

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-241.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-241												
Min	0.00E+00	5.88E-03	5.71E-03	5.64E-03	4.30E-03	0.00E+00	0.00E+00	0.00E+00	1.90E-10	2.43E-09		
Max	5.67E+01	3.08E-02	1.92E-02	1.98E-02	2.11E-02	2.46E-02	2.95E-02	2.95E-02	2.14E-02	6.91E-03		
Avg	4.41E+01	1.69E-02	1.11E-02	1.15E-02	1.22E-02	1.39E-02	1.62E-02	1.47E-02	7.20E-03	1.01E-03		
Std	1.18E+01	7.44E-03	4.63E-03	4.80E-03	5.12E-03	6.12E-03	7.51E-03	7.64E-03	6.10E-03	1.79E-03		
ALL												
Min	0.00E+00	5.88E-03	5.71E-03	5.64E-03	4.30E-03	0.00E+00	0.00E+00	0.00E+00	1.90E-10	2.43E-09		
Max	5.67E+01	3.08E-02	1.92E-02	1.98E-02	2.11E-02	2.46E-02	2.95E-02	2.95E-02	2.14E-02	6.91E-03		
Avg	4.41E+01	1.69E-02	1.11E-02	1.15E-02	1.22E-02	1.39E-02	1.62E-02	1.47E-02	7.20E-03	1.01E-03		
Std	1.18E+01	7.44E-03	4.63E-03	4.80E-03	5.12E-03	6.12E-03	7.51E-03	7.64E-03	6.10E-03	1.79E-03		

ALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide	RISK(j,t)								
	(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-241									
Min		5.83E-09	6.66E-09	7.27E-09	0.00E+00	0.00E+00	0.00E+00	8.95E-17	1.14E-15
Max		2.05E-08	2.19E-08	2.46E-08	3.22E-08	4.31E-08	4.51E-08	3.28E-08	1.05E-08
Avg		1.13E-08	1.24E-08	1.44E-08	1.96E-08	2.69E-08	2.68E-08	1.44E-08	2.00E-09
Std		4.56E-09	4.77E-09	5.16E-09	6.53E-09	8.78E-09	9.57E-09	9.10E-09	3.02E-09
<hr/>									
TOTAL									
Min		5.83E-09	6.66E-09	7.27E-09	0.00E+00	0.00E+00	0.00E+00	8.95E-17	1.14E-15
Max		2.05E-08	2.19E-08	2.46E-08	3.22E-08	4.31E-08	4.51E-08	3.28E-08	1.05E-08
Avg		1.13E-08	1.24E-08	1.44E-08	1.96E-08	2.69E-08	2.68E-08	1.44E-08	2.00E-09
Std		4.56E-09	4.77E-09	5.16E-09	6.53E-09	8.78E-09	9.57E-09	9.10E-09	3.02E-09
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TOTAL 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
<hr/>								
Pu-241								
Min	2.49E-05	5.45E-05	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.54E-05	5.71E-05	1.16E-04	2.81E-04	5.26E-04	6.12E-04	4.49E-04	1.48E-04
Avg	2.54E-05	5.71E-05	1.16E-04	2.78E-04	5.11E-04	5.82E-04	3.51E-04	4.92E-05
Std	1.48E-08	7.38E-08	3.05E-07	2.82E-05	8.12E-05	1.22E-04	1.78E-04	6.71E-05
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ALL								
Min	2.49E-05	5.45E-05	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.54E-05	5.71E-05	1.16E-04	2.81E-04	5.26E-04	6.12E-04	4.49E-04	1.48E-04
Avg	2.54E-05	5.71E-05	1.16E-04	2.78E-04	5.11E-04	5.82E-04	3.51E-04	4.92E-05
Std	1.48E-08	7.38E-08	3.05E-07	2.82E-05	8.12E-05	1.22E-04	1.78E-04	6.71E-05
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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-241								
Min	3.20E-07	3.32E-07	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.10E-04	7.35E-04	7.82E-04	9.11E-04	1.09E-03	1.09E-03	7.92E-04	2.54E-04
Avg	1.14E-04	1.19E-04	1.26E-04	1.45E-04	1.71E-04	1.68E-04	9.45E-05	1.27E-05
Std	6.95E-05	7.20E-05	7.65E-05	8.98E-05	1.09E-04	1.10E-04	8.52E-05	2.34E-05
ALL								
Min	3.20E-07	3.32E-07	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.10E-04	7.35E-04	7.82E-04	9.11E-04	1.09E-03	1.09E-03	7.92E-04	2.54E-04
Avg	1.14E-04	1.19E-04	1.26E-04	1.45E-04	1.71E-04	1.68E-04	9.45E-05	1.27E-05
Std	6.95E-05	7.20E-05	7.65E-05	8.98E-05	1.09E-04	1.10E-04	8.52E-05	2.34E-05

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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-241								
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
Pu-241								
Min	4.26E-03	4.08E-03	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.71E-02	1.77E-02	1.88E-02	2.18E-02	2.60E-02	2.61E-02	1.90E-02	6.23E-03
Avg	9.59E-03	9.89E-03	1.04E-02	1.19E-02	1.37E-02	1.21E-02	5.74E-03	8.02E-04
Std	4.62E-03	4.79E-03	5.11E-03	6.06E-03	7.37E-03	7.44E-03	5.60E-03	1.55E-03
ALL								
Min	4.26E-03	4.08E-03	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.71E-02	1.77E-02	1.88E-02	2.18E-02	2.60E-02	2.61E-02	1.90E-02	6.23E-03
Avg	9.59E-03	9.89E-03	1.04E-02	1.19E-02	1.37E-02	1.21E-02	5.74E-03	8.02E-04
Std	4.62E-03	4.79E-03	5.11E-03	6.06E-03	7.37E-03	7.44E-03	5.60E-03	1.55E-03

ALL is total pathway dose summed for all nuclides.

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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
Pu-241								
Min	3.61E-04	3.51E-04	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.81E-04	3.79E-04	3.75E-04	3.64E-04	3.42E-04	3.00E-04	2.19E-04	7.37E-05
Avg	3.69E-04	3.67E-04	3.64E-04	3.48E-04	3.21E-04	2.75E-04	1.55E-04	2.01E-05
Std	6.84E-06	6.85E-06	6.99E-06	3.80E-05	5.28E-05	5.82E-05	8.57E-05	2.94E-05
ALL								
Min	3.61E-04	3.51E-04	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.81E-04	3.79E-04	3.75E-04	3.64E-04	3.42E-04	3.00E-04	2.19E-04	7.37E-05
Avg	3.69E-04	3.67E-04	3.64E-04	3.48E-04	3.21E-04	2.75E-04	1.55E-04	2.01E-05
Std	6.84E-06	6.85E-06	6.99E-06	3.80E-05	5.28E-05	5.82E-05	8.57E-05	2.94E-05

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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-241								
Min	1.73E-05	1.96E-05	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.95E-05	2.21E-05	2.69E-05	4.05E-05	6.04E-05	6.58E-05	4.82E-05	1.58E-05
Avg	1.82E-05	2.07E-05	2.52E-05	3.74E-05	5.47E-05	5.80E-05	3.25E-05	4.22E-06
Std	7.49E-07	8.51E-07	1.05E-06	4.32E-06	9.22E-06	1.25E-05	1.81E-05	6.20E-06
ALL								
Min	1.73E-05	1.96E-05	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.95E-05	2.21E-05	2.69E-05	4.05E-05	6.04E-05	6.58E-05	4.82E-05	1.58E-05
Avg	1.82E-05	2.07E-05	2.52E-05	3.74E-05	5.47E-05	5.80E-05	3.25E-05	4.22E-06
Std	7.49E-07	8.51E-07	1.05E-06	4.32E-06	9.22E-06	1.25E-05	1.81E-05	6.20E-06

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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-241								
Min	9.69E-04	9.54E-04	9.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	9.94E-04	1.03E-03	1.09E-03	1.27E-03	1.52E-03	1.52E-03	1.11E-03	3.60E-04
Avg	9.94E-04	1.03E-03	1.09E-03	1.25E-03	1.47E-03	1.44E-03	8.17E-04	1.05E-04
Std	7.26E-07	2.13E-06	5.14E-06	1.35E-04	2.40E-04	3.03E-04	4.52E-04	1.54E-04
ALL								
Min	9.69E-04	9.54E-04	9.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	9.94E-04	1.03E-03	1.09E-03	1.27E-03	1.52E-03	1.52E-03	1.11E-03	3.60E-04
Avg	9.94E-04	1.03E-03	1.09E-03	1.25E-03	1.47E-03	1.44E-03	8.17E-04	1.05E-04
Std	7.26E-07	2.13E-06	5.14E-06	1.35E-04	2.40E-04	3.03E-04	4.52E-04	1.54E-04

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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
<hr/>								
Pu-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-10	2.19E-09
Max	0.00E+00	0.00E+00	2.34E-07	1.44E-05	1.74E-04	3.18E-04	2.85E-04	2.09E-04
Avg	0.00E+00	0.00E+00	2.59E-10	3.79E-08	5.38E-07	2.65E-06	1.09E-05	1.85E-05
Std	0.00E+00	0.00E+00	7.23E-09	5.65E-07	5.72E-06	1.17E-05	1.94E-05	2.47E-05
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-10	2.19E-09
Max	0.00E+00	0.00E+00	2.34E-07	1.44E-05	1.74E-04	3.18E-04	2.85E-04	2.09E-04
Avg	0.00E+00	0.00E+00	2.59E-10	3.79E-08	5.38E-07	2.65E-06	1.09E-05	1.85E-05
Std	0.00E+00	0.00E+00	7.23E-09	5.65E-07	5.72E-06	1.17E-05	1.94E-05	2.47E-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
<hr/>								
Pu-241								
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/>								
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
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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-241								
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-241.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-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-11	8.29E-11
Max	0.00E+00	0.00E+00	1.50E-08	1.57E-06	1.09E-05	2.87E-05	4.68E-05	2.53E-05
Avg	0.00E+00	0.00E+00	1.29E-11	2.63E-09	4.16E-08	2.42E-07	9.87E-07	1.67E-06
Std	0.00E+00	0.00E+00	4.03E-10	4.62E-08	4.21E-07	1.13E-06	1.99E-06	2.46E-06
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-11	8.29E-11
Max	0.00E+00	0.00E+00	1.50E-08	1.57E-06	1.09E-05	2.87E-05	4.68E-05	2.53E-05
Avg	0.00E+00	0.00E+00	1.29E-11	2.63E-09	4.16E-08	2.42E-07	9.87E-07	1.67E-06
Std	0.00E+00	0.00E+00	4.03E-10	4.62E-08	4.21E-07	1.13E-06	1.99E-06	2.46E-06

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-241.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
Pu-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-12	6.38E-12
Max	0.00E+00	0.00E+00	1.74E-10	1.75E-08	2.11E-07	3.43E-07	1.24E-06	2.70E-06
Avg	0.00E+00	0.00E+00	2.19E-13	5.01E-11	1.39E-09	2.37E-08	1.49E-07	2.54E-07
Std	0.00E+00	0.00E+00	6.00E-12	6.24E-10	6.85E-09	3.22E-08	1.81E-07	3.46E-07
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-12	6.38E-12
Max	0.00E+00	0.00E+00	1.74E-10	1.75E-08	2.11E-07	3.43E-07	1.24E-06	2.70E-06
Avg	0.00E+00	0.00E+00	2.19E-13	5.01E-11	1.39E-09	2.37E-08	1.49E-07	2.54E-07
Std	0.00E+00	0.00E+00	6.00E-12	6.24E-10	6.85E-09	3.22E-08	1.81E-07	3.46E-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-241.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
<hr/>								
Pu-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-13	9.47E-13
Max	0.00E+00	0.00E+00	1.50E-11	1.34E-09	1.74E-08	5.59E-08	9.60E-08	1.53E-07
Avg	0.00E+00	0.00E+00	1.99E-14	3.92E-12	1.03E-10	1.55E-09	9.00E-09	1.53E-08
Std	0.00E+00	0.00E+00	5.43E-13	4.90E-11	6.14E-10	2.82E-09	1.13E-08	2.03E-08
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ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-13	9.47E-13
Max	0.00E+00	0.00E+00	1.50E-11	1.34E-09	1.74E-08	5.59E-08	9.60E-08	1.53E-07
Avg	0.00E+00	0.00E+00	1.99E-14	3.92E-12	1.03E-10	1.55E-09	9.00E-09	1.53E-08
Std	0.00E+00	0.00E+00	5.43E-13	4.90E-11	6.14E-10	2.82E-09	1.13E-08	2.03E-08
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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-241.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	5.88E-03	6.10E-03	6.44E-03	7.23E-03	9.38E-04	4.82E-08	8.70E-08	9.99E-08
0.050	5.98E-03	6.19E-03	6.55E-03	7.55E-03	8.65E-03	6.31E-03	5.76E-07	2.26E-07
0.075	6.11E-03	6.33E-03	6.68E-03	7.69E-03	8.99E-03	7.11E-03	1.37E-06	4.46E-07
0.100	6.22E-03	6.44E-03	6.80E-03	7.83E-03	9.14E-03	7.58E-03	2.09E-06	6.93E-07
0.125	6.35E-03	6.57E-03	6.92E-03	7.96E-03	9.29E-03	8.06E-03	3.16E-06	9.12E-07
0.150	6.46E-03	6.67E-03	7.06E-03	8.13E-03	9.46E-03	8.43E-03	5.21E-06	1.18E-06
0.175	6.60E-03	6.82E-03	7.22E-03	8.31E-03	9.72E-03	8.68E-03	8.92E-06	1.56E-06
0.200	6.74E-03	6.95E-03	7.36E-03	8.47E-03	9.89E-03	8.89E-03	5.32E-05	2.07E-06
0.225	6.87E-03	7.09E-03	7.50E-03	8.65E-03	1.01E-02	9.12E-03	1.31E-03	2.45E-06
0.250	7.04E-03	7.28E-03	7.66E-03	8.86E-03	1.03E-02	9.32E-03	2.53E-03	2.80E-06
0.275	7.21E-03	7.43E-03	7.86E-03	9.09E-03	1.05E-02	9.52E-03	3.26E-03	3.42E-06
0.300	7.38E-03	7.64E-03	8.10E-03	9.30E-03	1.08E-02	9.79E-03	3.82E-03	4.04E-06
0.325	7.59E-03	7.83E-03	8.27E-03	9.54E-03	1.11E-02	1.00E-02	4.21E-03	4.89E-06
0.350	7.81E-03	8.07E-03	8.51E-03	9.77E-03	1.14E-02	1.03E-02	4.52E-03	5.80E-06
0.375	7.99E-03	8.26E-03	8.73E-03	1.01E-02	1.16E-02	1.05E-02	4.84E-03	6.70E-06
0.400	8.26E-03	8.52E-03	8.99E-03	1.03E-02	1.20E-02	1.09E-02	5.14E-03	7.62E-06
0.425	8.54E-03	8.80E-03	9.28E-03	1.07E-02	1.24E-02	1.11E-02	5.42E-03	8.56E-06
0.450	8.81E-03	9.10E-03	9.59E-03	1.10E-02	1.28E-02	1.15E-02	5.67E-03	9.77E-06
0.475	9.11E-03	9.37E-03	9.89E-03	1.14E-02	1.32E-02	1.18E-02	5.97E-03	1.10E-05
0.500	9.40E-03	9.68E-03	1.02E-02	1.17E-02	1.36E-02	1.22E-02	6.24E-03	1.26E-05
0.525	9.75E-03	1.00E-02	1.06E-02	1.22E-02	1.42E-02	1.26E-02	6.53E-03	1.51E-05
0.550	1.02E-02	1.04E-02	1.11E-02	1.28E-02	1.47E-02	1.30E-02	6.79E-03	1.71E-05
0.575	1.06E-02	1.09E-02	1.16E-02	1.34E-02	1.55E-02	1.35E-02	7.20E-03	2.10E-05
0.600	1.11E-02	1.14E-02	1.21E-02	1.39E-02	1.62E-02	1.42E-02	7.48E-03	2.61E-05
0.625	1.16E-02	1.20E-02	1.27E-02	1.45E-02	1.68E-02	1.50E-02	7.87E-03	3.53E-05
0.650	1.22E-02	1.26E-02	1.33E-02	1.54E-02	1.78E-02	1.57E-02	8.11E-03	1.60E-04
0.675	1.28E-02	1.32E-02	1.40E-02	1.62E-02	1.87E-02	1.65E-02	8.41E-03	4.95E-04
0.700	1.36E-02	1.40E-02	1.48E-02	1.70E-02	1.97E-02	1.73E-02	8.87E-03	8.49E-04
0.725	1.44E-02	1.49E-02	1.58E-02	1.81E-02	2.09E-02	1.83E-02	9.40E-03	1.07E-03
0.750	1.55E-02	1.60E-02	1.70E-02	1.91E-02	2.20E-02	1.92E-02	9.91E-03	1.42E-03
0.775	1.66E-02	1.72E-02	1.80E-02	2.08E-02	2.37E-02	2.08E-02	1.06E-02	2.03E-03
0.800	1.79E-02	1.84E-02	1.95E-02	2.24E-02	2.56E-02	2.21E-02	1.15E-02	2.32E-03
0.825	1.85E-02	1.91E-02	2.03E-02	2.36E-02	2.77E-02	2.45E-02	1.26E-02	2.54E-03
0.850	1.85E-02	1.92E-02	2.04E-02	2.37E-02	2.84E-02	2.68E-02	1.38E-02	2.76E-03
0.875	1.85E-02	1.92E-02	2.04E-02	2.38E-02	2.84E-02	2.82E-02	1.53E-02	3.07E-03
0.900	1.85E-02	1.92E-02	2.04E-02	2.38E-02	2.85E-02	2.84E-02	1.81E-02	3.58E-03
0.925	1.86E-02	1.92E-02	2.04E-02	2.38E-02	2.85E-02	2.85E-02	2.03E-02	4.34E-03
0.950	1.86E-02	1.92E-02	2.05E-02	2.38E-02	2.86E-02	2.86E-02	2.06E-02	5.70E-03
0.975	1.86E-02	1.93E-02	2.05E-02	2.39E-02	2.87E-02	2.87E-02	2.08E-02	6.63E-03
1.000	1.92E-02	1.98E-02	2.11E-02	2.46E-02	2.95E-02	2.95E-02	2.14E-02	6.91E-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-241.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	5.72E-03	1.88E-02	1.11E-02	9.37E-03	1.85E-02	1.86E-02	1.86E-02	1.87E-02
1.00E+00	5.92E-03	1.94E-02	1.15E-02	9.63E-03	1.92E-02	1.92E-02	1.93E-02	1.93E-02
1.06E+00	5.93E-03	1.95E-02	1.15E-02	9.65E-03	1.92E-02	1.93E-02	1.93E-02	1.94E-02
1.12E+00	5.95E-03	1.95E-02	1.15E-02	9.67E-03	1.93E-02	1.93E-02	1.93E-02	1.94E-02
1.19E+00	5.96E-03	1.96E-02	1.16E-02	9.69E-03	1.93E-02	1.94E-02	1.94E-02	1.95E-02
1.25E+00	5.97E-03	1.96E-02	1.16E-02	9.71E-03	1.94E-02	1.94E-02	1.94E-02	1.95E-02
1.33E+00	5.99E-03	1.96E-02	1.16E-02	9.74E-03	1.94E-02	1.94E-02	1.95E-02	1.95E-02
1.40E+00	6.00E-03	1.97E-02	1.16E-02	9.76E-03	1.94E-02	1.95E-02	1.95E-02	1.96E-02
1.49E+00	6.02E-03	1.97E-02	1.17E-02	9.78E-03	1.95E-02	1.95E-02	1.96E-02	1.97E-02
1.57E+00	6.03E-03	1.98E-02	1.17E-02	9.81E-03	1.96E-02	1.96E-02	1.96E-02	1.97E-02
1.66E+00	6.05E-03	1.99E-02	1.17E-02	9.84E-03	1.96E-02	1.97E-02	1.97E-02	1.98E-02
1.76E+00	6.07E-03	1.99E-02	1.18E-02	9.87E-03	1.97E-02	1.97E-02	1.98E-02	1.98E-02
1.86E+00	6.09E-03	2.00E-02	1.18E-02	9.89E-03	1.97E-02	1.98E-02	1.98E-02	1.99E-02
1.97E+00	6.11E-03	2.01E-02	1.18E-02	9.93E-03	1.98E-02	1.98E-02	1.99E-02	2.00E-02
2.09E+00	6.13E-03	2.01E-02	1.19E-02	9.96E-03	1.99E-02	1.99E-02	2.00E-02	2.00E-02
2.21E+00	6.08E-03	2.02E-02	1.19E-02	9.99E-03	1.99E-02	2.00E-02	2.00E-02	2.01E-02
2.24E+00	6.02E-03	2.03E-02	1.19E-02	1.00E-02	2.00E-02	2.01E-02	2.01E-02	2.02E-02
2.27E+00	5.96E-03	2.04E-02	1.20E-02	1.01E-02	2.01E-02	2.02E-02	2.02E-02	2.03E-02
2.26E+00	5.85E-03	2.04E-02	1.20E-02	1.01E-02	2.02E-02	2.02E-02	2.03E-02	2.03E-02
2.27E+00	5.63E-03	2.05E-02	1.21E-02	1.01E-02	2.03E-02	2.03E-02	2.04E-02	2.04E-02
2.93E+00	5.39E-03	2.06E-02	1.21E-02	1.02E-02	2.04E-02	2.04E-02	2.05E-02	2.05E-02
3.00E+00	5.29E-03	2.07E-02	1.22E-02	1.02E-02	2.04E-02	2.05E-02	2.05E-02	2.06E-02
3.10E+00	5.13E-03	2.07E-02	1.22E-02	1.02E-02	2.05E-02	2.05E-02	2.06E-02	2.06E-02
3.28E+00	4.86E-03	2.08E-02	1.23E-02	1.03E-02	2.06E-02	2.06E-02	2.07E-02	2.07E-02
3.48E+00	4.56E-03	2.09E-02	1.23E-02	1.03E-02	2.07E-02	2.07E-02	2.08E-02	2.08E-02
3.68E+00	4.20E-03	2.11E-02	1.24E-02	1.04E-02	2.08E-02	2.08E-02	2.09E-02	2.10E-02
3.89E+00	3.76E-03	2.12E-02	1.24E-02	1.04E-02	2.09E-02	2.10E-02	2.10E-02	2.11E-02
4.12E+00	3.23E-03	2.13E-02	1.25E-02	1.05E-02	2.10E-02	2.11E-02	2.11E-02	2.12E-02
4.36E+00	2.60E-03	2.14E-02	1.26E-02	1.06E-02	2.12E-02	2.12E-02	2.13E-02	2.13E-02
4.61E+00	1.87E-03	2.16E-02	1.26E-02	1.06E-02	2.13E-02	2.14E-02	2.14E-02	2.15E-02
4.88E+00	1.10E-03	2.17E-02	1.27E-02	1.07E-02	2.14E-02	2.15E-02	2.15E-02	2.16E-02
5.17E+00	4.94E-04	2.19E-02	1.28E-02	1.08E-02	2.16E-02	2.16E-02	2.17E-02	2.18E-02
5.47E+00	1.06E-04	2.20E-02	1.29E-02	1.09E-02	2.17E-02	2.18E-02	2.18E-02	2.19E-02
5.78E+00	3.19E-08	2.22E-02	1.30E-02	1.09E-02	2.19E-02	2.20E-02	2.20E-02	2.21E-02
6.12E+00	0.00E+00	2.24E-02	1.31E-02	1.10E-02	2.21E-02	2.21E-02	2.22E-02	2.22E-02
6.48E+00	0.00E+00	2.25E-02	1.31E-02	1.11E-02	2.22E-02	2.23E-02	2.23E-02	2.24E-02
6.86E+00	0.00E+00	2.27E-02	1.32E-02	1.12E-02	2.24E-02	2.25E-02	2.25E-02	2.26E-02
7.26E+00	0.00E+00	2.29E-02	1.33E-02	1.13E-02	2.26E-02	2.27E-02	2.27E-02	2.28E-02
7.68E+00	0.00E+00	2.31E-02	1.34E-02	1.13E-02	2.28E-02	2.29E-02	2.29E-02	2.30E-02
8.13E+00	0.00E+00	2.33E-02	1.35E-02	1.14E-02	2.30E-02	2.31E-02	2.31E-02	2.32E-02
8.60E+00	0.00E+00	2.35E-02	1.37E-02	1.15E-02	2.32E-02	2.33E-02	2.33E-02	2.34E-02
9.10E+00	0.00E+00	2.37E-02	1.38E-02	1.16E-02	2.34E-02	2.35E-02	2.35E-02	2.36E-02
9.63E+00	0.00E+00	2.40E-02	1.39E-02	1.17E-02	2.36E-02	2.37E-02	2.37E-02	2.38E-02
1.00E+01	0.00E+00	2.41E-02	1.40E-02	1.18E-02	2.38E-02	2.38E-02	2.39E-02	2.40E-02
1.02E+01	0.00E+00	2.42E-02	1.40E-02	1.18E-02	2.39E-02	2.39E-02	2.40E-02	2.40E-02
1.08E+01	0.00E+00	2.44E-02	1.41E-02	1.19E-02	2.41E-02	2.42E-02	2.42E-02	2.43E-02
1.14E+01	0.00E+00	2.46E-02	1.42E-02	1.20E-02	2.43E-02	2.44E-02	2.44E-02	2.45E-02
1.21E+01	0.00E+00	2.49E-02	1.44E-02	1.21E-02	2.46E-02	2.46E-02	2.47E-02	2.48E-02
1.28E+01	0.00E+00	2.51E-02	1.45E-02	1.22E-02	2.48E-02	2.49E-02	2.49E-02	2.50E-02
1.35E+01	0.00E+00	2.54E-02	1.46E-02	1.23E-02	2.51E-02	2.51E-02	2.52E-02	2.52E-02
1.43E+01	0.00E+00	2.57E-02	1.47E-02	1.23E-02	2.53E-02	2.54E-02	2.54E-02	2.55E-02
1.51E+01	0.00E+00	2.59E-02	1.49E-02	1.25E-02	2.56E-02	2.56E-02	2.57E-02	2.58E-02
1.60E+01	0.00E+00	2.62E-02	1.50E-02	1.26E-02	2.58E-02	2.59E-02	2.59E-02	2.60E-02
1.70E+01	0.00E+00	2.64E-02	1.51E-02	1.27E-02	2.61E-02	2.62E-02	2.62E-02	2.63E-02
1.80E+01	0.00E+00	2.67E-02	1.52E-02	1.28E-02	2.63E-02	2.64E-02	2.65E-02	2.65E-02
1.90E+01	0.00E+00	2.70E-02	1.54E-02	1.28E-02	2.66E-02	2.67E-02	2.67E-02	2.68E-02

2.01E+01 0.00E+00 2.72E-02 1.55E-02 1.29E-02 2.68E-02 2.69E-02 2.70E-02 2.70E-02

2.13E+01 0.00E+00 2.75E-02 1.56E-02 1.30E-02 2.71E-02 2.72E-02 2.72E-02 2.73E-02

2.25E+01 0.00E+00 2.77E-02 1.57E-02 1.31E-02 2.73E-02 2.74E-02 2.75E-02 2.75E-02

2.38E+01 0.00E+00 2.80E-02 1.58E-02 1.32E-02 2.76E-02 2.77E-02 2.77E-02 2.78E-02

2.52E+01 0.00E+00 2.82E-02 1.60E-02 1.33E-02 2.78E-02 2.79E-02 2.79E-02 2.80E-02

2.67E+01 0.00E+00 2.85E-02 1.61E-02 1.34E-02 2.80E-02 2.81E-02 2.82E-02 2.83E-02

2.82E+01 0.00E+00 2.87E-02 1.61E-02 1.35E-02 2.83E-02 2.83E-02 2.84E-02 2.85E-02

2.99E+01 0.00E+00 2.89E-02 1.62E-02 1.35E-02 2.85E-02 2.86E-02 2.86E-02 2.87E-02

3.00E+01 0.00E+00 2.89E-02 1.62E-02 1.35E-02 2.85E-02 2.86E-02 2.86E-02 2.87E-02

3.16E+01 0.00E+00 2.91E-02 1.63E-02 1.36E-02 2.87E-02 2.88E-02 2.88E-02 2.89E-02

3.35E+01 0.00E+00 2.93E-02 1.64E-02 1.37E-02 2.89E-02 2.89E-02 2.90E-02 2.91E-02

3.54E+01 0.00E+00 2.95E-02 1.64E-02 1.37E-02 2.90E-02 2.91E-02 2.92E-02 2.92E-02

3.75E+01 0.00E+00 2.96E-02 1.64E-02 1.38E-02 2.92E-02 2.93E-02 2.93E-02 2.94E-02

3.97E+01 0.00E+00 2.97E-02 1.65E-02 1.38E-02 2.93E-02 2.94E-02 2.95E-02 2.95E-02

4.20E+01 0.00E+00 2.99E-02 1.65E-02 1.38E-02 2.94E-02 2.95E-02 2.96E-02 2.96E-02

4.44E+01 4.31E-12 3.00E-02 1.65E-02 1.38E-02 2.95E-02 2.96E-02 2.97E-02 2.97E-02

4.70E+01 2.69E-11 3.00E-02 1.64E-02 1.38E-02 2.96E-02 2.97E-02 2.98E-02 2.98E-02

4.97E+01 4.39E-11 3.01E-02 1.64E-02 1.37E-02 2.97E-02 2.97E-02 2.98E-02 2.99E-02

5.26E+01 4.48E-11 3.01E-02 1.64E-02 1.37E-02 2.97E-02 2.98E-02 2.98E-02 2.99E-02

5.57E+01 4.59E-11 3.01E-02 1.63E-02 1.36E-02 2.97E-02 2.98E-02 2.99E-02 2.99E-02

5.90E+01 4.72E-11 3.01E-02 1.62E-02 1.36E-02 2.97E-02 2.98E-02 2.98E-02 2.99E-02

6.24E+01 4.88E-11 3.01E-02 1.61E-02 1.35E-02 2.96E-02 2.97E-02 2.98E-02 2.99E-02

60E+01 5.07E-11 3.00E-02 1.60E-02 1.34E-02 2.96E-02 2.97E-02 2.97E-02 2.98E-02

99E+01 5.28E-11 3.00E-02 1.59E-02 1.33E-02 2.95E-02 2.96E-02 2.97E-02 2.97E-02

7.39E+01 5.51E-11 2.98E-02 1.57E-02 1.32E-02 2.94E-02 2.95E-02 2.96E-02 2.96E-02

7.82E+01 5.76E-11 2.97E-02 1.55E-02 1.30E-02 2.92E-02 2.94E-02 2.94E-02 2.95E-02

8.28E+01 6.04E-11 2.96E-02 1.54E-02 1.28E-02 2.91E-02 2.92E-02 2.93E-02 2.94E-02

8.76E+01 6.35E-11 2.94E-02 1.52E-02 1.26E-02 2.89E-02 2.90E-02 2.91E-02 2.92E-02

9.27E+01 0.00E+00 2.92E-02 1.49E-02 1.24E-02 2.87E-02 2.88E-02 2.89E-02 2.90E-02

9.81E+01 0.00E+00 2.90E-02 1.47E-02 1.21E-02 2.85E-02 2.86E-02 2.87E-02 2.88E-02

1.00E+02 0.00E+00 2.89E-02 1.46E-02 1.21E-02 2.84E-02 2.85E-02 2.86E-02 2.87E-02

1.04E+02 0.00E+00 2.87E-02 1.45E-02 1.19E-02 2.82E-02 2.84E-02 2.85E-02 2.85E-02

1.10E+02 0.00E+00 2.85E-02 1.42E-02 1.17E-02 2.80E-02 2.81E-02 2.82E-02 2.83E-02

1.16E+02 0.00E+00 2.82E-02 1.39E-02 1.14E-02 2.77E-02 2.79E-02 2.79E-02 2.80E-02

1.23E+02 0.00E+00 2.79E-02 1.36E-02 1.12E-02 2.74E-02 2.76E-02 2.77E-02 2.77E-02

1.30E+02 0.00E+00 2.76E-02 1.33E-02 1.10E-02 2.70E-02 2.73E-02 2.74E-02 2.74E-02

1.38E+02 0.00E+00 2.72E-02 1.30E-02 1.06E-02 2.67E-02 2.69E-02 2.70E-02 2.71E-02

1.46E+02 0.00E+00 2.68E-02 1.27E-02 1.04E-02 2.63E-02 2.66E-02 2.67E-02 2.67E-02

1.54E+02 0.00E+00 2.65E-02 1.23E-02 1.01E-02 2.57E-02 2.62E-02 2.63E-02 2.64E-02

1.63E+02 0.00E+00 2.61E-02 1.19E-02 9.86E-03 2.52E-02 2.58E-02 2.60E-02 2.60E-02

1.73E+02 0.00E+00 2.57E-02 1.15E-02 9.51E-03 2.48E-02 2.54E-02 2.56E-02 2.56E-02

1.83E+02 3.59E-15 2.53E-02 1.11E-02 9.15E-03 2.40E-02 2.50E-02 2.52E-02 2.52E-02

1.94E+02 1.31E-10 2.49E-02 1.07E-02 8.74E-03 2.34E-02 2.46E-02 2.47E-02 2.48E-02

2.05E+02 1.38E-10 2.44E-02 1.02E-02 8.52E-03 2.28E-02 2.41E-02 2.42E-02 2.43E-02

2.17E+02 1.45E-10 2.40E-02 9.70E-03 8.23E-03 2.21E-02 2.36E-02 2.38E-02 2.38E-02

2.29E+02 1.52E-10 2.35E-02 9.23E-03 7.89E-03 2.12E-02 2.32E-02 2.33E-02 2.33E-02

2.43E+02 1.59E-10 2.30E-02 8.78E-03 7.54E-03 2.04E-02 2.26E-02 2.28E-02 2.29E-02

2.57E+02 1.67E-10 2.25E-02 8.33E-03 7.23E-03 1.97E-02 2.21E-02 2.23E-02 2.23E-02

2.72E+02 1.75E-10 2.19E-02 7.89E-03 6.80E-03 1.91E-02 2.16E-02 2.17E-02 2.18E-02

2.88E+02 1.83E-10 2.14E-02 7.46E-03 6.50E-03 1.81E-02 2.10E-02 2.12E-02 2.12E-02

3.00E+02 1.90E-10 2.09E-02 7.15E-03 6.24E-03 1.76E-02 2.06E-02 2.08E-02 2.08E-02

3.05E+02 1.92E-10 2.08E-02 7.03E-03 6.15E-03 1.73E-02 2.04E-02 2.06E-02 2.07E-02

3.22E+02 2.01E-10 2.02E-02 6.61E-03 5.82E-03 1.64E-02 1.98E-02 2.00E-02 2.01E-02

3.41E+02 2.10E-10 1.96E-02 6.21E-03 5.50E-03 1.56E-02 1.92E-02 1.94E-02 1.95E-02

3.61E+02 2.19E-10 1.90E-02 5.81E-03 5.07E-03 1.49E-02 1.86E-02 1.88E-02 1.89E-02

3.82E+02 2.29E-10 1.84E-02 5.42E-03 4.74E-03 1.41E-02 1.80E-02 1.82E-02 1.83E-02

4.04E+02 2.39E-10 1.77E-02 5.05E-03 4.37E-03 1.33E-02 1.73E-02 1.75E-02 1.76E-02

4.28E+02 2.49E-10 1.71E-02 4.69E-03 3.97E-03 1.27E-02 1.66E-02 1.69E-02 1.70E-02

4.53E+02 2.60E-10 1.64E-02 4.34E-03 3.56E-03 1.19E-02 1.59E-02 1.62E-02 1.63E-02

4.79E+02 2.71E-10 1.57E-02 4.01E-03 3.19E-03 1.12E-02 1.53E-02 1.55E-02 1.56E-02

5.07E+02 2.84E-10 1.50E-02 3.69E-03 2.80E-03 1.03E-02 1.45E-02 1.49E-02 1.49E-02

5.36E+02 2.97E-10 1.44E-02 3.39E-03 2.35E-03 9.70E-03 1.38E-02 1.42E-02 1.42E-02

5.68E+02 3.13E-10 1.37E-02 3.10E-03 1.91E-03 9.11E-03 1.31E-02 1.35E-02 1.36E-02

01E+02 3.31E-10 1.30E-02 2.82E-03 1.39E-03 8.63E-03 1.24E-02 1.27E-02 1.29E-02

6.36E+02 3.55E-10 1.23E-02 2.57E-03 7.31E-04 7.98E-03 1.14E-02 1.20E-02 1.22E-02

6.73E+02 3.89E-10 1.16E-02 2.32E-03 1.34E-04 7.49E-03 1.07E-02 1.13E-02 1.15E-02

7.12E+02 4.40E-10 1.09E-02 2.10E-03 3.47E-05 6.84E-03 1.00E-02 1.06E-02 1.08E-02

7.53E+02 5.24E-10 1.02E-02 1.88E-03 2.57E-05 6.31E-03 8.91E-03 9.93E-03 1.01E-02

7.97E+02 6.72E-10 9.48E-03 1.68E-03 2.29E-05 5.72E-03 8.30E-03 9.25E-03 9.41E-03

8.44E+02 9.49E-10 8.81E-03 1.50E-03 1.98E-05 5.31E-03 7.63E-03 8.58E-03 8.74E-03

8.93E+02 1.44E-09 8.16E-03 1.33E-03 1.70E-05 4.72E-03 7.00E-03 7.93E-03 8.08E-03

9.45E+02 2.52E-09 7.52E-03 1.17E-03 1.53E-05 4.26E-03 6.33E-03 7.29E-03 7.44E-03

1.00E+03 2.78E-09 6.90E-03 1.03E-03 1.30E-05 3.77E-03 5.64E-03 6.67E-03 6.82E-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-241.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	5.74E-03	1.92E-02	1.11E-02	9.41E-03	1.85E-02	1.86E-02	1.86E-02	1.87E-02
1.00E+00	5.95E-03	1.98E-02	1.15E-02	9.69E-03	1.92E-02	1.93E-02	1.93E-02	1.93E-02
1.06E+00	5.96E-03	1.99E-02	1.15E-02	9.70E-03	1.92E-02	1.93E-02	1.93E-02	1.94E-02
1.12E+00	5.97E-03	1.99E-02	1.15E-02	9.71E-03	1.93E-02	1.93E-02	1.94E-02	1.94E-02
1.19E+00	5.99E-03	2.00E-02	1.15E-02	9.73E-03	1.93E-02	1.94E-02	1.94E-02	1.94E-02
1.25E+00	6.00E-03	2.00E-02	1.16E-02	9.75E-03	1.94E-02	1.94E-02	1.95E-02	1.95E-02
1.33E+00	6.01E-03	2.01E-02	1.16E-02	9.77E-03	1.94E-02	1.95E-02	1.95E-02	1.95E-02
1.40E+00	6.02E-03	2.01E-02	1.16E-02	9.80E-03	1.95E-02	1.95E-02	1.95E-02	1.96E-02
1.49E+00	6.04E-03	2.02E-02	1.17E-02	9.82E-03	1.95E-02	1.96E-02	1.96E-02	1.96E-02
1.57E+00	6.05E-03	2.02E-02	1.17E-02	9.85E-03	1.96E-02	1.96E-02	1.97E-02	1.97E-02
1.66E+00	6.07E-03	2.03E-02	1.17E-02	9.87E-03	1.96E-02	1.97E-02	1.97E-02	1.98E-02
1.76E+00	5.99E-03	2.03E-02	1.17E-02	9.90E-03	1.97E-02	1.97E-02	1.98E-02	1.98E-02
1.86E+00	5.86E-03	2.04E-02	1.18E-02	9.93E-03	1.97E-02	1.98E-02	1.98E-02	1.99E-02
1.97E+00	5.73E-03	2.05E-02	1.18E-02	9.96E-03	1.98E-02	1.99E-02	1.99E-02	1.99E-02
2.09E+00	5.59E-03	2.05E-02	1.19E-02	1.00E-02	1.99E-02	1.99E-02	2.00E-02	2.00E-02
2.21E+00	5.44E-03	2.06E-02	1.19E-02	1.00E-02	1.99E-02	2.00E-02	2.00E-02	2.01E-02
2.24E+00	5.27E-03	2.07E-02	1.19E-02	1.01E-02	2.00E-02	2.01E-02	2.01E-02	2.02E-02
2.27E+00	5.10E-03	2.08E-02	1.20E-02	1.01E-02	2.01E-02	2.02E-02	2.02E-02	2.02E-02
2.262E+00	4.91E-03	2.09E-02	1.20E-02	1.01E-02	2.02E-02	2.02E-02	2.03E-02	2.03E-02
2.277E+00	4.68E-03	2.10E-02	1.21E-02	1.02E-02	2.03E-02	2.03E-02	2.04E-02	2.04E-02
2.293E+00	4.42E-03	2.11E-02	1.21E-02	1.02E-02	2.04E-02	2.04E-02	2.05E-02	2.05E-02
3.00E+00	4.30E-03	2.11E-02	1.21E-02	1.03E-02	2.04E-02	2.05E-02	2.05E-02	2.06E-02
3.10E+00	4.11E-03	2.12E-02	1.22E-02	1.03E-02	2.05E-02	2.05E-02	2.06E-02	2.06E-02
3.28E+00	3.76E-03	2.13E-02	1.22E-02	1.03E-02	2.06E-02	2.06E-02	2.07E-02	2.07E-02
3.48E+00	3.34E-03	2.14E-02	1.23E-02	1.04E-02	2.07E-02	2.07E-02	2.08E-02	2.08E-02
3.68E+00	2.88E-03	2.15E-02	1.24E-02	1.04E-02	2.08E-02	2.09E-02	2.09E-02	2.09E-02
3.89E+00	2.38E-03	2.16E-02	1.24E-02	1.05E-02	2.09E-02	2.10E-02	2.10E-02	2.11E-02
4.12E+00	1.85E-03	2.17E-02	1.25E-02	1.05E-02	2.10E-02	2.11E-02	2.11E-02	2.12E-02
4.36E+00	1.26E-03	2.19E-02	1.25E-02	1.05E-02	2.12E-02	2.12E-02	2.13E-02	2.13E-02
4.61E+00	7.08E-04	2.20E-02	1.26E-02	1.06E-02	2.13E-02	2.14E-02	2.14E-02	2.15E-02
4.88E+00	2.92E-04	2.22E-02	1.27E-02	1.07E-02	2.14E-02	2.15E-02	2.16E-02	2.16E-02
5.17E+00	4.25E-05	2.23E-02	1.28E-02	1.07E-02	2.16E-02	2.17E-02	2.17E-02	2.17E-02
5.47E+00	1.17E-08	2.25E-02	1.28E-02	1.08E-02	2.17E-02	2.18E-02	2.19E-02	2.19E-02
5.78E+00	0.00E+00	2.26E-02	1.29E-02	1.08E-02	2.19E-02	2.20E-02	2.20E-02	2.21E-02
6.12E+00	0.00E+00	2.28E-02	1.30E-02	1.09E-02	2.21E-02	2.21E-02	2.22E-02	2.22E-02
6.48E+00	0.00E+00	2.30E-02	1.31E-02	1.10E-02	2.22E-02	2.23E-02	2.24E-02	2.24E-02
6.86E+00	0.00E+00	2.32E-02	1.32E-02	1.11E-02	2.24E-02	2.25E-02	2.25E-02	2.26E-02
7.26E+00	0.00E+00	2.34E-02	1.33E-02	1.11E-02	2.26E-02	2.27E-02	2.27E-02	2.28E-02
7.68E+00	0.00E+00	2.36E-02	1.34E-02	1.12E-02	2.28E-02	2.29E-02	2.29E-02	2.30E-02
8.13E+00	0.00E+00	2.38E-02	1.35E-02	1.13E-02	2.30E-02	2.31E-02	2.31E-02	2.32E-02
8.60E+00	0.00E+00	2.40E-02	1.36E-02	1.14E-02	2.32E-02	2.33E-02	2.33E-02	2.34E-02
9.10E+00	0.00E+00	2.42E-02	1.37E-02	1.15E-02	2.34E-02	2.35E-02	2.35E-02	2.36E-02
9.63E+00	0.00E+00	2.44E-02	1.38E-02	1.16E-02	2.36E-02	2.37E-02	2.38E-02	2.38E-02
1.00E+01	0.00E+00	2.46E-02	1.39E-02	1.17E-02	2.38E-02	2.39E-02	2.39E-02	2.40E-02
1.02E+01	0.00E+00	2.47E-02	1.40E-02	1.17E-02	2.39E-02	2.39E-02	2.40E-02	2.40E-02
1.08E+01	0.00E+00	2.49E-02	1.41E-02	1.18E-02	2.41E-02	2.42E-02	2.42E-02	2.43E-02
1.14E+01	0.00E+00	2.52E-02	1.42E-02	1.19E-02	2.43E-02	2.44E-02	2.45E-02	2.45E-02
1.21E+01	0.00E+00	2.54E-02	1.43E-02	1.20E-02	2.46E-02	2.46E-02	2.47E-02	2.47E-02
1.28E+01	0.00E+00	2.57E-02	1.44E-02	1.21E-02	2.48E-02	2.49E-02	2.49E-02	2.50E-02
1.35E+01	0.00E+00	2.59E-02	1.46E-02	1.22E-02	2.51E-02	2.51E-02	2.52E-02	2.52E-02
1.43E+01	0.00E+00	2.62E-02	1.47E-02	1.23E-02	2.53E-02	2.54E-02	2.54E-02	2.55E-02
1.51E+01	0.00E+00	2.64E-02	1.48E-02	1.24E-02	2.56E-02	2.56E-02	2.57E-02	2.58E-02
1.60E+01	0.00E+00	2.67E-02	1.49E-02	1.25E-02	2.58E-02	2.59E-02	2.60E-02	2.60E-02
1.70E+01	0.00E+00	2.70E-02	1.51E-02	1.27E-02	2.61E-02	2.62E-02	2.62E-02	2.63E-02
1.80E+01	0.00E+00	2.72E-02	1.52E-02	1.27E-02	2.63E-02	2.64E-02	2.65E-02	2.65E-02
1.90E+01	0.00E+00	2.75E-02	1.53E-02	1.28E-02	2.66E-02	2.67E-02	2.67E-02	2.68E-02

2.01E+01 0.00E+00 2.78E-02 1.54E-02 1.30E-02 2.68E-02 2.69E-02 2.70E-02 2.71E-02

2.13E+01 0.00E+00 2.80E-02 1.56E-02 1.31E-02 2.71E-02 2.72E-02 2.73E-02 2.73E-02

2.25E+01 0.00E+00 2.83E-02 1.57E-02 1.32E-02 2.73E-02 2.74E-02 2.75E-02 2.76E-02

2.38E+01 0.00E+00 2.86E-02 1.58E-02 1.33E-02 2.76E-02 2.77E-02 2.78E-02 2.78E-02

2.52E+01 6.80E-13 2.88E-02 1.59E-02 1.34E-02 2.78E-02 2.79E-02 2.80E-02 2.81E-02

2.67E+01 9.57E-12 2.90E-02 1.60E-02 1.35E-02 2.81E-02 2.82E-02 2.82E-02 2.83E-02

2.82E+01 3.91E-11 2.93E-02 1.61E-02 1.36E-02 2.83E-02 2.84E-02 2.84E-02 2.85E-02

2.99E+01 1.01E-10 2.95E-02 1.62E-02 1.37E-02 2.85E-02 2.86E-02 2.87E-02 2.87E-02

3.00E+01 1.07E-10 2.95E-02 1.62E-02 1.37E-02 2.85E-02 2.86E-02 2.87E-02 2.87E-02

3.16E+01 1.14E-10 2.97E-02 1.62E-02 1.37E-02 2.87E-02 2.88E-02 2.89E-02 2.89E-02

3.35E+01 1.23E-10 2.99E-02 1.63E-02 1.38E-02 2.89E-02 2.90E-02 2.90E-02 2.91E-02

3.54E+01 1.34E-10 3.01E-02 1.63E-02 1.38E-02 2.90E-02 2.91E-02 2.92E-02 2.93E-02

3.75E+01 1.46E-10 3.02E-02 1.64E-02 1.39E-02 2.92E-02 2.93E-02 2.94E-02 2.94E-02

3.97E+01 1.61E-10 3.04E-02 1.64E-02 1.39E-02 2.93E-02 2.94E-02 2.95E-02 2.96E-02

4.20E+01 1.78E-10 3.05E-02 1.64E-02 1.39E-02 2.94E-02 2.95E-02 2.96E-02 2.97E-02

4.44E+01 1.97E-10 3.06E-02 1.64E-02 1.39E-02 2.95E-02 2.96E-02 2.97E-02 2.98E-02

4.70E+01 2.18E-10 3.07E-02 1.64E-02 1.39E-02 2.96E-02 2.97E-02 2.98E-02 2.99E-02

4.97E+01 2.42E-10 3.07E-02 1.64E-02 1.38E-02 2.97E-02 2.98E-02 2.98E-02 2.99E-02

5.26E+01 2.68E-10 3.08E-02 1.63E-02 1.37E-02 2.97E-02 2.98E-02 2.99E-02 3.00E-02

5.57E+01 2.97E-10 3.08E-02 1.62E-02 1.37E-02 2.97E-02 2.98E-02 2.99E-02 3.00E-02

5.90E+01 3.29E-10 3.08E-02 1.62E-02 1.36E-02 2.97E-02 2.98E-02 2.99E-02 3.00E-02

6.24E+01 3.63E-10 3.07E-02 1.61E-02 1.35E-02 2.96E-02 2.98E-02 2.98E-02 2.99E-02

6.0E+01 4.01E-10 3.07E-02 1.59E-02 1.34E-02 2.96E-02 2.97E-02 2.98E-02 2.99E-02

99E+01 4.41E-10 3.06E-02 1.58E-02 1.32E-02 2.95E-02 2.96E-02 2.97E-02 2.98E-02

7.39E+01 4.84E-10 3.05E-02 1.57E-02 1.31E-02 2.94E-02 2.95E-02 2.96E-02 2.97E-02

7.82E+01 5.31E-10 3.03E-02 1.55E-02 1.29E-02 2.93E-02 2.94E-02 2.95E-02 2.96E-02

8.28E+01 5.80E-10 3.02E-02 1.53E-02 1.27E-02 2.91E-02 2.93E-02 2.93E-02 2.94E-02

8.76E+01 6.33E-10 3.00E-02 1.51E-02 1.25E-02 2.89E-02 2.91E-02 2.92E-02 2.92E-02

9.27E+01 6.89E-10 2.98E-02 1.49E-02 1.23E-02 2.87E-02 2.89E-02 2.90E-02 2.90E-02

9.81E+01 7.48E-10 2.96E-02 1.47E-02 1.20E-02 2.85E-02 2.87E-02 2.88E-02 2.88E-02

1.00E+02 7.68E-10 2.95E-02 1.46E-02 1.20E-02 2.85E-02 2.86E-02 2.87E-02 2.87E-02

1.04E+02 8.10E-10 2.94E-02 1.45E-02 1.18E-02 2.83E-02 2.84E-02 2.85E-02 2.86E-02

1.10E+02 8.76E-10 2.91E-02 1.42E-02 1.15E-02 2.80E-02 2.82E-02 2.83E-02 2.83E-02

1.16E+02 9.46E-10 2.88E-02 1.40E-02 1.13E-02 2.77E-02 2.79E-02 2.80E-02 2.80E-02

1.23E+02 1.02E-09 2.85E-02 1.37E-02 1.10E-02 2.74E-02 2.76E-02 2.77E-02 2.78E-02

1.30E+02 0.00E+00 2.82E-02 1.34E-02 1.08E-02 2.71E-02 2.73E-02 2.74E-02 2.74E-02

1.38E+02 0.00E+00 2.79E-02 1.31E-02 1.05E-02 2.68E-02 2.70E-02 2.70E-02 2.71E-02

1.46E+02 0.00E+00 2.75E-02 1.27E-02 1.03E-02 2.64E-02 2.66E-02 2.67E-02 2.68E-02

1.54E+02 0.00E+00 2.71E-02 1.24E-02 1.00E-02 2.61E-02 2.63E-02 2.63E-02 2.64E-02

1.63E+02 0.00E+00 2.67E-02 1.20E-02 9.77E-03 2.56E-02 2.59E-02 2.60E-02 2.60E-02

1.73E+02 0.00E+00 2.63E-02 1.16E-02 9.44E-03 2.52E-02 2.55E-02 2.56E-02 2.56E-02

1.83E+02 0.00E+00 2.59E-02 1.12E-02 9.17E-03 2.48E-02 2.51E-02 2.52E-02 2.52E-02

1.94E+02 0.00E+00 2.55E-02 1.08E-02 8.83E-03 2.42E-02 2.46E-02 2.47E-02 2.48E-02

2.05E+02 3.64E-13 2.50E-02 1.03E-02 8.56E-03 2.38E-02 2.42E-02 2.43E-02 2.43E-02

2.17E+02 1.94E-09 2.45E-02 9.82E-03 8.21E-03 2.32E-02 2.37E-02 2.38E-02 2.39E-02

2.29E+02 2.07E-09 2.40E-02 9.35E-03 7.87E-03 2.27E-02 2.32E-02 2.33E-02 2.34E-02

2.43E+02 2.19E-09 2.35E-02 8.88E-03 7.47E-03 2.22E-02 2.27E-02 2.28E-02 2.29E-02

2.57E+02 2.32E-09 2.30E-02 8.42E-03 7.10E-03 2.11E-02 2.22E-02 2.23E-02 2.24E-02

2.72E+02 2.45E-09 2.24E-02 7.97E-03 6.82E-03 2.05E-02 2.16E-02 2.18E-02 2.19E-02

2.88E+02 2.58E-09 2.19E-02 7.53E-03 6.51E-03 1.98E-02 2.11E-02 2.12E-02 2.13E-02

3.00E+02 2.68E-09 2.14E-02 7.22E-03 6.25E-03 1.90E-02 2.07E-02 2.08E-02 2.09E-02

3.05E+02 2.71E-09 2.13E-02 7.11E-03 6.12E-03 1.87E-02 2.05E-02 2.06E-02 2.07E-02

3.22E+02 2.83E-09 2.07E-02 6.69E-03 5.67E-03 1.75E-02 1.99E-02 2.01E-02 2.02E-02

3.41E+02 2.92E-09 2.01E-02 6.27E-03 5.35E-03 1.69E-02 1.93E-02 1.95E-02 1.96E-02

3.61E+02 3.01E-09 1.94E-02 5.87E-03 4.89E-03 1.57E-02 1.87E-02 1.89E-02 1.90E-02

3.82E+02 3.10E-09 1.88E-02 5.48E-03 4.57E-03 1.48E-02 1.81E-02 1.82E-02 1.83E-02

4.04E+02 3.20E-09 1.81E-02 5.11E-03 4.23E-03 1.33E-02 1.74E-02 1.76E-02 1.77E-02

4.28E+02 3.30E-09 1.74E-02 4.74E-03 3.96E-03 1.24E-02 1.68E-02 1.69E-02 1.70E-02

4.53E+02 3.40E-09 1.67E-02 4.40E-03 3.59E-03 1.17E-02 1.61E-02 1.63E-02 1.64E-02

4.79E+02 3.50E-09 1.60E-02 4.06E-03 3.09E-03 1.11E-02 1.54E-02 1.56E-02 1.57E-02

5.07E+02 3.61E-09 1.53E-02 3.74E-03 2.71E-03 1.04E-02 1.48E-02 1.49E-02 1.50E-02

5.36E+02 3.71E-09 1.46E-02 3.43E-03 2.36E-03 9.95E-03 1.40E-02 1.42E-02 1.43E-02

5.68E+02 3.82E-09 1.39E-02 3.14E-03 1.79E-03 9.40E-03 1.33E-02 1.35E-02 1.36E-02

01E+02 3.92E-09 1.32E-02 2.86E-03 1.33E-03 8.61E-03 1.26E-02 1.28E-02 1.29E-02

6.36E+02 4.03E-09 1.24E-02 2.59E-03 7.60E-04 8.08E-03 1.19E-02 1.21E-02 1.22E-02

6.73E+02 4.13E-09 1.17E-02 2.35E-03 1.07E-04 7.50E-03 1.12E-02 1.14E-02 1.15E-02

7.12E+02 4.24E-09 1.10E-02 2.12E-03 3.64E-05 6.68E-03 1.05E-02 1.07E-02 1.08E-02

7.53E+02 4.34E-09 1.03E-02 1.90E-03 2.50E-05 6.14E-03 9.72E-03 9.96E-03 1.01E-02

7.97E+02 4.45E-09 9.59E-03 1.70E-03 2.11E-05 5.55E-03 9.01E-03 9.26E-03 9.39E-03

8.44E+02 4.55E-09 8.89E-03 1.51E-03 1.83E-05 5.02E-03 8.23E-03 8.59E-03 8.72E-03

8.93E+02 3.34E-09 8.21E-03 1.33E-03 1.53E-05 4.54E-03 7.59E-03 7.93E-03 8.06E-03

9.45E+02 3.08E-09 7.55E-03 1.17E-03 1.35E-05 4.09E-03 6.95E-03 7.29E-03 7.42E-03

1.00E+03 2.82E-09 6.91E-03 1.03E-03 1.20E-05 3.64E-03 6.34E-03 6.67E-03 6.80E-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-241.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	5.71E-03	1.89E-02	1.11E-02	9.42E-03	1.85E-02	1.86E-02	1.86E-02	1.87E-02
1.00E+00	5.64E-03	1.96E-02	1.15E-02	9.74E-03	1.92E-02	1.93E-02	1.93E-02	1.94E-02
1.06E+00	5.62E-03	1.96E-02	1.15E-02	9.74E-03	1.92E-02	1.93E-02	1.93E-02	1.94E-02
1.12E+00	5.61E-03	1.97E-02	1.15E-02	9.76E-03	1.93E-02	1.93E-02	1.94E-02	1.94E-02
1.19E+00	5.59E-03	1.97E-02	1.15E-02	9.78E-03	1.93E-02	1.94E-02	1.94E-02	1.95E-02
1.25E+00	5.57E-03	1.98E-02	1.16E-02	9.80E-03	1.94E-02	1.94E-02	1.95E-02	1.95E-02
1.33E+00	5.55E-03	1.98E-02	1.16E-02	9.82E-03	1.94E-02	1.95E-02	1.95E-02	1.96E-02
1.40E+00	5.53E-03	1.99E-02	1.16E-02	9.85E-03	1.95E-02	1.95E-02	1.96E-02	1.96E-02
1.49E+00	5.50E-03	1.99E-02	1.17E-02	9.87E-03	1.95E-02	1.96E-02	1.96E-02	1.97E-02
1.57E+00	5.48E-03	2.00E-02	1.17E-02	9.90E-03	1.96E-02	1.96E-02	1.97E-02	1.97E-02
1.66E+00	5.45E-03	2.00E-02	1.17E-02	9.93E-03	1.96E-02	1.97E-02	1.97E-02	1.98E-02
1.76E+00	5.42E-03	2.01E-02	1.17E-02	9.96E-03	1.97E-02	1.97E-02	1.98E-02	1.98E-02
1.86E+00	5.39E-03	2.02E-02	1.18E-02	9.95E-03	1.97E-02	1.98E-02	1.99E-02	1.99E-02
1.97E+00	5.36E-03	2.02E-02	1.18E-02	9.98E-03	1.98E-02	1.99E-02	1.99E-02	2.00E-02
2.09E+00	5.32E-03	2.03E-02	1.19E-02	1.00E-02	1.99E-02	1.99E-02	2.00E-02	2.00E-02
2.21E+00	5.29E-03	2.04E-02	1.19E-02	1.00E-02	1.99E-02	2.00E-02	2.01E-02	2.01E-02
2.34E+00	5.24E-03	2.05E-02	1.19E-02	1.01E-02	2.00E-02	2.01E-02	2.01E-02	2.02E-02
2.47E+00	5.20E-03	2.05E-02	1.20E-02	1.01E-02	2.01E-02	2.02E-02	2.02E-02	2.03E-02
2.62E+00	5.15E-03	2.06E-02	1.20E-02	1.01E-02	2.02E-02	2.03E-02	2.03E-02	2.04E-02
2.77E+00	5.10E-03	2.07E-02	1.21E-02	1.02E-02	2.03E-02	2.03E-02	2.04E-02	2.04E-02
2.93E+00	5.05E-03	2.08E-02	1.21E-02	1.02E-02	2.04E-02	2.04E-02	2.05E-02	2.05E-02
3.08E+00	5.02E-03	2.08E-02	1.21E-02	1.02E-02	2.04E-02	2.05E-02	2.05E-02	2.06E-02
3.310E+00	4.99E-03	2.09E-02	1.22E-02	1.03E-02	2.05E-02	2.05E-02	2.06E-02	2.06E-02
3.328E+00	4.93E-03	2.10E-02	1.22E-02	1.03E-02	2.06E-02	2.06E-02	2.07E-02	2.07E-02
3.48E+00	4.86E-03	2.11E-02	1.23E-02	1.04E-02	2.07E-02	2.07E-02	2.08E-02	2.09E-02
3.68E+00	4.78E-03	2.12E-02	1.24E-02	1.04E-02	2.08E-02	2.09E-02	2.09E-02	2.10E-02
3.89E+00	4.45E-03	2.14E-02	1.24E-02	1.05E-02	2.09E-02	2.10E-02	2.10E-02	2.11E-02
4.12E+00	3.62E-03	2.15E-02	1.25E-02	1.05E-02	2.10E-02	2.11E-02	2.12E-02	2.12E-02
4.36E+00	2.63E-03	2.16E-02	1.25E-02	1.06E-02	2.12E-02	2.12E-02	2.13E-02	2.13E-02
4.61E+00	1.56E-03	2.18E-02	1.26E-02	1.07E-02	2.13E-02	2.14E-02	2.14E-02	2.15E-02
4.88E+00	7.20E-04	2.19E-02	1.27E-02	1.07E-02	2.14E-02	2.15E-02	2.16E-02	2.16E-02
5.17E+00	1.73E-04	2.21E-02	1.28E-02	1.08E-02	2.16E-02	2.17E-02	2.17E-02	2.18E-02
5.47E+00	8.28E-08	2.22E-02	1.29E-02	1.09E-02	2.18E-02	2.18E-02	2.19E-02	2.19E-02
5.78E+00	0.00E+00	2.24E-02	1.29E-02	1.09E-02	2.19E-02	2.20E-02	2.20E-02	2.21E-02
6.12E+00	0.00E+00	2.25E-02	1.30E-02	1.10E-02	2.21E-02	2.21E-02	2.22E-02	2.23E-02
6.48E+00	0.00E+00	2.27E-02	1.31E-02	1.11E-02	2.23E-02	2.23E-02	2.24E-02	2.24E-02
6.86E+00	0.00E+00	2.29E-02	1.32E-02	1.12E-02	2.24E-02	2.25E-02	2.26E-02	2.26E-02
7.26E+00	0.00E+00	2.31E-02	1.33E-02	1.13E-02	2.26E-02	2.27E-02	2.27E-02	2.28E-02
7.68E+00	0.00E+00	2.33E-02	1.34E-02	1.13E-02	2.28E-02	2.29E-02	2.29E-02	2.30E-02
8.13E+00	0.00E+00	2.35E-02	1.35E-02	1.14E-02	2.30E-02	2.31E-02	2.31E-02	2.32E-02
8.60E+00	0.00E+00	2.37E-02	1.36E-02	1.15E-02	2.32E-02	2.33E-02	2.33E-02	2.34E-02
9.10E+00	0.00E+00	2.39E-02	1.37E-02	1.16E-02	2.34E-02	2.35E-02	2.35E-02	2.36E-02
9.63E+00	0.00E+00	2.41E-02	1.38E-02	1.17E-02	2.36E-02	2.37E-02	2.38E-02	2.38E-02
1.00E+01	0.00E+00	2.43E-02	1.39E-02	1.18E-02	2.38E-02	2.38E-02	2.39E-02	2.40E-02
1.02E+01	0.00E+00	2.44E-02	1.40E-02	1.19E-02	2.39E-02	2.39E-02	2.40E-02	2.41E-02
1.08E+01	0.00E+00	2.46E-02	1.41E-02	1.20E-02	2.41E-02	2.42E-02	2.42E-02	2.43E-02
1.14E+01	0.00E+00	2.48E-02	1.42E-02	1.21E-02	2.43E-02	2.44E-02	2.45E-02	2.45E-02
1.21E+01	0.00E+00	2.51E-02	1.43E-02	1.22E-02	2.46E-02	2.46E-02	2.47E-02	2.48E-02
1.28E+01	0.00E+00	2.53E-02	1.44E-02	1.23E-02	2.48E-02	2.49E-02	2.49E-02	2.50E-02
1.35E+01	0.00E+00	2.56E-02	1.46E-02	1.24E-02	2.50E-02	2.51E-02	2.52E-02	2.53E-02
1.43E+01	0.00E+00	2.58E-02	1.47E-02	1.25E-02	2.53E-02	2.54E-02	2.55E-02	2.55E-02
1.51E+01	0.00E+00	2.61E-02	1.48E-02	1.26E-02	2.56E-02	2.56E-02	2.57E-02	2.58E-02
1.60E+01	0.00E+00	2.64E-02	1.49E-02	1.27E-02	2.58E-02	2.59E-02	2.60E-02	2.60E-02
1.70E+01	0.00E+00	2.66E-02	1.51E-02	1.28E-02	2.61E-02	2.62E-02	2.62E-02	2.63E-02
1.80E+01	0.00E+00	2.69E-02	1.52E-02	1.29E-02	2.63E-02	2.64E-02	2.65E-02	2.66E-02
1.90E+01	0.00E+00	2.71E-02	1.53E-02	1.30E-02	2.66E-02	2.67E-02	2.67E-02	2.68E-02

2.01E+01 0.00E+00 2.74E-02 1.54E-02 1.31E-02 2.68E-02 2.69E-02 2.70E-02 2.71E-02

2.13E+01 0.00E+00 2.77E-02 1.56E-02 1.32E-02 2.71E-02 2.72E-02 2.73E-02 2.73E-02

2.25E+01 0.00E+00 2.79E-02 1.57E-02 1.33E-02 2.73E-02 2.74E-02 2.75E-02 2.76E-02

2.38E+01 0.00E+00 2.82E-02 1.58E-02 1.34E-02 2.76E-02 2.77E-02 2.78E-02 2.78E-02

2.52E+01 0.00E+00 2.84E-02 1.59E-02 1.35E-02 2.78E-02 2.79E-02 2.80E-02 2.81E-02

2.67E+01 0.00E+00 2.86E-02 1.60E-02 1.35E-02 2.80E-02 2.81E-02 2.82E-02 2.83E-02

2.82E+01 0.00E+00 2.89E-02 1.61E-02 1.36E-02 2.83E-02 2.84E-02 2.84E-02 2.85E-02

2.99E+01 0.00E+00 2.91E-02 1.62E-02 1.37E-02 2.85E-02 2.86E-02 2.87E-02 2.87E-02

3.00E+01 0.00E+00 2.91E-02 1.62E-02 1.37E-02 2.85E-02 2.86E-02 2.87E-02 2.88E-02

3.16E+01 0.00E+00 2.93E-02 1.62E-02 1.37E-02 2.87E-02 2.88E-02 2.89E-02 2.89E-02

3.35E+01 0.00E+00 2.95E-02 1.63E-02 1.38E-02 2.88E-02 2.90E-02 2.90E-02 2.91E-02

3.54E+01 0.00E+00 2.96E-02 1.63E-02 1.38E-02 2.90E-02 2.91E-02 2.92E-02 2.93E-02

3.75E+01 0.00E+00 2.98E-02 1.64E-02 1.39E-02 2.92E-02 2.93E-02 2.94E-02 2.95E-02

3.97E+01 0.00E+00 2.99E-02 1.64E-02 1.39E-02 2.93E-02 2.94E-02 2.95E-02 2.96E-02

4.20E+01 0.00E+00 3.00E-02 1.64E-02 1.40E-02 2.94E-02 2.95E-02 2.96E-02 2.97E-02

4.44E+01 0.00E+00 3.01E-02 1.64E-02 1.40E-02 2.95E-02 2.96E-02 2.97E-02 2.98E-02

4.70E+01 0.00E+00 3.02E-02 1.64E-02 1.40E-02 2.96E-02 2.97E-02 2.98E-02 2.99E-02

4.97E+01 0.00E+00 3.03E-02 1.64E-02 1.40E-02 2.96E-02 2.98E-02 2.98E-02 3.00E-02

5.26E+01 0.00E+00 3.03E-02 1.63E-02 1.40E-02 2.97E-02 2.98E-02 2.99E-02 3.00E-02

5.57E+01 0.00E+00 3.03E-02 1.63E-02 1.39E-02 2.97E-02 2.98E-02 2.99E-02 3.00E-02

5.90E+01 0.00E+00 3.03E-02 1.62E-02 1.38E-02 2.96E-02 2.98E-02 2.99E-02 3.00E-02

6.24E+01 0.00E+00 3.03E-02 1.61E-02 1.37E-02 2.96E-02 2.98E-02 2.99E-02 3.00E-02

6.60E+01 0.00E+00 3.00E-02 1.60E-02 1.36E-02 2.95E-02 2.97E-02 2.98E-02 2.99E-02

99E+01 0.00E+00 2.99E-02 1.59E-02 1.36E-02 2.95E-02 2.96E-02 2.97E-02 2.98E-02

7.39E+01 0.00E+00 2.98E-02 1.57E-02 1.34E-02 2.93E-02 2.95E-02 2.96E-02 2.97E-02

7.82E+01 0.00E+00 2.97E-02 1.56E-02 1.33E-02 2.92E-02 2.94E-02 2.95E-02 2.96E-02

8.28E+01 0.00E+00 2.96E-02 1.54E-02 1.31E-02 2.91E-02 2.92E-02 2.93E-02 2.94E-02

8.76E+01 0.00E+00 2.94E-02 1.52E-02 1.29E-02 2.89E-02 2.91E-02 2.92E-02 2.93E-02

9.27E+01 0.00E+00 2.92E-02 1.50E-02 1.27E-02 2.87E-02 2.89E-02 2.90E-02 2.91E-02

9.81E+01 0.00E+00 2.90E-02 1.48E-02 1.24E-02 2.85E-02 2.87E-02 2.87E-02 2.89E-02

1.00E+02 0.00E+00 2.89E-02 1.47E-02 1.23E-02 2.84E-02 2.86E-02 2.87E-02 2.88E-02

1.04E+02 0.00E+00 2.88E-02 1.45E-02 1.22E-02 2.82E-02 2.84E-02 2.85E-02 2.86E-02

1.10E+02 0.00E+00 2.85E-02 1.43E-02 1.20E-02 2.79E-02 2.82E-02 2.83E-02 2.84E-02

1.16E+02 0.00E+00 2.82E-02 1.40E-02 1.17E-02 2.77E-02 2.79E-02 2.80E-02 2.81E-02

1.23E+02 0.00E+00 2.79E-02 1.37E-02 1.15E-02 2.74E-02 2.76E-02 2.77E-02 2.78E-02

1.30E+02 0.00E+00 2.76E-02 1.34E-02 1.11E-02 2.71E-02 2.73E-02 2.74E-02 2.75E-02

1.38E+02 0.00E+00 2.73E-02 1.31E-02 1.08E-02 2.67E-02 2.70E-02 2.71E-02 2.72E-02

1.46E+02 0.00E+00 2.70E-02 1.27E-02 1.06E-02 2.63E-02 2.66E-02 2.67E-02 2.68E-02

1.54E+02 0.00E+00 2.66E-02 1.23E-02 1.03E-02 2.60E-02 2.63E-02 2.64E-02 2.65E-02

1.63E+02 1.54E-11 2.62E-02 1.20E-02 1.00E-02 2.56E-02 2.59E-02 2.60E-02 2.61E-02

1.73E+02 9.07E-11 2.58E-02 1.16E-02 9.81E-03 2.52E-02 2.55E-02 2.56E-02 2.57E-02

1.83E+02 1.20E-10 2.54E-02 1.12E-02 9.46E-03 2.48E-02 2.51E-02 2.52E-02 2.53E-02

1.94E+02 1.60E-10 2.50E-02 1.07E-02 9.10E-03 2.41E-02 2.46E-02 2.47E-02 2.49E-02

2.05E+02 2.09E-10 2.45E-02 1.03E-02 8.74E-03 2.33E-02 2.42E-02 2.43E-02 2.44E-02

2.17E+02 2.64E-10 2.41E-02 9.80E-03 8.45E-03 2.26E-02 2.37E-02 2.38E-02 2.40E-02

2.29E+02 3.24E-10 2.36E-02 9.34E-03 8.11E-03 2.19E-02 2.32E-02 2.33E-02 2.35E-02

2.43E+02 3.88E-10 2.31E-02 8.89E-03 7.69E-03 2.10E-02 2.27E-02 2.28E-02 2.30E-02

2.57E+02 4.56E-10 2.26E-02 8.45E-03 7.27E-03 2.04E-02 2.22E-02 2.23E-02 2.24E-02

2.72E+02 5.26E-10 2.20E-02 8.00E-03 6.95E-03 1.94E-02 2.16E-02 2.18E-02 2.19E-02

2.88E+02 5.99E-10 2.15E-02 7.56E-03 6.56E-03 1.86E-02 2.11E-02 2.12E-02 2.13E-02

3.00E+02 6.54E-10 2.11E-02 7.24E-03 6.23E-03 1.83E-02 2.06E-02 2.08E-02 2.09E-02

3.05E+02 6.74E-10 2.09E-02 7.13E-03 6.13E-03 1.81E-02 2.04E-02 2.06E-02 2.08E-02

3.22E+02 7.52E-10 2.03E-02 6.71E-03 5.75E-03 1.75E-02 1.98E-02 2.01E-02 2.01E-02

3.41E+02 8.31E-10 1.97E-02 6.29E-03 5.48E-03 1.63E-02 1.91E-02 1.95E-02 1.95E-02

3.61E+02 9.13E-10 1.91E-02 5.89E-03 5.04E-03 1.48E-02 1.85E-02 1.88E-02 1.89E-02

3.82E+02 9.97E-10 1.85E-02 5.49E-03 4.67E-03 1.40E-02 1.79E-02 1.82E-02 1.83E-02

4.04E+02 1.08E-09 1.78E-02 5.11E-03 4.37E-03 1.31E-02 1.73E-02 1.76E-02 1.76E-02

4.28E+02 1.17E-09 1.72E-02 4.73E-03 4.06E-03 1.22E-02 1.66E-02 1.69E-02 1.70E-02

4.53E+02 1.26E-09 1.65E-02 4.37E-03 3.72E-03 1.12E-02 1.60E-02 1.62E-02 1.63E-02

4.79E+02 1.35E-09 1.58E-02 4.02E-03 3.30E-03 1.03E-02 1.53E-02 1.55E-02 1.56E-02

5.07E+02 1.44E-09 1.51E-02 3.69E-03 2.89E-03 9.75E-03 1.45E-02 1.48E-02 1.49E-02

5.36E+02 1.53E-09 1.45E-02 3.37E-03 2.51E-03 9.28E-03 1.34E-02 1.41E-02 1.42E-02

5.68E+02 1.62E-09 1.37E-02 3.06E-03 2.02E-03 8.82E-03 1.24E-02 1.34E-02 1.35E-02

01E+02 1.72E-09 1.30E-02 2.78E-03 1.32E-03 8.00E-03 1.15E-02 1.26E-02 1.28E-02

6.36E+02 1.81E-09 1.23E-02 2.52E-03 8.08E-04 7.56E-03 1.08E-02 1.19E-02 1.21E-02

6.73E+02 1.90E-09 1.16E-02 2.27E-03 1.05E-04 6.75E-03 1.01E-02 1.12E-02 1.14E-02

7.12E+02 2.00E-09 1.09E-02 2.04E-03 2.72E-05 6.21E-03 9.44E-03 1.04E-02 1.07E-02

7.53E+02 2.09E-09 1.02E-02 1.82E-03 2.37E-05 5.71E-03 8.76E-03 9.76E-03 1.00E-02

7.97E+02 2.18E-09 9.53E-03 1.62E-03 2.08E-05 5.29E-03 8.11E-03 9.09E-03 9.35E-03

8.44E+02 2.27E-09 8.85E-03 1.44E-03 1.89E-05 4.83E-03 7.48E-03 8.42E-03 8.67E-03

93E+02 2.36E-09 8.18E-03 1.27E-03 1.75E-05 4.38E-03 6.86E-03 7.77E-03 8.02E-03

9.45E+02 2.44E-09 7.53E-03 1.12E-03 1.46E-05 3.77E-03 6.27E-03 7.14E-03 7.38E-03

1.00E+03 2.43E-09 6.88E-03 9.87E-04 1.27E-05 3.42E-03 5.69E-03 6.53E-03 6.75E-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-241.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	4.197E+01	1.647E-02
2	4.197E+01	1.641E-02
3	4.442E+01	1.642E-02

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-241.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	-0.38	2	-0.14	2	-0.64	2	-0.16
Contaminated zone b parameter	9	-0.03	10	-0.01	12	0.05	12	0.01
Evapotranspiration coefficient	13	0.02	13	0.01	11	0.06	11	0.01
Wind Speed	15	-0.01	15	0.00	6	-0.08	6	-0.02
Runoff coefficient	4	-0.06	4	-0.02	10	0.06	10	0.01
Well pump intake depth	11	-0.02	11	-0.01	9	0.07	9	0.01
b Parameter of Unsaturated zone 1	5	-0.06	5	-0.02	17	-0.01	17	0.00
Mass loading for inhalation	3	0.08	3	0.03	5	0.09	5	0.02
Indoor dust filtration factor	12	0.02	12	0.01	3	0.15	3	0.03
Depth of soil mixing layer	6	0.04	6	0.01	14	-0.03	14	-0.01
Depth of roots	1	-0.95	1	-0.94	1	-0.98	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	0.00	18	0.00	13	-0.03	13	-0.01
Weathering removal constant of all vegetation	14	0.02	14	0.00	16	-0.02	16	0.00
Wet foliar interception fraction of leafy vegetables	8	0.03	8	0.01	8	-0.08	8	-0.01
Humidity in air	16	0.01	17	0.00	18	0.00	18	0.00
Kd of Pu-241 in Contaminated Zone	7	0.04	7	0.01	4	0.14	4	0.03
Kd of Pu-241 in Unsaturated Zone 1	17	0.01	16	0.00	7	0.08	7	0.02
Kd of Pu-241 in Saturated Zone	10	0.02	9	0.01	15	0.02	15	0.00
R-SQUARE		0.90		0.90		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.

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-241.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	2 -0.40	2 -0.14	2 -0.69	2 -0.18
Contaminated zone b parameter	7 -0.06	7 -0.02	8 -0.08	8 -0.02
Evapotranspiration coefficient	10 0.05	10 0.01	6 0.09	6 0.02
Wind Speed	9 -0.05	9 -0.02	10 -0.06	10 -0.01
Runoff coefficient	8 0.05	8 0.02	14 0.03	14 0.01
Well pump intake depth	6 -0.08	6 -0.03	17 0.01	17 0.00
b Parameter of Unsaturated zone 1	5 -0.08	5 -0.03	15 0.02	15 0.00
Mass loading for inhalation	3 0.12	3 0.04	3 0.17	3 0.03
Indoor dust filtration factor	4 0.09	4 0.03	4 0.16	4 0.03
Depth of soil mixing layer	11 -0.04	11 -0.01	12 -0.05	12 -0.01
Depth of roots	1 -0.94	1 -0.93	1 -0.98	1 -0.96
Wet weight crop yield of fruit, grain and non-leafy vegetables	15 -0.02	15 -0.01	13 0.03	13 0.01
Weathering removal constant of all vegetation	16 0.02	16 0.01	9 0.06	9 0.01
Wet foliar interception fraction of leafy vegetables	14 0.02	14 0.01	7 0.09	7 0.02
Humidity in air	17 0.01	17 0.00	16 -0.01	16 0.00
Kd of Pu-241 in Contaminated Zone	18 -0.01	18 0.00	5 0.14	5 0.03
Kd of Pu-241 in Unsaturated Zone 1	12 -0.03	12 -0.01	18 0.00	18 0.00
Kd of Pu-241 in Saturated Zone	13 0.03	13 0.01	11 0.06	11 0.01
R-SQUARE	0.90	0.90	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.

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-241.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	2	-0.39	2	-0.13	2	-0.66	2	-0.16
Contaminated zone b parameter	9	-0.04	9	-0.01	17	0.01	17	0.00
Evapotranspiration coefficient	15	0.01	15	0.00	6	0.08	6	0.02
Wind Speed	5	-0.06	5	-0.02	8	-0.08	8	-0.01
Runoff coefficient	3	-0.06	3	-0.02	16	-0.02	16	0.00
Well pump intake depth	10	0.04	10	0.01	14	0.03	14	0.01
b Parameter of Unsaturated zone 1	16	0.00	16	0.00	15	0.02	15	0.00
Mass loading for inhalation	7	0.05	7	0.02	4	0.13	4	0.02
Indoor dust filtration factor	8	0.05	8	0.02	7	0.08	7	0.01
Depth of soil mixing layer	12	-0.03	12	-0.01	11	0.05	11	0.01
Depth of roots	1	-0.95	1	-0.94	1	-0.98	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	17	0.00	17	0.00	9	-0.06	9	-0.01
Weathering removal constant of all vegetation	6	-0.05	6	-0.02	5	-0.09	5	-0.02
Wet foliar interception fraction of leafy vegetables	13	-0.02	13	-0.01	12	0.04	12	0.01
Humidity in air	18	0.00	18	0.00	18	-0.01	18	0.00
Kd of Pu-241 in Contaminated Zone	11	0.03	11	0.01	3	0.16	3	0.03
Kd of Pu-241 in Unsaturated Zone 1	4	-0.06	4	-0.02	13	-0.04	13	-0.01
Kd of Pu-241 in Saturated Zone	14	0.02	14	0.01	10	-0.06	10	-0.01
R-SQUARE		0.90		0.90		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.