np-237 in Contaminated Zone	39	-0.01	39	0.00
26 -0.02 26 -0.01				
Kd of Np-237 in Unsaturated Zone 1	5	-0.12	8	-0.05
22 -0.03 23 -0.01				
Kd of Np-237 in Saturated Zone	25	0.04	25	0.01
37 0.01 37 0.00				
Well pumping rate	3	0.14	3	0.19
19 0.03 7 0.04				
Irrigation	7	-0.11	4	-0.15
15 -0.05 4 -0.06				
Well pump intake depth	16	-0.05	17	-0.02
28 -0.02 28 -0.01				
<hr/>				
R-SQUARE		0.86		0.86
0.90 0.90				

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 23:12 Page: Coef 3

Title : DCGL to Dose for Am-241

Input File : Am-241.RAD

Coefficients for peak of mean dose time Dose		PCC	SRC	
PRCC	Coefficient =			
	SRRC			
	Repetition =	3	3	
3	3			
<hr/>				
Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	
Indoor dust filtration factor	32	0.01	33	0.00
26 0.03 28 0.01				
External gamma shielding factor	4	0.14	5	0.07
4 0.18 4 0.06				
Depth of soil mixing layer	13	-0.06	13	-0.03
13 -0.08 15 -0.03				
Depth of roots	2	-0.42	4	-0.23
2 -0.69 3 -0.29				
Wet weight crop yield of fruit, grain and non-leafy vegetables	36	0.01	37	0.00

35	0.01	36	0.00				
Wet foliar interception fraction of leafy vegetables				5	-0.13	6	-0.06
6	-0.13	8	-0.04				
Weathering removal constant of all vegetation				12	-0.07	12	-0.03
9	0.10	11	0.03				
Mass loading for inhalation				38	0.00	39	0.00
37	0.01	37	0.00				
Thickness of contaminated zone				3	0.17	2	0.58
3	0.23	2	0.49				
Thickness of Unsaturated zone 1				10	0.08	3	0.26
29	0.02	6	0.05				
Kd of Am-241 in Contaminated Zone				8	0.10	8	0.05
19	0.05	21	0.02				
Kd of Am-241 in Unsaturated Zone 1				21	0.03	20	0.02
28	0.03	30	0.01				
Kd of Am-241 in Saturated Zone				34	0.01	35	0.00
18	-0.06	20	-0.02				
Plant transfer factor for Am				1	0.85	1	0.79
1	0.93	1	0.78				
Meat transfer factor for Am				33	0.01	34	0.00
23	0.05	24	0.01				
Milk transfer factor for Am				9	0.10	10	0.05
10	0.10	12	0.03				
Fish transfer factor for Am				25	-0.02	25	-0.01
30	0.02	31	0.01				
Plant transfer factor for Np				24	0.03	24	0.01
24	0.04	25	0.01				
Meat transfer factor for Np				19	0.04	19	0.02
7	-0.12	9	-0.04				
Milk transfer factor for Np				14	-0.06	14	-0.03
21	0.05	22	0.02				
Fish transfer factor for Np				16	-0.05	16	-0.03
34	-0.01	35	0.00				
Kd of Th-229 in Contaminated Zone				26	-0.02	26	-0.01
15	-0.08	16	-0.02				
Kd of Th-229 in Unsaturated Zone 1				37	0.00	38	0.00
27	-0.03	29	-0.01				
Kd of Th-229 in Saturated Zone				11	0.07	11	0.04
16	0.07	18	0.02				
Plant transfer factor for Th				31	0.01	31	0.01
8	-0.12	10	-0.04				
Meat transfer factor for Th				17	0.05	17	0.03
31	-0.02	32	-0.01				
Milk transfer factor for Th				40	0.00	40	0.00
12	-0.10	14	-0.03				
Fish transfer factor for Th				15	-0.06	15	-0.03
40	-0.01	40	0.00				
Kd of U-233 in Contaminated Zone				28	-0.02	28	-0.01
14	0.08	17	0.02				
Kd of U-233 in Unsaturated Zone 1				27	-0.02	27	-0.01
33	-0.02	34	-0.01				
Kd of U-233 in Saturated Zone				22	-0.03	22	-0.02
41	0.00	41	0.00				
Plant transfer factor for U				6	0.12	7	0.06
32	0.02	33	0.01				
Meat transfer factor for U				35	0.01	36	0.00
39	0.01	39	0.00				
Milk transfer factor for U				30	-0.01	30	-0.01
17	0.06	19	0.02				
Fish transfer factor for U				18	0.05	18	0.02
11	-0.10	13	-0.03				
Kd of Np-237 in Contaminated Zone				20	0.04	21	0.02
22	-0.05	23	-0.02				
Kd of Np-237 in Unsaturated Zone 1				23	-0.03	23	-0.02
25	0.04	27	0.01				
Kd of Np-237 in Saturated Zone				29	-0.01	29	-0.01
5	-0.13	7	-0.04				
Well pumping rate				41	0.00	41	0.00
20	-0.05	5	-0.05				
Irrigation				39	0.00	32	0.00
36	0.01	26	0.01				
Well pump intake depth				7	-0.10	9	-0.05
38	0.01	38	0.00				
R-SQUARE					0.77		0.77
0.91		0.91					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution		Parameters						
AAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAA
1	SHF3	UNIFORM		.15	.95					
2	SHF1	BOUNDED LOGNORMAL-N		-1.3	.59	.044	1			
3	DM	TRIANGULAR		0	.15	.6				
4	DROOT	UNIFORM		.3	4					
5	YV(1)	TRUNCATED LOGNORMAL-N		.56	.48	.001	.999			
6	RWET(2)	TRIANGULAR		.06	.67	.95				
7	WLAM	TRIANGULAR		5.1	18	84				
8	MLINH	CONTINUOUS LINEAR		8	0	0		.000008	.0151	
.000016	.1365	.00003	.8119	.00004	.9495	.00006	.9937	.000076	.9983	.0001
9	THICK0	UNIFORM		.15	3					
10	UW	UNIFORM		957	1689					
11	H(1)	UNIFORM		.01	2.85					
12	DCACTC(4)	TRUNCATED LOGNORMAL-N		8.82	1.82	.001	.999			
13	DCACTU1(4)	TRUNCATED LOGNORMAL-N		8.82	1.82	.001	.999			
14	DCACTS(4)	TRUNCATED LOGNORMAL-N		8.82	1.82	.001	.999			
15	BRTF(96,1)	TRUNCATED LOGNORMAL-N		-6.91	.9	.001	.999			
16	BRTF(96,2)	TRUNCATED LOGNORMAL-N		-10.82	1	.001	.999			
17	BRTF(96,3)	TRUNCATED LOGNORMAL-N		-13.12	.9	.001	.999			
18	BBIO(96,1)	LOGNORMAL-N		3.4	1.1					
19	DCACTC(1)	TRUNCATED LOGNORMAL-N		6.72	3.22	.001	.999			
20	DCACTU1(1)	TRUNCATED LOGNORMAL-N		6.72	3.22	.001	.999			
21	DCACTS(1)	TRUNCATED LOGNORMAL-N		6.72	3.22	.001	.999			
22	BRTF(89,1)	TRUNCATED LOGNORMAL-N		-6.91	1.1	.001	.999			
23	BRTF(89,2)	TRUNCATED LOGNORMAL-N		-10.82	1	.001	.999			
24	BRTF(89,3)	TRUNCATED LOGNORMAL-N		-13.12	.9	.001	.999			
25	BBIO(89,1)	LOGNORMAL-N		2.7	1.1					
26	DCACTC(2)	TRUNCATED LOGNORMAL-N		7.28	3.15	.001	.999			
27	DCACTU1(2)	TRUNCATED LOGNORMAL-N		7.28	3.15	.001	.999			
28	DCACTS(2)	TRUNCATED LOGNORMAL-N		7.28	3.15	.001	.999			
29	BRTF(95,1)	TRUNCATED LOGNORMAL-N		-6.91	.9	.001	.999			
30	BRTF(95,2)	TRUNCATED LOGNORMAL-N		-9.9	.2	.001	.999			
31	BRTF(95,3)	TRUNCATED LOGNORMAL-N		-13.12	.7	.001	.999			
32	BBIO(95,1)	LOGNORMAL-N		3.4	1.1					
33	DCACTC(5)	TRUNCATED LOGNORMAL-N		5.94	3.22	.001	.999			
34	DCACTU1(5)	TRUNCATED LOGNORMAL-N		5.94	3.22	.001	.999			
35	DCACTS(5)	TRUNCATED LOGNORMAL-N		5.94	3.22	.001	.999			
36	BRTF(91,1)	TRUNCATED LOGNORMAL-N		-4.61	1.1	.001	.999			
37	BRTF(91,2)	TRUNCATED LOGNORMAL-N		-12.21	1	.001	.999			
38	BRTF(91,3)	TRUNCATED LOGNORMAL-N		-12.21	.9	.001	.999			
39	BBIO(91,1)	LOGNORMAL-N		2.3	1.1					
40	DCACTC(6)	TRUNCATED LOGNORMAL-N		6.86	1.89	.001	.999			
41	DCACTU1(6)	TRUNCATED LOGNORMAL-N		6.86	1.89	.001	.999			
42	DCACTS(6)	TRUNCATED LOGNORMAL-N		6.86	1.89	.001	.999			
43	BRTF(94,1)	TRUNCATED LOGNORMAL-N		-6.91	.9	.001	.999			
44	BRTF(94,2)	TRUNCATED LOGNORMAL-N		-9.21	.2	.001	.999			
45	BRTF(94,3)	TRUNCATED LOGNORMAL-N		-13.82	.5	.001	.999			
46	BBIO(94,1)	LOGNORMAL-N		3.4	1.1					
47	DCACTC(7)	TRUNCATED LOGNORMAL-N		4.84	3.13	.001	.999			
48	DCACTU1(7)	TRUNCATED LOGNORMAL-N		4.84	3.13	.001	.999			
49	DCACTS(7)	TRUNCATED LOGNORMAL-N		4.84	3.13	.001	.999			

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:19 Page 23
 Probabilistic results summary : DCGL to Dose for Cm243 File: Cm-243.RAD
 Peak of the mean dose (averaged over observations) at graphical times
 Repetition Time of peak mean dose Peak mean dose
 Years mrem/yr
 1 0.000E+00 2.500E+01
 2 0.000E+00 2.478E+01
 3 0.000E+00 2.540E+01
 1 RESRAD Regression and Correlation output 04/21/03 23:00 Page: Coef 1
 Title : DCGL to Dose for Cm243
 Input File : Cm-243.RAD

Coefficients for peak of mean dose time Dose				PCC		SRC	
Coefficient =							
PRCC	SRRC						
	Repetition =						
1	1			1		1	

Description of Probabilistic Variable				Sig		Coeff	
Sig Coeff Sig Coeff							
Indoor dust filtration factor				53	0.00	54	0.00
13	-0.09	15	-0.03				
External gamma shielding factor				3	0.34	4	0.15
2	0.66	3	0.29				
Depth of soil mixing layer				46	0.01	49	0.00
23	0.06	24	0.02				
Depth of roots				2	-0.49	3	-0.22
3	-0.56	4	-0.23				
Wet weight crop yield of fruit, grain and non-leafy vegetables				21	-0.06	21	-0.02
53	0.00	54	0.00				
Wet foliar interception fraction of leafy vegetables				28	0.04	29	0.02
32	0.04	32	0.01				
Weathering removal constant of all vegetation				32	0.03	33	0.01
9	-0.12	11	-0.04				
Mass loading for inhalation				8	-0.08	9	-0.03
48	0.01	48	0.00				
Thickness of contaminated zone				7	0.08	2	0.25
5	0.17	2	0.42				
Well pumping rate				50	-0.01	40	-0.01
21	0.06	5	0.07				
Thickness of Unsaturated zone 1				51	-0.01	28	-0.02
55	0.00	50	0.00				
Kd of Cm-243 in Contaminated Zone				25	-0.05	25	-0.02
10	0.11	12	0.04				
Kd of Cm-243 in Unsaturated Zone 1				36	-0.02	38	-0.01
16	-0.08	18	-0.03				
Kd of Cm-243 in Saturated Zone				31	0.03	32	0.01
37	0.03	37	0.01				
Plant transfer factor for Cm				1	0.89	1	0.80
1	0.91	1	0.75				
Meat transfer factor for Cm				16	0.07	16	0.03
19	-0.07	21	-0.02				
Milk transfer factor for Cm				10	0.08	11	0.03
4	0.17	6	0.06				
Fish transfer factor for Cm				23	-0.05	23	-0.02
36	-0.04	36	-0.01				
Kd of Ac-227 in Contaminated Zone				33	0.03	34	0.01
22	0.06	23	0.02				
Kd of Ac-227 in Unsaturated Zone 1				12	-0.08	12	-0.03
46	0.02	46	0.01				
Kd of Ac-227 in Saturated Zone				41	0.02	43	0.01
42	0.03	42	0.01				
Plant transfer factor for Ac				26	-0.05	24	-0.02
6	-0.13	8	-0.04				
Meat transfer factor for Ac				9	0.08	10	0.03
11	0.11	13	0.04				
Milk transfer factor for Ac				40	-0.02	42	-0.01
12	0.10	14	0.03				
Fish transfer factor for Ac				55	0.00	55	0.00
8	-0.13	10	-0.04				
Kd of Am-243 in Contaminated Zone				19	0.06	17	0.03
51	0.00	52	0.00				
Kd of Am-243 in Unsaturated Zone 1				43	-0.01	45	-0.01
29	-0.05	30	-0.02				
Kd of Am-243 in Saturated Zone				35	0.03	37	0.01
25	-0.05	26	-0.02				
Plant transfer factor for Am				17	-0.07	19	-0.03
18	-0.07	20	-0.02				
Meat transfer factor for Am				42	-0.02	44	-0.01

28	0.05	29	0.02				
Milk transfer factor for Am				30	-0.03	30	-0.01
7	-0.13	9	-0.04				
Fish transfer factor for Am				13	0.08	8	0.04
49	-0.01	49	0.00				
Kd of Pa-231 in Contaminated Zone				4	0.20	5	0.08
52	0.00	53	0.00				
Kd of Pa-231 in Unsaturated Zone 1				22	0.05	22	0.02
44	-0.03	44	-0.01				
Kd of Pa-231 in Saturated Zone				5	0.19	6	0.08
45	-0.02	45	-0.01				
Plant transfer factor for Pa				37	0.02	39	0.01
39	-0.03	39	-0.01				
Meat transfer factor for Pa				39	0.02	41	0.01
47	0.01	47	0.00				
Milk transfer factor for Pa				11	0.08	13	0.03
31	0.04	31	0.01				
Fish transfer factor for Pa				20	-0.06	20	-0.02
33	-0.04	33	-0.01				
Kd of Pu-239 in Contaminated Zone				29	-0.03	31	-0.01
24	-0.05	25	-0.02				
Kd of Pu-239 in Unsaturated Zone 1				6	0.13	7	0.05
27	-0.05	28	-0.02				
Kd of Pu-239 in Saturated Zone				18	-0.06	18	-0.03
26	-0.05	27	-0.02				
Plant transfer factor for Pu				48	0.01	50	0.00
35	-0.04	35	-0.01				
Meat transfer factor for Pu				15	0.07	15	0.03
54	0.00	55	0.00				
Milk transfer factor for Pu				24	0.05	26	0.02
17	-0.08	19	-0.03				
Fish transfer factor for Pu				49	-0.01	51	0.00
43	0.03	43	0.01				
Kd of U-235 in Contaminated Zone				52	0.01	52	0.00
20	-0.06	22	-0.02				
Kd of U-235 in Unsaturated Zone 1				38	-0.02	36	-0.01
38	-0.03	38	-0.01				
Kd of U-235 in Saturated Zone				34	-0.03	35	-0.01
41	-0.03	41	-0.01				
Plant transfer factor for U				47	-0.01	48	0.00
14	-0.09	16	-0.03				
Meat transfer factor for U				45	-0.01	47	0.00
40	-0.03	40	-0.01				
Milk transfer factor for U				14	-0.07	14	-0.03
15	-0.08	17	-0.03				
Fish transfer factor for U				44	0.01	46	0.00
50	0.01	51	0.00				
Irrigation				54	0.00	53	0.00
30	-0.04	7	-0.05				
Well pump intake depth				27	-0.04	27	-0.02
34	0.04	34	0.01				
R-SQUARE					0.86		0.86
0.89		0.89					

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 23:00 Page: Coef 2

Title : DCGL to Dose for Cm243

Input File : Cm-243.RAD

Coefficients for peak of mean dose time Dose							
Coefficient =				PCC		SRC	
PRCC		SRRC					
Repetition =				2		2	
2		2					
Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig Coeff Sig Coeff							
Indoor dust filtration factor				8	0.11	11	0.04
33	0.03	33	0.01				
External gamma shielding factor				3	0.40	4	0.17
2	0.66	2	0.31				
Depth of soil mixing layer				27	0.05	28	0.02
12	0.08	13	0.03				

Depth of roots	2	-0.55	3	-0.26
3 -0.62 3 -0.28				
Wet weight crop yield of fruit, grain and non-leafy vegetables	50	-0.02	49	-0.01
44 -0.01 44 0.00				
Wet foliar interception fraction of leafy vegetables	33	-0.04	35	-0.01
52 0.00 52 0.00				
Weathering removal constant of all vegetation	20	0.06	22	0.02
40 0.02 40 0.01				
Mass loading for inhalation	24	0.05	25	0.02
4 0.21 8 0.08				
Thickness of contaminated zone	7	0.12	2	0.34
5 0.11 4 0.26				
Well pumping rate	12	0.09	6	0.12
8 0.10 6 0.11				
Thickness of Unsaturated zone 1	48	0.02	10	0.05
21 -0.06 5 -0.13				
Kd of Cm-243 in Contaminated Zone	44	-0.02	45	-0.01
47 0.01 47 0.00				
Kd of Cm-243 in Unsaturated Zone 1	29	-0.04	29	-0.02
49 0.00 49 0.00				
Kd of Cm-243 in Saturated Zone	4	-0.20	7	-0.09
50 0.00 50 0.00				
Plant transfer factor for Cm	1	0.89	1	0.83
1 0.91 1 0.74				
Meat transfer factor for Cm	6	-0.13	9	-0.06
37 0.03 37 0.01				
Milk transfer factor for Cm	49	0.02	50	0.01
30 -0.04 30 -0.01				
Fish transfer factor for Cm	17	-0.08	16	-0.03
14 0.08 15 0.03				
Kd of Ac-227 in Contaminated Zone	45	0.02	46	0.01
31 -0.04 31 -0.01				
Kd of Ac-227 in Unsaturated Zone 1	51	0.02	51	0.01
25 -0.04 25 -0.01				
Kd of Ac-227 in Saturated Zone	46	0.02	47	0.01
18 0.07 19 0.02				
Plant transfer factor for Ac	34	-0.04	33	-0.02
7 -0.10 10 -0.04				
Meat transfer factor for Ac	16	0.08	17	0.03
19 -0.06 20 -0.02				
Milk transfer factor for Ac	35	-0.04	36	-0.01
9 -0.09 11 -0.03				
Fish transfer factor for Ac	32	-0.04	34	-0.02
27 -0.04 26 -0.01				
Kd of Am-243 in Contaminated Zone	37	0.03	38	0.01
26 0.04 27 0.01				
Kd of Am-243 in Unsaturated Zone 1	31	-0.04	32	-0.02
24 -0.05 23 -0.02				
Kd of Am-243 in Saturated Zone	5	-0.14	8	-0.06
13 -0.08 14 -0.03				
Plant transfer factor for Am	26	0.05	26	0.02
15 0.08 16 0.03				
Meat transfer factor for Am	41	-0.02	42	-0.01
46 -0.01 46 0.00				
Milk transfer factor for Am	25	0.05	27	0.02
6 0.10 9 0.04				
Fish transfer factor for Am	14	-0.08	15	-0.03
39 0.02 39 0.01				
Kd of Pa-231 in Contaminated Zone	28	0.04	30	0.02
34 -0.03 34 -0.01				
Kd of Pa-231 in Unsaturated Zone 1	42	-0.02	43	-0.01
35 -0.03 35 -0.01				
Kd of Pa-231 in Saturated Zone	54	0.01	54	0.00
10 0.09 12 0.03				
Plant transfer factor for Pa	11	0.10	13	0.04
32 0.03 32 0.01				
Meat transfer factor for Pa	36	0.04	37	0.01
28 0.04 28 0.01				
Milk transfer factor for Pa	13	-0.09	14	-0.03
54 0.00 54 0.00				
Fish transfer factor for Pa	55	0.00	55	0.00
41 -0.02 41 -0.01				
Kd of Pu-239 in Contaminated Zone	18	-0.07	19	-0.03
51 0.00 51 0.00				
Kd of Pu-239 in Unsaturated Zone 1	53	0.01	53	0.00
16 0.07 17 0.02				
Kd of Pu-239 in Saturated Zone	52	-0.01	52	0.00
38 -0.02 38 -0.01				
Plant transfer factor for Pu	19	-0.07	20	-0.03
20 0.06 21 0.02				
Meat transfer factor for Pu	23	0.05	24	0.02
36 -0.03 36 -0.01				
Milk transfer factor for Pu	15	-0.08	18	-0.03

43 -0.01	43	0.00				
Fish transfer factor for Pu						
42 -0.02	42	-0.01	47	0.02	48	0.01
Kd of U-235 in Contaminated Zone						
30	0.04	31	0.02			
48 -0.01	48	0.00				
Kd of U-235 in Unsaturated Zone 1						
39	0.03	40	0.01			
29 -0.04	29	-0.01				
Kd of U-235 in Saturated Zone						
40	0.03	41	0.01			
17 -0.07	18	-0.02				
Plant transfer factor for U						
21	-0.06	21	-0.03			
23	0.05	24	0.02			
Meat transfer factor for U						
22	0.06	23	0.02			
55	0.00	55	0.00			
Milk transfer factor for U						
10	-0.10	12	-0.04			
45	0.01	45	0.00			
Fish transfer factor for U						
43	0.02	44	0.01			
53	0.00	53	0.00			
Irrigation						
9	-0.11	5	-0.14			
11 -0.09	7	-0.10				
Well pump intake depth						
38	-0.03	39	-0.01			
22 -0.05	22	-0.02				

R-SQUARE						
0.88	0.88			0.86		0.86

-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

1 RESRAD Regression and Correlation output 04/21/03 23:00 Page: Coef 3
Title : DCGL to Dose for Cm243
Input File : Cm-243.RAD

Coefficients for peak of mean dose time Dose						
	Coefficient =		PCC		SRC	
PRCC	SRRC					
	Repetition =		3		3	
3	3					

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor	33	0.03	33	0.01
38 -0.02	39	-0.01		
External gamma shielding factor	3	0.41	4	0.15
2	0.65	3	0.29	
Depth of soil mixing layer	24	0.04	26	0.01
8	0.10	9	0.03	
Depth of roots	2	-0.53	2	-0.22
3	-0.63	4	-0.28	
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	0.06	20	0.02
14 -0.07	15	-0.03		
Wet foliar interception fraction of leafy vegetables	49	-0.01	50	0.00
22 -0.05	24	-0.02		
Weathering removal constant of all vegetation	45	0.01	45	0.00
28 -0.03	29	-0.01		
Mass loading for inhalation	17	0.06	21	0.02
45	0.01	46	0.00	
Thickness of contaminated zone	9	0.08	3	0.18
6	0.14	2	0.32	
Well pumping rate	19	0.06	6	0.06
51	0.01	38	0.01	
Thickness of Unsaturated zone 1	23	-0.04	5	-0.10
25 -0.04	5	-0.10		
Kd of Cm-243 in Contaminated Zone	54	0.00	54	0.00
21	0.05	23	0.02	
Kd of Cm-243 in Unsaturated Zone 1	39	0.02	39	0.01
27 -0.04	28	-0.01		
Kd of Cm-243 in Saturated Zone	32	-0.03	32	-0.01
32 -0.03	33	-0.01		
Plant transfer factor for Cm	1	0.92	1	0.84
1	0.91	1	0.73	
Meat transfer factor for Cm	47	-0.01	46	0.00
10	0.08	11	0.03	
Milk transfer factor for Cm	43	-0.01	42	0.00
55	0.00	55	0.00	
Fish transfer factor for Cm	28	-0.04	29	-0.01
35	0.02	36	0.01	

Kd of Ac-227 in Contaminated Zone	4	-0.14	7	-0.05
20 0.05 22 0.02				
Kd of Ac-227 in Unsaturated Zone 1	31	0.03	31	0.01
33 0.02 34 0.01				
Kd of Ac-227 in Saturated Zone	50	-0.01	49	0.00
31 0.03 32 0.01				
Plant transfer factor for Ac	20	-0.05	23	-0.02
24 -0.04 26 -0.01				
Meat transfer factor for Ac	21	0.05	24	0.02
44 0.01 45 0.00				
Milk transfer factor for Ac	13	0.07	16	0.02
23 0.05 25 0.02				
Fish transfer factor for Ac	12	0.07	13	0.03
26 -0.04 27 -0.01				
Kd of Am-243 in Contaminated Zone	41	-0.01	41	0.00
5 0.16 7 0.06				
Kd of Am-243 in Unsaturated Zone 1	29	-0.04	30	-0.01
43 0.01 44 0.01				
Kd of Am-243 in Saturated Zone	51	0.00	51	0.00
52 0.00 52 0.00				
Plant transfer factor for Am	26	-0.04	27	-0.01
47 -0.01 48 0.00				
Meat transfer factor for Am	11	-0.07	15	-0.03
4 -0.16 6 -0.06				
Milk transfer factor for Am	40	-0.02	40	-0.01
11 -0.08 12 -0.03				
Fish transfer factor for Am	6	0.13	9	0.05
46 0.01 47 0.00				
Kd of Pa-231 in Contaminated Zone	44	-0.01	44	0.00
50 0.01 51 0.00				
Kd of Pa-231 in Unsaturated Zone 1	55	0.00	55	0.00
7 0.10 8 0.03				
Kd of Pa-231 in Saturated Zone	10	0.08	14	0.03
19 0.05 21 0.02				
Plant transfer factor for Pa	37	0.02	38	0.01
48 -0.01 49 0.00				
Meat transfer factor for Pa	5	-0.14	8	-0.05
9 0.08 10 0.03				
Milk transfer factor for Pa	8	-0.10	12	-0.03
18 0.06 20 0.02				
Fish transfer factor for Pa	35	0.03	36	0.01
39 -0.02 40 -0.01				
Kd of Pu-239 in Contaminated Zone	48	0.01	48	0.00
15 -0.06 17 -0.02				
Kd of Pu-239 in Unsaturated Zone 1	52	0.00	52	0.00
53 0.00 53 0.00				
Kd of Pu-239 in Saturated Zone	36	0.02	37	0.01
34 0.02 35 0.01				
Plant transfer factor for Pu	7	-0.11	10	-0.04
42 -0.02 43 -0.01				
Meat transfer factor for Pu	14	0.06	18	0.02
29 -0.03 30 -0.01				
Milk transfer factor for Pu	15	-0.06	17	-0.02
16 0.06 18 0.02				
Fish transfer factor for Pu	53	0.00	53	0.00
41 0.02 42 0.01				
Kd of U-235 in Contaminated Zone	46	-0.01	47	0.00
49 0.01 50 0.00				
Kd of U-235 in Unsaturated Zone 1	25	-0.04	19	-0.02
37 -0.02 37 -0.01				
Kd of U-235 in Saturated Zone	38	0.02	34	0.01
54 0.00 54 0.00				
Plant transfer factor for U	18	0.06	22	0.02
30 -0.03 31 -0.01				
Meat transfer factor for U	34	0.03	35	0.01
12 0.08 13 0.03				
Milk transfer factor for U	42	0.01	43	0.00
40 0.02 41 0.01				
Fish transfer factor for U	22	0.04	25	0.01
13 -0.08 14 -0.03				
Irrigation	30	-0.03	11	-0.04
36 -0.02 16 -0.03				
Well pump intake depth	27	-0.04	28	-0.01
17 0.06 19 0.02				

R-SQUARE	0.89	0.89
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.
-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

