

Probabilistic Input

Number of Sample Runs: 900

Number	Name	Distribution	Parameters			
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		

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 Years	Peak mean dose 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 =		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	13	0.04	15	0.01	6	0.08	6	0.0
External gamma shielding factor	9	-0.05	11	-0.01	12	-0.04	14	-0.0
Well pump intake depth	10	0.05	12	0.01	10	0.05	12	0.0
Depth of soil mixing layer	18	-0.02	18	-0.01	16	-0.03	18	-0.0
Depth of roots	1	-0.77	2	-0.32	1	-0.79	2	-0.0
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	-0.12	6	-0.03	9	-0.06	11	-0.0
Wet foliar interception fraction of leafy vegetables	8	0.06	10	0.02	7	0.07	7	0.0
Weathering removal constant of all vegetation	11	0.04	13	0.01	18	0.01	19	0.0
Mass loading for inhalation	20	-0.01	20	0.00	11	-0.05	13	-0.0
Thickness of contaminated zone	3	0.41	1	0.84	3	0.44	1	0.0
Thickness of Unsaturated zone 1	16	-0.03	5	-0.06	19	-0.01	8	-0.0
Well pumping rate	15	-0.03	7	-0.03	17	-0.02	9	-0.0
Kd of H-3 in Contaminated Zone	2	-0.48	3	-0.15	2	-0.52	3	-0.0
Kd of H-3 in Unsaturated Zone 1	17	0.03	17	0.01	14	0.04	16	0.0
Kd of H-3 in Saturated Zone	5	-0.07	8	-0.02	4	-0.12	5	-0.0
Plant transfer factor for H	12	0.04	14	0.01	8	-0.06	10	-0.0
Meat transfer factor for H	7	-0.06	9	-0.02	13	-0.04	15	-0.0
Milk transfer factor for H	14	0.03	16	0.01	15	0.03	17	0.0
Fish transfer factor for H	19	0.01	19	0.00	20	0.00	20	0.0
Irrigation	6	-0.07	4	-0.06	5	-0.09	4	-0.0
R-SQUARE		0.93		0.93		0.94		0.0

-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 =		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	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

-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 =		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	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

-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.



Repetition	Time of peak mean dose Years	Peak mean dose 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		PCC	SRC
PRCC	Coefficient = SRRC Repetition =		
1	1	1	1

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

PRCC	SRRC				
	Repetition =			2	2
2	2				

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	5	-0.11	5	-0.02
4 -0.13 6 -0.02				
External gamma shielding factor	4	-0.12	4	-0.02
5 -0.11 7 -0.02				
Depth of soil mixing layer	11	0.05	12	0.01
11 0.04 13 0.01				
Depth of roots	1	-0.85	2	-0.30
1 -0.89 2 -0.30				
Wet weight crop yield of fruit, grain and non-leafy vegetables	20	0.00	21	0.00
20 0.00 20 0.00				
Wet foliar interception fraction of leafy vegetables	8	-0.07	10	-0.01
7 -0.08 10 -0.01				
Weathering removal constant of all vegetation	16	0.03	17	0.01
19 0.00 19 0.00				
Mass loading for inhalation	12	-0.04	13	-0.01
15 -0.03 16 0.00				
Thickness of contaminated zone	2	0.61	1	0.93
2 0.65 1 0.91				
Thickness of Unsaturated zone 1	21	0.00	20	0.00
16 -0.02 5 -0.02				
Kd of C-14 in Contaminated Zone	13	-0.04	14	-0.01
6 0.10 8 0.02				
Kd of C-14 in Unsaturated Zone 1	7	0.08	8	0.02
21 0.00 21 0.00				
Kd of C-14 in Saturated Zone	9	0.07	9	0.01
12 -0.04 14 -0.01				
Plant transfer factor for C	10	0.07	11	0.01
10 0.04 12 0.01				
Meat transfer factor for C	18	-0.02	18	0.00
18 0.01 18 0.00				
Milk transfer factor for C	14	-0.04	15	-0.01
8 -0.05 11 -0.01				
Fish transfer factor for C	6	0.11	6	0.02
17 -0.01 17 0.00				
Thickness of evasion layer of C-14 in soil	3	0.33	3	0.07
3 0.36 3 0.06				
Well pumping rate	17	-0.03	7	-0.02
9 -0.04 4 -0.02				
Irrigation	19	0.01	19	0.00
14 0.03 9 0.01				
Well pump intake depth	15	-0.03	16	-0.01
13 -0.03 15 0.00				
R-SQUARE		0.97		0.97
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 3  
 Title : DCGL to Dose for C-14  
 Input File : C-14.RAD

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	20	0.01	19	0.00
20 0.01 20 0.00				
External gamma shielding factor	14	0.04	15	0.01
11 -0.04 12 -0.01				
Depth of soil mixing layer	13	0.04	14	0.01
15 0.03 16 0.01				



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				
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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

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
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

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
External gamma shielding factor	1	0.99	1	0.97
Well pump intake depth	6	0.08	9	0.01
Depth of soil mixing layer	19	0.00	19	0.00
Depth of roots	3	-0.37	4	-0.05
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.07	11	-0.01
Wet foliar interception fraction of leafy vegetables	10	-0.04	13	-0.01
Weathering removal constant of all vegetation	7	-0.07	10	-0.01
Mass loading for inhalation	16	0.01	16	0.00
Thickness of contaminated zone	8	0.07	3	0.06
Thickness of Unsaturated zone 1	11	-0.03	5	-0.02
Well pumping rate	15	0.01	12	0.01
Kd of Mn-54 in Contaminated Zone	18	-0.01	18	0.00
Kd of Mn-54 in Unsaturated Zone 1	5	-0.11	7	-0.01
Kd of Mn-54 in Saturated Zone	13	0.02	14	0.00
Plant transfer factor for Mn	2	0.87	2	0.21
Meat transfer factor for Mn	20	0.00	20	0.00
Milk transfer factor for Mn	14	-0.02	15	0.00
Fish transfer factor for Mn	4	0.13	6	0.02
Irrigation	12	-0.02	8	-0.01
R-SQUARE	0.95	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 20:17 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		



3	-0.20	6	-0.04						
	Wet weight crop yield of fruit, grain and non-leafy vegetables			8	0.05	10	0.00		
16	0.03	16	0.01						
	Wet foliar interception fraction of leafy vegetables			12	-0.03	13	0.00		
15	-0.03	17	-0.01						
	Weathering removal constant of all vegetation			7	0.05	9	0.00		
17	0.02	18	0.00						
	Mass loading for inhalation			11	0.03	12	0.00		
8	0.07	9	0.01						
	Thickness of contaminated zone			4	0.14	3	0.08		
7	0.07	3	0.10						
	Thickness of Unsaturated zone 1			9	0.04	5	0.03		
19	0.02	7	0.02						
	Well pumping rate			18	-0.02	8	-0.01		
5	-0.10	4	-0.07						
	Kd of Mn-54 in Contaminated Zone			14	0.02	15	0.00		
4	0.11	8	0.02						
	Kd of Mn-54 in Unsaturated Zone 1			15	-0.02	16	0.00		
12	-0.05	13	-0.01						
	Kd of Mn-54 in Saturated Zone			17	-0.02	18	0.00		
20	0.00	20	0.00						
	Plant transfer factor for Mn			2	0.93	2	0.22		
2	0.68	2	0.19						
	Meat transfer factor for Mn			19	0.01	20	0.00		
11	0.05	12	0.01						
	Milk transfer factor for Mn			13	-0.03	14	0.00		
18	0.02	19	0.00						
	Fish transfer factor for Mn			16	-0.02	17	0.00		
13	-0.04	14	-0.01						
	Irrigation			20	0.00	19	0.00		
6	0.08	5	0.06						
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	R-SQUARE				0.99		0.99		
0.96		0.96							
<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
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	5.34 2.67 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.34 2.67 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.34 2.67 .001 .999
16	BRTF(26,1)	TRUNCATED LOGNORMAL-N	-6.91 .9 .001 .999
17	BRTF(26,2)	TRUNCATED LOGNORMAL-N	-3.51 .4 .001 .999
18	BRTF(26,3)	TRUNCATED LOGNORMAL-N	-8.11 .7 .001 .999
19	BBIO(26,1)	LOGNORMAL-N	5.3 1.1
20	RI	UNIFORM	.252 .618
iiiiii	iiiiii	iiiiii	iiiiii

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		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		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		PCC	SRC
PRCC	Coefficient = SRRC		





3	-0.31	4	-0.11				
	Wet weight crop yield of fruit, grain and non-leafy vegetables			19	0.01	19	0.00
19	-0.01	19	0.00				
	Wet foliar interception fraction of leafy vegetables			10	-0.07	11	-0.02
10	-0.10	13	-0.03				
	Weathering removal constant of all vegetation			17	-0.01	17	0.00
13	0.06	15	0.02				
	Mass loading for inhalation			16	0.02	16	0.01
18	0.01	18	0.00				
	Thickness of contaminated zone			7	0.11	3	0.22
6	0.11	3	0.24				
	Thickness of Unsaturated zone 1			15	0.02	8	0.05
17	0.02	8	0.05				
	Well pumping rate			8	-0.11	4	-0.11
11	-0.09	5	-0.10				
	Kd of Fe-55 in Contaminated Zone			14	0.03	14	0.01
7	0.10	10	0.03				
	Kd of Fe-55 in Unsaturated Zone 1			20	0.01	20	0.00
15	0.04	16	0.01				
	Kd of Fe-55 in Saturated Zone			13	-0.03	15	-0.01
20	0.00	20	0.00				
	Plant transfer factor for Fe			2	0.84	2	0.44
2	0.70	2	0.32				
	Meat transfer factor for Fe			1	0.94	1	0.82
1	0.94	1	0.87				
	Milk transfer factor for Fe			4	0.18	7	0.05
4	0.22	6	0.07				
	Fish transfer factor for Fe			12	0.04	13	0.01
16	-0.03	17	-0.01				
	Irrigation			9	0.08	6	0.08
14	0.05	7	0.06				
<hr/>							
	R-SQUARE				0.92		0.92
0.90		0.90					
<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: 3000

Number	Name	Distribution	Parameters
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	6.05 1.46 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.05 1.46 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.05 1.46 .001 .999
16	BRTF(28,1)	TRUNCATED LOGNORMAL-N	-3 .9 .001 .999
17	BRTF(28,2)	TRUNCATED LOGNORMAL-N	-5.3 .9 .001 .999
18	BRTF(28,3)	TRUNCATED LOGNORMAL-N	-3.91 .7 .001 .999
19	BBIO(28,1)	LOGNORMAL-N	4.6 1.1
20	RI	UNIFORM	.252 .618
iiiiii	iiiiii	iiiiii	iiiiii

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
19 -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
17 -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		11	-0.02
12 0.03	15 0.01		11 -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	10 -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 0.16	3 0.34		3 0.20
Thickness of Unsaturated zone 1		20	0.00
20 -0.01	7 -0.02		15 0.01
Well pumping rate		8	-0.03
18 0.03	6 0.03		5 -0.06
Kd of Ni-59 in Contaminated Zone		19	0.00
15 0.03	18 0.01		20 0.00
Kd of Ni-59 in Unsaturated Zone 1		12	-0.02
9 -0.04	12 -0.01		12 -0.01
Kd of Ni-59 in Saturated Zone		4	-0.08
6 0.06	9 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	8 -0.02		10 0.01
Irrigation		9	0.03
16 -0.03	5 -0.03		6 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 04/25/03 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		



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/>							
	R-SQUARE				0.72		0.72
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 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		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
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		PCC	SRC
PRCC	Coefficient = SRRC		
	Repetition =		





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				
<hr/>							
	R-SQUARE				0.72		0.72
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	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	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
iiiiii	iiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiii	iiiiiiiiiiiiiiiiiiii

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.502E+01
2	0.000E+00	2.494E+01
3	0.000E+00	2.500E+01

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

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

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
9	-0.08	10	-0.02	16	-0.02	18	0.00
1	0.96	1	0.93	1	0.97	1	0.88
11	-0.06	13	-0.02	14	-0.02	17	-0.01
4	-0.30	7	-0.08	4	-0.30	5	-0.07
12	0.06	14	0.02	11	0.04	14	0.01
19	-0.01	19	0.00	9	0.05	12	0.01
20	0.01	20	0.00	7	-0.07	7	-0.02
13	0.06	15	0.02	8	0.07	8	0.02
14	0.05	6	0.09	19	-0.01	9	-0.02
17	-0.01	12	-0.02	6	-0.07	3	-0.11
7	0.11	8	0.03	12	0.03	15	0.01
16	-0.02	17	0.00	18	0.01	19	0.00
15	-0.03	16	-0.01	10	0.04	13	0.01
2	0.61	2	0.21	2	0.83	2	0.35
3	0.33	5	0.09	3	0.37	4	0.09
8	0.09	9	0.02	5	0.28	6	0.07
10	0.07	11	0.02	20	0.00	20	0.00
6	-0.12	4	-0.11	15	0.02	10	0.02
5	0.12	3	0.11	17	0.01	11	0.01
18	0.01	18	0.00	13	-0.03	16	-0.01
R-SQUARE				0.95	0.95		
0.93	0.93						

-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 2  
 Title : DCGL to Dose for Co-60  
 Input File : Co-60.RAD

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

Description of Probabilistic Variable		Sig	Coeff	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		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	3	3
3	3		

Description of Probabilistic Variable		Sig	Coeff	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.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
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	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	
	Repetition =		
1	1	1	1

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
7	0.08	7	0.03	17	0.01	19	0.01
10	0.06	11	0.02	10	-0.04	11	-0.02
13	-0.05	14	-0.02	8	0.06	10	0.02
6	0.11	6	0.03	16	0.01	17	0.01
2	-0.64	3	-0.27	2	-0.37	3	-0.16
8	-0.06	8	-0.02	7	-0.08	8	-0.03
9	-0.06	10	-0.02	18	-0.01	20	0.00
11	0.05	12	0.02	6	-0.08	9	-0.03
18	-0.01	20	0.00	15	0.01	18	0.01
4	0.20	2	0.43	11	0.04	4	0.12
20	0.00	19	0.00	20	-0.01	15	-0.01
17	0.01	9	0.02	9	-0.06	2	-0.16
15	-0.04	16	-0.01	13	-0.03	13	-0.01
16	0.02	17	0.01	3	-0.13	5	-0.06
12	-0.05	13	-0.02	14	0.02	16	0.01
1	0.93	1	0.80	1	0.90	1	0.84
5	0.15	5	0.05	12	0.04	12	0.01
3	0.21	4	0.07	4	0.11	7	0.04
14	-0.04	15	-0.01	5	0.11	6	0.05
19	0.00	18	0.01	19	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	
	SRRC		





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.



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				PCC	SRC
PRCC	Coefficient =	SRRC	Repetition =		
1	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				PCC	SRC
PRCC	Coefficient =	SRRC			



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/>							
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.



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	1

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



Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.500E+01
2	0.000E+00	2.502E+01
3	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		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	1	1
1	1		

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



Repetition	Time of peak mean dose Years	Peak mean dose 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		PCC	SRC
PRCC	Coefficient =		
	SRRC		
	Repetition =	1	1
1	1		

Description of Probabilistic Variable		Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff	Sig	Coeff
6	-0.08	18	-0.01	7	0.00
1	1.00	1	1.00	1	1.00
7	-0.08	4	-0.11	8	0.00
18	-0.01	15	-0.02	17	0.00
11	-0.03	11	-0.06	11	0.00
20	0.00	20	0.00	20	0.00
8	-0.06	14	0.04	16	0.00
10	0.04	12	0.05	12	0.00
17	-0.01	10	-0.07	10	0.00
2	0.30	9	0.08	9	0.00
12	0.02	6	0.09	8	0.00
16	-0.01	13	0.04	15	0.00
4	0.20	2	0.34	2	0.01
9	-0.05	19	0.00	19	0.00
3	0.23	3	0.24	5	0.00
5	-0.11	5	-0.10	7	0.00
14	0.02	18	0.01	14	0.00
19	0.01	17	0.01	13	0.00
13	0.02	7	0.09	3	0.01
15	-0.02	8	-0.08	4	-0.01
1.00	1.00	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		PCC	SRC
PRCC	Coefficient =		
	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		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	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				
<hr/>				
R-SQUARE		1.00		1.00
1.00	1.00			
<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
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	
	Repetition =		PCC SRC
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	
	SRRC		PCC SRC



19	-0.02	19	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	9	0.00
9	-0.07	11	-0.01				
	Weathering removal constant of all vegetation			3	0.10	6	0.01
4	0.12	8	0.01				
	Mass loading for inhalation			13	0.03	15	0.00
15	0.03	16	0.00				
	Thickness of contaminated zone			14	0.03	4	0.01
14	0.04	5	0.02				
	Well pumping rate			8	-0.05	3	-0.01
8	-0.07	4	-0.02				
	Thickness of Unsaturated zone 1			18	0.01	12	0.00
18	0.02	7	0.01				
	Kd of Sb-125 in Contaminated Zone			15	0.03	16	0.00
2	0.31	2	0.03				
	Kd of Sb-125 in Unsaturated Zone 1			20	0.00	20	0.00
13	-0.04	15	0.00				
	Kd of Sb-125 in Saturated Zone			17	0.01	18	0.00
12	0.05	14	0.01				
	Plant transfer factor for Sb			2	0.31	2	0.03
3	0.14	6	0.01				
	Meat transfer factor for Sb			10	0.05	13	0.00
17	-0.02	18	0.00				
	Milk transfer factor for Sb			7	-0.05	10	0.00
5	-0.09	9	-0.01				
	Fish transfer factor for Sb			12	-0.04	14	0.00
11	-0.06	13	-0.01				
	Irrigation			11	0.04	5	0.01
6	0.08	3	0.03				
<hr/>							
	R-SQUARE				0.99		0.99
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.



Repetition	Time of peak mean dose Years	Peak mean dose 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			
PRCC	Coefficient =	PCC	SRC
	SRRC		
	Repetition =		
1	1	1	1

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

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R-SQUARE		0.85	0.85
0.88	0.88		

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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.

Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
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
iiiiii	iiiiii	iiiiii	iiiiii

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	2.500E+01
2	0.000E+00	2.494E+01
3	0.000E+00	2.512E+01

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

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

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
	Indoor dust filtration factor	7	-0.12	10	-0.04		
14	-0.04 14 -0.02						
	External gamma shielding factor	2	0.60	3	0.26		
2	0.81 3 0.52						
	Depth of soil mixing layer	13	0.03	13	0.01		
13	0.09 13 0.03						
	Depth of roots	3	-0.40	5	-0.15		
4	-0.45 6 -0.19						
	Wet weight crop yield of fruit, grain and non-leafy vegetables	17	0.00	17	0.00		
18	-0.02 18 -0.01						
	Wet foliar interception fraction of leafy vegetables	14	0.02	14	0.01		
15	-0.03 15 -0.01						
	Weathering removal constant of all vegetation	11	0.03	11	0.01		
20	-0.01 20 -0.01						
	Mass loading for inhalation	12	-0.03	12	-0.01		
7	-0.16 10 -0.06						
	Thickness of contaminated zone	6	0.17	2	0.40		
6	0.22 2 0.55						
	Thickness of Unsaturated zone 1	8	0.08	4	0.18		
12	0.09 4 0.23						
	Plant transfer factor for Cs	1	0.92	1	0.84		
1	0.86 1 0.64						
	Meat transfer factor for Cs	5	0.28	7	0.10		
5	0.29 9 0.11						
	Milk transfer factor for Cs	4	0.35	6	0.13		
3	0.47 5 0.20						
	Fish transfer factor for Cs	16	0.02	16	0.01		
17	-0.02 17 -0.01						
	Kd of Cs-137 in Contaminated Zone	20	0.00	20	0.00		
16	-0.03 16 -0.01						
	Kd of Cs-137 in Unsaturated Zone 1	19	0.00	19	0.00		
8	-0.11 11 -0.04						
	Kd of Cs-137 in Saturated Zone	15	0.02	15	0.01		
11	0.10 12 0.04						
	Well pumping rate	10	-0.04	9	-0.04		
10	-0.10 8 -0.12						
	Irrigation	9	0.05	8	0.05		
9	0.10 7 0.13						
	Well pump intake depth	18	0.00	18	0.00		
19	-0.02 19 -0.01						
	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 22:00 Page: Coef 2  
 Title : DCGL to Dose for Cs137  
 Input File : Cs-137.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 Sig Coeff				
Indoor dust filtration factor	17	-0.01	18	0.00
20 -0.01 20 0.00				
External gamma shielding factor	2	0.53	3	0.22
2 0.78 2 0.48				
Depth of soil mixing layer	9	-0.06	10	-0.02
7 -0.12 10 -0.05				
Depth of roots	3	-0.42	4	-0.17
3 -0.51 4 -0.23				
Wet weight crop yield of fruit, grain and non-leafy vegetables	7	0.09	9	0.03
16 0.07 18 0.03				
Wet foliar interception fraction of leafy vegetables	19	0.00	20	0.00
6 -0.13 9 -0.05				
Weathering removal constant of all vegetation	11	-0.04	12	-0.01
12 0.09 15 0.04				
Mass loading for inhalation	14	-0.02	14	-0.01
10 0.11 14 0.04				
Thickness of contaminated zone	20	0.00	17	0.00
11 0.11 3 0.27				
Thickness of Unsaturated zone 1	6	-0.10	2	-0.23
18 -0.02 12 -0.05				
Plant transfer factor for Cs	1	0.91	1	0.81
1 0.85 1 0.63				
Meat transfer factor for Cs	5	0.30	6	0.11
5 0.36 6 0.15				
Milk transfer factor for Cs	4	0.32	5	0.12
4 0.46 5 0.20				
Fish transfer factor for Cs	16	-0.01	16	0.00
9 -0.11 13 -0.04				
Kd of Cs-137 in Contaminated Zone	15	-0.02	15	-0.01
14 -0.07 16 -0.03				
Kd of Cs-137 in Unsaturated Zone 1	12	0.04	11	0.01
8 -0.12 11 -0.05				
Kd of Cs-137 in Saturated Zone	13	0.03	13	0.01
15 0.07 17 0.03				
Well pumping rate	8	-0.07	7	-0.09
17 -0.06 8 -0.09				
Irrigation	10	0.05	8	0.06
13 0.08 7 0.11				
Well pump intake depth	18	0.00	19	0.00
19 -0.01 19 0.00				
R-SQUARE		0.87		0.87
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 22:00 Page: Coef 3  
 Title : DCGL to Dose for Cs137  
 Input File : Cs-137.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	20	-0.01	20	0.00
9 0.09 12 0.03				
External gamma shielding factor	2	0.57	2	0.26
2 0.81 2 0.50				
Depth of soil mixing layer	17	-0.02	17	-0.01
19 -0.01 19 -0.01				
Depth of roots	3	-0.42	3	-0.17
3 -0.54 4 -0.23				
Wet weight crop yield of fruit, grain and non-leafy vegetables	12	-0.04	13	-0.02
18 -0.02 18 -0.01				

Wet foliar interception fraction of leafy vegetables	15	0.04	16	0.01	10	-0.06	12	-0.02
Weathering removal constant of all vegetation	17	0.02	17	0.01	13	-0.04	14	-0.01
Mass loading for inhalation	20	-0.01	20	0.00	18	0.02	18	0.01
Thickness of contaminated zone	5	0.16	3	0.41	11	0.04	7	0.12
Thickness of Unsaturated zone 1	12	0.05	6	0.12	16	-0.03	8	-0.08
Plant transfer factor for Cs	1	0.87	1	0.65	1	0.91	1	0.84
Meat transfer factor for Cs	6	0.15	8	0.06	5	0.15	9	0.06
Milk transfer factor for Cs	4	0.44	5	0.17	4	0.39	4	0.16
Fish transfer factor for Cs	10	0.06	13	0.02	14	0.04	15	0.01
Kd of Cs-137 in Contaminated Zone	8	0.13	10	0.05	9	-0.06	11	-0.02
Kd of Cs-137 in Unsaturated Zone 1	7	0.15	9	0.05	15	-0.04	16	-0.01
Kd of Cs-137 in Saturated Zone	14	0.04	15	0.02	19	-0.02	19	-0.01
Well pumping rate	16	0.03	11	0.03	7	0.11	6	0.15
Irrigation	13	-0.04	7	-0.06	6	-0.12	5	-0.16
Well pump intake depth	11	0.06	14	0.02	8	-0.07	10	-0.03
<hr/>					<hr/>		<hr/>	
R-SQUARE	0.87	0.87			0.86	0.86		
<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.



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	2.500E+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
PRCC	Coefficient =		
	SRRC		
	Repetition =	1	1
1	1		

Description of Probabilistic Variable		Sig	Coeff	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
PRCC	Coefficient =				
2	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





Probabilistic Input

0Number of Sample Runs: 900

Number	Name	Distribution	Parameters
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
iiiiii	iiiiii	iiiiii	iiiiii

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		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	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		PCC	SRC
PRCC	Coefficient = SRRC		



20	0.00	20	0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables				17	0.00	19	0.00
19	0.00	19	0.00				
Wet foliar interception fraction of leafy vegetables				5	-0.06	7	0.00
4	-0.09	8	-0.01				
Weathering removal constant of all vegetation				3	0.08	4	0.00
7	0.08	11	0.01				
Mass loading for inhalation				8	0.04	10	0.00
16	0.03	17	0.00				
Thickness of contaminated zone				19	0.00	17	0.00
14	0.03	3	0.01				
Thickness of Unsaturated zone 1				15	-0.02	3	-0.01
17	0.02	6	0.01				
Well pumping rate				13	-0.02	6	0.00
12	-0.04	4	-0.01				
Kd of Eu-154 in Contaminated Zone				14	0.02	15	0.00
2	0.28	2	0.02				
Kd of Eu-154 in Unsaturated Zone 1				16	0.00	18	0.00
13	-0.03	16	0.00				
Kd of Eu-154 in Saturated Zone				20	0.00	20	0.00
6	0.08	10	0.01				
Plant transfer factor for Eu				2	0.11	2	0.01
18	-0.01	18	0.00				
Meat transfer factor for Eu				10	0.03	12	0.00
10	-0.05	14	0.00				
Milk transfer factor for Eu				6	-0.05	8	0.00
3	-0.13	5	-0.01				
Fish transfer factor for Eu				12	-0.02	14	0.00
11	-0.04	15	0.00				
Irrigation				18	0.00	16	0.00
15	0.03	7	0.01				
<hr/>							
R-SQUARE					1.00		1.00
1.00		1.00					
<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
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
iiiiii	iiiiii	iiiiii	iiiiii

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		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	-0.08	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						
<hr/> 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		PCC	SRC
PRCC	Coefficient = SRRC		
	Repetition =		





19	-0.03	20	0.00				
Wet weight crop yield of fruit, grain and non-leafy vegetables				20	0.00	20	0.00
16	0.04	17	0.00				
Wet foliar interception fraction of leafy vegetables				7	-0.08	8	0.00
4	-0.11	7	-0.01				
Weathering removal constant of all vegetation				5	0.10	6	0.01
6	0.09	9	0.01				
Mass loading for inhalation				11	0.03	12	0.00
9	0.07	12	0.00				
Thickness of contaminated zone				10	0.03	4	0.01
17	0.03	4	0.02				
Thickness of Unsaturated zone 1				19	0.00	16	0.00
20	0.00	18	0.00				
Well pumping rate				18	0.00	17	0.00
12	-0.05	5	-0.01				
Kd of Eu-155 in Contaminated Zone				13	0.03	14	0.00
3	0.29	3	0.02				
Kd of Eu-155 in Unsaturated Zone 1				17	-0.01	19	0.00
18	-0.03	19	0.00				
Kd of Eu-155 in Saturated Zone				16	-0.01	18	0.00
13	0.05	15	0.00				
Plant transfer factor for Eu				2	0.59	2	0.04
2	0.32	2	0.02				
Meat transfer factor for Eu				3	0.23	3	0.01
5	0.10	8	0.01				
Milk transfer factor for Eu				9	-0.05	11	0.00
11	-0.05	14	0.00				
Fish transfer factor for Eu				14	-0.03	15	0.00
10	-0.06	13	0.00				
Irrigation				15	-0.02	10	0.00
15	0.04	6	0.01				
<hr/>							
R-SQUARE					1.00		1.00
1.00		1.00					
<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
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
iiiiii	iiiiii	iiiiii	iiiiii

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			
PRCC	Coefficient = SRRC	PCC	SRC
1	Repetition = 1	1	1

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
24	0.04	27	0.01	21	0.06	24	0.03
29	0.03	32	0.01	37	0.02	37	0.01
41	-0.02	42	0.00	33	-0.03	33	-0.01
9	-0.08	10	-0.03	19	-0.07	23	-0.03
2	-0.65	3	-0.26	2	-0.40	3	-0.21
48	0.00	48	0.00	6	-0.12	11	-0.06
14	0.05	16	0.02	8	0.10	14	0.05
25	0.04	28	0.01	42	0.00	42	0.00
8	0.10	9	0.03	31	0.03	32	0.01
3	0.19	2	0.41	14	0.08	2	0.26
42	0.01	20	0.01	23	-0.05	7	-0.08
40	-0.02	7	-0.03	30	-0.03	6	-0.10
34	-0.02	37	-0.01	41	0.00	41	0.00
47	0.00	47	0.00	40	-0.01	40	0.00
26	0.04	29	0.01	22	-0.05	25	-0.02
4	-0.13	4	-0.04	9	0.10	13	0.05
28	-0.03	31	-0.01	29	0.03	31	0.02
27	0.03	30	0.01	39	0.01	39	0.01
11	0.06	12	0.02	3	-0.24	4	-0.12
33	-0.03	35	-0.01	15	-0.08	18	-0.04
19	0.05	22	0.01	32	-0.03	27	-0.02
43	-0.01	43	0.00	27	-0.04	29	-0.02
44	0.01	44	0.00	11	0.09	9	0.07
18	-0.05	21	-0.01	43	0.00	43	0.00
31	-0.03	34	-0.01	7	-0.10	12	-0.05
20	-0.04	23	-0.01	46	0.00	46	0.00
16	0.05	18	0.01	20	0.06	20	0.04
30	0.03	33	0.01	34	-0.02	34	-0.01
1	0.93	1	0.79	1	0.84	1	0.76

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				

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R-SQUARE	0.78	0.78
0.91 0.91		

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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.

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

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

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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

3	0.18	2	0.39				
Well pumping rate				44	0.00	41	0.00
19	0.06	5	0.07				
Thickness of Unsaturated zone 1				29	0.04	4	0.11
34	-0.03	6	-0.05				
Kd of Pb-210 in Contaminated Zone				11	0.09	12	0.04
37	-0.02	37	-0.01				
Kd of Pb-210 in Unsaturated Zone 1				23	0.05	25	0.02
23	0.05	24	0.02				
Kd of Pb-210 in Saturated Zone				9	0.12	10	0.05
45	0.01	45	0.00				
Kd of Pu-238 in Contaminated Zone				43	0.00	43	0.00
4	0.15	7	0.05				
Kd of Pu-238 in Unsaturated Zone 1				31	0.03	32	0.01
18	0.06	20	0.02				
Kd of Pu-238 in Saturated Zone				7	0.13	8	0.05
42	0.01	42	0.00				
Kd of Ra-226 in Contaminated Zone				22	-0.06	23	-0.02
26	0.05	27	0.02				
Kd of Ra-226 in Unsaturated Zone 1				37	0.03	38	0.01
47	0.00	47	0.00				
Kd of Ra-226 in Saturated Zone				25	-0.05	28	-0.02
11	-0.09	14	-0.03				
Kd of Th-230 in Contaminated Zone				24	-0.05	27	-0.02
15	-0.07	18	-0.02				
Kd of Th-230 in Unsaturated Zone 1				18	0.07	19	0.03
38	0.02	38	0.01				
Kd of Th-230 in Saturated Zone				20	-0.06	21	-0.02
33	0.03	34	0.01				
Kd of U-234 in Contaminated Zone				35	0.03	35	0.01
36	-0.02	36	-0.01				
Kd of U-234 in Unsaturated Zone 1				27	0.05	29	0.02
22	0.05	23	0.02				
Kd of U-234 in Saturated Zone				6	0.14	6	0.06
31	-0.03	32	-0.01				
Plant transfer factor for Pb				3	-0.20	5	-0.08
16	-0.06	19	-0.02				
Plant transfer factor for Pu				1	0.90	1	0.82
1	0.92	1	0.77				
Plant transfer factor for Ra				32	0.03	33	0.01
20	0.06	21	0.02				
Plant transfer factor for Th				14	0.08	15	0.03
12	0.08	15	0.03				
Plant transfer factor for U				21	-0.06	24	-0.02
10	0.10	13	0.03				
Meat transfer factor for Pb				4	-0.15	7	-0.06
14	0.07	17	0.02				
Meat transfer factor for Pu				13	-0.09	14	-0.03
8	0.10	11	0.03				
Meat transfer factor for Ra				15	-0.08	16	-0.03
44	0.01	44	0.00				
Meat transfer factor for Th				12	-0.09	13	-0.04
30	-0.03	31	-0.01				
Meat transfer factor for U				47	0.00	47	0.00
21	-0.05	22	-0.02				
Milk transfer factor for Pb				10	-0.10	11	-0.04
6	-0.10	8	-0.03				
Milk transfer factor for Pu				38	0.03	40	0.01
29	-0.03	30	-0.01				
Milk transfer factor for Ra				19	-0.06	20	-0.03
32	-0.03	33	-0.01				
Milk transfer factor for Th				34	-0.03	36	-0.01
7	-0.10	10	-0.03				
Milk transfer factor for U				26	-0.05	26	-0.02
40	-0.01	40	0.00				
Fish transfer factor for Pb				46	0.00	46	0.00
24	0.05	25	0.02				
Fish transfer factor for Pu				42	0.00	44	0.00
9	0.10	12	0.03				
Fish transfer factor for Ra				28	0.05	30	0.02
35	0.02	35	0.01				
Fish transfer factor for Th				41	0.00	42	0.00
27	-0.04	28	-0.01				
Fish transfer factor for U				8	-0.13	9	-0.05
48	0.00	48	0.00				
Irrigation				40	0.02	22	0.02
17	-0.06	4	-0.07				

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R-SQUARE  
0.90      0.90

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0.86      0.86

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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.

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
PRCC	Coefficient =		
	SRRC		
	Repetition =		
3	3	3	3

  

Description of Probabilistic Variable		Sig	Coeff	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		

-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\_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			
External gamma shielding factor		30 0.03	31 0.01
18 -0.06 19 -0.02			
Well pump intake depth		35 0.01	36 0.00
20 -0.05 21 -0.02			
Depth of soil mixing layer		5 0.10	7 0.04
4 -0.14 7 -0.04			
Depth of roots		2 -0.55	3 -0.25
2 -0.71 3 -0.32			
Wet weight crop yield of fruit, grain and non-leafy vegetables		32 -0.03	33 -0.01
41 0.00 41 0.00			
Wet foliar interception fraction of leafy vegetables		21 0.04	23 0.01
30 -0.03 30 -0.01			
Weathering removal constant of all vegetation		11 0.07	13 0.03
34 -0.02 34 -0.01			
Mass loading for inhalation		4 0.11	6 0.04
15 0.07 17 0.02			
Thickness of contaminated zone		3 0.12	2 0.32
3 0.27 2 0.62			
Well pumping rate		27 0.03	4 0.04
26 0.05 6 0.05			
Thickness of Unsaturated zone 1		34 0.02	5 0.04
9 0.08 4 0.19			
Kd of Ac-227 in Contaminated Zone		37 0.01	38 0.00
11 0.08 13 0.03			
Kd of Ac-227 in Unsaturated Zone 1		20 -0.05	20 -0.02
31 -0.03 31 -0.01			
Kd of Ac-227 in Saturated Zone		36 0.01	37 0.00
21 0.05 22 0.02			
Kd of Pa-231 in Contaminated Zone		25 -0.03	27 -0.01
37 -0.01 37 0.00			
Kd of Pa-231 in Unsaturated Zone 1		39 0.00	39 0.00
32 0.03 32 0.01			
Kd of Pa-231 in Saturated Zone		22 0.04	25 0.01
28 -0.04 28 -0.01			
Kd of Pu-239 in Contaminated Zone		40 0.00	40 0.00
7 -0.09 10 -0.03			
Kd of Pu-239 in Unsaturated Zone 1		23 -0.04	24 -0.01
39 0.01 39 0.00			
Kd of Pu-239 in Saturated Zone		41 0.00	41 0.00
29 -0.03 29 -0.01			
Kd of U-235 in Contaminated Zone		24 0.04	26 0.01
35 0.02 35 0.00			
Kd of U-235 in Unsaturated Zone 1		7 0.09	10 0.03
33 0.02 33 0.01			
Kd of U-235 in Saturated Zone		19 0.05	22 0.02
10 0.08 12 0.03			
Plant transfer factor for Ac		10 0.07	12 0.03
40 0.00 40 0.00			
Plant transfer factor for Pa		17 0.05	19 0.02
36 0.01 36 0.00			
Plant transfer factor for Pu		1 0.91	1 0.85
1 0.93 1 0.78			
Plant transfer factor for U		31 -0.03	32 -0.01
5 -0.13 8 -0.04			
Meat transfer factor for Ac		15 0.06	17 0.02
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				
<hr/>				
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
<hr/>			
Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	20	0.05	20
22 -0.04 24 -0.01			0.02
External gamma shielding factor	28	0.03	28
10 -0.09 11 -0.03			0.01
Well pump intake depth	40	0.00	40
32 0.01 32 0.00			0.00
Depth of soil mixing layer	5	-0.10	7
39 0.00 39 0.00			-0.04
Depth of roots	2	-0.48	3
2 -0.69 3 -0.28			-0.19
Wet weight crop yield of fruit, grain and non-leafy vegetables	25	0.04	25
14 -0.07 16 -0.02			0.01
Wet foliar interception fraction of leafy vegetables	11	-0.07	12
4 0.13 5 0.04			-0.03
Weathering removal constant of all vegetation	8	-0.08	10
37 0.01 37 0.00			-0.03
Mass loading for inhalation	10	0.07	13
30 0.02 30 0.01			0.03
Thickness of contaminated zone	3	0.11	2
3 0.19 2 0.39			0.26
Well pumping rate	15	-0.06	5
27 0.02 13 0.03			-0.08
Thickness of Unsaturated zone 1	39	0.00	30
26 -0.03 4 -0.05			-0.01
Kd of Ac-227 in Contaminated Zone	33	0.01	34
33 -0.01 33 0.00			0.00
Kd of Ac-227 in Unsaturated Zone 1	41	0.00	41
18 0.04 20 0.01			0.00
Kd of Ac-227 in Saturated Zone	22	-0.05	22
36 0.01 36 0.00			-0.02
Kd of Pa-231 in Contaminated Zone	32	-0.02	33
28 -0.02 28 -0.01			-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		
-----									
R-SQUARE					0.88		0.88		
0.91		0.91							
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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.

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			
	Coefficient =	PCC	SRC
PRCC	SRRC		
3	3	3	3

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
	Sig	Coeff	Sig	Coeff			
-----							
Indoor dust filtration factor							
12	0.06	12	0.02	36	-0.01	36	0.00
External gamma shielding factor							
21	-0.04	21	-0.01	21	-0.04	20	-0.02
Well pump intake depth							
31	-0.02	31	-0.01	11	0.07	14	0.04
Depth of soil mixing layer							
35	-0.01	35	0.00	27	0.03	29	0.01

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				

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R-SQUARE			0.73	0.73
0.91	0.91			

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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.



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

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

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R-SQUARE	0.84	0.84	0.85	0.85
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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.

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

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

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

4	0.21	2	0.54				
	Well pumping rate				9	0.13	5 0.18
10	0.11	4	0.14				
	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				

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R-SQUARE	
0.86	0.86

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0.85	0.85
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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.

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				PCC	SRC
PRCC	Coefficient =				
	SRRC	Repetition =			
3	3	3		3	3

  

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
	Indoor dust filtration factor			47	-0.01	47	0.00
42	0.02	42	0.01				
	External gamma shielding factor			42	-0.01	43	0.00
27	0.06	29	0.02				
	Well pump intake depth			32	-0.03	35	-0.01
10	-0.10	13	-0.04				
	Depth of soil mixing layer			18	0.07	18	0.03
48	0.00	48	0.00				
	Depth of roots			2	-0.51	3	-0.22
2	-0.63	3	-0.30				
	Wet weight crop yield of fruit, grain and non-leafy vegetables			13	-0.08	14	-0.03
6	-0.14	9	-0.05				
	Wet foliar interception fraction of leafy vegetables			38	0.02	39	0.01
19	-0.07	22	-0.02				
	Weathering removal constant of all vegetation			46	-0.01	46	0.00
18	-0.07	21	-0.03				
	Mass loading for inhalation			26	-0.04	28	-0.02
40	0.02	41	0.01				
	Thickness of contaminated zone			8	0.11	2	0.25
5	0.23	2	0.53				
	Well pumping rate			5	-0.14	4	-0.18
20	-0.07	6	-0.09				
	Thickness of Unsaturated zone 1			43	-0.01	20	-0.02
41	0.02	8	0.05				
	Kd of Am-241 in Contaminated Zone			28	0.04	29	0.02
3	0.28	4	0.11				
	Kd of Am-241 in Unsaturated Zone 1			31	0.04	32	0.01
29	0.05	31	0.02				
	Kd of Am-241 in Saturated Zone			34	0.03	33	0.01
8	0.13	11	0.05				
	Kd of Pu-241 in Contaminated Zone			35	0.03	36	0.01
39	0.03	40	0.01				
	Kd of Pu-241 in Unsaturated Zone 1			21	0.06	19	0.03
11	-0.09	14	-0.03				
	Kd of Pu-241 in Saturated Zone			16	-0.07	11	-0.04
17	-0.07	20	-0.03				
	Kd of Th-229 in Contaminated Zone			41	-0.01	42	-0.01
35	-0.03	36	-0.01				
	Kd of Th-229 in Unsaturated Zone 1			48	0.00	48	0.00
13	-0.09	16	-0.03				
	Kd of Th-229 in Saturated Zone			6	0.13	7	0.07
23	0.06	24	0.02				
	Kd of U-233 in Contaminated Zone			45	0.01	45	0.00
33	-0.04	34	-0.01				
	Kd of U-233 in Unsaturated Zone 1			7	-0.12	8	-0.07
14	-0.08	17	-0.03				
	Kd of U-233 in Saturated Zone			37	0.02	38	0.01
43	-0.02	43	-0.01				
	Plant transfer factor for Am			1	0.92	1	0.86
1	0.89	1	0.71				
	Plant transfer factor for Np			29	0.04	30	0.02
25	-0.06	27	-0.02				
	Plant transfer factor for Pu			3	0.27	6	0.10
4	0.26	5	0.10				
	Plant transfer factor for Th			44	0.01	44	0.00
24	0.06	26	0.02				
	Plant transfer factor for U			22	0.06	24	0.02
31	-0.05	32	-0.02				
	Meat transfer factor for Am			15	-0.08	16	-0.03
38	-0.03	39	-0.01				
	Meat transfer factor for Np			20	0.06	22	0.02
36	-0.03	37	-0.01				
	Meat transfer factor for Pu			36	0.03	37	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		

-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.



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	2.438E+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
PRCC	Coefficient = SRRC Repetition =		
1	1	1	1

Description of Probabilistic Variable		Sig	Coeff	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			23	0.04	23	0.02
37	0.02	37	0.00				
	Plant transfer factor for U			32	0.02	31	0.01
27	0.03	30	0.01				
	Meat transfer factor for U			25	0.04	25	0.02
21	0.05	24	0.02				
	Milk transfer factor for U			20	0.05	21	0.02
5	0.14	5	0.04				
	Fish transfer factor for U			13	0.06	14	0.02
28	0.03	29	0.01				
	Kd of Np-237 in Contaminated Zone			28	-0.03	28	-0.01
4	0.18	4	0.06				
	Kd of Np-237 in Unsaturated Zone 1			31	0.02	32	0.01
7	-0.13	7	-0.04				
	Kd of Np-237 in Saturated Zone			30	0.02	30	0.01
19	0.06	22	0.02				
	Well pumping rate			8	-0.11	5	-0.16
35	-0.02	21	-0.02				
	Irrigation			7	0.14	3	0.19
26	0.03	9	0.03				
	Well pump intake depth			19	0.05	20	0.02
17	-0.07	19	-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 : 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 =		
2	2	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						

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R-SQUARE						0.86	0.86
0.90	0.90						

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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.

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

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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	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				
<hr/>							
R-SQUARE					0.77		0.77
0.91		0.91					
<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	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	1
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			



Repetition	Time of peak mean dose Years	Peak mean dose 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
PRCC	Coefficient = SRRC Repetition =		
1	1	1	1

Description of Probabilistic Variable		Sig	Coeff	Sig	Coeff
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						
<hr/>									
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				PCC	SRC
PRCC	Coefficient =				
	SRRC			2	2
2	Repetition =				
	2				

Description of Probabilistic Variable				Sig	Coeff	Sig	Coeff
Sig	Coeff	Sig	Coeff				
<hr/>							
	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		47	0.02	48 0.01
42 -0.02 42 -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				

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R-SQUARE			0.86	0.86
0.88	0.88			

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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.

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

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

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Description of Probabilistic Variable		Sig	Coeff	Sig	Coeff
Sig	Coeff	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				

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R-SQUARE	0.89	0.89
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.

