

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

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Probabilistic Total Dose Summary

Nuclide (j)	Peak Time	Peak Dose	DOSE(j,t), mrem/yr								
			t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03	
Pu-238											
Min	0.00E+00	2.60E-01	2.60E-01	2.46E-01	1.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	8.76E-01	8.76E-01	8.69E-01	8.56E-01	8.09E-01	6.91E-01	3.96E-01	2.14E-01	1.35E-03	
Avg	0.00E+00	5.08E-01	5.08E-01	5.02E-01	4.91E-01	4.55E-01	3.74E-01	1.92E-01	2.68E-02	7.04E-05	
Std	0.00E+00	2.12E-01	2.12E-01	2.11E-01	2.08E-01	2.03E-01	1.77E-01	1.03E-01	2.41E-02	1.24E-04	
ALL											
Min	0.00E+00	2.60E-01	2.60E-01	2.46E-01	1.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Max	0.00E+00	8.76E-01	8.76E-01	8.69E-01	8.56E-01	8.09E-01	6.91E-01	3.96E-01	2.14E-01	1.35E-03	
Avg	0.00E+00	5.08E-01	5.08E-01	5.02E-01	4.91E-01	4.55E-01	3.74E-01	1.92E-01	2.68E-02	7.04E-05	
Std	0.00E+00	2.12E-01	2.12E-01	2.11E-01	2.08E-01	2.03E-01	1.77E-01	1.03E-01	2.41E-02	1.24E-04	

ALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide	RISK(j,t)							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	4.18E-07	4.13E-07	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.47E-06	1.46E-06	1.44E-06	1.36E-06	1.16E-06	6.67E-07	2.68E-07	2.21E-09
Avg	8.23E-07	8.14E-07	7.96E-07	7.38E-07	6.06E-07	3.11E-07	4.32E-08	2.20E-10
Std	3.38E-07	3.35E-07	3.31E-07	3.23E-07	2.82E-07	1.64E-07	3.77E-08	3.18E-10
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ALL								
Min	4.18E-07	4.13E-07	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.47E-06	1.46E-06	1.44E-06	1.36E-06	1.16E-06	6.67E-07	2.68E-07	2.21E-09
Avg	8.23E-07	8.14E-07	7.96E-07	7.38E-07	6.06E-07	3.11E-07	4.32E-08	2.20E-10
Std	3.38E-07	3.35E-07	3.31E-07	3.23E-07	2.82E-07	1.64E-07	3.77E-08	3.18E-10
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ALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Ground External

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-238								
Min	7.09E-05	6.67E-05	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.28E-05	7.23E-05	7.11E-05	6.73E-05	5.75E-05	3.31E-05	7.02E-06	2.60E-06
Avg	7.28E-05	7.22E-05	7.11E-05	6.64E-05	5.56E-05	3.09E-05	5.21E-06	7.21E-07
Std	5.43E-08	1.59E-07	3.49E-07	6.74E-06	8.90E-06	6.73E-06	2.71E-06	1.01E-06
ALL								
Min	7.09E-05	6.67E-05	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.28E-05	7.23E-05	7.11E-05	6.73E-05	5.75E-05	3.31E-05	7.02E-06	2.60E-06
Avg	7.28E-05	7.22E-05	7.11E-05	6.64E-05	5.56E-05	3.09E-05	5.21E-06	7.21E-07
Std	5.43E-08	1.59E-07	3.49E-07	6.74E-06	8.90E-06	6.73E-06	2.71E-06	1.01E-06

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Inhalation (w/o Radon)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-238								
Min	1.49E-05	1.48E-05	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.30E-02	3.27E-02	3.22E-02	3.05E-02	2.60E-02	1.49E-02	3.05E-03	1.49E-05
Avg	5.32E-03	5.28E-03	5.19E-03	4.84E-03	4.05E-03	2.25E-03	3.46E-04	6.70E-07
Std	3.23E-03	3.20E-03	3.15E-03	3.00E-03	2.58E-03	1.49E-03	3.19E-04	1.28E-06
ALL								
Min	1.49E-05	1.48E-05	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.30E-02	3.27E-02	3.22E-02	3.05E-02	2.60E-02	1.49E-02	3.05E-03	1.49E-05
Avg	5.32E-03	5.28E-03	5.19E-03	4.84E-03	4.05E-03	2.25E-03	3.46E-04	6.70E-07
Std	3.23E-03	3.20E-03	3.15E-03	3.00E-03	2.58E-03	1.49E-03	3.19E-04	1.28E-06

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Radon (Water Ind.)

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Plant (Water Ind.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	1.95E-01	1.79E-01	1.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.82E-01	7.75E-01	7.63E-01	7.21E-01	6.16E-01	3.54E-01	7.29E-02	3.28E-04
Avg	4.39E-01	4.34E-01	4.24E-01	3.93E-01	3.22E-01	1.62E-01	2.09E-02	3.63E-05
Std	2.12E-01	2.10E-01	2.08E-01	2.01E-01	1.74E-01	9.99E-02	2.06E-02	7.21E-05
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ALL								
Min	1.95E-01	1.79E-01	1.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.82E-01	7.75E-01	7.63E-01	7.21E-01	6.16E-01	3.54E-01	7.29E-02	3.28E-04
Avg	4.39E-01	4.34E-01	4.24E-01	3.93E-01	3.22E-01	1.62E-01	2.09E-02	3.63E-05
Std	2.12E-01	2.10E-01	2.08E-01	2.01E-01	1.74E-01	9.99E-02	2.06E-02	7.21E-05
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Probabilistic Dose vs Pathway(i): Meat (Water Ind.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	1.68E-02	1.63E-02	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.77E-02	1.76E-02	1.73E-02	1.64E-02	1.40E-02	8.05E-03	1.66E-03	8.62E-06
Avg	1.72E-02	1.71E-02	1.68E-02	1.57E-02	1.31E-02	7.25E-03	1.11E-03	2.05E-06
Std	3.19E-04	3.18E-04	3.24E-04	1.72E-03	2.17E-03	1.59E-03	6.35E-04	3.11E-06
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ALL								
Min	1.68E-02	1.63E-02	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.77E-02	1.76E-02	1.73E-02	1.64E-02	1.40E-02	8.05E-03	1.66E-03	8.62E-06
Avg	1.72E-02	1.71E-02	1.68E-02	1.57E-02	1.31E-02	7.25E-03	1.11E-03	2.05E-06
Std	3.19E-04	3.18E-04	3.24E-04	1.72E-03	2.17E-03	1.59E-03	6.35E-04	3.11E-06
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Probabilistic Dose vs Pathway(i): Milk (Water Ind.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-238								
Min	7.52E-04	7.43E-04	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.44E-04	8.37E-04	8.24E-04	7.81E-04	6.68E-04	3.89E-04	8.97E-05	1.29E-05
Avg	7.90E-04	7.84E-04	7.71E-04	7.19E-04	6.02E-04	3.36E-04	5.71E-05	2.63E-06
Std	3.25E-05	3.23E-05	3.22E-05	8.35E-05	1.03E-04	7.49E-05	3.27E-05	3.97E-06
ALL								
Min	7.52E-04	7.43E-04	6.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.44E-04	8.37E-04	8.24E-04	7.81E-04	6.68E-04	3.89E-04	8.97E-05	1.29E-05
Avg	7.90E-04	7.84E-04	7.71E-04	7.19E-04	6.02E-04	3.36E-04	5.71E-05	2.63E-06
Std	3.25E-05	3.23E-05	3.22E-05	8.35E-05	1.03E-04	7.49E-05	3.27E-05	3.97E-06

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-238								
Min	4.43E-02	4.17E-02	3.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.55E-02	4.51E-02	4.44E-02	4.20E-02	3.59E-02	2.06E-02	4.25E-03	1.84E-05
Avg	4.55E-02	4.51E-02	4.44E-02	4.14E-02	3.47E-02	1.93E-02	2.97E-03	4.59E-06
Std	3.39E-05	9.90E-05	2.33E-04	4.47E-03	5.71E-03	4.20E-03	1.69E-03	7.00E-06
ALL								
Min	4.43E-02	4.17E-02	3.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.55E-02	4.51E-02	4.44E-02	4.20E-02	3.59E-02	2.06E-02	4.25E-03	1.84E-05
Avg	4.55E-02	4.51E-02	4.44E-02	4.14E-02	3.47E-02	1.93E-02	2.97E-03	4.59E-06
Std	3.39E-05	9.90E-05	2.33E-04	4.47E-03	5.71E-03	4.20E-03	1.69E-03	7.00E-06

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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	1.12E-05	9.81E-04	2.55E-02	1.26E-01	2.02E-01	1.20E-03
Avg	0.00E+00	0.00E+00	1.24E-08	2.38E-06	6.05E-05	7.19E-04	1.28E-03	2.11E-05
Std	0.00E+00	0.00E+00	3.47E-07	3.79E-05	7.86E-04	5.35E-03	8.75E-03	7.55E-05
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	1.12E-05	9.81E-04	2.55E-02	1.26E-01	2.02E-01	1.20E-03
Avg	0.00E+00	0.00E+00	1.24E-08	2.38E-06	6.05E-05	7.19E-04	1.28E-03	2.11E-05
Std	0.00E+00	0.00E+00	3.47E-07	3.79E-05	7.86E-04	5.35E-03	8.75E-03	7.55E-05
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ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Radon (Water Dep.)

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Probabilistic Dose vs Pathway(i): Plant (Water Dep.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	7.28E-07	1.07E-04	1.59E-03	3.90E-02	3.68E-02	2.56E-04
Avg	0.00E+00	0.00E+00	6.26E-10	1.66E-07	4.69E-06	8.39E-05	1.38E-04	2.12E-06
Std	0.00E+00	0.00E+00	1.96E-08	3.11E-06	5.87E-05	1.10E-03	1.25E-03	1.13E-05
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	7.28E-07	1.07E-04	1.59E-03	3.90E-02	3.68E-02	2.56E-04
Avg	0.00E+00	0.00E+00	6.26E-10	1.66E-07	4.69E-06	8.39E-05	1.38E-04	2.12E-06
Std	0.00E+00	0.00E+00	1.96E-08	3.11E-06	5.87E-05	1.10E-03	1.25E-03	1.13E-05
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Probabilistic Dose vs Pathway(i): Meat (Water Dep.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	8.85E-09	1.21E-06	3.17E-05	2.09E-04	2.21E-04	1.74E-06
Avg	0.00E+00	0.00E+00	1.12E-11	2.66E-09	7.35E-08	9.25E-07	1.62E-06	3.85E-08
Std	0.00E+00	0.00E+00	3.07E-10	4.28E-08	9.83E-07	7.65E-06	1.11E-05	1.09E-07
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	8.85E-09	1.21E-06	3.17E-05	2.09E-04	2.21E-04	1.74E-06
Avg	0.00E+00	0.00E+00	1.12E-11	2.66E-09	7.35E-08	9.25E-07	1.62E-06	3.85E-08
Std	0.00E+00	0.00E+00	3.07E-10	4.28E-08	9.83E-07	7.65E-06	1.11E-05	1.09E-07

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Probabilistic Dose vs Pathway(i): Milk (Water Dep.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-238								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	6.43E-10	8.55E-08	2.24E-06	1.63E-05	1.56E-05	3.00E-06
Avg	0.00E+00	0.00E+00	8.34E-13	1.82E-10	5.14E-09	6.87E-08	1.68E-07	1.66E-07
Std	0.00E+00	0.00E+00	2.28E-11	2.93E-09	6.97E-08	5.74E-07	8.19E-07	2.69E-07
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	6.43E-10	8.55E-08	2.24E-06	1.63E-05	1.56E-05	3.00E-06
Avg	0.00E+00	0.00E+00	8.34E-13	1.82E-10	5.14E-09	6.87E-08	1.68E-07	1.66E-07
Std	0.00E+00	0.00E+00	2.28E-11	2.93E-09	6.97E-08	5.74E-07	8.19E-07	2.69E-07
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose(t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	2.69E-01	2.66E-01	2.59E-01	2.34E-01	1.27E-02	5.01E-15	3.55E-15	6.80E-14
0.050	2.73E-01	2.70E-01	2.63E-01	2.44E-01	1.94E-01	7.41E-02	8.66E-08	7.91E-08
0.075	2.79E-01	2.76E-01	2.69E-01	2.49E-01	2.04E-01	9.00E-02	3.64E-07	2.21E-07
0.100	2.84E-01	2.81E-01	2.74E-01	2.53E-01	2.07E-01	9.51E-02	1.15E-06	3.32E-07
0.125	2.90E-01	2.87E-01	2.78E-01	2.58E-01	2.11E-01	1.02E-01	7.49E-06	5.19E-07
0.150	2.95E-01	2.91E-01	2.84E-01	2.64E-01	2.16E-01	1.07E-01	8.42E-05	7.01E-07
0.175	3.01E-01	2.98E-01	2.91E-01	2.70E-01	2.22E-01	1.10E-01	6.47E-04	8.34E-07
0.200	3.08E-01	3.03E-01	2.97E-01	2.75E-01	2.26E-01	1.14E-01	2.29E-03	1.01E-06
0.225	3.14E-01	3.10E-01	3.02E-01	2.81E-01	2.31E-01	1.17E-01	5.19E-03	1.24E-06
0.250	3.21E-01	3.18E-01	3.09E-01	2.88E-01	2.35E-01	1.20E-01	8.72E-03	1.57E-06
0.275	3.29E-01	3.25E-01	3.17E-01	2.95E-01	2.40E-01	1.23E-01	1.07E-02	1.88E-06
0.300	3.37E-01	3.34E-01	3.26E-01	3.02E-01	2.47E-01	1.26E-01	1.26E-02	2.17E-06
0.325	3.47E-01	3.42E-01	3.33E-01	3.10E-01	2.54E-01	1.30E-01	1.44E-02	2.61E-06
0.350	3.57E-01	3.52E-01	3.43E-01	3.18E-01	2.60E-01	1.33E-01	1.56E-02	3.08E-06
0.375	3.65E-01	3.61E-01	3.52E-01	3.27E-01	2.66E-01	1.37E-01	1.68E-02	3.74E-06
0.400	3.77E-01	3.72E-01	3.63E-01	3.36E-01	2.77E-01	1.41E-01	1.80E-02	4.37E-06
0.425	3.90E-01	3.85E-01	3.74E-01	3.47E-01	2.85E-01	1.44E-01	1.92E-02	5.44E-06
0.450	4.02E-01	3.98E-01	3.87E-01	3.59E-01	2.95E-01	1.48E-01	2.04E-02	6.59E-06
0.475	4.16E-01	4.10E-01	3.99E-01	3.71E-01	3.03E-01	1.53E-01	2.15E-02	8.11E-06
0.500	4.30E-01	4.23E-01	4.13E-01	3.83E-01	3.15E-01	1.58E-01	2.26E-02	9.69E-06
0.525	4.46E-01	4.39E-01	4.29E-01	3.97E-01	3.26E-01	1.65E-01	2.36E-02	1.15E-05
0.550	4.64E-01	4.57E-01	4.48E-01	4.19E-01	3.39E-01	1.71E-01	2.48E-02	1.59E-05
0.575	4.85E-01	4.79E-01	4.68E-01	4.37E-01	3.57E-01	1.77E-01	2.59E-02	2.09E-05
0.600	5.06E-01	5.00E-01	4.89E-01	4.56E-01	3.74E-01	1.87E-01	2.73E-02	2.65E-05
0.625	5.29E-01	5.23E-01	5.14E-01	4.75E-01	3.89E-01	1.96E-01	2.87E-02	3.24E-05
0.650	5.56E-01	5.50E-01	5.40E-01	5.04E-01	4.12E-01	2.07E-01	3.00E-02	4.44E-05
0.675	5.86E-01	5.78E-01	5.67E-01	5.29E-01	4.35E-01	2.17E-01	3.14E-02	5.66E-05
0.700	6.21E-01	6.14E-01	5.99E-01	5.58E-01	4.60E-01	2.29E-01	3.33E-02	6.92E-05
0.725	6.59E-01	6.52E-01	6.39E-01	5.92E-01	4.85E-01	2.41E-01	3.47E-02	8.81E-05
0.750	7.08E-01	7.01E-01	6.87E-01	6.27E-01	5.09E-01	2.55E-01	3.69E-02	1.08E-04
0.775	7.58E-01	7.52E-01	7.30E-01	6.81E-01	5.53E-01	2.72E-01	3.96E-02	1.26E-04
0.800	8.18E-01	8.07E-01	7.89E-01	7.36E-01	5.98E-01	2.91E-01	4.28E-02	1.38E-04
0.825	8.45E-01	8.38E-01	8.24E-01	7.74E-01	6.39E-01	3.22E-01	4.74E-02	1.50E-04
0.850	8.46E-01	8.39E-01	8.25E-01	7.79E-01	6.60E-01	3.48E-01	5.25E-02	1.69E-04
0.875	8.47E-01	8.40E-01	8.26E-01	7.81E-01	6.63E-01	3.68E-01	5.70E-02	1.89E-04
0.900	8.48E-01	8.41E-01	8.27E-01	7.82E-01	6.66E-01	3.77E-01	6.57E-02	2.24E-04
0.925	8.49E-01	8.42E-01	8.28E-01	7.83E-01	6.67E-01	3.80E-01	7.22E-02	2.56E-04
0.950	8.50E-01	8.43E-01	8.30E-01	7.84E-01	6.68E-01	3.83E-01	7.67E-02	3.09E-04
0.975	8.52E-01	8.45E-01	8.32E-01	7.86E-01	6.70E-01	3.84E-01	7.89E-02	3.62E-04
1.000	8.76E-01	8.69E-01	8.56E-01	8.09E-01	6.91E-01	3.96E-01	2.14E-01	1.35E-03

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Summary of dose at graphical times, reptition 1

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.61E-01	8.58E-01	5.08E-01	4.28E-01	8.47E-01	8.49E-01	8.51E-01	8.54E-01
1.00E+00	2.58E-01	8.52E-01	5.02E-01	4.21E-01	8.40E-01	8.43E-01	8.44E-01	8.47E-01
1.06E+00	2.58E-01	8.51E-01	5.02E-01	4.21E-01	8.40E-01	8.42E-01	8.44E-01	8.47E-01
1.12E+00	2.58E-01	8.51E-01	5.02E-01	4.21E-01	8.40E-01	8.42E-01	8.43E-01	8.46E-01
1.19E+00	2.58E-01	8.50E-01	5.01E-01	4.20E-01	8.39E-01	8.41E-01	8.43E-01	8.46E-01
1.25E+00	2.58E-01	8.50E-01	5.01E-01	4.20E-01	8.39E-01	8.41E-01	8.42E-01	8.45E-01
1.33E+00	2.57E-01	8.49E-01	5.01E-01	4.20E-01	8.38E-01	8.40E-01	8.42E-01	8.45E-01
1.40E+00	2.57E-01	8.49E-01	5.00E-01	4.20E-01	8.38E-01	8.40E-01	8.41E-01	8.44E-01
1.49E+00	2.57E-01	8.48E-01	5.00E-01	4.19E-01	8.37E-01	8.39E-01	8.41E-01	8.44E-01
1.57E+00	2.57E-01	8.48E-01	4.99E-01	4.19E-01	8.37E-01	8.39E-01	8.40E-01	8.43E-01
1.66E+00	2.57E-01	8.47E-01	4.99E-01	4.18E-01	8.36E-01	8.38E-01	8.40E-01	8.43E-01
1.76E+00	2.56E-01	8.46E-01	4.98E-01	4.18E-01	8.35E-01	8.38E-01	8.39E-01	8.42E-01
1.86E+00	2.56E-01	8.46E-01	4.98E-01	4.17E-01	8.35E-01	8.37E-01	8.38E-01	8.41E-01
1.97E+00	2.56E-01	8.45E-01	4.97E-01	4.17E-01	8.34E-01	8.36E-01	8.38E-01	8.41E-01
2.09E+00	2.55E-01	8.44E-01	4.97E-01	4.16E-01	8.33E-01	8.35E-01	8.37E-01	8.40E-01
2.21E+00	2.52E-01	8.43E-01	4.96E-01	4.16E-01	8.32E-01	8.35E-01	8.36E-01	8.39E-01
2.24E+00	2.49E-01	8.43E-01	4.95E-01	4.15E-01	8.31E-01	8.34E-01	8.35E-01	8.38E-01
2.27E+00	2.45E-01	8.42E-01	4.95E-01	4.14E-01	8.31E-01	8.33E-01	8.34E-01	8.37E-01
2.62E+00	2.39E-01	8.41E-01	4.94E-01	4.14E-01	8.30E-01	8.32E-01	8.33E-01	8.36E-01
2.77E+00	2.28E-01	8.40E-01	4.93E-01	4.13E-01	8.29E-01	8.31E-01	8.32E-01	8.35E-01
2.93E+00	2.17E-01	8.39E-01	4.92E-01	4.12E-01	8.27E-01	8.30E-01	8.31E-01	8.34E-01
3.00E+00	2.12E-01	8.38E-01	4.92E-01	4.12E-01	8.27E-01	8.29E-01	8.31E-01	8.34E-01
3.310E+00	2.05E-01	8.37E-01	4.91E-01	4.12E-01	8.26E-01	8.29E-01	8.30E-01	8.33E-01
3.328E+00	1.93E-01	8.36E-01	4.90E-01	4.11E-01	8.25E-01	8.27E-01	8.29E-01	8.32E-01
3.48E+00	1.79E-01	8.35E-01	4.89E-01	4.10E-01	8.24E-01	8.26E-01	8.28E-01	8.31E-01
3.68E+00	1.64E-01	8.34E-01	4.88E-01	4.09E-01	8.22E-01	8.25E-01	8.26E-01	8.29E-01
3.89E+00	1.45E-01	8.32E-01	4.87E-01	4.09E-01	8.21E-01	8.23E-01	8.25E-01	8.28E-01
4.12E+00	1.23E-01	8.31E-01	4.86E-01	4.08E-01	8.20E-01	8.22E-01	8.23E-01	8.26E-01
4.36E+00	9.69E-02	8.29E-01	4.85E-01	4.07E-01	8.18E-01	8.20E-01	8.22E-01	8.25E-01
4.61E+00	6.78E-02	8.27E-01	4.83E-01	4.06E-01	8.16E-01	8.19E-01	8.20E-01	8.23E-01
4.88E+00	3.88E-02	8.26E-01	4.82E-01	4.05E-01	8.15E-01	8.17E-01	8.18E-01	8.21E-01
5.17E+00	1.66E-02	8.24E-01	4.80E-01	4.04E-01	8.13E-01	8.15E-01	8.16E-01	8.19E-01
5.47E+00	3.28E-03	8.22E-01	4.79E-01	4.03E-01	8.11E-01	8.13E-01	8.14E-01	8.17E-01
5.578E+00	1.26E-06	8.20E-01	4.77E-01	4.02E-01	8.09E-01	8.11E-01	8.12E-01	8.15E-01
6.12E+00	0.00E+00	8.18E-01	4.75E-01	4.00E-01	8.06E-01	8.09E-01	8.10E-01	8.13E-01
6.48E+00	0.00E+00	8.15E-01	4.73E-01	3.99E-01	8.04E-01	8.06E-01	8.08E-01	8.11E-01
6.86E+00	0.00E+00	8.13E-01	4.72E-01	3.98E-01	8.02E-01	8.04E-01	8.05E-01	8.08E-01
7.26E+00	0.00E+00	8.10E-01	4.70E-01	3.96E-01	7.99E-01	8.01E-01	8.03E-01	8.06E-01
7.68E+00	0.00E+00	8.08E-01	4.68E-01	3.94E-01	7.96E-01	7.99E-01	8.00E-01	8.03E-01
8.13E+00	0.00E+00	8.05E-01	4.65E-01	3.92E-01	7.94E-01	7.96E-01	7.97E-01	8.00E-01
8.60E+00	0.00E+00	8.02E-01	4.63E-01	3.90E-01	7.91E-01	7.93E-01	7.94E-01	7.97E-01
9.10E+00	0.00E+00	7.98E-01	4.61E-01	3.88E-01	7.87E-01	7.90E-01	7.91E-01	7.94E-01
9.63E+00	0.00E+00	7.95E-01	4.58E-01	3.85E-01	7.84E-01	7.86E-01	7.88E-01	7.91E-01
1.00E+01	0.00E+00	7.93E-01	4.56E-01	3.84E-01	7.82E-01	7.84E-01	7.85E-01	7.88E-01
1.02E+01	0.00E+00	7.92E-01	4.55E-01	3.83E-01	7.81E-01	7.83E-01	7.84E-01	7.87E-01
1.08E+01	0.00E+00	7.88E-01	4.53E-01	3.80E-01	7.77E-01	7.79E-01	7.80E-01	7.83E-01
1.14E+01	0.00E+00	7.84E-01	4.50E-01	3.78E-01	7.73E-01	7.75E-01	7.77E-01	7.79E-01
1.21E+01	0.00E+00	7.80E-01	4.47E-01	3.75E-01	7.69E-01	7.71E-01	7.72E-01	7.75E-01
1.28E+01	0.00E+00	7.75E-01	4.44E-01	3.72E-01	7.65E-01	7.67E-01	7.68E-01	7.70E-01
1.35E+01	0.00E+00	7.71E-01	4.40E-01	3.69E-01	7.60E-01	7.62E-01	7.64E-01	7.66E-01
1.43E+01	0.00E+00	7.66E-01	4.37E-01	3.65E-01	7.55E-01	7.58E-01	7.59E-01	7.61E-01
1.51E+01	0.00E+00	7.61E-01	4.33E-01	3.62E-01	7.50E-01	7.53E-01	7.54E-01	7.56E-01
1.60E+01	0.00E+00	7.56E-01	4.29E-01	3.59E-01	7.45E-01	7.47E-01	7.49E-01	7.50E-01
1.70E+01	0.00E+00	7.50E-01	4.25E-01	3.56E-01	7.39E-01	7.42E-01	7.43E-01	7.45E-01
1.80E+01	0.00E+00	7.44E-01	4.21E-01	3.52E-01	7.33E-01	7.36E-01	7.37E-01	7.39E-01
1.90E+01	0.00E+00	7.38E-01	4.17E-01	3.48E-01	7.27E-01	7.30E-01	7.31E-01	7.33E-01

2.01E+01 0.00E+00 7.32E-01 4.13E-01 3.44E-01 7.21E-01 7.23E-01 7.24E-01 7.26E-01

2.13E+01 0.00E+00 7.25E-01 4.08E-01 3.39E-01 7.14E-01 7.16E-01 7.18E-01 7.20E-01

2.25E+01 0.00E+00 7.18E-01 4.03E-01 3.36E-01 7.07E-01 7.09E-01 7.11E-01 7.13E-01

2.38E+01 0.00E+00 7.10E-01 3.98E-01 3.31E-01 7.00E-01 7.02E-01 7.03E-01 7.05E-01

2.52E+01 0.00E+00 7.03E-01 3.93E-01 3.27E-01 6.92E-01 6.94E-01 6.96E-01 6.97E-01

2.67E+01 0.00E+00 6.94E-01 3.88E-01 3.23E-01 6.84E-01 6.86E-01 6.88E-01 6.89E-01

2.82E+01 0.00E+00 6.86E-01 3.82E-01 3.18E-01 6.75E-01 6.78E-01 6.79E-01 6.80E-01

2.99E+01 0.00E+00 6.77E-01 3.76E-01 3.13E-01 6.67E-01 6.69E-01 6.70E-01 6.72E-01

3.00E+01 0.00E+00 6.76E-01 3.75E-01 3.13E-01 6.66E-01 6.68E-01 6.70E-01 6.71E-01

3.16E+01 0.00E+00 6.68E-01 3.70E-01 3.09E-01 6.57E-01 6.60E-01 6.61E-01 6.62E-01

3.35E+01 0.00E+00 6.58E-01 3.63E-01 3.03E-01 6.48E-01 6.50E-01 6.52E-01 6.53E-01

3.54E+01 0.00E+00 6.48E-01 3.56E-01 2.97E-01 6.38E-01 6.40E-01 6.42E-01 6.43E-01

3.75E+01 0.00E+00 6.37E-01 3.49E-01 2.91E-01 6.27E-01 6.30E-01 6.31E-01 6.33E-01

3.97E+01 0.00E+00 6.26E-01 3.42E-01 2.86E-01 6.16E-01 6.19E-01 6.20E-01 6.22E-01

4.20E+01 0.00E+00 6.15E-01 3.34E-01 2.79E-01 6.05E-01 6.08E-01 6.09E-01 6.10E-01

4.44E+01 0.00E+00 6.03E-01 3.27E-01 2.73E-01 5.93E-01 5.96E-01 5.97E-01 5.99E-01

4.70E+01 0.00E+00 5.91E-01 3.18E-01 2.67E-01 5.81E-01 5.84E-01 5.85E-01 5.87E-01

4.97E+01 0.00E+00 5.78E-01 3.10E-01 2.61E-01 5.68E-01 5.71E-01 5.72E-01 5.74E-01

5.26E+01 0.00E+00 5.65E-01 3.02E-01 2.52E-01 5.54E-01 5.58E-01 5.59E-01 5.61E-01

5.57E+01 0.00E+00 5.52E-01 2.93E-01 2.46E-01 5.41E-01 5.45E-01 5.46E-01 5.47E-01

5.90E+01 0.00E+00 5.37E-01 2.84E-01 2.39E-01 5.27E-01 5.31E-01 5.32E-01 5.33E-01

6.24E+01 0.00E+00 5.23E-01 2.75E-01 2.31E-01 5.13E-01 5.16E-01 5.18E-01 5.19E-01

60E+01 0.00E+00 5.08E-01 2.65E-01 2.22E-01 4.97E-01 5.01E-01 5.03E-01 5.04E-01

99E+01 0.00E+00 4.93E-01 2.56E-01 2.15E-01 4.82E-01 4.86E-01 4.88E-01 4.89E-01

7.39E+01 0.00E+00 4.77E-01 2.46E-01 2.06E-01 4.67E-01 4.71E-01 4.72E-01 4.74E-01

7.82E+01 0.00E+00 4.61E-01 2.36E-01 1.98E-01 4.51E-01 4.55E-01 4.57E-01 4.58E-01

8.28E+01 0.00E+00 4.45E-01 2.26E-01 1.89E-01 4.34E-01 4.39E-01 4.40E-01 4.42E-01

8.76E+01 0.00E+00 4.28E-01 2.16E-01 1.78E-01 4.18E-01 4.23E-01 4.24E-01 4.25E-01

9.27E+01 0.00E+00 4.11E-01 2.05E-01 1.70E-01 4.01E-01 4.06E-01 4.07E-01 4.08E-01

9.81E+01 0.00E+00 3.94E-01 1.95E-01 1.60E-01 3.83E-01 3.89E-01 3.90E-01 3.91E-01

1.00E+02 0.00E+00 3.89E-01 1.91E-01 1.57E-01 3.77E-01 3.83E-01 3.84E-01 3.85E-01

1.04E+02 0.00E+00 3.76E-01 1.85E-01 1.51E-01 3.64E-01 3.71E-01 3.73E-01 3.73E-01

1.10E+02 0.00E+00 3.59E-01 1.74E-01 1.42E-01 3.45E-01 3.54E-01 3.55E-01 3.56E-01

1.16E+02 0.00E+00 3.41E-01 1.64E-01 1.33E-01 3.28E-01 3.37E-01 3.38E-01 3.38E-01

1.23E+02 0.00E+00 3.23E-01 1.53E-01 1.25E-01 3.08E-01 3.19E-01 3.20E-01 3.21E-01

1.30E+02 0.00E+00 3.05E-01 1.43E-01 1.18E-01 2.90E-01 3.00E-01 3.02E-01 3.03E-01

1.38E+02 0.00E+00 2.87E-01 1.33E-01 1.09E-01 2.71E-01 2.82E-01 2.85E-01 2.85E-01

1.46E+02 0.00E+00 2.69E-01 1.23E-01 1.01E-01 2.51E-01 2.65E-01 2.67E-01 2.68E-01

1.54E+02 0.00E+00 2.51E-01 1.13E-01 9.35E-02 2.33E-01 2.47E-01 2.50E-01 2.50E-01

1.63E+02 0.00E+00 2.34E-01 1.04E-01 8.60E-02 2.16E-01 2.30E-01 2.33E-01 2.33E-01

1.73E+02 0.00E+00 2.39E-01 9.43E-02 7.73E-02 1.98E-01 2.13E-01 2.16E-01 2.16E-01

1.83E+02 0.00E+00 2.44E-01 8.52E-02 6.98E-02 1.81E-01 1.97E-01 1.99E-01 2.00E-01

1.94E+02 0.00E+00 2.45E-01 7.65E-02 6.32E-02 1.66E-01 1.81E-01 1.83E-01 1.84E-01

2.05E+02 0.00E+00 2.42E-01 6.81E-02 5.66E-02 1.49E-01 1.65E-01 1.67E-01 1.68E-01

2.17E+02 0.00E+00 2.37E-01 6.02E-02 5.08E-02 1.34E-01 1.49E-01 1.52E-01 1.53E-01

2.29E+02 0.00E+00 2.28E-01 5.29E-02 4.50E-02 1.21E-01 1.35E-01 1.38E-01 1.38E-01

2.43E+02 0.00E+00 2.17E-01 4.63E-02 3.98E-02 1.07E-01 1.21E-01 1.24E-01 1.24E-01

2.57E+02 0.00E+00 2.04E-01 4.03E-02 3.48E-02 9.43E-02 1.07E-01 1.11E-01 1.11E-01

2.72E+02 0.00E+00 1.89E-01 3.47E-02 2.98E-02 8.22E-02 9.47E-02 9.85E-02 9.91E-02

2.88E+02 0.00E+00 1.73E-01 2.98E-02 2.54E-02 7.16E-02 8.33E-02 8.67E-02 8.73E-02

3.00E+02 0.00E+00 1.63E-01 2.64E-02 2.26E-02 6.41E-02 7.55E-02 7.87E-02 7.92E-02

3.05E+02 0.00E+00 1.60E-01 2.53E-02 2.17E-02 6.18E-02 7.27E-02 7.58E-02 7.65E-02

3.22E+02 0.00E+00 1.48E-01 2.14E-02 1.83E-02 5.23E-02 6.24E-02 6.59E-02 6.65E-02

3.41E+02 0.00E+00 1.35E-01 1.79E-02 1.52E-02 4.40E-02 5.31E-02 5.67E-02 5.73E-02

3.61E+02 0.00E+00 1.23E-01 1.48E-02 1.23E-02 3.70E-02 4.52E-02 4.84E-02 4.90E-02

3.82E+02 0.00E+00 1.10E-01 1.22E-02 1.01E-02 3.11E-02 3.82E-02 4.10E-02 4.15E-02

4.04E+02 0.00E+00 9.81E-02 9.92E-03 7.94E-03 2.55E-02 3.17E-02 3.42E-02 3.48E-02

4.28E+02 0.00E+00 8.63E-02 8.01E-03 6.19E-03 2.09E-02 2.63E-02 2.87E-02 2.89E-02

4.53E+02 0.00E+00 7.51E-02 6.39E-03 4.79E-03 1.70E-02 2.18E-02 2.36E-02 2.46E-02

4.79E+02 0.00E+00 6.45E-02 5.04E-03 3.62E-03 1.36E-02 1.75E-02 1.91E-02 2.08E-02

5.07E+02 0.00E+00 5.48E-02 3.93E-03 2.65E-03 1.10E-02 1.40E-02 1.54E-02 1.73E-02

5.36E+02 0.00E+00 4.58E-02 3.03E-03 1.84E-03 8.39E-03 1.11E-02 1.22E-02 1.42E-02

5.68E+02 0.00E+00 3.79E-02 2.31E-03 1.21E-03 6.50E-03 8.58E-03 9.54E-03 1.16E-02

0.01E+02 0.00E+00 3.08E-02 1.74E-03 7.97E-04 5.02E-03 6.54E-03 7.34E-03 9.26E-03

6.36E+02 0.00E+00 2.46E-02 1.29E-03 5.30E-04 3.78E-03 4.95E-03 5.57E-03 7.31E-03

6.73E+02 0.00E+00 1.85E-02 9.45E-04 2.55E-04 2.83E-03 3.69E-03 4.17E-03 5.69E-03

7.12E+02 0.00E+00 1.34E-02 6.81E-04 1.58E-04 2.06E-03 2.70E-03 3.07E-03 4.30E-03

7.53E+02 0.00E+00 9.49E-03 4.84E-04 8.89E-05 1.49E-03 1.95E-03 2.24E-03 3.11E-03

7.97E+02 0.00E+00 6.61E-03 3.39E-04 5.10E-05 1.06E-03 1.38E-03 1.60E-03 2.21E-03

8.44E+02 0.00E+00 4.51E-03 2.34E-04 3.24E-05 7.44E-04 9.68E-04 1.12E-03 1.54E-03

93E+02 0.00E+00 3.02E-03 1.60E-04 2.07E-05 5.21E-04 6.78E-04 7.79E-04 1.06E-03

9.45E+02 0.00E+00 2.02E-03 1.09E-04 1.44E-05 3.61E-04 4.66E-04 5.38E-04 7.16E-04

1.00E+03 0.00E+00 1.35E-03 7.41E-05 9.77E-06 2.49E-04 3.20E-04 3.68E-04 4.77E-04

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Summary of dose at graphical times, reptition 2

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.62E-01	8.76E-01	5.08E-01	4.30E-01	8.48E-01	8.50E-01	8.52E-01	8.54E-01
1.00E+00	2.60E-01	8.69E-01	5.02E-01	4.23E-01	8.41E-01	8.43E-01	8.45E-01	8.47E-01
1.06E+00	2.59E-01	8.69E-01	5.02E-01	4.23E-01	8.40E-01	8.43E-01	8.45E-01	8.46E-01
1.12E+00	2.59E-01	8.68E-01	5.02E-01	4.22E-01	8.40E-01	8.43E-01	8.44E-01	8.46E-01
1.19E+00	2.59E-01	8.68E-01	5.01E-01	4.22E-01	8.40E-01	8.42E-01	8.44E-01	8.46E-01
1.25E+00	2.59E-01	8.67E-01	5.01E-01	4.22E-01	8.39E-01	8.42E-01	8.43E-01	8.45E-01
1.33E+00	2.58E-01	8.67E-01	5.00E-01	4.21E-01	8.39E-01	8.41E-01	8.43E-01	8.45E-01
1.40E+00	2.58E-01	8.66E-01	5.00E-01	4.21E-01	8.38E-01	8.41E-01	8.42E-01	8.44E-01
1.49E+00	2.58E-01	8.66E-01	5.00E-01	4.21E-01	8.38E-01	8.40E-01	8.42E-01	8.43E-01
1.57E+00	2.57E-01	8.65E-01	4.99E-01	4.20E-01	8.37E-01	8.39E-01	8.41E-01	8.43E-01
1.66E+00	2.57E-01	8.65E-01	4.99E-01	4.20E-01	8.36E-01	8.39E-01	8.40E-01	8.42E-01
1.76E+00	2.53E-01	8.64E-01	4.98E-01	4.20E-01	8.36E-01	8.38E-01	8.40E-01	8.42E-01
1.86E+00	2.47E-01	8.63E-01	4.97E-01	4.19E-01	8.35E-01	8.37E-01	8.39E-01	8.41E-01
1.97E+00	2.40E-01	8.63E-01	4.97E-01	4.19E-01	8.34E-01	8.37E-01	8.38E-01	8.40E-01
2.09E+00	2.33E-01	8.62E-01	4.96E-01	4.18E-01	8.33E-01	8.36E-01	8.38E-01	8.39E-01
2.21E+00	2.25E-01	8.61E-01	4.95E-01	4.18E-01	8.33E-01	8.35E-01	8.37E-01	8.39E-01
2.24E+00	2.17E-01	8.60E-01	4.95E-01	4.17E-01	8.32E-01	8.34E-01	8.36E-01	8.38E-01
2.27E+00	2.09E-01	8.59E-01	4.94E-01	4.16E-01	8.31E-01	8.33E-01	8.35E-01	8.37E-01
2.26E+00	2.00E-01	8.58E-01	4.93E-01	4.16E-01	8.30E-01	8.32E-01	8.34E-01	8.36E-01
2.27E+00	1.89E-01	8.57E-01	4.92E-01	4.15E-01	8.29E-01	8.31E-01	8.33E-01	8.35E-01
2.29E+00	1.77E-01	8.56E-01	4.91E-01	4.14E-01	8.28E-01	8.30E-01	8.32E-01	8.34E-01
3.00E+00	1.72E-01	8.56E-01	4.91E-01	4.14E-01	8.27E-01	8.30E-01	8.32E-01	8.33E-01
3.310E+00	1.64E-01	8.55E-01	4.90E-01	4.14E-01	8.27E-01	8.29E-01	8.31E-01	8.33E-01
3.328E+00	1.48E-01	8.54E-01	4.89E-01	4.13E-01	8.25E-01	8.28E-01	8.30E-01	8.31E-01
3.48E+00	1.30E-01	8.52E-01	4.88E-01	4.12E-01	8.24E-01	8.27E-01	8.28E-01	8.30E-01
3.68E+00	1.11E-01	8.51E-01	4.87E-01	4.11E-01	8.23E-01	8.25E-01	8.27E-01	8.29E-01
3.89E+00	8.99E-02	8.50E-01	4.86E-01	4.10E-01	8.21E-01	8.24E-01	8.25E-01	8.27E-01
4.12E+00	6.80E-02	8.48E-01	4.85E-01	4.07E-01	8.20E-01	8.22E-01	8.24E-01	8.26E-01
4.36E+00	4.49E-02	8.46E-01	4.83E-01	4.06E-01	8.18E-01	8.21E-01	8.22E-01	8.24E-01
4.61E+00	2.44E-02	8.45E-01	4.82E-01	4.05E-01	8.17E-01	8.19E-01	8.21E-01	8.22E-01
4.88E+00	9.51E-03	8.43E-01	4.81E-01	4.03E-01	8.15E-01	8.17E-01	8.19E-01	8.21E-01
5.17E+00	1.24E-03	8.41E-01	4.79E-01	4.01E-01	8.13E-01	8.15E-01	8.17E-01	8.19E-01
5.47E+00	4.53E-07	8.39E-01	4.77E-01	4.00E-01	8.11E-01	8.13E-01	8.15E-01	8.17E-01
5.57E+00	0.00E+00	8.37E-01	4.76E-01	3.98E-01	8.09E-01	8.11E-01	8.13E-01	8.15E-01
6.12E+00	0.00E+00	8.35E-01	4.74E-01	3.97E-01	8.07E-01	8.09E-01	8.11E-01	8.13E-01
6.48E+00	0.00E+00	8.32E-01	4.72E-01	3.95E-01	8.04E-01	8.07E-01	8.09E-01	8.10E-01
6.86E+00	0.00E+00	8.30E-01	4.70E-01	3.93E-01	8.02E-01	8.04E-01	8.06E-01	8.08E-01
7.26E+00	0.00E+00	8.27E-01	4.68E-01	3.92E-01	7.99E-01	8.02E-01	8.04E-01	8.05E-01
7.68E+00	0.00E+00	8.24E-01	4.66E-01	3.90E-01	7.97E-01	7.99E-01	8.01E-01	8.03E-01
8.13E+00	0.00E+00	8.21E-01	4.64E-01	3.88E-01	7.94E-01	7.96E-01	7.98E-01	8.00E-01
8.60E+00	0.00E+00	8.18E-01	4.61E-01	3.86E-01	7.91E-01	7.93E-01	7.95E-01	7.97E-01
9.10E+00	0.00E+00	8.15E-01	4.59E-01	3.84E-01	7.88E-01	7.90E-01	7.92E-01	7.94E-01
9.63E+00	0.00E+00	8.12E-01	4.56E-01	3.82E-01	7.84E-01	7.87E-01	7.89E-01	7.90E-01
1.00E+01	0.00E+00	8.09E-01	4.55E-01	3.81E-01	7.82E-01	7.84E-01	7.86E-01	7.88E-01
1.02E+01	0.00E+00	8.08E-01	4.54E-01	3.80E-01	7.81E-01	7.83E-01	7.85E-01	7.87E-01
1.08E+01	0.00E+00	8.04E-01	4.51E-01	3.78E-01	7.77E-01	7.80E-01	7.81E-01	7.83E-01
1.14E+01	0.00E+00	8.00E-01	4.48E-01	3.76E-01	7.73E-01	7.76E-01	7.78E-01	7.79E-01
1.21E+01	0.00E+00	7.96E-01	4.45E-01	3.74E-01	7.69E-01	7.72E-01	7.73E-01	7.75E-01
1.28E+01	0.00E+00	7.92E-01	4.42E-01	3.71E-01	7.65E-01	7.67E-01	7.69E-01	7.71E-01
1.35E+01	0.00E+00	7.87E-01	4.39E-01	3.68E-01	7.60E-01	7.63E-01	7.65E-01	7.66E-01
1.43E+01	0.00E+00	7.82E-01	4.35E-01	3.64E-01	7.55E-01	7.58E-01	7.60E-01	7.61E-01
1.51E+01	0.00E+00	7.77E-01	4.32E-01	3.61E-01	7.50E-01	7.53E-01	7.55E-01	7.56E-01
1.60E+01	0.00E+00	7.72E-01	4.28E-01	3.57E-01	7.45E-01	7.47E-01	7.49E-01	7.51E-01
1.70E+01	0.00E+00	7.66E-01	4.24E-01	3.54E-01	7.39E-01	7.42E-01	7.44E-01	7.46E-01
1.80E+01	0.00E+00	7.60E-01	4.20E-01	3.51E-01	7.33E-01	7.36E-01	7.38E-01	7.40E-01
1.90E+01	0.00E+00	7.54E-01	4.15E-01	3.47E-01	7.27E-01	7.30E-01	7.32E-01	7.34E-01

2.01E+01 0.00E+00 7.47E-01 4.11E-01 3.44E-01 7.21E-01 7.23E-01 7.25E-01 7.27E-01

2.13E+01 0.00E+00 7.40E-01 4.06E-01 3.40E-01 7.14E-01 7.17E-01 7.18E-01 7.21E-01

2.25E+01 0.00E+00 7.33E-01 4.01E-01 3.37E-01 7.07E-01 7.10E-01 7.11E-01 7.13E-01

2.38E+01 0.00E+00 7.25E-01 3.96E-01 3.33E-01 7.00E-01 7.02E-01 7.04E-01 7.06E-01

2.52E+01 0.00E+00 7.17E-01 3.91E-01 3.29E-01 6.92E-01 6.94E-01 6.96E-01 6.98E-01

2.67E+01 0.00E+00 7.09E-01 3.85E-01 3.25E-01 6.84E-01 6.86E-01 6.88E-01 6.90E-01

2.82E+01 0.00E+00 7.00E-01 3.79E-01 3.20E-01 6.75E-01 6.78E-01 6.80E-01 6.81E-01

2.99E+01 0.00E+00 6.91E-01 3.74E-01 3.16E-01 6.67E-01 6.69E-01 6.71E-01 6.72E-01

3.00E+01 0.00E+00 6.91E-01 3.73E-01 3.15E-01 6.66E-01 6.69E-01 6.70E-01 6.72E-01

3.16E+01 0.00E+00 6.82E-01 3.67E-01 3.10E-01 6.57E-01 6.60E-01 6.62E-01 6.63E-01

3.35E+01 0.00E+00 6.72E-01 3.61E-01 3.05E-01 6.47E-01 6.50E-01 6.52E-01 6.53E-01

3.54E+01 0.00E+00 6.62E-01 3.54E-01 2.99E-01 6.37E-01 6.40E-01 6.42E-01 6.43E-01

3.75E+01 0.00E+00 6.51E-01 3.47E-01 2.93E-01 6.26E-01 6.30E-01 6.31E-01 6.32E-01

3.97E+01 0.00E+00 6.40E-01 3.40E-01 2.88E-01 6.16E-01 6.19E-01 6.21E-01 6.22E-01

4.20E+01 0.00E+00 6.28E-01 3.32E-01 2.81E-01 6.04E-01 6.08E-01 6.09E-01 6.10E-01

4.44E+01 0.00E+00 6.16E-01 3.25E-01 2.74E-01 5.92E-01 5.96E-01 5.98E-01 5.99E-01

4.70E+01 0.00E+00 6.03E-01 3.17E-01 2.65E-01 5.80E-01 5.84E-01 5.85E-01 5.86E-01

4.97E+01 0.00E+00 5.90E-01 3.08E-01 2.59E-01 5.68E-01 5.71E-01 5.73E-01 5.74E-01

5.26E+01 0.00E+00 5.77E-01 3.00E-01 2.52E-01 5.54E-01 5.58E-01 5.60E-01 5.61E-01

5.57E+01 0.00E+00 5.63E-01 2.91E-01 2.45E-01 5.41E-01 5.45E-01 5.46E-01 5.47E-01

5.90E+01 0.00E+00 5.49E-01 2.82E-01 2.38E-01 5.27E-01 5.31E-01 5.32E-01 5.33E-01

6.24E+01 0.00E+00 5.34E-01 2.73E-01 2.28E-01 5.13E-01 5.17E-01 5.18E-01 5.19E-01

60E+01 0.00E+00 5.19E-01 2.64E-01 2.21E-01 4.98E-01 5.02E-01 5.03E-01 5.04E-01

99E+01 0.00E+00 5.03E-01 2.55E-01 2.13E-01 4.83E-01 4.87E-01 4.88E-01 4.89E-01

7.39E+01 0.00E+00 4.87E-01 2.45E-01 2.05E-01 4.67E-01 4.71E-01 4.72E-01 4.74E-01

7.82E+01 0.00E+00 4.71E-01 2.35E-01 1.95E-01 4.51E-01 4.56E-01 4.57E-01 4.58E-01

8.28E+01 0.00E+00 4.54E-01 2.25E-01 1.87E-01 4.35E-01 4.39E-01 4.40E-01 4.42E-01

8.76E+01 0.00E+00 4.37E-01 2.15E-01 1.77E-01 4.18E-01 4.23E-01 4.24E-01 4.25E-01

9.27E+01 0.00E+00 4.20E-01 2.05E-01 1.69E-01 4.02E-01 4.06E-01 4.07E-01 4.08E-01

9.81E+01 0.00E+00 4.02E-01 1.95E-01 1.59E-01 3.84E-01 3.89E-01 3.90E-01 3.91E-01

1.00E+02 0.00E+00 3.96E-01 1.92E-01 1.56E-01 3.79E-01 3.83E-01 3.84E-01 3.86E-01

1.04E+02 0.00E+00 3.84E-01 1.85E-01 1.50E-01 3.67E-01 3.72E-01 3.73E-01 3.74E-01

1.10E+02 0.00E+00 3.77E-01 1.75E-01 1.41E-01 3.50E-01 3.54E-01 3.55E-01 3.57E-01

1.16E+02 0.00E+00 3.76E-01 1.64E-01 1.33E-01 3.31E-01 3.36E-01 3.38E-01 3.39E-01

1.23E+02 0.00E+00 3.74E-01 1.54E-01 1.24E-01 3.13E-01 3.19E-01 3.20E-01 3.21E-01

1.30E+02 0.00E+00 3.71E-01 1.44E-01 1.16E-01 2.96E-01 3.01E-01 3.02E-01 3.04E-01

1.38E+02 0.00E+00 3.66E-01 1.34E-01 1.07E-01 2.78E-01 2.83E-01 2.85E-01 2.86E-01

1.46E+02 0.00E+00 3.60E-01 1.24E-01 9.97E-02 2.60E-01 2.66E-01 2.67E-01 2.69E-01

1.54E+02 0.00E+00 3.53E-01 1.14E-01 9.21E-02 2.41E-01 2.48E-01 2.50E-01 2.51E-01

1.63E+02 0.00E+00 3.44E-01 1.04E-01 8.43E-02 2.23E-01 2.30E-01 2.32E-01 2.34E-01

1.73E+02 0.00E+00 3.34E-01 9.52E-02 7.72E-02 2.07E-01 2.14E-01 2.16E-01 2.17E-01

1.83E+02 0.00E+00 3.22E-01 8.63E-02 7.01E-02 1.90E-01 1.97E-01 1.99E-01 2.00E-01

1.94E+02 0.00E+00 3.09E-01 7.77E-02 6.30E-02 1.73E-01 1.81E-01 1.83E-01 1.85E-01

2.05E+02 0.00E+00 2.95E-01 6.93E-02 5.60E-02 1.58E-01 1.66E-01 1.68E-01 1.70E-01

2.17E+02 0.00E+00 2.80E-01 6.14E-02 5.03E-02 1.41E-01 1.50E-01 1.52E-01 1.57E-01

2.29E+02 0.00E+00 2.64E-01 5.42E-02 4.45E-02 1.27E-01 1.36E-01 1.38E-01 1.42E-01

2.43E+02 0.00E+00 2.56E-01 4.74E-02 3.91E-02 1.14E-01 1.22E-01 1.24E-01 1.28E-01

2.57E+02 0.00E+00 2.52E-01 4.13E-02 3.42E-02 9.99E-02 1.09E-01 1.11E-01 1.14E-01

2.72E+02 0.00E+00 2.42E-01 3.56E-02 2.98E-02 8.60E-02 9.69E-02 9.86E-02 1.01E-01

2.88E+02 0.00E+00 2.27E-01 3.06E-02 2.56E-02 7.45E-02 8.53E-02 8.70E-02 8.94E-02

3.00E+02 0.00E+00 2.14E-01 2.72E-02 2.24E-02 6.66E-02 7.74E-02 7.91E-02 8.11E-02

3.05E+02 0.00E+00 2.09E-01 2.61E-02 2.14E-02 6.39E-02 7.46E-02 7.63E-02 7.83E-02

3.22E+02 0.00E+00 1.89E-01 2.20E-02 1.81E-02 5.49E-02 6.46E-02 6.62E-02 6.81E-02

3.41E+02 0.00E+00 1.67E-01 1.84E-02 1.51E-02 4.65E-02 5.57E-02 5.71E-02 5.88E-02

3.61E+02 0.00E+00 1.46E-01 1.53E-02 1.22E-02 3.85E-02 4.76E-02 4.88E-02 5.03E-02

3.82E+02 0.00E+00 1.25E-01 1.26E-02 1.01E-02 3.25E-02 4.03E-02 4.14E-02 4.63E-02

4.04E+02 0.00E+00 1.06E-01 1.03E-02 8.19E-03 2.65E-02 3.38E-02 3.47E-02 3.88E-02

4.28E+02 0.00E+00 8.77E-02 8.28E-03 6.64E-03 2.21E-02 2.80E-02 2.88E-02 3.22E-02

4.53E+02 0.00E+00 7.20E-02 6.61E-03 5.13E-03 1.78E-02 2.30E-02 2.37E-02 2.65E-02

4.79E+02 0.00E+00 5.85E-02 5.21E-03 3.76E-03 1.38E-02 1.86E-02 1.92E-02 2.15E-02

5.07E+02 0.00E+00 4.69E-02 4.06E-03 2.73E-03 1.12E-02 1.49E-02 1.54E-02 1.73E-02

5.36E+02 0.00E+00 3.74E-02 3.12E-03 1.98E-03 8.63E-03 1.18E-02 1.22E-02 1.37E-02

5.68E+02 0.00E+00 2.98E-02 2.37E-03 1.38E-03 6.66E-03 9.20E-03 9.56E-03 1.07E-02

0.01E+02 0.00E+00 2.34E-02 1.78E-03 8.30E-04 5.06E-03 6.97E-03 7.36E-03 8.23E-03

6.36E+02 0.00E+00 1.81E-02 1.31E-03 5.00E-04 3.84E-03 5.28E-03 5.60E-03 6.24E-03

6.73E+02 0.00E+00 1.37E-02 9.49E-04 2.99E-04 2.81E-03 3.94E-03 4.18E-03 4.66E-03

7.12E+02 0.00E+00 1.02E-02 6.78E-04 1.61E-04 2.05E-03 2.87E-03 3.08E-03 3.42E-03

7.53E+02 0.00E+00 7.41E-03 4.77E-04 9.64E-05 1.42E-03 2.08E-03 2.24E-03 2.47E-03

7.97E+02 0.00E+00 5.29E-03 3.31E-04 5.05E-05 1.04E-03 1.48E-03 1.59E-03 1.76E-03

8.44E+02 0.00E+00 3.69E-03 2.26E-04 3.22E-05 7.34E-04 1.02E-03 1.12E-03 1.22E-03

93E+02 0.00E+00 2.52E-03 1.53E-04 1.74E-05 5.04E-04 6.95E-04 7.68E-04 8.28E-04

9.45E+02 0.00E+00 1.67E-03 1.03E-04 1.13E-05 3.46E-04 4.70E-04 5.28E-04 5.68E-04

1.00E+03 0.00E+00 1.08E-03 6.98E-05 8.42E-06 2.26E-04 3.18E-04 3.61E-04 3.88E-04

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

Summary of dose at graphical times, reptition 3

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.60E-01	8.66E-01	5.08E-01	4.30E-01	8.48E-01	8.50E-01	8.52E-01	8.55E-01
1.00E+00	2.46E-01	8.59E-01	5.02E-01	4.26E-01	8.41E-01	8.43E-01	8.46E-01	8.48E-01
1.06E+00	2.45E-01	8.59E-01	5.02E-01	4.25E-01	8.40E-01	8.43E-01	8.45E-01	8.48E-01
1.12E+00	2.43E-01	8.58E-01	5.02E-01	4.24E-01	8.40E-01	8.42E-01	8.45E-01	8.47E-01
1.19E+00	2.42E-01	8.58E-01	5.01E-01	4.24E-01	8.40E-01	8.42E-01	8.44E-01	8.47E-01
1.25E+00	2.40E-01	8.57E-01	5.01E-01	4.24E-01	8.39E-01	8.42E-01	8.44E-01	8.46E-01
1.33E+00	2.39E-01	8.57E-01	5.00E-01	4.24E-01	8.39E-01	8.41E-01	8.43E-01	8.46E-01
1.40E+00	2.37E-01	8.56E-01	5.00E-01	4.23E-01	8.38E-01	8.41E-01	8.43E-01	8.45E-01
1.49E+00	2.35E-01	8.56E-01	5.00E-01	4.23E-01	8.38E-01	8.40E-01	8.42E-01	8.45E-01
1.57E+00	2.33E-01	8.55E-01	4.99E-01	4.23E-01	8.37E-01	8.39E-01	8.42E-01	8.44E-01
1.66E+00	2.31E-01	8.54E-01	4.99E-01	4.22E-01	8.36E-01	8.39E-01	8.41E-01	8.43E-01
1.76E+00	2.29E-01	8.54E-01	4.98E-01	4.22E-01	8.36E-01	8.38E-01	8.41E-01	8.43E-01
1.86E+00	2.27E-01	8.53E-01	4.97E-01	4.20E-01	8.35E-01	8.37E-01	8.40E-01	8.42E-01
1.97E+00	2.24E-01	8.52E-01	4.97E-01	4.19E-01	8.34E-01	8.37E-01	8.39E-01	8.41E-01
2.09E+00	2.22E-01	8.51E-01	4.96E-01	4.19E-01	8.34E-01	8.36E-01	8.38E-01	8.40E-01
2.21E+00	2.19E-01	8.51E-01	4.96E-01	4.17E-01	8.33E-01	8.35E-01	8.38E-01	8.40E-01
2.24E+00	2.16E-01	8.50E-01	4.95E-01	4.17E-01	8.32E-01	8.34E-01	8.37E-01	8.39E-01
2.27E+00	2.13E-01	8.49E-01	4.94E-01	4.16E-01	8.31E-01	8.33E-01	8.36E-01	8.38E-01
2.26E+00	2.10E-01	8.48E-01	4.93E-01	4.16E-01	8.30E-01	8.32E-01	8.35E-01	8.37E-01
2.27E+00	2.07E-01	8.47E-01	4.92E-01	4.14E-01	8.29E-01	8.31E-01	8.34E-01	8.36E-01
2.29E+00	2.03E-01	8.46E-01	4.92E-01	4.14E-01	8.28E-01	8.30E-01	8.33E-01	8.35E-01
3.00E+00	2.02E-01	8.45E-01	4.91E-01	4.13E-01	8.27E-01	8.30E-01	8.32E-01	8.34E-01
3.31E+00	1.99E-01	8.44E-01	4.91E-01	4.13E-01	8.27E-01	8.29E-01	8.32E-01	8.34E-01
3.32E+00	1.95E-01	8.43E-01	4.90E-01	4.12E-01	8.26E-01	8.28E-01	8.30E-01	8.32E-01
3.48E+00	1.91E-01	8.42E-01	4.89E-01	4.11E-01	8.24E-01	8.27E-01	8.29E-01	8.31E-01
3.68E+00	1.87E-01	8.40E-01	4.87E-01	4.10E-01	8.23E-01	8.25E-01	8.28E-01	8.30E-01
3.89E+00	1.72E-01	8.39E-01	4.86E-01	4.10E-01	8.22E-01	8.24E-01	8.26E-01	8.28E-01
4.12E+00	1.38E-01	8.37E-01	4.85E-01	4.09E-01	8.20E-01	8.22E-01	8.25E-01	8.27E-01
4.36E+00	9.85E-02	8.36E-01	4.84E-01	4.08E-01	8.18E-01	8.21E-01	8.23E-01	8.25E-01
4.61E+00	5.74E-02	8.34E-01	4.82E-01	4.07E-01	8.17E-01	8.19E-01	8.22E-01	8.24E-01
4.88E+00	2.56E-02	8.32E-01	4.81E-01	4.06E-01	8.15E-01	8.17E-01	8.20E-01	8.22E-01
5.17E+00	5.83E-03	8.30E-01	4.79E-01	4.05E-01	8.13E-01	8.15E-01	8.18E-01	8.20E-01
5.47E+00	3.34E-06	8.28E-01	4.78E-01	4.03E-01	8.11E-01	8.13E-01	8.16E-01	8.18E-01
5.57E+00	0.00E+00	8.26E-01	4.76E-01	4.02E-01	8.09E-01	8.11E-01	8.14E-01	8.16E-01
6.12E+00	0.00E+00	8.24E-01	4.74E-01	4.01E-01	8.07E-01	8.09E-01	8.12E-01	8.14E-01
6.48E+00	0.00E+00	8.22E-01	4.72E-01	4.00E-01	8.05E-01	8.07E-01	8.09E-01	8.11E-01
6.86E+00	0.00E+00	8.19E-01	4.70E-01	3.98E-01	8.02E-01	8.04E-01	8.07E-01	8.09E-01
7.26E+00	0.00E+00	8.16E-01	4.68E-01	3.97E-01	8.00E-01	8.02E-01	8.04E-01	8.06E-01
7.68E+00	0.00E+00	8.14E-01	4.66E-01	3.94E-01	7.97E-01	7.99E-01	8.01E-01	8.03E-01
8.13E+00	0.00E+00	8.11E-01	4.64E-01	3.92E-01	7.94E-01	7.96E-01	7.98E-01	8.00E-01
8.60E+00	0.00E+00	8.07E-01	4.62E-01	3.91E-01	7.91E-01	7.93E-01	7.95E-01	7.97E-01
9.10E+00	0.00E+00	8.04E-01	4.60E-01	3.89E-01	7.88E-01	7.90E-01	7.92E-01	7.94E-01
9.63E+00	0.00E+00	8.01E-01	4.57E-01	3.87E-01	7.84E-01	7.87E-01	7.89E-01	7.91E-01
1.00E+01	0.00E+00	7.98E-01	4.55E-01	3.86E-01	7.82E-01	7.84E-01	7.86E-01	7.89E-01
1.02E+01	0.00E+00	7.97E-01	4.54E-01	3.85E-01	7.81E-01	7.83E-01	7.85E-01	7.87E-01
1.08E+01	0.00E+00	7.93E-01	4.52E-01	3.83E-01	7.77E-01	7.79E-01	7.81E-01	7.84E-01
1.14E+01	0.00E+00	7.89E-01	4.49E-01	3.81E-01	7.73E-01	7.76E-01	7.78E-01	7.80E-01
1.21E+01	0.00E+00	7.85E-01	4.46E-01	3.79E-01	7.69E-01	7.71E-01	7.73E-01	7.76E-01
1.28E+01	0.00E+00	7.80E-01	4.42E-01	3.76E-01	7.64E-01	7.67E-01	7.69E-01	7.72E-01
1.35E+01	0.00E+00	7.76E-01	4.39E-01	3.73E-01	7.60E-01	7.62E-01	7.65E-01	7.67E-01
1.43E+01	0.00E+00	7.71E-01	4.36E-01	3.70E-01	7.55E-01	7.58E-01	7.60E-01	7.62E-01
1.51E+01	0.00E+00	7.66E-01	4.32E-01	3.66E-01	7.50E-01	7.53E-01	7.55E-01	7.57E-01
1.60E+01	0.00E+00	7.60E-01	4.28E-01	3.63E-01	7.45E-01	7.47E-01	7.49E-01	7.52E-01
1.70E+01	0.00E+00	7.54E-01	4.24E-01	3.59E-01	7.39E-01	7.42E-01	7.44E-01	7.46E-01
1.80E+01	0.00E+00	7.48E-01	4.20E-01	3.56E-01	7.33E-01	7.36E-01	7.38E-01	7.41E-01
1.90E+01	0.00E+00	7.42E-01	4.16E-01	3.52E-01	7.27E-01	7.30E-01	7.32E-01	7.35E-01

2.01E+01 0.00E+00 7.35E-01 4.11E-01 3.48E-01 7.21E-01 7.23E-01 7.25E-01 7.28E-01

2.13E+01 0.00E+00 7.28E-01 4.07E-01 3.43E-01 7.14E-01 7.17E-01 7.19E-01 7.21E-01

2.25E+01 0.00E+00 7.21E-01 4.02E-01 3.38E-01 7.07E-01 7.09E-01 7.12E-01 7.14E-01

2.38E+01 0.00E+00 7.13E-01 3.97E-01 3.34E-01 6.99E-01 7.02E-01 7.04E-01 7.07E-01

2.52E+01 0.00E+00 7.05E-01 3.91E-01 3.30E-01 6.92E-01 6.94E-01 6.96E-01 6.99E-01

2.67E+01 0.00E+00 6.97E-01 3.86E-01 3.24E-01 6.84E-01 6.86E-01 6.88E-01 6.91E-01

2.82E+01 0.00E+00 6.88E-01 3.80E-01 3.18E-01 6.75E-01 6.78E-01 6.80E-01 6.83E-01

2.99E+01 0.00E+00 6.79E-01 3.74E-01 3.13E-01 6.66E-01 6.69E-01 6.71E-01 6.73E-01

3.00E+01 0.00E+00 6.78E-01 3.74E-01 3.13E-01 6.66E-01 6.68E-01 6.70E-01 6.73E-01

3.16E+01 0.00E+00 6.69E-01 3.68E-01 3.08E-01 6.57E-01 6.60E-01 6.62E-01 6.64E-01

3.35E+01 0.00E+00 6.59E-01 3.62E-01 3.03E-01 6.47E-01 6.50E-01 6.52E-01 6.55E-01

3.54E+01 0.00E+00 6.49E-01 3.55E-01 2.98E-01 6.37E-01 6.40E-01 6.42E-01 6.45E-01

3.75E+01 0.00E+00 6.38E-01 3.48E-01 2.93E-01 6.26E-01 6.30E-01 6.32E-01 6.34E-01

3.97E+01 0.00E+00 6.27E-01 3.41E-01 2.86E-01 6.15E-01 6.19E-01 6.21E-01 6.24E-01

4.20E+01 0.00E+00 6.15E-01 3.33E-01 2.80E-01 6.04E-01 6.08E-01 6.10E-01 6.12E-01

4.44E+01 0.00E+00 6.03E-01 3.26E-01 2.73E-01 5.92E-01 5.96E-01 5.98E-01 6.01E-01

4.70E+01 0.00E+00 5.91E-01 3.18E-01 2.67E-01 5.80E-01 5.84E-01 5.86E-01 5.89E-01

4.97E+01 0.00E+00 5.78E-01 3.10E-01 2.59E-01 5.67E-01 5.71E-01 5.73E-01 5.76E-01

5.26E+01 0.00E+00 5.65E-01 3.01E-01 2.51E-01 5.54E-01 5.58E-01 5.60E-01 5.63E-01

5.57E+01 0.00E+00 5.51E-01 2.93E-01 2.44E-01 5.41E-01 5.45E-01 5.47E-01 5.50E-01

5.90E+01 0.00E+00 5.37E-01 2.84E-01 2.38E-01 5.26E-01 5.31E-01 5.33E-01 5.36E-01

6.24E+01 0.00E+00 5.23E-01 2.75E-01 2.31E-01 5.12E-01 5.17E-01 5.18E-01 5.21E-01

6.0E+01 0.00E+00 5.08E-01 2.66E-01 2.23E-01 4.97E-01 5.02E-01 5.04E-01 5.06E-01

99E+01 0.00E+00 4.93E-01 2.56E-01 2.16E-01 4.82E-01 4.87E-01 4.88E-01 4.91E-01

7.39E+01 0.00E+00 4.77E-01 2.47E-01 2.08E-01 4.66E-01 4.72E-01 4.73E-01 4.75E-01

7.82E+01 0.00E+00 4.61E-01 2.37E-01 2.01E-01 4.50E-01 4.56E-01 4.57E-01 4.59E-01

8.28E+01 0.00E+00 4.45E-01 2.27E-01 1.93E-01 4.33E-01 4.39E-01 4.41E-01 4.43E-01

8.76E+01 0.00E+00 4.29E-01 2.17E-01 1.84E-01 4.17E-01 4.22E-01 4.24E-01 4.26E-01

9.27E+01 0.00E+00 4.12E-01 2.06E-01 1.75E-01 3.98E-01 4.06E-01 4.07E-01 4.09E-01

9.81E+01 0.00E+00 3.95E-01 1.96E-01 1.64E-01 3.81E-01 3.89E-01 3.90E-01 3.92E-01

1.00E+02 0.00E+00 3.89E-01 1.92E-01 1.60E-01 3.75E-01 3.83E-01 3.85E-01 3.87E-01

1.04E+02 0.00E+00 3.78E-01 1.85E-01 1.54E-01 3.62E-01 3.71E-01 3.73E-01 3.75E-01

1.10E+02 0.00E+00 3.60E-01 1.75E-01 1.47E-01 3.45E-01 3.54E-01 3.56E-01 3.57E-01

1.16E+02 0.00E+00 3.42E-01 1.64E-01 1.36E-01 3.27E-01 3.36E-01 3.38E-01 3.40E-01

1.23E+02 0.00E+00 3.25E-01 1.54E-01 1.27E-01 3.10E-01 3.19E-01 3.20E-01 3.22E-01

1.30E+02 0.00E+00 3.07E-01 1.44E-01 1.19E-01 2.91E-01 3.01E-01 3.02E-01 3.04E-01

1.38E+02 0.00E+00 2.89E-01 1.33E-01 1.11E-01 2.74E-01 2.83E-01 2.85E-01 2.87E-01

1.46E+02 0.00E+00 2.72E-01 1.23E-01 1.02E-01 2.54E-01 2.65E-01 2.67E-01 2.69E-01

1.54E+02 0.00E+00 2.54E-01 1.13E-01 9.43E-02 2.36E-01 2.48E-01 2.50E-01 2.52E-01

1.63E+02 0.00E+00 2.37E-01 1.04E-01 8.60E-02 2.19E-01 2.31E-01 2.33E-01 2.34E-01

1.73E+02 0.00E+00 2.20E-01 9.44E-02 7.78E-02 2.03E-01 2.14E-01 2.16E-01 2.18E-01

1.83E+02 0.00E+00 2.03E-01 8.54E-02 7.11E-02 1.84E-01 1.97E-01 1.99E-01 2.01E-01

1.94E+02 0.00E+00 1.87E-01 7.66E-02 6.42E-02 1.65E-01 1.81E-01 1.83E-01 1.85E-01

2.05E+02 0.00E+00 1.73E-01 6.83E-02 5.68E-02 1.48E-01 1.65E-01 1.68E-01 1.69E-01

2.17E+02 0.00E+00 1.59E-01 6.05E-02 5.09E-02 1.34E-01 1.50E-01 1.52E-01 1.54E-01

2.29E+02 0.00E+00 1.46E-01 5.33E-02 4.55E-02 1.20E-01 1.36E-01 1.38E-01 1.39E-01

2.43E+02 0.00E+00 1.33E-01 4.67E-02 4.01E-02 1.08E-01 1.22E-01 1.24E-01 1.25E-01

2.57E+02 0.00E+00 1.21E-01 4.06E-02 3.43E-02 9.56E-02 1.09E-01 1.11E-01 1.12E-01

2.72E+02 0.00E+00 1.20E-01 3.50E-02 2.98E-02 8.47E-02 9.67E-02 9.85E-02 9.96E-02

2.88E+02 0.00E+00 1.19E-01 3.00E-02 2.55E-02 7.33E-02 8.52E-02 8.69E-02 8.79E-02

3.00E+02 0.00E+00 1.18E-01 2.66E-02 2.26E-02 6.63E-02 7.72E-02 7.88E-02 7.98E-02

3.05E+02 0.00E+00 1.17E-01 2.55E-02 2.17E-02 6.36E-02 7.45E-02 7.60E-02 7.70E-02

3.22E+02 0.00E+00 1.12E-01 2.15E-02 1.80E-02 5.44E-02 6.34E-02 6.58E-02 6.69E-02

3.41E+02 0.00E+00 1.06E-01 1.80E-02 1.50E-02 4.63E-02 5.40E-02 5.67E-02 5.77E-02

3.61E+02 0.00E+00 9.83E-02 1.49E-02 1.24E-02 3.78E-02 4.64E-02 4.85E-02 4.93E-02

3.82E+02 0.00E+00 9.00E-02 1.22E-02 1.02E-02 3.09E-02 3.87E-02 4.11E-02 4.20E-02

4.04E+02 0.00E+00 8.10E-02 9.90E-03 8.22E-03 2.48E-02 3.24E-02 3.47E-02 3.55E-02

4.28E+02 0.00E+00 7.18E-02 7.95E-03 6.60E-03 1.96E-02 2.69E-02 2.88E-02 3.01E-02

4.53E+02 0.00E+00 6.27E-02 6.31E-03 5.10E-03 1.58E-02 2.21E-02 2.37E-02 2.54E-02

4.79E+02 0.00E+00 5.39E-02 4.95E-03 3.79E-03 1.28E-02 1.79E-02 1.91E-02 2.12E-02

5.07E+02 0.00E+00 4.55E-02 3.83E-03 2.81E-03 1.01E-02 1.40E-02 1.53E-02 1.74E-02

5.36E+02 0.00E+00 3.78E-02 2.93E-03 2.01E-03 8.01E-03 1.09E-02 1.19E-02 1.42E-02

5.68E+02 0.00E+00 3.09E-02 2.21E-03 1.39E-03 6.23E-03 8.43E-03 9.31E-03 1.14E-02

0.01E+02 0.00E+00 2.48E-02 1.65E-03 8.85E-04 4.55E-03 6.38E-03 7.12E-03 9.06E-03

6.36E+02 0.00E+00 1.95E-02 1.21E-03 5.35E-04 3.40E-03 4.81E-03 5.40E-03 7.08E-03

6.73E+02 0.00E+00 1.51E-02 8.81E-04 3.26E-04 2.53E-03 3.52E-03 4.01E-03 5.45E-03

7.12E+02 0.00E+00 1.14E-02 6.31E-04 2.09E-04 1.75E-03 2.56E-03 2.91E-03 4.13E-03

7.53E+02 0.00E+00 8.48E-03 4.46E-04 1.28E-04 1.26E-03 1.79E-03 2.11E-03 3.08E-03

7.97E+02 0.00E+00 6.15E-03 3.10E-04 7.25E-05 8.81E-04 1.28E-03 1.50E-03 2.26E-03

8.44E+02 0.00E+00 4.36E-03 2.14E-04 4.28E-05 6.17E-04 8.91E-04 1.08E-03 1.64E-03

8.93E+02 0.00E+00 3.02E-03 1.46E-04 2.57E-05 4.29E-04 6.14E-04 7.51E-04 1.17E-03

9.45E+02 0.00E+00 2.05E-03 9.89E-05 1.70E-05 2.96E-04 4.18E-04 5.15E-04 8.21E-04

1.00E+03 0.00E+00 1.35E-03 6.73E-05 1.15E-05 2.04E-04 2.84E-04 3.52E-04 5.62E-04

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-238.RAD

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

Repetition	Time of peak mean dose		Peak mean dose mrem/yr
	Years		
1	0.000E+00		5.079E-01
2	0.000E+00		5.079E-01
3	0.000E+00		5.078E-01

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-238.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	2	-0.12	2	-0.04	17	0.00	17	0.00
Contaminated zone b parameter	16	-0.01	16	0.00	12	0.03	12	0.00
Evapotranspiration coefficient	12	-0.02	12	-0.01	15	-0.02	15	0.00
Wind Speed	9	-0.04	9	-0.01	4	-0.23	4	-0.03
Runoff coefficient	5	-0.06	5	-0.02	5	0.10	5	0.01
Well pump intake depth	8	-0.04	8	-0.01	14	0.02	14	0.00
b Parameter of Unsaturated zone 1	4	-0.08	4	-0.02	9	-0.04	9	0.00
Mass loading for inhalation	3	0.10	3	0.03	3	0.26	3	0.03
Indoor dust filtration factor	7	0.04	7	0.01	2	0.33	2	0.04
Depth of soil mixing layer	11	0.03	11	0.01	16	0.00	16	0.00
Depth of roots	1	-0.96	1	-0.96	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	-0.01	13	0.00	11	-0.03	11	0.00
Weathering removal constant of all vegetation	17	0.00	18	0.00	6	-0.07	6	-0.01
Wet foliar interception fraction of leafy vegetables	14	-0.01	14	0.00	18	0.00	18	0.00
Humidity in air	15	0.01	15	0.00	10	-0.03	10	0.00
Kd of Pu-238 in Contaminated Zone	10	0.03	10	0.01	13	-0.02	13	0.00
Kd of Pu-238 in Unsaturated Zone 1	6	0.05	6	0.01	8	0.06	8	0.01
Kd of Pu-238 in Saturated Zone	18	0.00	17	0.00	7	0.06	7	0.01

R-SQUARE 0.92 0.92 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 : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-238.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
Contaminated zone erosion rate	4	-0.12	4	-0.03	6	-0.07	6	-0.01
Contaminated zone b parameter	14	-0.03	14	-0.01	15	-0.02	15	0.00
Evapotranspiration coefficient	16	0.02	16	0.01	9	-0.04	9	0.00
Wind Speed	9	-0.04	9	-0.01	4	-0.18	4	-0.02
Runoff coefficient	8	0.05	8	0.01	18	-0.01	18	0.00
Well pump intake depth	5	-0.11	5	-0.03	16	0.02	16	0.00
b Parameter of Unsaturated zone 1	6	-0.09	6	-0.03	8	0.06	8	0.01
Mass loading for inhalation	2	0.16	2	0.05	2	0.37	2	0.04
Indoor dust filtration factor	3	0.12	3	0.03	3	0.30	3	0.03
Depth of soil mixing layer	17	-0.01	17	0.00	11	-0.04	11	0.00
Depth of roots	1	-0.96	1	-0.96	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	0.00	18	0.00	5	0.08	5	0.01
Weathering removal constant of all vegetation	7	0.07	7	0.02	10	-0.04	10	0.00
Wet foliar interception fraction of leafy vegetables	10	0.03	10	0.01	7	0.07	7	0.01
Humidity in air	15	0.02	15	0.01	14	-0.02	14	0.00
Kd of Pu-238 in Contaminated Zone	13	-0.03	13	-0.01	17	0.02	17	0.00
Kd of Pu-238 in Unsaturated Zone 1	12	-0.03	12	-0.01	13	0.03	13	0.00
Kd of Pu-238 in Saturated Zone	11	0.03	11	0.01	12	0.04	12	0.00
R-SQUARE	0.92	0.92	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 : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-238.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	11	-0.05	11	-0.01	8	0.07	8	0.01
Contaminated zone b parameter	10	-0.06	10	-0.02	11	-0.04	11	0.00
Evapotranspiration coefficient	17	-0.01	17	0.00	18	0.00	18	0.00
Wind Speed	3	-0.08	3	-0.02	3	-0.29	3	-0.03
Runoff coefficient	2	-0.09	2	-0.03	9	-0.07	9	-0.01
Well pump intake depth	4	0.07	4	0.02	14	0.04	14	0.00
b Parameter of Unsaturated zone 1	15	0.02	15	0.01	12	-0.04	12	0.00
Mass loading for inhalation	8	0.06	8	0.02	2	0.31	2	0.04
Indoor dust filtration factor	9	0.06	9	0.02	4	0.29	4	0.03
Depth of soil mixing layer	12	-0.03	12	-0.01	15	-0.04	15	0.00
Depth of roots	1	-0.96	1	-0.96	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	0.00	18	0.00	16	-0.03	16	0.00
Weathering removal constant of all vegetation	7	-0.06	7	-0.02	5	-0.11	5	-0.01
Wet foliar interception fraction of leafy vegetables	14	-0.03	14	-0.01	6	0.10	6	0.01
Humidity in air	16	0.01	16	0.00	10	-0.05	10	-0.01
Kd of Pu-238 in Contaminated Zone	5	0.07	5	0.02	7	0.07	7	0.01
Kd of Pu-238 in Unsaturated Zone 1	6	-0.06	6	-0.02	17	0.03	17	0.00
Kd of Pu-238 in Saturated Zone	13	0.03	13	0.01	13	-0.04	13	0.00
R-SQUARE		0.92		0.92		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.