

Probabilistic Input

0Number of Sample Runs: 3000

Number	Name	Distribution	Parameters
1	SHF3	UNIFORM	.15 .95
2	SHF1	BOUNDED LOGNORMAL-N	-1.3 .59 .044 1
3	DWIBWT	TRIANGULAR	6 10 30
4	DM	TRIANGULAR	0 .15 .6
5	DROOT	UNIFORM	.3 4
6	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
7	RWET(2)	TRIANGULAR	.06 .67 .95
8	WLAM	TRIANGULAR	5.1 18 84
9	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151
.000016	.1365 .00003 .8119 .00004 .9495 .00006 .9937 .000076 .9983 .0001	1	
10	THICK0	UNIFORM	.15 3
11	H(1)	UNIFORM	.01 2.85
12	UW	UNIFORM	957 1689
13	DCACTC(1)	TRUNCATED LOGNORMAL-N	6.05 1.46 .001 .999
14	DCACTU1(1)	TRUNCATED LOGNORMAL-N	6.05 1.46 .001 .999
15	DCACTS(1)	TRUNCATED LOGNORMAL-N	6.05 1.46 .001 .999
16	BRTF(28,1)	TRUNCATED LOGNORMAL-N	-3 .9 .001 .999
17	BRTF(28,2)	TRUNCATED LOGNORMAL-N	-5.3 .9 .001 .999
18	BRTF(28,3)	TRUNCATED LOGNORMAL-N	-3.91 .7 .001 .999
19	BBIO(28,1)	LOGNORMAL-N	4.6 1.1
20	RI	UNIFORM	.252 .618
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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	6.222E-03
2	0.000E+00	6.239E-03
3	0.000E+00	6.267E-03

1 RESRAD Regression and Correlation output 05/21/03 12:09 Page: Coef 1
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : NI-59.RAD

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

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

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

1 RESRAD Regression and Correlation output 05/21/03 12:09 Page: Coef 2
 Title : Yankee Rowe Sensitivity Analysis=soil
 Input File : NI-59.RAD

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

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

Probabilistic results summary : Yankee Rowe Sensitivity Analysis=soil

File : YR_Ni-63.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	1.703E-02
2	0.000E+00	1.708E-02
3	0.000E+00	1.716E-02

1 RESRAD Regression and Correlation output 04/29/03 18:21 Page: Coef 1

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

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

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

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1 RESRAD Regression and Correlation output 04/29/03 18:21 Page: Coef 2

Title : Yankee Rowe Sensitivity Analysis=soil

Input File : YR_Ni-63.RAD

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

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