

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : H-3.RAD

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	.00003	.8119	.00004	.9495	.00
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										

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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	2.932E-02
2	0.000E+00	2.913E-02
3	0.000E+00	2.947E-02

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 0.02
External gamma shielding factor	9 -0.05	11 -0.01	12 -0.04	14 -0.01
Well pump intake depth	10 0.05	12 0.01	10 0.05	12 0.01
Depth of soil mixing layer	18 -0.02	18 -0.01	16 -0.03	18 -0.01
Depth of roots	1 -0.77	2 -0.32	1 -0.79	2 -0.33
Wet weight crop yield of fruit, grain and non-leafy vegetables	4 -0.12	6 -0.03	9 -0.06	11 -0.01
Wet foliar interception fraction of leafy vegetables	8 0.06	10 0.02	7 0.07	7 0.02
Weathering removal constant of all vegetation	11 0.04	13 0.01	18 0.01	19 0.00
Mass loading for inhalation	20 -0.01	20 0.00	11 -0.05	13 -0.01
Thickness of contaminated zone	3 0.41	1 0.84	3 0.44	1 0.88
Thickness of Unsaturated zone 1	16 -0.03	5 -0.06	19 -0.01	8 -0.02
Well pumping rate	15 -0.03	7 -0.03	17 -0.02	9 -0.02
Kd of H-3 in Contaminated Zone	2 -0.48	3 -0.15	2 -0.52	3 -0.15
Kd of H-3 in Unsaturated Zone 1	17 0.03	17 0.01	14 0.04	16 0.01
Kd of H-3 in Saturated Zone	5 -0.07	8 -0.02	4 -0.12	5 -0.03
Plant transfer factor for H	12 0.04	14 0.01	8 -0.06	10 -0.02
Meat transfer factor for H	7 -0.06	9 -0.02	13 -0.04	15 -0.01
Milk transfer factor for H	14 0.03	16 0.01	15 0.03	17 0.01
Fish transfer factor for H	19 0.01	19 0.00	20 0.00	20 0.00
Irrigation	6 -0.07	4 -0.06	5 -0.09	4 -0.08
R-SQUARE	0.93	0.93	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.

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 0.01
External gamma shielding factor	4 0.15	7 0.04	6 0.10	9 0.02
Well pump intake depth	5 0.14	8 0.03	4 0.14	7 0.03
Depth of soil mixing layer	11 -0.08	14 -0.02	8 -0.09	10 -0.02
Depth of roots	1 -0.83	2 -0.34	1 -0.82	2 -0.34
Wet weight crop yield of fruit, grain and non-leafy vegetables	16 -0.05	17 -0.01	12 -0.06	15 -0.01
Wet foliar interception fraction of leafy vegetables	19 0.02	19 0.00	19 -0.02	19 0.00
Weathering removal constant of all vegetation	7 -0.10	10 -0.02	10 -0.07	12 -0.02
Mass loading for inhalation	12 0.08	15 0.02	18 -0.02	18 -0.01
Thickness of contaminated zone	2 0.51	1 0.96	2 0.51	1 0.98
Thickness of Unsaturated zone 1	17 0.04	4 0.07	15 0.05	4 0.08
Well pumping rate	15 -0.06	6 -0.05	16 -0.05	6 -0.04
Kd of H-3 in Contaminated Zone	3 -0.47	3 -0.12	3 -0.45	3 -0.12
Kd of H-3 in Unsaturated Zone 1	6 -0.11	9 -0.03	5 -0.12	8 -0.03
Kd of H-3 in Saturated Zone	20 0.01	20 0.00	20 0.01	20 0.00
Plant transfer factor for H	8 0.09	11 0.02	11 0.06	13 0.02
Meat transfer factor for H	9 -0.09	12 -0.02	9 -0.07	11 -0.02
Milk transfer factor for H	14 0.06	16 0.01	13 -0.06	14 -0.01
Fish transfer factor for H	18 0.02	18 0.00	17 0.03	17 0.01
Irrigation	13 -0.07	5 -0.05	7 -0.09	5 -0.07
R-SQUARE	0.95	0.95	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.

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 0.01
External gamma shielding factor	9 0.07	9 0.02	17 0.01	17 0.00
Well pump intake depth	18 0.03	18 0.01	14 0.03	14 0.01
Depth of soil mixing layer	11 -0.04	11 -0.01	9 -0.07	9 -0.02
Depth of roots	1 -0.83	2 -0.34	1 -0.84	2 -0.35
Wet weight crop yield of fruit, grain and non-leafy vegetables	12 0.04	12 0.01	8 0.07	8 0.02
Wet foliar interception fraction of leafy vegetables	15 -0.03	15 -0.01	15 -0.03	15 -0.01
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 0.01
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 0.08
Kd of H-3 in Contaminated Zone	2 -0.57	5 -0.16	3 -0.55	5 -0.15
Kd of H-3 in Unsaturated Zone 1	17 0.03	17 0.01	13 0.04	13 0.01
Kd of H-3 in Saturated Zone	7 -0.10	7 -0.02	7 -0.10	7 -0.02
Plant transfer factor for H	10 0.05	10 0.01	12 0.05	12 0.01
Meat transfer factor for H	14 -0.04	14 -0.01	19 0.01	19 0.00
Milk transfer factor for H	16 0.03	16 0.01	16 0.01	16 0.00
Fish transfer factor for H	13 0.04	13 0.01	18 0.01	18 0.00
Irrigation	4 -0.21	3 -0.18	4 -0.20	3 -0.16
R-SQUARE	0.95	0.95	0.95	0.95

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Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : C-14.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	2.229E+00
2	0.000E+00	2.219E+00
3	0.000E+00	2.227E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : C-14.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	19 0.01	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : C-14.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	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : C-14.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	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
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.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : MN-54.RAD

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	.00003	.8119	.00004	.9495	.00
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										

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : MN-54.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	1.153E+00
2	0.000E+00	1.154E+00
3	0.000E+00	1.156E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose

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

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : MN-54.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	5 0.09	6 0.01	10 0.06	11 0.01
External gamma shielding factor	1 1.00	1 0.96	1 0.98	1 0.96
Well pump intake depth	6 0.08	7 0.01	9 0.06	10 0.01
Depth of soil mixing layer	10 -0.04	11 0.00	14 -0.04	15 -0.01
Depth of roots	3 -0.49	4 -0.05	3 -0.20	6 -0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	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
R-SQUARE	0.99	0.99	0.96	0.96

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : FE-55.RAD

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	.00003	.8119	.00004	.9495	.00
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										

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : FE-55.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	6.907E-04
2	0.000E+00	6.923E-04
3	0.000E+00	6.904E-04

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : FE-55.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	18 -0.01	18 0.00
External gamma shielding factor	17 -0.02	18 0.00	11 -0.03	14 -0.01
Well pump intake depth	9 0.06	12 0.02	19 -0.01	19 0.00
Depth of soil mixing layer	8 -0.07	11 -0.02	8 -0.07	10 -0.02
Depth of roots	3 -0.28	4 -0.08	3 -0.31	4 -0.10
Wet weight crop yield of fruit, grain and non-leafy vegetables	10 -0.06	13 -0.02	12 -0.03	15 -0.01
Wet foliar interception fraction of leafy vegetables	14 -0.03	16 -0.01	20 0.00	20 0.00
Weathering removal constant of all vegetation	11 -0.05	14 -0.01	6 -0.09	7 -0.03
Mass loading for inhalation	20 0.00	20 0.00	15 -0.02	16 -0.01
Thickness of contaminated zone	7 0.09	3 0.17	5 0.10	3 0.22
Thickness of Unsaturated zone 1	18 -0.01	9 -0.02	17 0.01	6 0.03
Well pumping rate	15 0.03	7 0.03	13 0.02	8 0.03
Kd of Fe-55 in Contaminated Zone	19 -0.01	19 0.00	10 -0.05	13 -0.02
Kd of Fe-55 in Unsaturated Zone 1	5 -0.10	8 -0.03	7 -0.08	9 -0.03
Kd of Fe-55 in Saturated Zone	16 0.02	17 0.01	16 0.02	17 0.01
Plant transfer factor for Fe	2 0.82	2 0.38	2 0.67	2 0.29
Meat transfer factor for Fe	1 0.96	1 0.87	1 0.94	1 0.86
Milk transfer factor for Fe	4 0.26	5 0.07	4 0.24	5 0.08
Fish transfer factor for Fe	6 0.09	10 0.02	9 0.07	11 0.02
Irrigation	12 -0.04	6 -0.04	14 -0.02	12 -0.02
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.

Title : Yankee Rowe Sensitivity Analysis=soil

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : FE-55.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	6 0.14	10 0.04	5 0.12	9 0.04
External gamma shielding factor	11 0.06	12 0.02	8 0.10	11 0.03
Well pump intake depth	18 0.01	18 0.00	12 0.06	14 0.02
Depth of soil mixing layer	5 -0.15	9 -0.04	9 -0.10	12 -0.03
Depth of roots	3 -0.34	5 -0.10	3 -0.31	4 -0.11
Wet weight crop yield of fruit, grain and non-leafy vegetables	19 0.01	19 0.00	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
R-SQUARE	0.92	0.92	0.90	0.90

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : NI-59.RAD

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	.00003	.8119	.00004	.9495	.00
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										

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : NI-59.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	6.010E-03
2	0.000E+00	6.023E-03
3	0.000E+00	6.550E-03

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	10 0.06	11 0.03	13 0.05	16 0.02
External gamma shielding factor	7 -0.06	8 -0.03	9 0.07	12 0.02
Well pump intake depth	15 0.01	16 0.01	14 -0.04	17 -0.01
Depth of soil mixing layer	16 0.01	17 0.01	6 0.10	9 0.03
Depth of roots	3 -0.30	4 -0.16	3 -0.61	4 -0.25
Wet weight crop yield of fruit, grain and non-leafy vegetables	8 -0.06	10 -0.03	7 -0.10	10 -0.03
Wet foliar interception fraction of leafy vegetables	14 0.02	15 0.01	10 -0.06	13 -0.02
Weathering removal constant of all vegetation	12 -0.03	13 -0.01	12 -0.05	15 -0.02
Mass loading for inhalation	13 0.03	14 0.01	20 0.01	20 0.00
Thickness of contaminated zone	4 0.09	3 0.31	4 0.15	3 0.34
Thickness of Unsaturated zone 1	17 0.01	7 0.03	18 -0.02	5 -0.04
Well pumping rate	6 -0.07	6 -0.12	17 -0.03	8 -0.03
Kd of Ni-59 in Contaminated Zone	11 -0.04	12 -0.02	8 -0.09	11 -0.03
Kd of Ni-59 in Unsaturated Zone 1	9 -0.06	9 -0.03	11 0.06	14 0.02
Kd of Ni-59 in Saturated Zone	20 -0.01	20 0.00	16 -0.03	18 -0.01
Plant transfer factor for Ni	1 0.80	1 0.68	1 0.90	1 0.67
Meat transfer factor for Ni	19 0.01	19 0.00	5 0.13	6 0.04
Milk transfer factor for Ni	2 0.64	2 0.42	2 0.83	2 0.48
Fish transfer factor for Ni	18 -0.01	18 0.00	19 -0.01	19 0.00
Irrigation	5 0.07	5 0.13	15 0.03	7 0.04
R-SQUARE	0.75	0.75	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	13 -0.03	13 -0.02	16 0.01	16 0.00
External gamma shielding factor	11 -0.05	11 -0.02	5 0.08	6 0.03
Well pump intake depth	17 0.01	18 0.01	13 -0.02	13 -0.01
Depth of soil mixing layer	16 -0.03	17 -0.01	17 -0.01	17 0.00
Depth of roots	3 -0.34	5 -0.17	3 -0.61	4 -0.26
Wet weight crop yield of fruit, grain and non-leafy vegetables	14 0.03	14 0.02	18 -0.01	18 0.00
Wet foliar interception fraction of leafy vegetables	9 0.05	9 0.02	14 0.02	14 0.01
Weathering removal constant of all vegetation	5 -0.15	6 -0.07	6 -0.07	8 -0.02
Mass loading for inhalation	15 -0.03	15 -0.01	7 -0.06	10 -0.02
Thickness of contaminated zone	4 0.16	2 0.52	4 0.12	3 0.26
Thickness of Unsaturated zone 1	6 0.09	4 0.31	8 -0.04	5 -0.10
Well pumping rate	20 0.00	19 0.00	10 0.02	7 0.03
Kd of Ni-59 in Contaminated Zone	8 -0.06	8 -0.03	15 0.02	15 0.01
Kd of Ni-59 in Unsaturated Zone 1	7 -0.09	7 -0.04	19 -0.01	19 0.00
Kd of Ni-59 in Saturated Zone	19 -0.01	20 0.00	12 -0.02	12 -0.01
Plant transfer factor for Ni	1 0.84	1 0.73	1 0.90	1 0.70
Meat transfer factor for Ni	10 -0.05	10 -0.02	9 0.04	11 0.01
Milk transfer factor for Ni	2 0.64	3 0.40	2 0.81	2 0.46
Fish transfer factor for Ni	12 -0.04	12 -0.02	20 0.00	20 0.00
Irrigation	18 -0.01	16 -0.01	11 -0.02	9 -0.02
R-SQUARE	0.77	0.77	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NI-59.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	16 0.03	16 0.01	5 0.13	8 0.04
External gamma shielding factor	4 0.13	8 0.06	11 0.03	12 0.01
Well pump intake depth	10 0.07	12 0.03	14 -0.02	14 -0.01
Depth of soil mixing layer	6 -0.09	10 -0.04	18 0.01	18 0.00
Depth of roots	3 -0.27	4 -0.12	3 -0.64	4 -0.27
Wet weight crop yield of fruit, grain and non-leafy vegetables	11 0.05	13 0.02	9 0.03	10 0.01
Wet foliar interception fraction of leafy vegetables	7 -0.09	11 -0.04	19 0.00	19 0.00
Weathering removal constant of all vegetation	13 0.05	14 0.02	16 0.01	16 0.00
Mass loading for inhalation	15 -0.03	15 -0.02	15 -0.01	15 0.00
Thickness of contaminated zone	8 0.08	3 0.24	4 0.19	3 0.43
Thickness of Unsaturated zone 1	14 0.04	5 0.12	12 0.02	7 0.04
Well pumping rate	12 -0.05	7 -0.08	7 -0.07	5 -0.08
Kd of Ni-59 in Contaminated Zone	5 0.11	9 0.05	10 0.03	11 0.01
Kd of Ni-59 in Unsaturated Zone 1	20 0.02	20 0.01	17 -0.01	17 0.00
Kd of Ni-59 in Saturated Zone	19 -0.03	19 -0.01	13 0.02	13 0.01
Plant transfer factor for Ni	1 0.85	1 0.71	1 0.91	1 0.70
Meat transfer factor for Ni	17 0.03	17 0.01	6 0.07	9 0.02
Milk transfer factor for Ni	2 0.69	2 0.42	2 0.81	2 0.45
Fish transfer factor for Ni	18 0.03	18 0.01	20 0.00	20 0.00
Irrigation	9 0.08	6 0.12	8 0.05	6 0.05
R-SQUARE	0.81	0.81	0.90	0.90

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Ni-63.RAD

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	.00003	.8119	.00004	.9495	.00
10	THICK0	UNIFORM	.15	3										
11	UW	UNIFORM	957	1689										
12	H(1)	UNIFORM	.01	2.85										
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										

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	Peak mean dose
	Years	mrem/yr
1	0.000E+00	1.645E-02
2	0.000E+00	1.649E-02
3	0.000E+00	1.793E-02

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	9 0.06	11 0.03	13 0.05	16 0.02
External gamma shielding factor	8 -0.06	10 -0.03	9 0.07	10 0.02
Well pump intake depth	15 0.02	15 0.01	14 -0.04	17 -0.01
Depth of soil mixing layer	17 0.01	17 0.01	6 0.10	6 0.03
Depth of roots	3 -0.30	5 -0.16	3 -0.61	4 -0.25
Wet weight crop yield of fruit, grain and non-leafy vegetables	6 -0.06	9 -0.03	7 -0.10	7 -0.03
Wet foliar interception fraction of leafy vegetables	16 0.01	16 0.01	10 -0.06	13 -0.02
Weathering removal constant of all vegetation	13 -0.03	13 -0.02	12 -0.05	15 -0.02
Mass loading for inhalation	14 0.03	14 0.01	20 0.01	20 0.00
Thickness of contaminated zone	10 0.05	4 0.17	4 0.19	3 0.41
Well pumping rate	5 -0.08	6 -0.13	17 0.02	12 0.02
Thickness of Unsaturated zone 1	12 -0.03	7 -0.12	18 0.01	8 0.03
Kd of Ni-63 in Contaminated Zone	11 -0.04	12 -0.02	8 -0.09	9 -0.03
Kd of Ni-63 in Unsaturated Zone 1	7 -0.06	8 -0.03	11 0.05	14 0.02
Kd of Ni-63 in Saturated Zone	20 0.00	20 0.00	15 -0.03	18 -0.01
Plant transfer factor for Ni	1 0.80	1 0.68	1 0.90	1 0.67
Meat transfer factor for Ni	18 0.01	18 0.01	5 0.13	5 0.04
Milk transfer factor for Ni	2 0.64	2 0.41	2 0.83	2 0.48
Fish transfer factor for Ni	19 -0.01	19 0.00	19 -0.01	19 0.00
Irrigation	4 0.10	3 0.17	16 -0.02	11 -0.02
R-SQUARE	0.75	0.75	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	16 -0.03	16 -0.01	18 0.01	18 0.00
External gamma shielding factor	11 -0.04	12 -0.02	5 0.08	7 0.03
Well pump intake depth	18 0.01	18 0.01	15 -0.02	15 -0.01
Depth of soil mixing layer	17 -0.03	17 -0.01	16 -0.01	16 0.00
Depth of roots	3 -0.34	4 -0.17	3 -0.61	4 -0.26
Wet weight crop yield of fruit, grain and non-leafy vegetables	14 0.03	15 0.02	17 -0.01	17 0.00
Wet foliar interception fraction of leafy vegetables	10 0.04	11 0.02	11 0.02	12 0.01
Weathering removal constant of all vegetation	4 -0.15	6 -0.07	6 -0.07	9 -0.02
Mass loading for inhalation	15 -0.03	14 -0.02	7 -0.06	10 -0.02
Thickness of contaminated zone	9 -0.04	5 -0.15	4 0.20	2 0.47
Well pumping rate	20 0.00	19 0.00	12 -0.02	8 -0.02
Thickness of Unsaturated zone 1	5 -0.11	3 -0.36	8 0.05	5 0.11
Kd of Ni-63 in Contaminated Zone	7 -0.06	9 -0.03	14 0.02	14 0.01
Kd of Ni-63 in Unsaturated Zone 1	6 -0.10	8 -0.05	19 -0.01	19 0.00
Kd of Ni-63 in Saturated Zone	19 0.00	20 0.00	13 -0.02	13 -0.01
Plant transfer factor for Ni	1 0.84	1 0.73	1 0.90	1 0.70
Meat transfer factor for Ni	8 -0.05	10 -0.02	9 0.04	11 0.01
Milk transfer factor for Ni	2 0.64	2 0.40	2 0.81	3 0.46
Fish transfer factor for Ni	12 -0.04	13 -0.02	20 0.00	20 0.00
Irrigation	13 0.03	7 0.05	10 0.02	6 0.03
R-SQUARE	0.78	0.78	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	15 0.04	15 0.02	5 0.13	7 0.04
External gamma shielding factor	5 0.13	8 0.06	11 0.03	12 0.01
Well pump intake depth	12 0.08	12 0.03	12 -0.02	14 -0.01
Depth of soil mixing layer	9 -0.09	10 -0.04	16 0.01	16 0.00
Depth of roots	3 -0.27	7 -0.12	3 -0.64	4 -0.27
Wet weight crop yield of fruit, grain and non-leafy vegetables	13 0.05	13 0.02	9 0.03	10 0.01
Wet foliar interception fraction of leafy vegetables	11 -0.08	11 -0.04	19 0.00	19 0.00
Weathering removal constant of all vegetation	14 0.05	14 0.02	15 0.01	15 0.00
Mass loading for inhalation	16 -0.04	16 -0.02	18 -0.01	18 0.00
Thickness of contaminated zone	6 0.12	3 0.35	4 0.16	3 0.35
Well pumping rate	7 -0.12	6 -0.18	8 -0.04	6 -0.05
Thickness of Unsaturated zone 1	10 0.08	4 0.23	14 -0.02	8 -0.03
Kd of Ni-63 in Contaminated Zone	8 0.10	9 0.04	10 0.03	11 0.01
Kd of Ni-63 in Unsaturated Zone 1	20 0.01	20 0.01	17 -0.01	17 0.00
Kd of Ni-63 in Saturated Zone	19 -0.02	19 -0.01	13 0.02	13 0.01
Plant transfer factor for Ni	1 0.85	1 0.71	1 0.91	1 0.71
Meat transfer factor for Ni	17 0.04	17 0.02	6 0.07	9 0.02
Milk transfer factor for Ni	2 0.69	2 0.42	2 0.81	2 0.45
Fish transfer factor for Ni	18 0.03	18 0.01	20 0.00	20 0.00
Irrigation	4 0.13	5 0.20	7 0.05	5 0.06
R-SQUARE	0.82	0.82	0.90	0.90

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

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

Probabilistic Input

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	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	.00
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									

Probabilistic results summary : Template for Yankee Rowe Sensitivity Analysis=s-

oil

File: Co-60.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	5.172E+00
2	0.000E+00	5.154E+00
3	0.000E+00	5.167E+00

Title : Template for Yankee Rowe Sensitivity Analysis=soil

Input File : Co-60.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	16 -0.02	18 0.00	9 -0.08	10 -0.02
External gamma shielding factor	1 0.97	1 0.88	1 0.96	1 0.93
Depth of soil mixing layer	14 -0.02	17 -0.01	11 -0.06	13 -0.02
Depth of roots	4 -0.30	5 -0.07	4 -0.30	7 -0.08
Wet weight crop yield of fruit, grain and non-leafy vegetables	11 0.04	14 0.01	12 0.06	14 0.02
Wet foliar interception fraction of leafy vegetables	9 0.05	12 0.01	19 -0.01	19 0.00
Weathering removal constant of all vegetation	7 -0.07	7 -0.02	20 0.01	20 0.00
Mass loading for inhalation	8 0.07	8 0.02	13 0.06	15 0.02
Thickness of contaminated zone	19 -0.01	9 -0.02	14 0.05	6 0.09
Thickness of Unsaturated zone 1	6 -0.07	3 -0.11	17 -0.01	12 -0.02
Kd of Co-60 in Contaminated Zone	12 0.03	15 0.01	7 0.11	8 0.03
Kd of Co-60 in Unsaturated Zone 1	18 0.01	19 0.00	16 -0.02	17 0.00
Kd of Co-60 in Saturated Zone	10 0.04	13 0.01	15 -0.03	16 -0.01
Plant transfer factor for Co	2 0.83	2 0.35	2 0.61	2 0.21
Meat transfer factor for Co	3 0.37	4 0.09	3 0.33	5 0.09
Milk transfer factor for Co	5 0.28	6 0.07	8 0.09	9 0.02
Fish transfer factor for Co	20 0.00	20 0.00	10 0.07	11 0.02
Well pumping rate	15 0.02	10 0.02	6 -0.12	4 -0.11
Irrigation	17 0.01	11 0.01	5 0.12	3 0.11
Well pump intake depth	13 -0.03	16 -0.01	18 0.01	18 0.00
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.

Title : Template for Yankee Rowe Sensitivity Analysis=soil

Input File : Co-60.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	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.

Title : Template for Yankee Rowe Sensitivity Analysis=soil

Input File : Co-60.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	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
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 results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Sr-90.RAD

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	.00003	.8119	.00004	.9495	.00
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										

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	Peak mean dose
	Years	mrem/yr
1	0.000E+00	9.270E+00
2	0.000E+00	9.330E+00
3	0.000E+00	9.653E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sr-90.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	8 0.08	9 0.02	5 0.16	7 0.05
External gamma shielding factor	4 0.11	5 0.03	19 0.01	19 0.00
Well pump intake depth	6 0.09	7 0.03	9 -0.05	11 -0.01
Depth of soil mixing layer	11 -0.04	13 -0.01	15 -0.02	15 -0.01
Depth of roots	2 -0.49	3 -0.17	2 -0.70	3 -0.29
Wet weight crop yield of fruit, grain and non-leafy vegetables	9 0.07	10 0.02	10 0.05	12 0.01
Wet foliar interception fraction of leafy vegetables	15 -0.03	16 -0.01	20 0.00	20 0.00
Weathering removal constant of all vegetation	12 0.04	14 0.01	12 0.04	13 0.01
Mass loading for inhalation	18 0.01	19 0.00	16 -0.02	16 0.00
Thickness of contaminated zone	5 0.10	2 0.19	4 0.23	2 0.46
Well pumping rate	16 -0.02	11 -0.02	11 -0.04	8 -0.05
Thickness of Unsaturated zone 1	19 0.00	17 0.01	13 0.03	6 0.06
Kd of Sr-90 in Contaminated Zone	10 0.04	12 0.01	7 0.08	10 0.02
Kd of Sr-90 in Unsaturated Zone 1	20 0.00	20 0.00	18 -0.01	18 0.00
Kd of Sr-90 in Saturated Zone	13 -0.03	15 -0.01	17 0.01	17 0.00
Plant transfer factor for Sr	1 0.95	1 0.91	1 0.94	1 0.82
Meat transfer factor for Sr	7 0.09	8 0.03	6 0.10	9 0.03
Milk transfer factor for Sr	3 0.18	4 0.06	3 0.27	4 0.08
Fish transfer factor for Sr	17 -0.01	18 0.00	14 0.03	14 0.01
Irrigation	14 0.03	6 0.03	8 0.06	5 0.06
R-SQUARE	0.91	0.91	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 : NB-94.RAD

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	.00003	.8119	.00004	.9495	.00
10	THICK0	UNIFORM	.15	3										
11	H(1)	UNIFORM	.01	2.85										
12	UW	UNIFORM	957	1689										
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(41,1)	TRUNCATED LOGNORMAL-N	-4.61	1.1	.001	.999								
17	BRTF(41,2)	TRUNCATED LOGNORMAL-N	-13.82	.9	.001	.999								
18	BRTF(41,3)	TRUNCATED LOGNORMAL-N	-13.12	.7	.001	.999								
19	BBIO(41,1)	LOGNORMAL-N	5.7	1.1										
20	RI	UNIFORM	.252	.618										

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : NB-94.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	2.927E+00
2	0.000E+00	2.931E+00
3	0.000E+00	2.930E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : NB-94.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	14 0.02	16 0.00	10 0.04	12 0.00
External gamma shielding factor	1 1.00	1 1.00	1 0.99	1 0.99
Well pump intake depth	7 0.05	9 0.00	7 0.07	8 0.01
Depth of soil mixing layer	4 -0.08	4 -0.01	6 -0.08	7 -0.01
Depth of roots	8 -0.05	10 0.00	15 -0.02	17 0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	16 -0.01	17 0.00	20 0.00	20 0.00
Wet foliar interception fraction of leafy vegetables	6 -0.06	8 -0.01	5 -0.09	6 -0.01
Weathering removal constant of all vegetation	3 0.09	3 0.01	4 0.12	5 0.01
Mass loading for inhalation	12 0.02	15 0.00	17 0.01	19 0.00
Thickness of contaminated zone	18 0.00	12 0.00	14 0.02	3 0.02
Thickness of Unsaturated zone 1	15 -0.01	5 -0.01	18 0.00	15 0.00
Well pumping rate	20 0.00	18 0.00	16 -0.01	11 -0.01
Kd of Nb-94 in Contaminated Zone	11 0.02	14 0.00	2 0.29	2 0.03
Kd of Nb-94 in Unsaturated Zone 1	17 -0.01	19 0.00	11 -0.04	13 0.00
Kd of Nb-94 in Saturated Zone	19 0.00	20 0.00	8 0.06	9 0.01
Plant transfer factor for Nb	2 0.18	2 0.02	12 0.04	14 0.00
Meat transfer factor for Nb	9 0.03	11 0.00	13 -0.02	16 0.00
Milk transfer factor for Nb	5 -0.07	7 -0.01	3 -0.12	4 -0.01
Fish transfer factor for Nb	10 -0.03	13 0.00	9 -0.06	10 -0.01
Irrigation	13 -0.02	6 -0.01	19 0.00	18 0.00
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

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	.00003	.8119	.00004	.9495	.00
10	THICK0	UNIFORM	.15	3										
11	UW	UNIFORM	957	1689										
12	H(1)	UNIFORM	.01	2.85										
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	-.67	3.16	.001	.999								
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	-.67	3.16	.001	.999								
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	-.67	3.16	.001	.999								
16	BRTF(43,1)	TRUNCATED LOGNORMAL-N	1.61	.9	.001	.999								
17	BRTF(43,2)	TRUNCATED LOGNORMAL-N	-9.21	.7	.001	.999								
18	BRTF(43,3)	TRUNCATED LOGNORMAL-N	-6.91	.7	.001	.999								
19	BBIO(43,1)	LOGNORMAL-N	3	1.1										
20	RI	UNIFORM	.252	.618										

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	9.883E-01
2	0.000E+00	9.891E-01
3	0.000E+00	1.027E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose

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

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Tc-99.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	9 0.05	11 0.02	6 0.14	6 0.05
External gamma shielding factor	5 0.09	7 0.03	9 0.04	11 0.01
Well pump intake depth	4 0.13	6 0.04	10 -0.04	12 -0.01
Depth of soil mixing layer	12 -0.04	14 -0.01	15 -0.02	17 -0.01
Depth of roots	2 -0.46	2 -0.18	2 -0.66	3 -0.29
Wet weight crop yield of fruit, grain and non-leafy vegetables	7 0.07	9 0.02	8 0.05	10 0.02
Wet foliar interception fraction of leafy vegetables	10 -0.04	13 -0.02	18 0.01	19 0.00
Weathering removal constant of all vegetation	13 0.03	15 0.01	7 0.05	9 0.02
Mass loading for inhalation	18 -0.01	18 0.00	12 -0.03	15 -0.01
Thickness of contaminated zone	6 0.07	3 0.15	5 0.23	2 0.51
Well pumping rate	15 0.02	8 0.03	19 -0.01	14 -0.01
Thickness of Unsaturated zone 1	11 -0.04	4 -0.09	14 0.02	7 0.04
Kd of Tc-99 in Contaminated Zone	8 0.05	10 0.02	3 0.32	4 0.11
Kd of Tc-99 in Unsaturated Zone 1	20 0.00	20 0.00	20 0.01	20 0.00
Kd of Tc-99 in Saturated Zone	14 -0.03	16 -0.01	17 -0.01	18 0.00
Plant transfer factor for Tc	1 0.93	1 0.87	1 0.92	1 0.76
Meat transfer factor for Tc	19 0.01	19 0.00	13 0.02	16 0.01
Milk transfer factor for Tc	3 0.23	5 0.08	4 0.23	5 0.08
Fish transfer factor for Tc	16 -0.02	17 -0.01	11 0.03	13 0.01
Irrigation	17 -0.01	12 -0.02	16 0.02	8 0.02
R-SQUARE	0.89	0.89	0.89	0.89

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Ru-106.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	3.665E-01
2	0.000E+00	3.668E-01
3	0.000E+00	3.655E-01

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ru-106.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ru-106.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	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ru-106.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	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
R-SQUARE	0.89	0.89	0.90	0.90

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Ag-108m.RAD

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	.00003	.8119	.00004	.9495	.00
10	DCACTC(1)	TRUNCATED LOGNORMAL-N	5.38	2.1	.001	.999								
11	DCACTU1(1)	TRUNCATED LOGNORMAL-N	5.38	2.1	.001	.999								
12	DCACTS(1)	TRUNCATED LOGNORMAL-N	5.38	2.1	.001	.999								
13	BRTF(47,1)	TRUNCATED LOGNORMAL-N	-5.52	.9	.001	.999								
14	BRTF(47,2)	TRUNCATED LOGNORMAL-N	-6.21	.7	.001	.999								
15	BRTF(47,3)	TRUNCATED LOGNORMAL-N	-5.12	.7	.001	.999								
16	BBIO(47,1)	LOGNORMAL-N	1.6	1.1										
17	THICK0	UNIFORM	.15	3										
18	H(1)	UNIFORM	.01	2.85										
19	UW	UNIFORM	957	1689										
20	RI	UNIFORM	.252	.618										

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Ag-108m.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	2.934E+00
2	0.000E+00	2.932E+00
3	0.000E+00	2.934E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ag-108m.RAD

Coefficients for peak of mean dose time Dose

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

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ag-108m.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	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Ag-108m.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	4 0.10	4 0.00	8 0.10	10 0.00
External gamma shielding factor	1 1.00	1 1.00	1 1.00	1 1.00
Well pump intake depth	7 -0.05	7 0.00	11 0.06	13 0.00
Depth of soil mixing layer	18 0.00	20 0.00	15 -0.03	15 0.00
Depth of roots	9 -0.04	10 0.00	16 -0.03	16 0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	11 0.02	12 0.00	10 -0.06	12 0.00
Wet foliar interception fraction of leafy vegetables	6 -0.06	6 0.00	9 -0.10	11 0.00
Weathering removal constant of all vegetation	13 -0.01	16 0.00	12 -0.06	14 0.00
Mass loading for inhalation	10 0.04	11 0.00	20 0.00	20 0.00
Kd of Ag-108m in Contaminated Zone	5 0.07	5 0.00	3 0.36	4 0.01
Kd of Ag-108m in Unsaturated Zone 1	12 0.01	14 0.00	19 0.00	19 0.00
Kd of Ag-108m in Saturated Zone	17 0.00	19 0.00	6 -0.11	9 0.00
Plant transfer factor for Ag	2 0.38	2 0.01	2 0.37	3 0.01
Meat transfer factor for Ag	8 0.05	8 0.00	17 0.02	17 0.00
Milk transfer factor for Ag	3 0.34	3 0.01	4 0.31	7 0.01
Fish transfer factor for Ag	15 0.00	18 0.00	18 0.02	18 0.00
Thickness of contaminated zone	14 -0.01	9 0.00	14 0.05	8 0.01
Thickness of Unsaturated zone 1	20 0.00	15 0.00	13 0.06	6 0.01
Well pumping rate	19 0.00	17 0.00	7 -0.11	5 -0.01
Irrigation	16 0.00	13 0.00	5 0.11	2 0.01
R-SQUARE	1.00	1.00	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.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Sb-125.RAD

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	.00003	.8119	.00004	.9495	.00
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										

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	6.619E-01
2	0.000E+00	6.627E-01
3	0.000E+00	6.626E-01

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sb-125.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	7 -0.08	8 -0.01	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.

Title : Yankee Rowe Sensitivity Analysis=soil

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Sb-125.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	19 0.01	19 0.00	16 0.03	17 0.00
External gamma shielding factor	1 1.00	1 1.00	1 0.99	1 0.99
Well pump intake depth	9 0.05	11 0.00	10 0.06	12 0.01
Depth of soil mixing layer	4 -0.09	7 -0.01	7 -0.08	10 -0.01
Depth of roots	5 -0.07	8 -0.01	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
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 : Cs-134.RAD

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	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	.00
9	THICK0	UNIFORM	.15	3										
10	H(1)	UNIFORM	.01	2.85										
11	DCACTC(1)	TRUNCATED LOGNORMAL-N	6.1	2.33	.001	.999								
12	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.1	2.33	.001	.999								
13	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.1	2.33	.001	.999								
14	BRTF(55,1)	TRUNCATED LOGNORMAL-N	-3.22	1	.001	.999								
15	BRTF(55,2)	TRUNCATED LOGNORMAL-N	-3	.4	.001	.999								
16	BRTF(55,3)	TRUNCATED LOGNORMAL-N	-4.61	.5	.001	.999								
17	BBIO(55,1)	LOGNORMAL-N	7.6	.7										
18	UW	UNIFORM	957	1689										
19	RI	UNIFORM	.252	.618										
20	DWIBWT	TRIANGULAR	6	10	30									

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Cs-134.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	3.751E+00
2	0.000E+00	3.688E+00
3	0.000E+00	3.728E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Cs-134.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Cs-134.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	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Cs-134.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	18 0.01	18 0.00	7 0.10	7 0.03
External gamma shielding factor	2 0.71	2 0.40	1 0.88	1 0.66
Depth of soil mixing layer	7 -0.09	10 -0.03	15 -0.02	17 -0.01
Depth of roots	4 -0.31	5 -0.13	3 -0.46	4 -0.18
Wet weight crop yield of fruit, grain and non-leafy vegetables	8 -0.06	11 -0.02	9 0.06	10 0.02
Wet foliar interception fraction of leafy vegetables	11 -0.05	14 -0.02	19 0.00	20 0.00
Weathering removal constant of all vegetation	10 -0.05	13 -0.02	13 0.05	14 0.02
Mass loading for inhalation	9 -0.06	12 -0.02	18 -0.01	19 0.00
Thickness of contaminated zone	16 -0.02	8 -0.05	6 0.10	3 0.26
Thickness of Unsaturated zone 1	6 -0.10	3 -0.27	20 0.00	18 0.00
Kd of Cs-134 in Contaminated Zone	17 0.02	17 0.01	11 0.05	12 0.02
Kd of Cs-134 in Unsaturated Zone 1	15 0.02	16 0.01	12 -0.05	13 -0.02
Kd of Cs-134 in Saturated Zone	20 0.00	20 0.00	10 0.05	11 0.02
Plant transfer factor for Cs	1 0.88	1 0.73	2 0.84	2 0.54
Meat transfer factor for Cs	5 0.15	7 0.06	5 0.34	6 0.13
Milk transfer factor for Cs	3 0.38	4 0.16	4 0.41	5 0.16
Fish transfer factor for Cs	12 0.05	15 0.02	14 0.03	16 0.01
Well pumping rate	14 -0.03	9 -0.04	16 0.02	9 0.03
Irrigation	13 0.04	6 0.06	17 -0.01	15 -0.02
Well pump intake depth	19 0.00	19 0.00	8 0.08	8 0.03
R-SQUARE	0.85	0.85	0.88	0.88

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Cs-137.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	2.042E+00
2	0.000E+00	2.037E+00
3	0.000E+00	2.052E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Cs-137.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	7 -0.12	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Cs-137.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	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.

Title : Yankee Rowe Sensitivity Analysis=soil

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

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Eu-152.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	2.073E+00
2	0.000E+00	2.074E+00
3	0.000E+00	2.073E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Eu-152.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	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 foliage 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.

Title : Yankee Rowe Sensitivity Analysis=soil

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

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

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : EU-154.RAD

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	.00003	.8119	.00004	.9495	.00
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										

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	2.246E+00
2	0.000E+00	2.247E+00
3	0.000E+00	2.248E+00

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-154.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	9 0.03	11 0.00	8 0.07	12 0.00
External gamma shielding factor	1 1.00	1 1.00	1 1.00	1 1.00
Well pump intake depth	7 0.04	9 0.00	9 0.05	13 0.00
Depth of soil mixing layer	4 -0.08	5 0.00	5 -0.09	9 -0.01
Depth of roots	11 -0.02	13 0.00	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
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.

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : EU-155.RAD

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	.00003	.8119	.00004	.9495	.00
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										

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	5.348E-02
2	0.000E+00	5.353E-02
3	0.000E+00	5.354E-02

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose

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

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

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

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : EU-155.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig Coeff		Sig Coeff		Sig Coeff		Sig Coeff	
Indoor dust filtration factor	12	0.03	13	0.00	14	0.05	16	0.00
External gamma shielding factor	1	1.00	1	1.00	1	1.00	1	1.00
Well pump intake depth	8	0.06	9	0.00	8	0.07	11	0.00
Depth of soil mixing layer	6	-0.10	7	0.00	7	-0.08	10	-0.01
Depth of roots	4	-0.15	5	-0.01	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
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.

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	4.714E-01
2	0.000E+00	4.952E-01
3	0.000E+00	4.839E-01

Coefficients for peak of mean dose time Dose		PCC		SRC		PRCC		SRRC	
Coefficient =		1		1		1		1	
Repetition =									
Description of Probabilistic Variable	Sig	Coef	Sig	Coef	Sig	Coef	Sig	Coef	Sig
Indoor dust filtration factor	21	0.06	24	0.03	24	0.04	27	0.01	
External gamma shielding factor	37	0.02	37	0.01	29	0.03	32	0.01	
Well pump intake depth	33	-0.03	33	-0.01	41	-0.02	42	0.00	
Depth of soil mixing layer	19	-0.07	23	-0.03	9	-0.08	10	-0.03	
Depth of roots	2	-0.40	3	-0.21	2	-0.65	3	-0.26	
Wet weight crop yield of fruit, grain and non-leafy vegetables	6	-0.12	11	-0.06	48	0.00	48	0.00	
Wet foliar interception fraction of leafy vegetables	8	0.10	14	0.05	14	0.05	16	0.02	
Weathering removal constant of all vegetation	42	0.00	42	0.00	25	0.04	28	0.01	
Mass loading for inhalation	31	0.03	32	0.01	8	0.10	9	0.03	
Thickness of contaminated zone	14	0.08	2	0.26	3	0.19	2	0.41	
Well pumping rate	23	-0.05	7	-0.08	42	0.01	20	0.01	
Thickness of Unsaturated zone 1	30	-0.03	6	-0.10	40	-0.02	7	-0.03	
Kd of Pb-210 in Contaminated Zone	41	0.00	41	0.00	34	-0.02	37	-0.01	
Kd of Pb-210 in Unsaturated Zone 1	40	-0.01	40	0.00	47	0.00	47	0.00	
Kd of Pb-210 in Saturated Zone	22	-0.05	25	-0.02	26	0.04	29	0.01	
Kd of Pu-238 in Contaminated Zone	9	0.10	13	0.05	4	-0.13	4	-0.04	
Kd of Pu-238 in Unsaturated Zone 1	29	0.03	31	0.02	28	-0.03	31	-0.01	
Kd of Pu-238 in Saturated Zone	39	0.01	39	0.01	27	0.03	30	0.01	
Kd of Ra-226 in Contaminated Zone	3	-0.24	4	-0.12	11	0.06	12	0.02	
Kd of Ra-226 in Unsaturated Zone 1	15	-0.08	18	-0.04	33	-0.03	35	-0.01	
Kd of Ra-226 in Saturated Zone	32	-0.03	27	-0.02	19	0.05	22	0.01	
Kd of Th-230 in Contaminated Zone	27	-0.04	29	-0.02	43	-0.01	43	0.00	
Kd of Th-230 in Unsaturated Zone 1	11	0.09	9	0.07	44	0.01	44	0.00	
Kd of Th-230 in Saturated Zone	43	0.00	43	0.00	18	-0.05	21	-0.01	
Kd of U-234 in Contaminated Zone	7	-0.10	12	-0.05	31	-0.03	34	-0.01	
Kd of U-234 in Unsaturated Zone 1	46	0.00	46	0.00	20	-0.04	23	-0.01	
Kd of U-234 in Saturated Zone	20	0.06	20	0.04	16	0.05	18	0.01	
Plant transfer factor for Pb	34	-0.02	34	-0.01	30	0.03	33	0.01	
Plant transfer factor for Pu	1	0.84	1	0.76	1	0.93	1	0.79	
Plant transfer factor for Ra	5	0.12	10	0.06	15	0.05	17	0.02	
Plant transfer factor for Th	16	0.07	21	0.03	45	-0.01	45	0.00	
Plant transfer factor for U	38	-0.01	38	-0.01	6	0.11	6	0.03	

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
<hr/>								
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.

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

Description of Probabilistic Variable	PCC		SRC		PRCC		SRRC	
	Sig	Coef	Sig	Coef	Sig	Coef	Sig	Coef
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

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
R-SQUARE		0.86	0.86	0.90	0.90			

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

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

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

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
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	5.462E-01
2	0.000E+00	5.445E-01
3	0.000E+00	5.275E-01

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
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
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.

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
Repetition =	2	2	2	2

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	20 0.05	20 0.02	22 -0.04	24 -0.01
External gamma shielding factor	28 0.03	28 0.01	10 -0.09	11 -0.03
Well pump intake depth	40 0.00	40 0.00	32 0.01	32 0.00
Depth of soil mixing layer	5 -0.10	7 -0.04	39 0.00	39 0.00
Depth of roots	2 -0.48	3 -0.19	2 -0.69	3 -0.28
Wet weight crop yield of fruit, grain and non-leafy vegetables	25 0.04	25 0.01	14 -0.07	16 -0.02
Wet foliar interception fraction of leafy vegetables	11 -0.07	12 -0.03	4 0.13	5 0.04
Weathering removal constant of all vegetation	8 -0.08	10 -0.03	37 0.01	37 0.00
Mass loading for inhalation	10 0.07	13 0.03	30 0.02	30 0.01
Thickness of contaminated zone	3 0.11	2 0.26	3 0.19	2 0.39
Well pumping rate	15 -0.06	5 -0.08	27 0.02	13 0.03
Thickness of Unsaturated zone 1	39 0.00	30 -0.01	26 -0.03	4 -0.05
Kd of Ac-227 in Contaminated Zone	33 0.01	34 0.00	33 -0.01	33 0.00
Kd of Ac-227 in Unsaturated Zone 1	41 0.00	41 0.00	18 0.04	20 0.01
Kd of Ac-227 in Saturated Zone	22 -0.05	22 -0.02	36 0.01	36 0.00
Kd of Pa-231 in Contaminated Zone	32 -0.02	33 -0.01	28 -0.02	28 -0.01
Kd of Pa-231 in Unsaturated Zone 1	13 -0.07	14 -0.02	9 0.09	10 0.03
Kd of Pa-231 in Saturated Zone	31 0.02	32 0.01	38 0.01	38 0.00
Kd of Pu-239 in Contaminated Zone	21 -0.05	21 -0.02	15 -0.06	17 -0.02
Kd of Pu-239 in Unsaturated Zone 1	6 0.10	8 0.03	13 0.07	15 0.02
Kd of Pu-239 in Saturated Zone	27 0.03	27 0.01	21 -0.04	23 -0.01
Kd of U-235 in Contaminated Zone	26 -0.04	26 -0.01	12 -0.08	14 -0.02
Kd of U-235 in Unsaturated Zone 1	16 0.06	15 0.02	24 0.03	26 0.01
Kd of U-235 in Saturated Zone	18 0.06	18 0.02	19 0.04	21 0.01
Plant transfer factor for Ac	36 -0.01	37 0.00	7 -0.10	8 -0.03
Plant transfer factor for Pa	29 0.03	29 0.01	11 -0.09	12 -0.03
Plant transfer factor for Pu	1 0.93	1 0.86	1 0.94	1 0.80
Plant transfer factor for U	19 0.06	19 0.02	29 0.02	29 0.01
Meat transfer factor for Ac	24 -0.04	24 -0.02	25 0.03	27 0.01
Meat transfer factor for Pa	9 -0.07	11 -0.03	35 0.01	35 0.00
Meat transfer factor for Pu	7 0.08	9 0.03	34 -0.01	34 0.00
Meat transfer factor for U	14 0.06	16 0.02	23 -0.04	25 -0.01
Milk transfer factor for Ac	37 0.00	38 0.00	5 0.12	6 0.04
Milk transfer factor for Pa	38 0.00	39 0.00	40 0.00	40 0.00
Milk transfer factor for Pu	4 -0.10	6 -0.04	20 0.04	22 0.01
Milk transfer factor for U	30 0.02	31 0.01	8 -0.10	9 -0.03
Fish transfer factor for Ac	34 0.01	35 0.00	31 0.02	31 0.00
Fish transfer factor for Pa	35 0.01	36 0.00	6 -0.10	7 -0.03
Fish transfer factor for Pu	17 0.06	17 0.02	16 0.06	18 0.02
Fish transfer factor for U	23 0.05	23 0.02	17 -0.05	19 -0.01
Irrigation	12 0.07	4 0.08	41 0.00	41 0.00
R-SQUARE	0.88	0.88	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.

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
Repetition =	3	3	3	3

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Indoor dust filtration factor	36 -0.01	36 0.00	12 0.06	12 0.02
External gamma shielding factor	21 -0.04	20 -0.02	21 -0.04	21 -0.01
Well pump intake depth	11 0.07	14 0.04	31 -0.02	31 -0.01
Depth of soil mixing layer	27 0.03	29 0.01	35 -0.01	35 0.00
Depth of roots	2 -0.38	3 -0.22	2 -0.69	2 -0.29
Wet weight crop yield of fruit, grain and non-leafy vegetables	37 0.01	37 0.00	17 0.04	17 0.01
Wet foliar interception fraction of leafy vegetables	26 -0.03	28 -0.01	29 -0.02	29 -0.01
Weathering removal constant of all vegetation	4 0.13	6 0.07	39 -0.01	39 0.00
Mass loading for inhalation	13 -0.06	15 -0.03	38 -0.01	38 0.00
Thickness of contaminated zone	3 0.13	2 0.46	3 0.12	3 0.26
Well pumping rate	33 0.01	24 0.02	4 -0.10	5 -0.11
Thickness of Unsaturated zone 1	30 0.02	5 0.07	6 -0.09	4 -0.18
Kd of Ac-227 in Contaminated Zone	23 -0.03	25 -0.02	28 0.02	28 0.01
Kd of Ac-227 in Unsaturated Zone 1	40 0.00	40 0.00	22 -0.03	22 -0.01
Kd of Ac-227 in Saturated Zone	34 0.01	34 0.00	36 0.01	36 0.00
Kd of Pa-231 in Contaminated Zone	14 0.05	16 0.03	27 -0.03	27 -0.01
Kd of Pa-231 in Unsaturated Zone 1	29 0.02	31 0.01	13 -0.06	13 -0.02
Kd of Pa-231 in Saturated Zone	38 0.00	38 0.00	41 -0.01	41 0.00
Kd of Pu-239 in Contaminated Zone	24 -0.03	26 -0.02	11 -0.06	11 -0.02
Kd of Pu-239 in Unsaturated Zone 1	41 0.00	41 0.00	16 -0.05	16 -0.01
Kd of Pu-239 in Saturated Zone	20 -0.04	22 -0.02	18 -0.04	18 -0.01
Kd of U-235 in Contaminated Zone	6 0.08	8 0.05	19 0.04	19 0.01
Kd of U-235 in Unsaturated Zone 1	39 0.00	39 0.00	7 -0.09	8 -0.03
Kd of U-235 in Saturated Zone	8 -0.08	12 -0.04	26 -0.03	26 -0.01
Plant transfer factor for Ac	31 -0.01	32 -0.01	15 -0.05	15 -0.02
Plant transfer factor for Pa	16 0.05	17 0.03	34 0.01	34 0.00
Plant transfer factor for Pu	1 0.81	1 0.73	1 0.93	1 0.78
Plant transfer factor for U	32 0.01	33 0.01	32 -0.01	32 0.00
Meat transfer factor for Ac	22 -0.04	23 -0.02	37 0.01	37 0.00
Meat transfer factor for Pa	9 -0.08	10 -0.04	20 0.04	20 0.01
Meat transfer factor for Pu	35 -0.01	35 0.00	25 0.03	25 0.01
Meat transfer factor for U	12 -0.07	13 -0.04	14 -0.05	14 -0.02
Milk transfer factor for Ac	25 0.03	27 0.02	23 -0.03	23 -0.01
Milk transfer factor for Pa	7 0.08	9 0.04	33 0.01	33 0.00
Milk transfer factor for Pu	5 0.09	7 0.05	40 0.01	40 0.00
Milk transfer factor for U	19 -0.04	21 -0.02	10 0.06	10 0.02
Fish transfer factor for Ac	17 0.05	19 0.02	30 -0.02	30 -0.01
Fish transfer factor for Pa	10 -0.08	11 -0.04	5 -0.09	7 -0.03
Fish transfer factor for Pu	15 -0.05	18 -0.03	9 -0.08	9 -0.02
Fish transfer factor for U	28 -0.03	30 -0.01	24 -0.03	24 -0.01
Irrigation	18 -0.05	4 -0.08	8 0.08	6 0.09
R-SQUARE	0.73	0.73	0.91	0.91

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

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

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	1.578E-02
2	4.125E+01	1.581E-02
3	4.125E+01	1.624E-02

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

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

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

R-SQUARE	0.85	0.85	0.84	0.84
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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.

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

Description of Probabilistic Variable	PCC		SRC		PRCC		SRRC	
	Sig	Coef	Sig	Coef	Sig	Coef	Sig	Coef
Indoor dust filtration factor	12	0.10	14	0.04	39	-0.02	40	-0.01
External gamma shielding factor	16	0.08	17	0.03	14	0.10	15	0.04
Well pump intake depth	30	-0.03	30	-0.01	37	-0.03	38	-0.01
Depth of soil mixing layer	48	0.00	48	0.00	27	-0.06	27	-0.02
Depth of roots	2	-0.41	4	-0.18	2	-0.61	3	-0.29
Wet weight crop yield of fruit, grain and non-leafy vegetables	47	0.00	47	0.00	22	-0.07	23	-0.03
Wet foliar interception fraction of leafy vegetables	40	-0.01	40	-0.01	40	-0.02	41	-0.01
Weathering removal constant of all vegetation	27	-0.04	28	-0.02	25	-0.06	26	-0.02
Mass loading for inhalation	8	0.15	10	0.06	8	0.12	10	0.04
Thickness of contaminated zone	5	0.16	2	0.44	4	0.21	2	0.54
Well pumping rate	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

transfer factor for Am	38	0.02	38	0.01	26	0.06	28	0.02
Meat transfer factor for Np	35	0.02	36	0.01	42	-0.01	42	0.00
Meat transfer factor for Pu	13	0.10	15	0.04	48	0.00	48	0.00
Meat transfer factor for Th	23	-0.05	24	-0.02	44	-0.01	44	0.00
Meat transfer factor for U	18	0.08	19	0.03	33	-0.03	34	-0.01
Milk transfer factor for Am	45	0.01	46	0.00	32	0.03	33	0.01
Milk transfer factor for Np	20	-0.06	21	-0.02	21	-0.08	22	-0.03
Milk transfer factor for Pu	26	-0.04	26	-0.02	15	-0.09	16	-0.03
Milk transfer factor for Th	39	0.02	39	0.01	38	-0.02	39	-0.01
Milk transfer factor for U	17	-0.08	18	-0.03	28	-0.06	29	-0.02
Fish transfer factor for Am	19	0.07	20	0.03	7	-0.12	9	-0.05
Fish transfer factor for Np	31	-0.03	31	-0.01	9	-0.11	11	-0.04
Fish transfer factor for Pu	14	-0.09	12	-0.05	34	-0.03	35	-0.01
Fish transfer factor for Th	6	0.15	8	0.08	6	0.12	8	0.05
Fish transfer factor for U	11	0.11	13	0.04	24	0.07	25	0.02
Kd of Np-237 in Saturated Zone	41	-0.01	41	-0.01	18	0.08	19	0.03
Kd of Np-237 in Contaminated Zone	32	-0.03	32	-0.01	35	-0.03	36	-0.01
Kd of Np-237 in Unsaturated Zone 1	37	-0.02	37	-0.01	36	0.03	37	0.01
Irrigation	7	-0.15	3	-0.20	11	-0.11	5	-0.14

R-SQUARE	0.85	0.85	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.

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

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

R-SQUARE	0.87	0.87	0.87	0.87
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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 : Am-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	0.000E+00	5.637E-01
2	0.000E+00	5.639E-01
3	0.000E+00	5.496E-01

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Am-241.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	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
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.

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Am-241.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	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
R-SQUARE	0.86	0.86	0.90	0.90

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

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

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : Am-241.RAD

Coefficients for peak of mean dose time Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Indoor dust filtration factor	32	0.01	33	0.00	26	0.03	28	0.01
External gamma shielding factor	4	0.14	5	0.07	4	0.18	4	0.06
Depth of soil mixing layer	13	-0.06	13	-0.03	13	-0.08	15	-0.03
Depth of roots	2	-0.42	4	-0.23	2	-0.69	3	-0.29
Wet weight crop yield of fruit, grain and non-leafy vegetables	36	0.01	37	0.00	35	0.01	36	0.00
Wet foliar interception fraction of leafy vegetables	5	-0.13	6	-0.06	6	-0.13	8	-0.04
Weathering removal constant of all vegetation	12	-0.07	12	-0.03	9	0.10	11	0.03
Mass loading for inhalation	38	0.00	39	0.00	37	0.01	37	0.00
Thickness of contaminated zone	3	0.17	2	0.58	3	0.23	2	0.49
Thickness of Unsaturated zone 1	10	0.08	3	0.26	29	0.02	6	0.05
Kd of Am-241 in Contaminated Zone	8	0.10	8	0.05	19	0.05	21	0.02
Kd of Am-241 in Unsaturated Zone 1	21	0.03	20	0.02	28	0.03	30	0.01
Kd of Am-241 in Saturated Zone	34	0.01	35	0.00	18	-0.06	20	-0.02
Plant transfer factor for Am	1	0.85	1	0.79	1	0.93	1	0.78
Meat transfer factor for Am	33	0.01	34	0.00	23	0.05	24	0.01
Milk transfer factor for Am	9	0.10	10	0.05	10	0.10	12	0.03
Fish transfer factor for Am	25	-0.02	25	-0.01	30	0.02	31	0.01
Plant transfer factor for Np	24	0.03	24	0.01	24	0.04	25	0.01
Meat transfer factor for Np	19	0.04	19	0.02	7	-0.12	9	-0.04
Milk transfer factor for Np	14	-0.06	14	-0.03	21	0.05	22	0.02
Fish transfer factor for Np	16	-0.05	16	-0.03	34	-0.01	35	0.00
Kd of Th-229 in Contaminated Zone	26	-0.02	26	-0.01	15	-0.08	16	-0.02
Kd of Th-229 in Unsaturated Zone 1	37	0.00	38	0.00	27	-0.03	29	-0.01
Kd of Th-229 in Saturated Zone	11	0.07	11	0.04	16	0.07	18	0.02
Plant transfer factor for Th	31	0.01	31	0.01	8	-0.12	10	-0.04
Meat transfer factor for Th	17	0.05	17	0.03	31	-0.02	32	-0.01
Milk transfer factor for Th	40	0.00	40	0.00	12	-0.10	14	-0.03
Fish transfer factor for Th	15	-0.06	15	-0.03	40	-0.01	40	0.00
Kd of U-233 in Contaminated Zone	28	-0.02	28	-0.01	14	0.08	17	0.02
Kd of U-233 in Unsaturated Zone 1	27	-0.02	27	-0.01	33	-0.02	34	-0.01
Kd of U-233 in Saturated Zone	22	-0.03	22	-0.02	41	0.00	41	0.00
Plant transfer factor for U	6	0.12	7	0.06	32	0.02	33	0.01
Meat transfer factor for U	35	0.01	36	0.00	39	0.01	39	0.00
Milk transfer factor for U	30	-0.01	30	-0.01	17	0.06	19	0.02
Fish transfer factor for U	18	0.05	18	0.02	11	-0.10	13	-0.03
Kd of Np-237 in Contaminated Zone	20	0.04	21	0.02	22	-0.05	23	-0.02
Kd of Np-237 in Unsaturated Zone 1	23	-0.03	23	-0.02	25	0.04	27	0.01
Kd of Np-237 in Saturated Zone	29	-0.01	29	-0.01	5	-0.13	7	-0.04
Well pumping rate	41	0.00	41	0.00	20	-0.05	5	-0.05
Irrigation	39	0.00	32	0.00	36	0.01	26	0.01
Well pump intake depth	7	-0.10	9	-0.05	38	0.01	38	0.00
R-SQUARE		0.77		0.77		0.91		0.91

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : Cm-243.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	5.493E-01
2	0.000E+00	5.445E-01
3	0.000E+00	5.582E-01

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

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

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

R-SQUARE	0.86	0.86	0.89	0.89
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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.

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

Description of Probabilistic Variable	PCC		SRC		PRCC		SRRC	
	Sig	Coef	Sig	Coef	Sig	Coef	Sig	Coef
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

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
R-SQUARE					0.86	0.86	0.88	0.88

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

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

Coefficients for peak of mean dose time Dose

Coefficient =
 Repetition =

PCC SRC PRCC SRRC
 3 3 3 3

Description of Probabilistic Variable

Description of Probabilistic Variable	PCC		SRC		PRCC		SRRC	
	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

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.