

6.99E+01 0.00E+00 9.43E-01 4.90E-01 4.13E-01 9.22E-01 9.32E-01 9.35E-01 9.39E-01

7.39E+01 0.00E+00 9.43E-01 4.87E-01 4.11E-01 9.20E-01 9.32E-01 9.34E-01 9.39E-01

7.82E+01	0.00E+00	9.43E-01	4.84E-01	4.10E-01	9.19E-01	9.31E-01	9.34E-01	9.38E-01
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8.28E+01	0.00E+00	9.42E-01	4.80E-01	4.08E-01	9.17E-01	9.29E-01	9.33E-01	9.38E-01
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8.76E+01 0.00E+00 9.42E-01 4.76E-01 4.05E-01 9.16E-01 9.29E-01 9.32E-01 9.37E-01

9.27E+01 0.00E+00 9.42E-01 4.72E-01 4.00E-01 9.10E-01 9.28E-01 9.32E-01 9.37E-01

9.81E+01 0.00E+00 9.42E-01 4.67E-01 3.91E-01 9.08E-01 9.27E-01 9.31E-01 9.36E-01

1.00E+02 0.00E+00 9.42E-01 4.66E-01 3.88E-01 9.08E-01 9.27E-01 9.31E-01 9.36E-01

1.04E+02 0.00E+00 9.42E-01 4.62E-01 3.85E-01 9.04E-01 9.26E-01 9.30E-01 9.35E-01

1.10E+02 0.00E+00 9.42E-01 4.57E-01 3.83E-01 9.02E-01 9.25E-01 9.30E-01 9.35E-01

1.16E+02 0.00E+00 9.41E-01 4.52E-01 3.74E-01 8.99E-01 9.24E-01 9.29E-01 9.34E-01

1.23E+02	0.00E+00	9.41E-01	4.46E-01	3.69E-01	8.97E-01	9.23E-01	9.28E-01	9.33E-01
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1.30E+02 0.00E+00 9.41E-01 4.40E-01 3.63E-01 8.93E-01 9.21E-01 9.27E-01 9.33E-01

1.38E+02	0.00E+00	9.41E-01	4.34E-01	3.59E-01	8.90E-01	9.20E-01	9.26E-01	9.32E-01
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1.46E+02 0.00E+00 9.40E-01 4.27E-01 3.53E-01 8.79E-01 9.17E-01 9.25E-01 9.31E-01

1.54E+02 0.00E+00 9.40E-01 4.19E-01 3.49E-01 8.72E-01 9.16E-01 9.24E-01 9.30E-01

1.63E+02 0.00E+00 9.39E-01 4.11E-01 3.41E-01 8.70E-01 9.15E-01 9.23E-01 9.30E-01

1.73E+02 0.00E+00 9.39E-01 4.03E-01 3.32E-01 8.65E-01 9.13E-01 9.22E-01 9.30E-01

1.83E+02 0.00E+00 9.38E-01 3.94E-01 3.28E-01 8.48E-01 9.12E-01 9.21E-01 9.30E-01

1.94E+02 0.00E+00 9.40E-01 3.85E-01 3.22E-01 8.28E-01 9.09E-01 9.20E-01 9.29E-01

2.05E+02 0.00E+00 9.49E-01 3.74E-01 3.11E-01 8.09E-01 9.06E-01 9.18E-01 9.27E-01

2.17E+02	0.00E+00	9.59E-01	3.64E-01	3.06E-01	8.03E-01	9.03E-01	9.16E-01	9.26E-01
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2.29E+02 0.00E+00 9.70E-01 3.54E-01 3.02E-01 7.99E-01 9.01E-01 9.15E-01 9.25E-01

2.43E+02 0.00E+00 9.81E-01 3.44E-01 2.95E-01 7.95E-01 8.97E-01 9.12E-01 9.21E-01

2.57E+02	0.00E+00	9.92E-01	3.34E-01	2.82E-01	7.86E-01	8.96E-01	9.12E-01	9.22E-01
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2.72E+02 0.00E+00 1.11E+00 3.24E-01 2.75E-01 7.83E-01 8.93E-01 9.10E-01 9.20E-01

2.88E+02 0.00E+00 1.25E+00 3.14E-01 2.67E-01 7.66E-01 8.90E-01 9.09E-01 9.19E-01

3.00E+02 0.00E+00 1.35E+00 3.06E-01 2.60E-01 7.62E-01 8.88E-01 9.06E-01 9.18E-01

3.05E+02 0.00E+00 1.39E+00 3.04E-01 2.58E-01 7.57E-01 8.87E-01 9.06E-01 9.17E-01

3.22E+02 0.00E+00 1.53E+00 2.94E-01 2.46E-01 7.44E-01 8.67E-01 9.01E-01 9.15E-01

3.41E+02 2.24E-13 1.68E+00 2.85E-01 2.38E-01 7.33E-01 8.55E-01 8.98E-01 9.14E-01

3.61E+02	1.59E-11	1.82E+00	2.75E-01	2.30E-01	6.98E-01	8.57E-01	8.96E-01	9.11E-01
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3.82E+02 0.00E+00 1.96E+00 2.65E-01 2.21E-01 6.73E-01 8.43E-01 8.95E-01 9.13E-01

4.04E+02 2.97E-11 2.10E+00 2.56E-01 2.12E-01 6.43E-01 8.40E-01 8.98E-01 9.18E-01

4.28E+02 3.72E-11 2.24E+00 2.47E-01 2.05E-01 6.09E-01 8.36E-01 8.96E-01 9.36E-01

4.53E+02 4.51E-11 2.37E+00 2.38E-01 1.92E-01 5.96E-01 8.33E-01 8.93E-01 9.58E-01

4.79E+02 5.34E-11 2.50E+00 2.29E-01 1.75E-01 5.91E-01 8.30E-01 8.86E-01 9.80E-01

5.07E+02 0.00E+00 2.63E+00 2.20E-01 1.60E-01 5.82E-01 8.06E-01 8.77E-01 1.00E+00

5.36E+02	0.00E+00	2.75E+00	2.12E-01	1.45E-01	5.80E-01	7.92E-01	8.63E-01	1.03E+00
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5.68E+02 0.00E+00 2.86E+00 2.03E-01 1.28E-01 5.74E-01 7.77E-01 8.59E-01 1.05E+00

6.01E+02 0.00E+00 2.97E+00 1.96E-01 1.04E-01 5.42E-01 7.60E-01 8.48E-01 1.08E+00

6.36E+02	1.02E-10	3.07E+00	1.89E-01	8.30E-02	5.30E-01	7.51E-01	8.43E-01	1.10E+00
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6.73E+02 1.14E-10 3.17E+00 1.82E-01 6.72E-02 5.24E-01 7.31E-01 8.32E-01 1.13E+00

7.12E+02 1.26E-10 3.26E+00 1.76E-01 5.83E-02 4.89E-01 7.16E-01 8.17E-01 1.16E+00

7.53E+02 1.39E-10 3.33E+00 1.70E-01 4.71E-02 4.78E-01 6.92E-01 8.10E-01 1.19E+00

7.97E+02 1.52E-10 3.40E+00 1.65E-01 3.76E-02 4.70E-01 6.87E-01 8.03E-01 1.22E+00

8.44E+02 1.66E-10 3.46E+00 1.59E-01 2.95E-02 4.64E-01 6.78E-01 8.23E-01 1.25E+00

8.93E+02 1.81E-10 3.51E+00 1.55E-01 2.67E-02 4.59E-01 6.69E-01 8.17E-01 1.27E+00

9.45E+02 1.97E-10 3.55E+00 1.50E-01 2.13E-02 4.38E-01 6.55E-01 8.10E-01 1.31E+00

1.00E+03 2.13E-10 3.58E+00 1.46E-01 1.81E-02 4.35E-01 6.42E-01 8.03E-01 1.35E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-240.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	5.640E-01
2	0.000E+00	5.640E-01
3	0.000E+00	5.639E-01

Title : RESRAD Default Parameters
Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-240.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	7	-0.06	6	-0.05	8	-0.10	8	-0.03
Contaminated zone b parameter	17	-0.01	17	-0.01	13	0.03	13	0.01
Evapotranspiration coefficient	3	-0.10	3	-0.07	7	-0.11	7	-0.03
Wind Speed	18	0.00	18	0.00	9	-0.08	9	-0.03
Runoff coefficient	4	-0.10	4	-0.07	5	-0.12	5	-0.04
Well pump intake depth	2	-0.12	2	-0.08	6	-0.12	6	-0.03
b Parameter of Unsaturated zone 1	6	0.06	7	0.04	14	-0.03	14	-0.01
Mass loading for inhalation	8	0.05	8	0.03	4	0.14	4	0.04
Indoor dust filtration factor	10	-0.03	10	-0.02	10	0.08	10	0.02
Depth of soil mixing layer	5	0.10	5	0.07	16	0.01	16	0.00
Depth of roots	1	-0.74	1	-0.73	1	-0.95	1	-0.95
Wet weight crop yield of fruit, grain and non-leafy vegetables	14	-0.02	15	-0.01	17	-0.01	17	0.00
Weathering removal constant of all vegetation	11	-0.03	11	-0.02	12	0.04	12	0.01
Wet foliar interception fraction of leafy vegetables	12	0.02	12	0.02	11	0.06	11	0.02
Humidity in air	16	0.02	16	0.01	18	0.00	18	0.00
Kd of Pu-240 in Contaminated Zone	9	-0.05	9	-0.03	3	-0.19	3	-0.06
Kd of Pu-240 in Unsaturated Zone 1	15	-0.02	14	-0.01	15	0.02	15	0.01
Kd of Pu-240 in Saturated Zone	13	-0.02	13	-0.02	2	-0.20	2	-0.06
R-SQUARE		0.56		0.56		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 : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-240.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
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Contaminated zone erosion rate	7	-0.05	7	-0.03	10	-0.09	10	-0.02
Contaminated zone b parameter	13	-0.03	13	-0.02	18	-0.03	18	-0.01
Evapotranspiration coefficient	8	-0.05	8	-0.03	11	-0.09	11	-0.02
Wind Speed	16	-0.01	16	-0.01	9	-0.09	9	-0.02
Runoff coefficient	5	-0.06	5	-0.04	7	-0.11	7	-0.03
Well pump intake depth	3	-0.09	3	-0.06	13	-0.06	13	-0.01
b Parameter of Unsaturated zone 1	15	0.02	15	0.01	15	0.04	15	0.01
Mass loading for inhalation	4	0.09	4	0.05	2	0.21	2	0.05
Indoor dust filtration factor	6	0.06	6	0.03	4	0.18	4	0.04
Depth of soil mixing layer	18	0.00	18	0.00	17	0.03	17	0.01
Depth of roots	1	-0.79	1	-0.79	1	-0.97	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	14	0.02	14	0.01	8	0.11	8	0.03
Weathering removal constant of all vegetation	17	0.01	17	0.00	14	0.04	14	0.01
Wet foliar interception fraction of leafy vegetables	2	0.11	2	0.07	5	0.14	5	0.03
Humidity in air	12	0.03	12	0.02	16	-0.03	16	-0.01
Kd of Pu-240 in Contaminated Zone	9	-0.05	9	-0.03	6	-0.13	6	-0.03
Kd of Pu-240 in Unsaturated Zone 1	11	-0.04	11	-0.02	12	-0.06	12	-0.01
Kd of Pu-240 in Saturated Zone	10	-0.04	10	-0.02	3	-0.20	3	-0.05

R-SQUARE	0.64	0.64	0.94	0.94
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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.

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-240.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	10	-0.04	10	-0.02	6	-0.12	6	-0.03
Contaminated zone b parameter	16	0.01	16	0.01	17	-0.01	17	0.00
Evapotranspiration coefficient	2	-0.10	2	-0.06	7	-0.10	7	-0.02
Wind Speed	15	0.01	15	0.01	5	-0.13	5	-0.03
Runoff coefficient	3	-0.07	3	-0.05	9	-0.09	9	-0.02
Well pump intake depth	8	-0.05	8	-0.03	10	-0.09	10	-0.02
b Parameter of Unsaturated zone 1	13	0.03	13	0.02	18	0.01	18	0.00
Mass loading for inhalation	7	0.05	7	0.03	3	0.18	3	0.04
Indoor dust filtration factor	14	0.01	14	0.01	4	0.15	4	0.03
Depth of soil mixing layer	4	0.07	4	0.04	15	0.03	15	0.01
Depth of roots	1	-0.78	1	-0.78	1	-0.98	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	5	-0.06	5	-0.04	13	-0.05	13	-0.01
Weathering removal constant of all vegetation	6	-0.06	6	-0.04	12	-0.07	12	-0.01
Wet foliar interception fraction of leafy vegetables	18	0.01	18	0.00	14	0.04	14	0.01
Humidity in air	12	-0.03	12	-0.02	8	-0.10	8	-0.02
Kd of Pu-240 in Contaminated Zone	17	-0.01	17	-0.01	11	-0.09	11	-0.02
Kd of Pu-240 in Unsaturated Zone 1	11	-0.03	11	-0.02	16	0.02	16	0.00
Kd of Pu-240 in Saturated Zone	9	-0.05	9	-0.03	2	-0.19	2	-0.04
R-SQUARE	0.61		0.61		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.