

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-239.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-239										
Min	0.00E+00	2.89E-01	2.89E-01	2.75E-01	1.96E-01	0.00E+00	0.00E+00	0.00E+00	1.72E-13	2.47E-11
Max	1.00E+03	4.13E+00	9.73E-01	9.73E-01	9.73E-01	9.72E-01	9.71E-01	9.67E-01	2.52E+00	3.89E+00
Avg	4.25E+01	5.88E-01	5.64E-01	5.62E-01	5.59E-01	5.47E-01	5.26E-01	4.68E-01	3.15E-01	1.66E-01
Std	1.94E+02	3.09E-01	2.36E-01	2.36E-01	2.37E-01	2.43E-01	2.49E-01	2.51E-01	2.83E-01	3.24E-01
ALL										
Min	0.00E+00	2.89E-01	2.89E-01	2.75E-01	1.96E-01	0.00E+00	0.00E+00	0.00E+00	1.72E-13	2.47E-11
Max	1.00E+03	4.13E+00	9.73E-01	9.73E-01	9.73E-01	9.72E-01	9.71E-01	9.67E-01	2.52E+00	3.89E+00
Avg	4.25E+01	5.88E-01	5.64E-01	5.62E-01	5.59E-01	5.47E-01	5.26E-01	4.68E-01	3.15E-01	1.66E-01
Std	1.94E+02	3.09E-01	2.36E-01	2.36E-01	2.37E-01	2.43E-01	2.49E-01	2.51E-01	2.83E-01	3.24E-01

ALL is total dose summed for all nuclides.

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
Pu-239									
Min		4.32E-07	4.31E-07	3.63E-07	0.00E+00	0.00E+00	0.00E+00	1.72E-19	7.61E-17
Max		1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.51E-06	2.93E-06	4.67E-06
Avg		8.49E-07	8.47E-07	8.42E-07	8.24E-07	7.92E-07	7.05E-07	4.71E-07	2.33E-07
Std		3.48E-07	3.48E-07	3.49E-07	3.59E-07	3.68E-07	3.71E-07	4.11E-07	4.30E-07
ALL									
Min		4.32E-07	4.31E-07	3.63E-07	0.00E+00	0.00E+00	0.00E+00	1.72E-19	7.61E-17
Max		1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.52E-06	1.51E-06	2.93E-06	4.67E-06
Avg		8.49E-07	8.47E-07	8.42E-07	8.24E-07	7.92E-07	7.05E-07	4.71E-07	2.33E-07
Std		3.48E-07	3.48E-07	3.49E-07	3.59E-07	3.68E-07	3.71E-07	4.11E-07	4.30E-07

ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

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-239									
Min		1.37E-04	1.30E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.40E-04	1.37E-04
Avg		1.41E-04	1.41E-04	1.41E-04	1.39E-04	1.36E-04	1.31E-04	1.02E-04	3.86E-05
Std		1.05E-07	3.09E-07	6.91E-07	1.43E-05	2.19E-05	2.85E-05	5.40E-05	5.54E-05
ΣALL									
Min		1.37E-04	1.30E-04	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.41E-04	1.40E-04	1.37E-04
Avg		1.41E-04	1.41E-04	1.41E-04	1.39E-04	1.36E-04	1.31E-04	1.02E-04	3.86E-05
Std		1.05E-07	3.09E-07	6.91E-07	1.43E-05	2.19E-05	2.85E-05	5.40E-05	5.54E-05
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ΣALL 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							
(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-239									
Min		1.63E-05	1.63E-05	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.62E-02	3.62E-02	3.62E-02	3.62E-02	3.62E-02	3.60E-02	3.55E-02	3.40E-02
Avg		5.84E-03	5.84E-03	5.84E-03	5.76E-03	5.64E-03	5.44E-03	4.02E-03	1.49E-03
Std		3.55E-03	3.55E-03	3.55E-03	3.57E-03	3.59E-03	3.59E-03	3.71E-03	2.88E-03
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ΣALL									
Min		1.63E-05	1.63E-05	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.62E-02	3.62E-02	3.62E-02	3.62E-02	3.62E-02	3.60E-02	3.55E-02	3.40E-02
Avg		5.84E-03	5.84E-03	5.84E-03	5.76E-03	5.64E-03	5.44E-03	4.02E-03	1.49E-03
Std		3.55E-03	3.55E-03	3.55E-03	3.57E-03	3.59E-03	3.59E-03	3.71E-03	2.88E-03
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ΣALL is total pathway dose summed for all nuclides.

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-239									
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
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TOTAL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Plant (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-239									
Min		2.16E-01	2.01E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.68E-01	8.68E-01	8.67E-01	8.67E-01	8.66E-01	8.64E-01	8.58E-01	8.39E-01
Avg		4.88E-01	4.86E-01	4.82E-01	4.72E-01	4.52E-01	3.95E-01	2.46E-01	9.37E-02
Std		2.35E-01	2.35E-01	2.36E-01	2.41E-01	2.44E-01	2.44E-01	2.43E-01	1.87E-01
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U-235									
Min		2.16E-01	2.01E-01	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.68E-01	8.68E-01	8.67E-01	8.67E-01	8.66E-01	8.64E-01	8.58E-01	8.39E-01
Avg		4.88E-01	4.86E-01	4.82E-01	4.72E-01	4.52E-01	3.95E-01	2.46E-01	9.37E-02
Std		2.35E-01	2.35E-01	2.36E-01	2.41E-01	2.44E-01	2.44E-01	2.43E-01	1.87E-01
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ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Meat (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-239									
Min		1.87E-02	1.82E-02	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.96E-02	1.95E-02	1.91E-02
Avg		1.91E-02	1.91E-02	1.91E-02	1.88E-02	1.84E-02	1.77E-02	1.31E-02	4.65E-03
Std		3.54E-04	3.56E-04	3.69E-04	2.06E-03	3.06E-03	3.88E-03	7.47E-03	7.11E-03
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U-235									
Min		1.87E-02	1.82E-02	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.97E-02	1.96E-02	1.95E-02	1.91E-02
Avg		1.91E-02	1.91E-02	1.91E-02	1.88E-02	1.84E-02	1.77E-02	1.31E-02	4.65E-03
Std		3.54E-04	3.56E-04	3.69E-04	2.06E-03	3.06E-03	3.88E-03	7.47E-03	7.11E-03
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Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Milk (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-239									
Min		8.35E-04	8.32E-04	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.37E-04	9.37E-04	9.37E-04	9.37E-04	9.36E-04	9.34E-04	9.27E-04	9.07E-04
Avg		8.78E-04	8.77E-04	8.76E-04	8.63E-04	8.44E-04	8.07E-04	5.93E-04	2.11E-04
Std		3.61E-05	3.61E-05	3.65E-05	1.00E-04	1.44E-04	1.80E-04	3.40E-04	3.24E-04
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ALL									
Min		8.35E-04	8.32E-04	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.37E-04	9.37E-04	9.37E-04	9.37E-04	9.36E-04	9.34E-04	9.27E-04	9.07E-04
Avg		8.78E-04	8.77E-04	8.76E-04	8.63E-04	8.44E-04	8.07E-04	5.93E-04	2.11E-04
Std		3.61E-05	3.61E-05	3.65E-05	1.00E-04	1.44E-04	1.80E-04	3.40E-04	3.24E-04
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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							
(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-239									
Min		4.92E-02	4.66E-02	4.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.05E-02	5.05E-02	5.05E-02	5.05E-02	5.05E-02	5.04E-02	5.01E-02	4.91E-02
Avg		5.05E-02	5.05E-02	5.05E-02	4.97E-02	4.87E-02	4.70E-02	3.49E-02	1.24E-02
Std		3.77E-05	1.11E-04	2.65E-04	5.37E-03	8.03E-03	1.02E-02	1.99E-02	1.89E-02
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ALL									
Min		4.92E-02	4.66E-02	4.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.05E-02	5.05E-02	5.05E-02	5.05E-02	5.05E-02	5.04E-02	5.01E-02	4.91E-02
Avg		5.05E-02	5.05E-02	5.05E-02	4.97E-02	4.87E-02	4.70E-02	3.49E-02	1.24E-02
Std		3.77E-05	1.11E-04	2.65E-04	5.37E-03	8.03E-03	1.02E-02	1.99E-02	1.89E-02
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ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Water 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
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Pu-239									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-16	2.23E-11
Max		0.00E+00	0.00E+00	1.27E-05	1.18E-03	3.58E-02	3.08E-01	2.38E+00	3.49E+00
Avg		0.00E+00	0.00E+00	1.42E-08	2.86E-06	8.51E-05	1.75E-03	1.51E-02	4.83E-02
Std		0.00E+00	0.00E+00	3.95E-07	4.56E-05	1.11E-03	1.31E-02	1.03E-01	2.13E-01
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-16	2.23E-11
Max		0.00E+00	0.00E+00	1.27E-05	1.18E-03	3.58E-02	3.08E-01	2.38E+00	3.49E+00
Avg		0.00E+00	0.00E+00	1.42E-08	2.86E-06	8.51E-05	1.75E-03	1.51E-02	4.83E-02
Std		0.00E+00	0.00E+00	3.95E-07	4.56E-05	1.11E-03	1.31E-02	1.03E-01	2.13E-01
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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
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Pu-239									
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
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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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-239									
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
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TOTAL 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-239.RAD

Probabilistic Dose vs Pathway(i): Plant (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-239									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-17	1.90E-12
Max		0.00E+00	0.00E+00	8.30E-07	1.29E-04	2.23E-03	9.52E-02	4.34E-01	7.37E-01
Avg		0.00E+00	0.00E+00	7.13E-10	1.99E-07	6.60E-06	2.05E-04	1.62E-03	4.99E-03
Std		0.00E+00	0.00E+00	2.23E-08	3.73E-06	8.26E-05	2.67E-03	1.47E-02	3.23E-02
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-17	1.90E-12
Max		0.00E+00	0.00E+00	8.30E-07	1.29E-04	2.23E-03	9.52E-02	4.34E-01	7.37E-01
Avg		0.00E+00	0.00E+00	7.13E-10	1.99E-07	6.60E-06	2.05E-04	1.62E-03	4.99E-03
Std		0.00E+00	0.00E+00	2.23E-08	3.73E-06	8.26E-05	2.67E-03	1.47E-02	3.23E-02
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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-239.RAD

Probabilistic Dose vs Pathway(i): Meat (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-239									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-19	2.31E-13
Max		0.00E+00	0.00E+00	1.01E-08	1.45E-06	4.46E-05	5.09E-04	2.61E-03	4.98E-03
Avg		0.00E+00	0.00E+00	1.27E-11	3.19E-09	1.03E-07	2.26E-06	1.90E-05	6.05E-05
Std		0.00E+00	0.00E+00	3.49E-10	5.14E-08	1.38E-06	1.87E-05	1.31E-04	2.83E-04
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-19	2.31E-13
Max		0.00E+00	0.00E+00	1.01E-08	1.45E-06	4.46E-05	5.09E-04	2.61E-03	4.98E-03
Avg		0.00E+00	0.00E+00	1.27E-11	3.19E-09	1.03E-07	2.26E-06	1.90E-05	6.05E-05
Std		0.00E+00	0.00E+00	3.49E-10	5.14E-08	1.38E-06	1.87E-05	1.31E-04	2.83E-04
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ΣALL 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-239.RAD

Probabilistic Dose vs Pathway(i): Milk (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
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Pu-239									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-19	2.68E-13
Max		0.00E+00	0.00E+00	7.32E-10	1.03E-07	3.15E-06	3.98E-05	1.81E-04	3.70E-04
Avg		0.00E+00	0.00E+00	9.50E-13	2.18E-10	7.23E-09	1.61E-07	1.34E-06	4.26E-06
Std		0.00E+00	0.00E+00	2.60E-11	3.52E-09	9.79E-08	1.40E-06	9.37E-06	2.05E-05
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-19	2.68E-13
Max		0.00E+00	0.00E+00	7.32E-10	1.03E-07	3.15E-06	3.98E-05	1.81E-04	3.70E-04
Avg		0.00E+00	0.00E+00	9.50E-13	2.18E-10	7.23E-09	1.61E-07	1.34E-06	4.26E-06
Std		0.00E+00	0.00E+00	2.60E-11	3.52E-09	9.79E-08	1.40E-06	9.37E-06	2.05E-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-239.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	2.98E-01	2.98E-01	2.94E-01	2.81E-01	1.78E-02	1.54E-10	4.15E-10	3.44E-09
0.050	3.03E-01	3.02E-01	2.99E-01	2.94E-01	2.73E-01	1.81E-01	2.84E-09	1.06E-08
0.075	3.10E-01	3.09E-01	3.06E-01	2.99E-01	2.87E-01	2.20E-01	5.47E-09	1.83E-08
0.100	3.15E-01	3.15E-01	3.11E-01	3.04E-01	2.92E-01	2.32E-01	1.25E-08	3.05E-08
0.125	3.22E-01	3.21E-01	3.17E-01	3.10E-01	2.97E-01	2.49E-01	5.84E-05	4.79E-08
0.150	3.27E-01	3.26E-01	3.23E-01	3.17E-01	3.04E-01	2.60E-01	9.92E-04	7.28E-08
0.175	3.35E-01	3.33E-01	3.30E-01	3.24E-01	3.12E-01	2.69E-01	7.61E-03	1.60E-07
0.200	3.42E-01	3.39E-01	3.37E-01	3.30E-01	3.17E-01	2.78E-01	2.70E-02	2.68E-05
0.225	3.48E-01	3.47E-01	3.44E-01	3.38E-01	3.25E-01	2.85E-01	6.10E-02	1.41E-04
0.250	3.57E-01	3.56E-01	3.51E-01	3.46E-01	3.31E-01	2.93E-01	1.03E-01	2.92E-04
0.275	3.66E-01	3.63E-01	3.60E-01	3.55E-01	3.37E-01	3.01E-01	1.26E-01	5.90E-04
0.300	3.74E-01	3.73E-01	3.71E-01	3.63E-01	3.48E-01	3.08E-01	1.49E-01	1.03E-03
0.325	3.85E-01	3.83E-01	3.79E-01	3.73E-01	3.57E-01	3.16E-01	1.69E-01	1.42E-03
0.350	3.96E-01	3.95E-01	3.91E-01	3.82E-01	3.65E-01	3.25E-01	1.83E-01	2.27E-03
0.375	4.05E-01	4.04E-01	4.01E-01	3.93E-01	3.74E-01	3.34E-01	1.97E-01	3.14E-03
0.400	4.19E-01	4.17E-01	4.13E-01	4.04E-01	3.90E-01	3.43E-01	2.12E-01	4.37E-03
0.425	4.33E-01	4.31E-01	4.26E-01	4.17E-01	4.01E-01	3.52E-01	2.26E-01	6.54E-03
0.450	4.47E-01	4.45E-01	4.40E-01	4.32E-01	4.15E-01	3.61E-01	2.39E-01	8.22E-03
0.475	4.62E-01	4.59E-01	4.54E-01	4.46E-01	4.26E-01	3.73E-01	2.53E-01	1.07E-02
0.500	4.77E-01	4.74E-01	4.70E-01	4.61E-01	4.43E-01	3.86E-01	2.66E-01	1.51E-02
0.525	4.95E-01	4.92E-01	4.88E-01	4.77E-01	4.59E-01	4.03E-01	2.77E-01	2.12E-02
0.550	5.15E-01	5.11E-01	5.09E-01	5.04E-01	4.77E-01	4.17E-01	2.91E-01	2.79E-02
0.575	5.38E-01	5.36E-01	5.32E-01	5.25E-01	5.02E-01	4.31E-01	3.05E-01	3.78E-02
0.600	5.62E-01	5.60E-01	5.56E-01	5.48E-01	5.26E-01	4.57E-01	3.21E-01	5.30E-02
0.625	5.88E-01	5.85E-01	5.84E-01	5.71E-01	5.47E-01	4.78E-01	3.37E-01	6.78E-02
0.650	6.18E-01	6.16E-01	6.14E-01	6.06E-01	5.79E-01	5.06E-01	3.54E-01	9.03E-02
0.675	6.51E-01	6.47E-01	6.44E-01	6.36E-01	6.11E-01	5.28E-01	3.69E-01	1.21E-01
0.700	6.90E-01	6.87E-01	6.82E-01	6.71E-01	6.46E-01	5.58E-01	3.92E-01	1.54E-01
0.725	7.32E-01	7.30E-01	7.27E-01	7.11E-01	6.82E-01	5.88E-01	4.09E-01	1.91E-01
0.750	7.86E-01	7.85E-01	7.81E-01	7.53E-01	7.16E-01	6.23E-01	4.35E-01	2.30E-01
0.775	8.42E-01	8.41E-01	8.30E-01	8.18E-01	7.78E-01	6.64E-01	4.66E-01	2.84E-01
0.800	9.09E-01	9.03E-01	8.97E-01	8.84E-01	8.42E-01	7.09E-01	5.04E-01	3.17E-01
0.825	9.38E-01	9.38E-01	9.37E-01	9.30E-01	8.99E-01	7.87E-01	5.58E-01	3.46E-01
0.850	9.39E-01	9.39E-01	9.39E-01	9.37E-01	9.28E-01	8.48E-01	6.18E-01	3.86E-01
0.875	9.40E-01	9.40E-01	9.40E-01	9.38E-01	9.33E-01	8.98E-01	6.70E-01	4.41E-01
0.900	9.41E-01	9.41E-01	9.41E-01	9.39E-01	9.36E-01	9.21E-01	7.73E-01	5.28E-01
0.925	9.43E-01	9.42E-01	9.42E-01	9.41E-01	9.38E-01	9.28E-01	8.50E-01	6.26E-01
0.950	9.44E-01	9.44E-01	9.43E-01	9.42E-01	9.40E-01	9.34E-01	9.03E-01	7.55E-01
0.975	9.46E-01	9.46E-01	9.45E-01	9.45E-01	9.42E-01	9.38E-01	9.29E-01	8.98E-01
1.000	9.73E-01	9.73E-01	9.73E-01	9.72E-01	9.71E-01	9.67E-01	2.52E+00	3.89E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.90E-01	9.53E-01	5.64E-01	4.76E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.00E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.06E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.12E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.19E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.25E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.33E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.40E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.49E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.57E+00	2.89E-01	9.53E-01	5.62E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.66E+00	2.89E-01	9.53E-01	5.61E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.76E+00	2.89E-01	9.53E-01	5.61E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.86E+00	2.89E-01	9.53E-01	5.61E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
1.97E+00	2.89E-01	9.53E-01	5.61E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.09E+00	2.88E-01	9.53E-01	5.61E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.21E+00	2.85E-01	9.53E-01	5.61E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.24E+00	2.81E-01	9.53E-01	5.60E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.27E+00	2.77E-01	9.53E-01	5.60E-01	4.69E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.26E+00	2.71E-01	9.53E-01	5.60E-01	4.69E-01	9.41E-01	9.43E-01	9.45E-01	9.48E-01
2.27E+00	2.59E-01	9.53E-01	5.60E-01	4.69E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
2.29E+00	2.47E-01	9.53E-01	5.59E-01	4.69E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.00E+00	2.41E-01	9.53E-01	5.59E-01	4.69E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.10E+00	2.33E-01	9.53E-01	5.59E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.28E+00	2.20E-01	9.53E-01	5.59E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.48E+00	2.05E-01	9.53E-01	5.58E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.68E+00	1.87E-01	9.53E-01	5.58E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
3.89E+00	1.66E-01	9.53E-01	5.58E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
4.12E+00	1.41E-01	9.53E-01	5.57E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
4.36E+00	1.11E-01	9.53E-01	5.57E-01	4.68E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
4.61E+00	7.80E-02	9.53E-01	5.56E-01	4.67E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
4.88E+00	4.47E-02	9.53E-01	5.56E-01	4.67E-01	9.40E-01	9.43E-01	9.44E-01	9.48E-01
5.17E+00	1.92E-02	9.53E-01	5.55E-01	4.67E-01	9.40E-01	9.43E-01	9.44E-01	9.47E-01
5.47E+00	3.78E-03	9.53E-01	5.55E-01	4.67E-01	9.40E-01	9.43E-01	9.44E-01	9.47E-01
5.78E+00	1.46E-06	9.53E-01	5.54E-01	4.67E-01	9.40E-01	9.43E-01	9.44E-01	9.47E-01
6.12E+00	0.00E+00	9.53E-01	5.54E-01	4.67E-01	9.40E-01	9.43E-01	9.44E-01	9.47E-01
6.48E+00	0.00E+00	9.53E-01	5.53E-01	4.66E-01	9.40E-01	9.43E-01	9.44E-01	9.47E-01
6.86E+00	0.00E+00	9.53E-01	5.53E-01	4.66E-01	9.40E-01	9.42E-01	9.44E-01	9.47E-01
7.26E+00	0.00E+00	9.53E-01	5.52E-01	4.65E-01	9.40E-01	9.42E-01	9.44E-01	9.47E-01
7.68E+00	0.00E+00	9.53E-01	5.52E-01	4.65E-01	9.40E-01	9.42E-01	9.44E-01	9.47E-01
8.13E+00	0.00E+00	9.53E-01	5.51E-01	4.64E-01	9.40E-01	9.42E-01	9.44E-01	9.47E-01
8.60E+00	0.00E+00	9.53E-01	5.50E-01	4.63E-01	9.40E-01	9.42E-01	9.44E-01	9.47E-01
9.10E+00	0.00E+00	9.53E-01	5.49E-01	4.63E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
9.63E+00	0.00E+00	9.52E-01	5.49E-01	4.62E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.00E+01	0.00E+00	9.52E-01	5.48E-01	4.61E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.02E+01	0.00E+00	9.52E-01	5.48E-01	4.61E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.08E+01	0.00E+00	9.52E-01	5.47E-01	4.60E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.14E+01	0.00E+00	9.52E-01	5.47E-01	4.59E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.21E+01	0.00E+00	9.52E-01	5.46E-01	4.58E-01	9.39E-01	9.42E-01	9.43E-01	9.46E-01
1.28E+01	0.00E+00	9.52E-01	5.45E-01	4.56E-01	9.39E-01	9.42E-01	9.43E-01	9.46E-01
1.35E+01	0.00E+00	9.52E-01	5.44E-01	4.55E-01	9.39E-01	9.42E-01	9.43E-01	9.46E-01
1.43E+01	0.00E+00	9.52E-01	5.43E-01	4.54E-01	9.39E-01	9.42E-01	9.43E-01	9.46E-01
1.51E+01	0.00E+00	9.52E-01	5.42E-01	4.53E-01	9.39E-01	9.42E-01	9.43E-01	9.46E-01
1.60E+01	0.00E+00	9.52E-01	5.41E-01	4.53E-01	9.39E-01	9.41E-01	9.43E-01	9.45E-01
1.70E+01	0.00E+00	9.52E-01	5.40E-01	4.52E-01	9.38E-01	9.41E-01	9.43E-01	9.45E-01
1.80E+01	0.00E+00	9.52E-01	5.39E-01	4.50E-01	9.38E-01	9.41E-01	9.43E-01	9.45E-01
1.90E+01	0.00E+00	9.52E-01	5.38E-01	4.49E-01	9.38E-01	9.41E-01	9.43E-01	9.45E-01

2.01E+01	0.00E+00	9.52E-01	5.37E-01	4.47E-01	9.38E-01	9.41E-01	9.43E-01	9.45E-01
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2.13E+01	0.00E+00	9.52E-01	5.36E-01	4.46E-01	9.38E-01	9.41E-01	9.42E-01	9.45E-01
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2.25E+01	0.00E+00	9.52E-01	5.35E-01	4.45E-01	9.38E-01	9.40E-01	9.42E-01	9.45E-01
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2.38E+01	0.00E+00	9.52E-01	5.34E-01	4.44E-01	9.37E-01	9.40E-01	9.42E-01	9.45E-01
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2.52E+01	0.00E+00	9.51E-01	5.32E-01	4.43E-01	9.37E-01	9.40E-01	9.42E-01	9.44E-01
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2.67E+01	0.00E+00	9.51E-01	5.31E-01	4.42E-01	9.37E-01	9.40E-01	9.42E-01	9.44E-01
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2.82E+01	0.00E+00	9.51E-01	5.30E-01	4.41E-01	9.37E-01	9.40E-01	9.42E-01	9.44E-01
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2.99E+01	0.00E+00	9.51E-01	5.28E-01	4.41E-01	9.37E-01	9.40E-01	9.42E-01	9.44E-01
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3.00E+01	0.00E+00	9.51E-01	5.28E-01	4.40E-01	9.37E-01	9.40E-01	9.42E-01	9.44E-01
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3.16E+01	0.00E+00	9.51E-01	5.26E-01	4.40E-01	9.36E-01	9.40E-01	9.42E-01	9.44E-01
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3.35E+01	0.00E+00	9.51E-01	5.25E-01	4.38E-01	9.36E-01	9.40E-01	9.42E-01	9.44E-01
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3.54E+01	0.00E+00	9.51E-01	5.23E-01	4.36E-01	9.36E-01	9.39E-01	9.42E-01	9.44E-01
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3.75E+01 1.14E-17 9.51E-01 5.21E-01 4.35E-01 9.36E-01 9.39E-01 9.41E-01 9.43E-01

3.97E+01 4.79E-17 9.51E-01 5.19E-01 4.33E-01 9.35E-01 9.39E-01 9.41E-01 9.43E-01

4.20E+01 1.78E-16 9.50E-01 5.17E-01 4.32E-01 9.35E-01 9.39E-01 9.41E-01 9.43E-01

4.44E+01 4.63E-16 9.50E-01 5.14E-01 4.30E-01 9.34E-01 9.39E-01 9.41E-01 9.43E-01

4.70E+01 9.86E-16 9.50E-01 5.12E-01 4.29E-01 9.34E-01 9.39E-01 9.41E-01 9.43E-01

4.97E+01 1.79E-15 9.50E-01 5.10E-01 4.28E-01 9.32E-01 9.38E-01 9.40E-01 9.43E-01

5.26E+01 2.94E-15 9.50E-01 5.07E-01 4.24E-01 9.32E-01 9.38E-01 9.40E-01 9.43E-01

5.57E+01 4.51E-15 9.49E-01 5.04E-01 4.23E-01 9.31E-01 9.38E-01 9.40E-01 9.42E-01

5.90E+01 6.61E-15 9.49E-01 5.02E-01 4.22E-01 9.31E-01 9.37E-01 9.40E-01 9.42E-01

6.24E+01 9.34E-15 9.49E-01 4.99E-01 4.19E-01 9.30E-01 9.36E-01 9.39E-01 9.42E-01

6.60E+01 1.29E-14 9.49E-01 4.96E-01 4.15E-01 9.29E-01 9.36E-01 9.39E-01 9.42E-01

6.99E+01 1.74E-14 9.49E-01 4.92E-01 4.14E-01 9.28E-01 9.36E-01 9.39E-01 9.42E-01

7.39E+01 2.32E-14 9.48E-01 4.89E-01 4.10E-01 9.27E-01 9.36E-01 9.39E-01 9.42E-01

7.82E+01 3.05E-14 9.48E-01 4.85E-01 4.06E-01 9.27E-01 9.36E-01 9.39E-01 9.41E-01

8.28E+01 3.98E-14 9.48E-01 4.81E-01 4.02E-01 9.26E-01 9.35E-01 9.38E-01 9.41E-01

8.76E+01 5.17E-14 9.47E-01 4.77E-01 3.93E-01 9.25E-01 9.35E-01 9.38E-01 9.40E-01

9.27E+01	0.00E+00	9.48E-01	4.73E-01	3.91E-01	9.24E-01	9.35E-01	9.38E-01	9.40E-01
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9.81E+01 0.00E+00 9.48E-01 4.69E-01 3.85E-01 9.21E-01 9.34E-01 9.38E-01 9.39E-01

1.00E+02 0.00E+00 9.48E-01 4.67E-01 3.83E-01 9.21E-01 9.34E-01 9.37E-01 9.39E-01

1.04E+02 0.00E+00 9.46E-01 4.64E-01 3.80E-01 9.15E-01 9.34E-01 9.37E-01 9.39E-01

1.10E+02 0.00E+00 9.46E-01 4.59E-01 3.75E-01 9.10E-01 9.34E-01 9.37E-01 9.39E-01

1.16E+02 0.00E+00 9.46E-01 4.54E-01 3.69E-01 9.09E-01 9.34E-01 9.36E-01 9.38E-01

1.23E+02 0.00E+00 9.45E-01 4.49E-01 3.66E-01 9.02E-01 9.32E-01 9.36E-01 9.38E-01

1.30E+02 0.00E+00 9.45E-01 4.43E-01 3.64E-01 8.99E-01 9.29E-01 9.36E-01 9.38E-01

1.38E+02 0.00E+00 9.43E-01 4.37E-01 3.59E-01 8.90E-01 9.28E-01 9.36E-01 9.38E-01

1.46E+02 0.00E+00 9.41E-01 4.31E-01 3.54E-01 8.79E-01 9.27E-01 9.35E-01 9.37E-01

1.54E+02 0.00E+00 9.41E-01 4.24E-01 3.50E-01 8.72E-01 9.26E-01 9.34E-01 9.37E-01

1.63E+02 1.12E-17 9.40E-01 4.16E-01 3.45E-01 8.67E-01 9.25E-01 9.35E-01 9.37E-01

1.73E+02 1.75E-16 1.04E+00 4.08E-01 3.35E-01 8.59E-01 9.24E-01 9.34E-01 9.37E-01

1.83E+02 1.02E-15 1.14E+00 3.99E-01 3.27E-01 8.50E-01 9.23E-01 9.34E-01 9.36E-01

1.94E+02 3.97E-15 1.25E+00 3.90E-01 3.22E-01 8.45E-01 9.22E-01 9.34E-01 9.36E-01

2.05E+02 1.12E-14 1.35E+00 3.79E-01 3.15E-01 8.32E-01 9.20E-01 9.32E-01 9.36E-01

2.17E+02 2.61E-14 1.45E+00 3.68E-01 3.11E-01 8.23E-01 9.12E-01 9.30E-01 9.35E-01

2.29E+02 5.33E-14 1.54E+00 3.58E-01 3.04E-01 8.15E-01 9.10E-01 9.29E-01 9.35E-01

2.43E+02 1.00E-13 1.63E+00 3.48E-01 2.99E-01 8.06E-01 9.05E-01 9.29E-01 9.34E-01

2.57E+02	1.79E-13	1.71E+00	3.38E-01	2.91E-01	7.91E-01	8.96E-01	9.28E-01	9.34E-01
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2.72E+02 3.14E-13 1.78E+00 3.28E-01 2.81E-01 7.76E-01 8.94E-01 9.30E-01 9.35E-01

2.88E+02 5.44E-13 1.86E+00 3.18E-01 2.72E-01 7.66E-01 8.91E-01 9.27E-01 9.33E-01

3.00E+02 8.13E-13 1.92E+00 3.11E-01 2.66E-01 7.55E-01 8.89E-01 9.27E-01 9.33E-01

3.05E+02 9.39E-13 1.95E+00 3.09E-01 2.65E-01 7.54E-01 8.87E-01 9.25E-01 9.33E-01

3.22E+02	1.63E-12	2.07E+00	2.99E-01	2.56E-01	7.34E-01	8.75E-01	9.24E-01	9.32E-01
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3.41E+02 2.83E-12 2.20E+00 2.90E-01 2.48E-01 7.15E-01 8.64E-01 9.21E-01 9.32E-01

3.61E+02 5.00E-12 2.33E+00 2.81E-01 2.34E-01 7.04E-01 8.60E-01 9.20E-01 9.31E-01

3.82E+02 8.94E-12 2.47E+00 2.73E-01 2.26E-01 6.97E-01 8.55E-01 9.19E-01 9.31E-01

4.04E+02 1.18E-11 2.62E+00 2.65E-01 2.12E-01 6.81E-01 8.46E-01 9.13E-01 9.30E-01

4.28E+02	1.27E-11	2.78E+00	2.57E-01	1.98E-01	6.73E-01	8.46E-01	9.22E-01	9.30E-01
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4.53E+02	1.36E-11	2.94E+00	2.50E-01	1.87E-01	6.64E-01	8.52E-01	9.21E-01	9.63E-01
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4.79E+02 1.46E-11 3.11E+00 2.42E-01 1.73E-01 6.55E-01 8.40E-01 9.19E-01 9.98E-01

5.07E+02	1.57E-11	3.28E+00	2.35E-01	1.58E-01	6.58E-01	8.38E-01	9.22E-01	1.03E+00
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5.36E+02 1.69E-11 3.47E+00 2.28E-01 1.38E-01 6.32E-01 8.36E-01 9.21E-01 1.07E+00

5.68E+02 1.82E-11 3.66E+00 2.22E-01 1.16E-01 6.26E-01 8.27E-01 9.19E-01 1.11E+00

6.01E+02 1.36E-10 3.86E+00 2.17E-01 9.87E-02 6.26E-01 8.16E-01 9.16E-01 1.16E+00

6.36E+02 1.50E-10 4.07E+00 2.11E-01 8.54E-02 6.19E-01 8.12E-01 9.13E-01 1.20E+00

6.73E+02 1.65E-10 4.08E+00 2.06E-01 5.53E-02 6.18E-01 8.06E-01 9.11E-01 1.25E+00

7.12E+02 1.81E-10 4.01E+00 2.01E-01 4.59E-02 6.08E-01 8.01E-01 9.10E-01 1.29E+00

7.53E+02 1.99E-10 3.94E+00 1.96E-01 3.56E-02 6.07E-01 7.94E-01 9.12E-01 1.29E+00

7.97E+02 2.19E-10 3.87E+00 1.91E-01 2.66E-02 6.06E-01 7.89E-01 9.11E-01 1.28E+00

8.44E+02 2.40E-10 3.79E+00 1.87E-01 2.25E-02 5.89E-01 7.83E-01 9.09E-01 1.28E+00

8.93E+02 2.64E-10 3.71E+00 1.84E-01 2.07E-02 5.90E-01 7.88E-01 9.09E-01 1.28E+00

9.45E+02 2.89E-10 3.79E+00 1.80E-01 1.80E-02 5.88E-01 7.69E-01 9.07E-01 1.28E+00

1.00E+03 3.17E-10 3.89E+00 1.76E-01 1.31E-02 5.89E-01 7.77E-01 9.07E-01 1.28E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

Summary of dose at graphical times, reptition 2								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.91E-01	9.73E-01	5.64E-01	4.77E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.00E+00	2.91E-01	9.73E-01	5.62E-01	4.74E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.06E+00	2.91E-01	9.73E-01	5.62E-01	4.74E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.12E+00	2.90E-01	9.73E-01	5.62E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.19E+00	2.90E-01	9.73E-01	5.62E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.25E+00	2.90E-01	9.73E-01	5.62E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.33E+00	2.90E-01	9.73E-01	5.62E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.40E+00	2.90E-01	9.73E-01	5.62E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.49E+00	2.90E-01	9.73E-01	5.61E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.57E+00	2.89E-01	9.73E-01	5.61E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.66E+00	2.89E-01	9.73E-01	5.61E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.76E+00	2.85E-01	9.73E-01	5.61E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.86E+00	2.78E-01	9.73E-01	5.61E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
1.97E+00	2.71E-01	9.73E-01	5.60E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
2.09E+00	2.63E-01	9.73E-01	5.60E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
2.21E+00	2.55E-01	9.73E-01	5.60E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
2.34E+00	2.46E-01	9.73E-01	5.60E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
2.47E+00	2.37E-01	9.73E-01	5.59E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
2.62E+00	2.26E-01	9.73E-01	5.59E-01	4.71E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
2.77E+00	2.15E-01	9.73E-01	5.59E-01	4.71E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
2.93E+00	2.02E-01	9.73E-01	5.59E-01	4.71E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
3.00E+00	1.96E-01	9.73E-01	5.58E-01	4.71E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
3.10E+00	1.86E-01	9.73E-01	5.58E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
3.28E+00	1.69E-01	9.73E-01	5.58E-01	4.71E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
3.48E+00	1.49E-01	9.73E-01	5.57E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
3.68E+00	1.26E-01	9.73E-01	5.57E-01	4.70E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
3.89E+00	1.03E-01	9.72E-01	5.57E-01	4.69E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
4.12E+00	7.79E-02	9.72E-01	5.56E-01	4.67E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
4.36E+00	5.16E-02	9.72E-01	5.56E-01	4.66E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
4.61E+00	2.81E-02	9.72E-01	5.55E-01	4.66E-01	9.41E-01	9.43E-01	9.45E-01	9.47E-01
4.88E+00	1.09E-02	9.72E-01	5.55E-01	4.65E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
5.17E+00	1.43E-03	9.72E-01	5.54E-01	4.64E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
5.47E+00	5.22E-07	9.72E-01	5.53E-01	4.64E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
5.78E+00	0.00E+00	9.72E-01	5.53E-01	4.63E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
6.12E+00	0.00E+00	9.72E-01	5.52E-01	4.62E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
6.48E+00	0.00E+00	9.72E-01	5.52E-01	4.62E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
6.86E+00	0.00E+00	9.72E-01	5.51E-01	4.61E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
7.26E+00	0.00E+00	9.72E-01	5.50E-01	4.61E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
7.68E+00	0.00E+00	9.72E-01	5.50E-01	4.60E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
8.13E+00	0.00E+00	9.72E-01	5.49E-01	4.59E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
8.60E+00	0.00E+00	9.72E-01	5.48E-01	4.59E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
9.10E+00	0.00E+00	9.72E-01	5.48E-01	4.58E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
9.63E+00	0.00E+00	9.72E-01	5.47E-01	4.58E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
1.00E+01	0.00E+00	9.72E-01	5.46E-01	4.58E-01	9.40E-01	9.43E-01	9.45E-01	9.47E-01
1.02E+01	0.00E+00	9.72E-01	5.46E-01	4.57E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.08E+01	0.00E+00	9.72E-01	5.45E-01	4.57E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.14E+01	0.00E+00	9.72E-01	5.45E-01	4.57E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.21E+01	0.00E+00	9.72E-01	5.44E-01	4.56E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.28E+01	0.00E+00	9.72E-01	5.43E-01	4.56E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.35E+01	0.00E+00	9.72E-01	5.42E-01	4.54E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.43E+01	0.00E+00	9.72E-01	5.41E-01	4.53E-01	9.39E-01	9.42E-01	9.44E-01	9.46E-01
1.51E+01	0.00E+00	9.72E-01	5.40E-01	4.51E-01	9.39E-01	9.42E-01	9.44E-01	9.46E-01
1.60E+01	0.00E+00	9.72E-01	5.39E-01	4.50E-01	9.38E-01	9.42E-01	9.44E-01	9.46E-01
1.70E+01	0.00E+00	9.72E-01	5.38E-01	4.49E-01	9.38E-01	9.42E-01	9.44E-01	9.46E-01
1.80E+01	1.22E-16	9.72E-01	5.37E-01	4.48E-01	9.38E-01	9.42E-01	9.44E-01	9.46E-01
1.90E+01	1.10E-15	9.72E-01	5.36E-01	4.48E-01	9.38E-01	9.41E-01	9.44E-01	9.46E-01

2.01E+01	0.00E+00	9.72E-01	5.34E-01	4.47E-01	9.38E-01	9.41E-01	9.44E-01	9.46E-01
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2.13E+01 3.93E-17 9.71E-01 5.33E-01 4.47E-01 9.38E-01 9.41E-01 9.43E-01 9.46E-01

2.25E+01 1.83E-16 9.71E-01 5.32E-01 4.46E-01 9.37E-01 9.41E-01 9.43E-01 9.46E-01

2.38E+01 4.00E-16 9.71E-01 5.31E-01 4.46E-01 9.37E-01 9.41E-01 9.43E-01 9.46E-01

2.52E+01 6.74E-16 9.71E-01 5.29E-01 4.45E-01 9.37E-01 9.41E-01 9.43E-01 9.46E-01

2.67E+01 1.21E-15 9.71E-01 5.28E-01 4.45E-01 9.37E-01 9.41E-01 9.43E-01 9.45E-01

2.82E+01 2.36E-15 9.71E-01 5.26E-01 4.45E-01 9.37E-01 9.40E-01 9.43E-01 9.45E-01

2.99E+01 4.45E-15 9.71E-01 5.25E-01 4.43E-01 9.37E-01 9.40E-01 9.43E-01 9.45E-01

3.00E+01 4.79E-15 9.71E-01 5.25E-01 4.43E-01 9.37E-01 9.40E-01 9.43E-01 9.45E-01

3.16E+01 8.07E-15 9.71E-01 5.23E-01 4.42E-01 9.36E-01 9.40E-01 9.42E-01 9.44E-01

3.35E+01 1.39E-14 9.71E-01 5.22E-01 4.40E-01 9.36E-01 9.40E-01 9.42E-01 9.44E-01

3.54E+01 2.12E-14 9.71E-01 5.20E-01 4.38E-01 9.35E-01 9.40E-01 9.42E-01 9.43E-01

3.75E+01 2.72E-14 9.70E-01 5.18E-01 4.37E-01 9.35E-01 9.39E-01 9.42E-01 9.43E-01

3.97E+01 3.47E-14 9.70E-01 5.16E-01 4.36E-01 9.34E-01 9.39E-01 9.42E-01 9.43E-01

4.20E+01 4.40E-14 9.70E-01 5.14E-01 4.35E-01 9.34E-01 9.39E-01 9.42E-01 9.43E-01

4.44E+01 5.56E-14 9.70E-01 5.11E-01 4.31E-01 9.33E-01 9.39E-01 9.41E-01 9.43E-01

4.70E+01 1.16E-13 9.70E-01 5.09E-01 4.27E-01 9.33E-01 9.39E-01 9.41E-01 9.43E-01

4.97E+01 1.53E-13 9.70E-01 5.07E-01 4.25E-01 9.32E-01 9.39E-01 9.41E-01 9.43E-01

5.26E+01 1.98E-13 9.70E-01 5.04E-01 4.24E-01 9.32E-01 9.38E-01 9.41E-01 9.43E-01

5.57E+01 5.10E-13 9.69E-01 5.02E-01 4.23E-01 9.31E-01 9.38E-01 9.40E-01 9.42E-01

5.90E+01 1.41E-12 9.69E-01 4.99E-01 4.20E-01 9.31E-01 9.38E-01 9.40E-01 9.42E-01

6.24E+01 1.53E-12 9.69E-01 4.96E-01 4.14E-01 9.30E-01 9.37E-01 9.40E-01 9.42E-01

6.60E+01	1.63E-12	9.69E-01	4.93E-01	4.13E-01	9.30E-01	9.37E-01	9.39E-01	9.42E-01
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6.99E+01 1.75E-12 9.68E-01 4.90E-01 4.11E-01 9.29E-01 9.37E-01 9.39E-01 9.42E-01

7.39E+01 1.86E-12 9.68E-01 4.87E-01 4.07E-01 9.28E-01 9.37E-01 9.39E-01 9.41E-01

7.82E+01 1.99E-12 9.68E-01 4.83E-01 4.02E-01 9.28E-01 9.37E-01 9.39E-01 9.42E-01

8.28E+01 2.13E-12 9.68E-01 4.80E-01 3.98E-01 9.27E-01 9.36E-01 9.39E-01 9.42E-01

8.76E+01 2.28E-12 9.67E-01 4.76E-01 3.93E-01 9.26E-01 9.36E-01 9.38E-01 9.42E-01

9.27E+01 2.43E-12 9.67E-01 4.73E-01 3.88E-01 9.25E-01 9.35E-01 9.38E-01 9.41E-01

9.81E+01 2.60E-12 9.67E-01 4.69E-01 3.83E-01 9.24E-01 9.35E-01 9.38E-01 9.41E-01

1.00E+02 2.66E-12 9.67E-01 4.67E-01 3.81E-01 9.24E-01 9.35E-01 9.38E-01 9.41E-01

1.04E+02 2.78E-12 9.66E-01 4.65E-01 3.78E-01 9.23E-01 9.35E-01 9.38E-01 9.41E-01

1.10E+02 2.97E-12 9.94E-01 4.60E-01 3.73E-01 9.22E-01 9.34E-01 9.38E-01 9.41E-01

1.16E+02 3.18E-12 1.04E+00 4.56E-01 3.68E-01 9.18E-01 9.33E-01 9.37E-01 9.41E-01

1.23E+02 3.40E-12 1.10E+00 4.51E-01 3.64E-01 9.17E-01 9.32E-01 9.37E-01 9.41E-01

1.30E+02	0.00E+00	1.15E+00	4.45E-01	3.58E-01	9.15E-01	9.32E-01	9.36E-01	9.40E-01
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1.38E+02 0.00E+00 1.20E+00 4.40E-01 3.53E-01 9.13E-01 9.31E-01 9.35E-01 9.40E-01

1.46E+02 0.00E+00 1.26E+00 4.33E-01 3.49E-01 9.09E-01 9.30E-01 9.35E-01 9.40E-01

1.54E+02 0.00E+00 1.32E+00 4.27E-01 3.45E-01 9.02E-01 9.29E-01 9.34E-01 9.40E-01

1.63E+02 0.00E+00 1.38E+00 4.19E-01 3.39E-01 8.97E-01 9.26E-01 9.34E-01 9.39E-01

1.73E+02 0.00E+00 1.44E+00 4.12E-01 3.34E-01 8.94E-01 9.25E-01 9.34E-01 9.39E-01

1.83E+02 7.44E-18 1.51E+00 4.04E-01 3.29E-01 8.89E-01 9.23E-01 9.33E-01 9.39E-01

1.94E+02 3.82E-16 1.58E+00 3.96E-01 3.21E-01 8.80E-01 9.25E-01 9.33E-01 9.42E-01

2.05E+02 3.70E-15 1.64E+00 3.86E-01 3.12E-01 8.81E-01 9.24E-01 9.33E-01 9.44E-01

2.17E+02 1.73E-14 1.71E+00 3.76E-01 3.08E-01 8.64E-01 9.19E-01 9.32E-01 9.59E-01

2.29E+02 5.29E-14 1.78E+00 3.66E-01 3.01E-01 8.61E-01 9.18E-01 9.32E-01 9.59E-01

2.43E+02 1.06E-14 1.92E+00 3.56E-01 2.93E-01 8.55E-01 9.17E-01 9.31E-01 9.58E-01

2.57E+02 2.50E-14 2.11E+00 3.46E-01 2.87E-01 8.38E-01 9.16E-01 9.31E-01 9.57E-01

2.72E+02 5.35E-14 2.28E+00 3.36E-01 2.81E-01 8.12E-01 9.14E-01 9.31E-01 9.56E-01

2.88E+02 1.08E-13 2.43E+00 3.27E-01 2.74E-01 7.96E-01 9.12E-01 9.30E-01 9.55E-01

3.00E+02 1.75E-13 2.52E+00 3.20E-01 2.64E-01 7.84E-01 9.11E-01 9.31E-01 9.54E-01

3.05E+02 2.08E-13 2.55E+00 3.18E-01 2.61E-01 7.79E-01 9.11E-01 9.30E-01 9.55E-01

3.22E+02 3.92E-13 2.65E+00 3.09E-01 2.54E-01 7.70E-01 9.06E-01 9.29E-01 9.55E-01

3.41E+02 7.30E-13 2.72E+00 3.00E-01 2.45E-01 7.56E-01 9.05E-01 9.28E-01 9.56E-01

3.61E+02 1.36E-12 2.78E+00 2.91E-01 2.31E-01 7.31E-01 9.05E-01 9.27E-01 9.56E-01

3.82E+02 2.53E-12 2.81E+00 2.82E-01 2.26E-01 7.28E-01 9.03E-01 9.28E-01 1.04E+00

4.04E+02 4.75E-12 2.82E+00 2.74E-01 2.19E-01 7.08E-01 9.01E-01 9.27E-01 1.04E+00

4.28E+02 9.08E-12 2.82E+00 2.66E-01 2.13E-01 7.10E-01 8.99E-01 9.26E-01 1.04E+00

4.53E+02 1.77E-11 2.82E+00 2.58E-01 2.00E-01 6.97E-01 8.97E-01 9.25E-01 1.04E+00

4.79E+02	1.98E-11	2.82E+00	2.50E-01	1.80E-01	6.63E-01	8.95E-01	9.24E-01	1.04E+00
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5.07E+02 2.15E-11 2.82E+00 2.43E-01 1.63E-01 6.70E-01 8.92E-01 9.24E-01 1.04E+00

5.36E+02 2.34E-11 2.83E+00 2.35E-01 1.49E-01 6.51E-01 8.89E-01 9.23E-01 1.03E+00

5.68E+02 2.54E-11 2.89E+00 2.28E-01 1.32E-01 6.42E-01 8.86E-01 9.21E-01 1.03E+00

6.01E+02 2.76E-11 2.94E+00 2.21E-01 1.03E-01 6.30E-01 8.70E-01 9.19E-01 1.03E+00

6.36E+02 3.00E-11 2.98E+00 2.14E-01 7.96E-02 6.28E-01 8.66E-01 9.18E-01 1.03E+00

6.73E+02 3.26E-11 3.02E+00 2.07E-01 6.39E-02 6.15E-01 8.61E-01 9.14E-01 1.03E+00

7.12E+02 3.55E-11 3.06E+00 2.00E-01 4.69E-02 6.03E-01 8.52E-01 9.12E-01 1.03E+00

7.53E+02 3.82E-11 3.09E+00 1.93E-01 3.32E-02 5.86E-01 8.52E-01 9.10E-01 1.03E+00

7.97E+02 4.10E-11 3.11E+00 1.87E-01 2.66E-02 5.98E-01 8.45E-01 9.07E-01 1.03E+00

8.44E+02 4.41E-11 3.13E+00 1.80E-01 2.45E-02 5.83E-01 8.29E-01 9.05E-01 1.01E+00

8.93E+02 4.75E-11 3.13E+00 1.74E-01 1.68E-02 5.82E-01 8.08E-01 8.93E-01 1.01E+00

9.45E+02 5.11E-11 3.13E+00 1.69E-01 1.31E-02 5.69E-01 8.04E-01 8.98E-01 1.02E+00

1.00E+03 5.52E-11 3.13E+00 1.63E-01 1.22E-02 5.37E-01 8.00E-01 8.99E-01 1.02E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

Summary of dose at graphical times, reptition 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.89E-01	9.62E-01	5.64E-01	4.78E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.00E+00	2.75E-01	9.61E-01	5.62E-01	4.77E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.06E+00	2.74E-01	9.61E-01	5.62E-01	4.76E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.12E+00	2.73E-01	9.61E-01	5.62E-01	4.76E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.19E+00	2.71E-01	9.61E-01	5.62E-01	4.75E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.25E+00	2.69E-01	9.61E-01	5.62E-01	4.75E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.33E+00	2.68E-01	9.61E-01	5.62E-01	4.75E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.40E+00	2.66E-01	9.61E-01	5.61E-01	4.75E-01	9.41E-01	9.44E-01	9.47E-01	9.49E-01
1.49E+00	2.64E-01	9.61E-01	5.61E-01	4.75E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
1.57E+00	2.62E-01	9.61E-01	5.61E-01	4.75E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
1.66E+00	2.60E-01	9.61E-01	5.61E-01	4.75E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
1.76E+00	2.58E-01	9.61E-01	5.61E-01	4.75E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
1.86E+00	2.55E-01	9.61E-01	5.61E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
1.97E+00	2.53E-01	9.61E-01	5.60E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.09E+00	2.50E-01	9.61E-01	5.60E-01	4.73E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.21E+00	2.47E-01	9.61E-01	5.60E-01	4.72E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.24E+00	2.44E-01	9.61E-01	5.60E-01	4.71E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.27E+00	2.41E-01	9.61E-01	5.60E-01	4.71E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.26E+00	2.38E-01	9.61E-01	5.59E-01	4.71E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.27E+00	2.34E-01	9.61E-01	5.59E-01	4.70E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
2.29E+00	2.31E-01	9.61E-01	5.59E-01	4.70E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
3.00E+00	2.29E-01	9.61E-01	5.59E-01	4.70E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
3.10E+00	2.27E-01	9.61E-01	5.58E-01	4.70E-01	9.41E-01	9.44E-01	9.46E-01	9.49E-01
3.28E+00	2.23E-01	9.61E-01	5.58E-01	4.70E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
3.48E+00	2.18E-01	9.61E-01	5.58E-01	4.69E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
3.68E+00	2.14E-01	9.61E-01	5.57E-01	4.69E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
3.89E+00	1.97E-01	9.61E-01	5.57E-01	4.69E-01	9.41E-01	9.44E-01	9.46E-01	9.48E-01
4.12E+00	1.58E-01	9.61E-01	5.56E-01	4.69E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
4.36E+00	1.13E-01	9.60E-01	5.56E-01	4.69E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
4.61E+00	6.60E-02	9.60E-01	5.55E-01	4.68E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
4.88E+00	2.95E-02	9.60E-01	5.55E-01	4.68E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
5.17E+00	6.72E-03	9.60E-01	5.54E-01	4.68E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
5.47E+00	3.86E-06	9.60E-01	5.54E-01	4.68E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
5.78E+00	0.00E+00	9.60E-01	5.53E-01	4.67E-01	9.41E-01	9.43E-01	9.46E-01	9.48E-01
6.12E+00	0.00E+00	9.60E-01	5.53E-01	4.67E-01	9.40E-01	9.43E-01	9.46E-01	9.48E-01
6.48E+00	0.00E+00	9.60E-01	5.52E-01	4.67E-01	9.40E-01	9.43E-01	9.46E-01	9.48E-01
6.86E+00	0.00E+00	9.60E-01	5.51E-01	4.67E-01	9.40E-01	9.43E-01	9.46E-01	9.48E-01
7.26E+00	0.00E+00	9.60E-01	5.51E-01	4.66E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
7.68E+00	0.00E+00	9.60E-01	5.50E-01	4.65E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
8.13E+00	0.00E+00	9.59E-01	5.50E-01	4.65E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
8.60E+00	0.00E+00	9.59E-01	5.49E-01	4.64E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
9.10E+00	0.00E+00	9.59E-01	5.48E-01	4.64E-01	9.40E-01	9.43E-01	9.45E-01	9.48E-01
9.63E+00	0.00E+00	9.59E-01	5.48E-01	4.64E-01	9.40E-01	9.42E-01	9.45E-01	9.48E-01
1.00E+01	0.00E+00	9.59E-01	5.47E-01	4.64E-01	9.40E-01	9.42E-01	9.45E-01	9.48E-01
1.02E+01	0.00E+00	9.59E-01	5.47E-01	4.64E-01	9.40E-01	9.42E-01	9.45E-01	9.48E-01
1.08E+01	0.00E+00	9.59E-01	5.46E-01	4.63E-01	9.39E-01	9.42E-01	9.45E-01	9.48E-01
1.14E+01	0.00E+00	9.59E-01	5.45E-01	4.63E-01	9.39E-01	9.42E-01	9.45E-01	9.48E-01
1.21E+01	0.00E+00	9.58E-01	5.44E-01	4.62E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.28E+01	0.00E+00	9.58E-01	5.43E-01	4.61E-01	9.39E-01	9.42E-01	9.45E-01	9.47E-01
1.35E+01	0.00E+00	9.58E-01	5.43E-01	4.61E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.43E+01	0.00E+00	9.58E-01	5.42E-01	4.60E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.51E+01	0.00E+00	9.58E-01	5.41E-01	4.58E-01	9.39E-01	9.42E-01	9.44E-01	9.47E-01
1.60E+01	0.00E+00	9.57E-01	5.40E-01	4.57E-01	9.38E-01	9.42E-01	9.44E-01	9.47E-01
1.70E+01	0.00E+00	9.57E-01	5.39E-01	4.56E-01	9.38E-01	9.41E-01	9.44E-01	9.47E-01
1.80E+01	0.00E+00	9.57E-01	5.38E-01	4.55E-01	9.38E-01	9.41E-01	9.44E-01	9.47E-01
1.90E+01	0.00E+00	9.57E-01	5.37E-01	4.54E-01	9.38E-01	9.41E-01	9.44E-01	9.47E-01

2.01E+01	0.00E+00	9.56E-01	5.35E-01	4.53E-01	9.38E-01	9.41E-01	9.44E-01	9.47E-01
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2.13E+01	0.00E+00	9.56E-01	5.34E-01	4.51E-01	9.37E-01	9.41E-01	9.44E-01	9.47E-01
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2.25E+01	0.00E+00	9.56E-01	5.33E-01	4.48E-01	9.37E-01	9.41E-01	9.44E-01	9.47E-01
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2.38E+01 0.00E+00 9.55E-01 5.31E-01 4.47E-01 9.37E-01 9.41E-01 9.43E-01 9.47E-01

2.52E+01	0.00E+00	9.55E-01	5.30E-01	4.47E-01	9.37E-01	9.41E-01	9.43E-01	9.47E-01
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2.67E+01 0.00E+00 9.55E-01 5.29E-01 4.43E-01 9.37E-01 9.40E-01 9.43E-01 9.47E-01

2.82E+01 0.00E+00 9.54E-01 5.27E-01 4.42E-01 9.36E-01 9.40E-01 9.43E-01 9.47E-01

2.99E+01 0.00E+00 9.54E-01 5.26E-01 4.40E-01 9.36E-01 9.40E-01 9.43E-01 9.46E-01

3.00E+01	0.00E+00	9.54E-01	5.26E-01	4.40E-01	9.36E-01	9.40E-01	9.43E-01	9.46E-01
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3.16E+01 0.00E+00 9.53E-01 5.24E-01 4.39E-01 9.36E-01 9.40E-01 9.43E-01 9.46E-01

3.35E+01	0.00E+00	9.53E-01	5.23E-01	4.38E-01	9.35E-01	9.40E-01	9.42E-01	9.46E-01
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3.54E+01	0.00E+00	9.52E-01	5.21E-01	4.38E-01	9.34E-01	9.39E-01	9.42E-01	9.46E-01
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3.75E+01	0.00E+00	9.52E-01	5.19E-01	4.37E-01	9.34E-01	9.39E-01	9.42E-01	9.46E-01
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3.97E+01	0.00E+00	9.51E-01	5.17E-01	4.35E-01	9.34E-01	9.39E-01	9.42E-01	9.46E-01
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4.20E+01	0.00E+00	9.51E-01	5.15E-01	4.33E-01	9.33E-01	9.39E-01	9.42E-01	9.46E-01
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4.44E+01 0.00E+00 9.50E-01 5.13E-01 4.30E-01 9.33E-01 9.39E-01 9.42E-01 9.47E-01

4.70E+01 0.00E+00 9.49E-01 5.11E-01 4.29E-01 9.32E-01 9.39E-01 9.42E-01 9.47E-01

4.97E+01 0.00E+00 9.49E-01 5.09E-01 4.26E-01 9.32E-01 9.39E-01 9.42E-01 9.47E-01

5.26E+01 0.00E+00 9.49E-01 5.06E-01 4.22E-01 9.31E-01 9.38E-01 9.41E-01 9.47E-01

5.57E+01 0.00E+00 9.49E-01 5.04E-01 4.21E-01 9.31E-01 9.38E-01 9.41E-01 9.47E-01

5.90E+01 0.00E+00 9.49E-01 5.02E-01 4.20E-01 9.29E-01 9.38E-01 9.41E-01 9.46E-01

6.24E+01	0.00E+00	9.48E-01	4.99E-01	4.19E-01	9.29E-01	9.38E-01	9.41E-01	9.45E-01
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6.60E+01	0.00E+00	9.48E-01	4.96E-01	4.17E-01	9.28E-01	9.37E-01	9.40E-01	9.44E-01
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6.99E+01 0.00E+00 9.48E-01 4.93E-01 4.16E-01 9.27E-01 9.37E-01 9.40E-01 9.44E-01

7.39E+01 0.00E+00 9.48E-01 4.90E-01 4.13E-01 9.26E-01 9.37E-01 9.40E-01 9.44E-01

7.82E+01 0.00E+00 9.48E-01 4.87E-01 4.13E-01 9.25E-01 9.37E-01 9.39E-01 9.44E-01

8.28E+01 0.00E+00 9.49E-01 4.83E-01 4.10E-01 9.23E-01 9.35E-01 9.39E-01 9.44E-01

8.76E+01	0.00E+00	9.49E-01	4.79E-01	4.07E-01	9.23E-01	9.35E-01	9.39E-01	9.44E-01
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9.27E+01	0.00E+00	9.49E-01	4.75E-01	4.03E-01	9.16E-01	9.35E-01	9.39E-01	9.43E-01
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9.81E+01	0.00E+00	9.49E-01	4.71E-01	3.94E-01	9.15E-01	9.34E-01	9.38E-01	9.43E-01
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1.00E+02 0.00E+00 9.49E-01 4.69E-01 3.91E-01 9.15E-01 9.34E-01 9.38E-01 9.43E-01

1.04E+02 0.00E+00 9.49E-01 4.66E-01 3.88E-01 9.11E-01 9.34E-01 9.38E-01 9.43E-01

1.10E+02 0.00E+00 9.50E-01 4.61E-01 3.87E-01 9.10E-01 9.33E-01 9.38E-01 9.43E-01

1.16E+02	0.00E+00	9.50E-01	4.56E-01	3.77E-01	9.08E-01	9.33E-01	9.37E-01	9.43E-01
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1.23E+02 0.00E+00 9.50E-01 4.51E-01 3.72E-01 9.06E-01 9.32E-01 9.37E-01 9.42E-01

1.30E+02 0.00E+00 9.50E-01 4.45E-01 3.67E-01 9.02E-01 9.31E-01 9.36E-01 9.42E-01

1.38E+02 8.10E-18 9.51E-01 4.38E-01 3.63E-01 9.00E-01 9.30E-01 9.36E-01 9.42E-01

1.46E+02 4.98E-17 9.51E-01 4.32E-01 3.57E-01 8.89E-01 9.28E-01 9.36E-01 9.42E-01

1.54E+02 1.55E-16 9.51E-01 4.24E-01 3.53E-01 8.83E-01 9.27E-01 9.35E-01 9.41E-01

1.63E+02 4.01E-16 9.51E-01 4.17E-01 3.45E-01 8.81E-01 9.26E-01 9.35E-01 9.42E-01

1.73E+02 8.91E-16 9.52E-01 4.09E-01 3.37E-01 8.77E-01 9.26E-01 9.34E-01 9.42E-01

1.83E+02 1.77E-15 9.52E-01 4.00E-01 3.33E-01 8.60E-01 9.25E-01 9.34E-01 9.43E-01

1.94E+02 3.26E-15 9.54E-01 3.90E-01 3.27E-01 8.40E-01 9.23E-01 9.34E-01 9.43E-01

2.05E+02 5.71E-15 9.64E-01 3.80E-01 3.16E-01 8.22E-01 9.21E-01 9.33E-01 9.42E-01

2.17E+02 9.72E-15 9.76E-01 3.70E-01 3.11E-01 8.17E-01 9.19E-01 9.32E-01 9.42E-01

2.29E+02 1.62E-14 9.87E-01 3.60E-01 3.08E-01 8.13E-01 9.17E-01 9.31E-01 9.41E-01

2.43E+02 2.68E-14 9.99E-01 3.50E-01 3.01E-01 8.11E-01 9.14E-01 9.30E-01 9.38E-01

2.57E+02 4.39E-14 1.01E+00 3.41E-01 2.88E-01 8.02E-01 9.14E-01 9.30E-01 9.40E-01

2.72E+02	7.21E-14	1.13E+00	3.31E-01	2.81E-01	7.99E-01	9.12E-01	9.30E-01	9.40E-01
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2.88E+02 1.19E-13 1.28E+00 3.21E-01 2.73E-01 7.84E-01 9.11E-01 9.29E-01 9.40E-01

3.00E+02 1.72E-13 1.38E+00 3.14E-01 2.66E-01 7.80E-01 9.09E-01 9.27E-01 9.39E-01

3.05E+02 1.97E-13 1.42E+00 3.11E-01 2.64E-01 7.75E-01 9.09E-01 9.27E-01 9.39E-01

3.22E+02 3.31E-13 1.57E+00 3.02E-01 2.53E-01 7.63E-01 8.89E-01 9.23E-01 9.39E-01

3.41E+02 5.73E-13 1.72E+00 2.92E-01 2.44E-01 7.53E-01 8.78E-01 9.22E-01 9.38E-01

3.61E+02 1.48E-12 1.87E+00 2.83E-01 2.36E-01 7.18E-01 8.81E-01 9.22E-01 9.37E-01

3.82E+02 2.01E-12 2.02E+00 2.73E-01 2.28E-01 6.93E-01 8.68E-01 9.21E-01 9.41E-01

4.04E+02 2.59E-12 2.17E+00 2.64E-01 2.19E-01 6.64E-01 8.66E-01 9.27E-01 9.47E-01

4.28E+02 3.21E-12 2.31E+00 2.55E-01 2.12E-01 6.30E-01 8.65E-01 9.26E-01 9.67E-01

4.53E+02 3.90E-12 2.46E+00 2.46E-01 1.99E-01 6.18E-01 8.63E-01 9.25E-01 9.92E-01

4.79E+02 4.65E-12 2.60E+00 2.38E-01 1.82E-01 6.14E-01 8.61E-01 9.20E-01 1.02E+00

5.07E+02 2.12E-12 2.73E+00 2.29E-01 1.66E-01 6.05E-01 8.39E-01 9.13E-01 1.04E+00

5.36E+02 4.64E-12 2.86E+00 2.21E-01 1.51E-01 6.04E-01 8.26E-01 9.00E-01 1.07E+00

5.68E+02 7.36E-12 2.99E+00 2.13E-01 1.34E-01 6.00E-01 8.12E-01 8.97E-01 1.10E+00

6.01E+02 8.45E-12 3.11E+00 2.05E-01 1.09E-01 5.67E-01 7.97E-01 8.88E-01 1.13E+00

6.36E+02	9.64E-12	3.23E+00	1.98E-01	8.72E-02	5.57E-01	7.88E-01	8.85E-01	1.16E+00
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6.73E+02 1.10E-11 3.34E+00 1.92E-01 7.08E-02 5.52E-01 7.70E-01 8.76E-01 1.19E+00

7.12E+02 1.24E-11 3.44E+00 1.86E-01 6.15E-02 5.17E-01 7.57E-01 8.63E-01 1.23E+00

7.53E+02 1.40E-11 3.53E+00 1.80E-01 4.99E-02 5.06E-01 7.33E-01 8.59E-01 1.26E+00

7.97E+02 1.57E-11 3.62E+00 1.75E-01 4.00E-02 5.00E-01 7.30E-01 8.55E-01 1.29E+00

8.44E+02 1.77E-11 3.69E+00 1.70E-01 3.15E-02 4.95E-01 7.24E-01 8.78E-01 1.33E+00

8.93E+02 1.98E-11 3.76E+00 1.66E-01 2.86E-02 4.91E-01 7.17E-01 8.75E-01 1.37E+00

9.45E+02 2.21E-11 3.82E+00 1.62E-01 2.29E-02 4.71E-01 7.05E-01 8.71E-01 1.40E+00

1.00E+03 2.47E-11 3.87E+00 1.58E-01 1.95E-02 4.70E-01 6.94E-01 8.68E-01 1.46E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	5.641E-01
2	0.000E+00	5.641E-01
3	0.000E+00	5.640E-01

Title : RESRAD Default Parameters
Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	7	-0.06	7	-0.05	8	-0.10	8	-0.03
Contaminated zone b parameter	17	-0.01	17	-0.01	13	0.03	13	0.01
Evapotranspiration coefficient	3	-0.10	3	-0.07	7	-0.11	7	-0.04
Wind Speed	18	0.01	18	0.00	9	-0.08	9	-0.03
Runoff coefficient	4	-0.10	4	-0.07	5	-0.13	5	-0.04
Well pump intake depth	2	-0.13	2	-0.09	6	-0.12	6	-0.04
b Parameter of Unsaturated zone 1	6	0.07	6	0.05	14	-0.02	14	-0.01
Mass loading for inhalation	9	0.05	9	0.03	4	0.13	4	0.04
Indoor dust filtration factor	10	-0.03	10	-0.02	11	0.07	11	0.02
Depth of soil mixing layer	5	0.10	5	0.07	17	0.01	17	0.00
Depth of roots	1	-0.71	1	-0.70	1	-0.95	1	-0.94
Wet weight crop yield of fruit, grain and non-leafy vegetables	15	-0.02	15	-0.01	16	-0.01	16	0.00
Weathering removal constant of all vegetation	11	-0.03	11	-0.02	12	0.05	12	0.01
Wet foliar interception fraction of leafy vegetables	12	0.03	12	0.02	10	0.07	10	0.02
Humidity in air	16	0.02	16	0.01	18	0.00	18	0.00
Kd of Pu-239 in Contaminated Zone	8	-0.05	8	-0.04	3	-0.19	3	-0.06
Kd of Pu-239 in Unsaturated Zone 1	13	-0.02	14	-0.02	15	0.01	15	0.00
Kd of Pu-239 in Saturated Zone	14	-0.02	13	-0.02	2	-0.20	2	-0.07
R-SQUARE		0.53		0.53		0.90		0.90

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

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

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-239.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	8 -0.05	8 -0.03	8 -0.11	8 -0.03
Contaminated zone b parameter	13 -0.02	13 -0.02	18 -0.01	18 0.00
Evapotranspiration coefficient	6 -0.06	6 -0.04	10 -0.10	10 -0.02
Wind Speed	16 -0.01	16 0.00	11 -0.08	11 -0.02
Runoff coefficient	5 -0.06	5 -0.04	7 -0.11	7 -0.03
Well pump intake depth	3 -0.09	3 -0.06	13 -0.07	13 -0.02
b Parameter of Unsaturated zone 1	15 0.02	15 0.01	15 0.04	15 0.01
Mass loading for inhalation	4 0.08	4 0.05	3 0.20	3 0.05
Indoor dust filtration factor	7 0.05	7 0.03	4 0.17	4 0.04
Depth of soil mixing layer	18 0.00	18 0.00	17 0.03	17 0.01
Depth of roots	1 -0.77	1 -0.77	1 -0.97	1 -0.96
Wet weight crop yield of fruit, grain and non-leafy vegetables	14 0.02	14 0.01	9 0.10	9 0.03
Weathering removal constant of all vegetation	17 0.00	17 0.00	14 0.05	14 0.01
Wet foliar interception fraction of leafy vegetables	2 0.11	2 0.07	6 0.13	6 0.03
Humidity in air	12 0.03	12 0.02	16 -0.03	16 -0.01
Kd of Pu-239 in Contaminated Zone	9 -0.05	9 -0.03	5 -0.13	5 -0.03
Kd of Pu-239 in Unsaturated Zone 1	11 -0.04	11 -0.03	12 -0.07	12 -0.02
Kd of Pu-239 in Saturated Zone	10 -0.04	10 -0.03	2 -0.21	2 -0.05
R-SQUARE	0.61	0.61	0.94	0.94

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

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

Title : RESRAD Default Parameters
Input File : FCS SOIL UNCERTAINTY ANALYSIS PU-239.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	10	-0.04	10	-0.03	5	-0.14	5	-0.03
Contaminated zone b parameter	14	0.02	14	0.01	18	0.00	18	0.00
Evapotranspiration coefficient	2	-0.10	2	-0.07	7	-0.11	7	-0.03
Wind Speed	15	0.02	15	0.01	6	-0.12	6	-0.03
Runoff coefficient	3	-0.07	3	-0.05	11	-0.09	11	-0.02
Well pump intake depth	6	-0.06	6	-0.04	8	-0.11	8	-0.02
b Parameter of Unsaturated zone 1	12	0.03	12	0.02	17	0.01	17	0.00
Mass loading for inhalation	9	0.05	9	0.03	3	0.17	3	0.04
Indoor dust filtration factor	16	0.02	16	0.01	4	0.15	4	0.03
Depth of soil mixing layer	4	0.07	4	0.04	15	0.01	15	0.00
Depth of roots	1	-0.75	1	-0.75	1	-0.98	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	5	-0.06	5	-0.04	13	-0.04	13	-0.01
Weathering removal constant of all vegetation	7	-0.06	7	-0.04	12	-0.06	12	-0.01
Wet foliar interception fraction of leafy vegetables	18	0.01	18	0.00	14	0.03	14	0.01
Humidity in air	13	-0.03	13	-0.02	9	-0.09	9	-0.02
Kd of Pu-239 in Contaminated Zone	17	-0.01	17	-0.01	10	-0.09	10	-0.02
Kd of Pu-239 in Unsaturated Zone 1	11	-0.03	11	-0.02	16	0.01	16	0.00
Kd of Pu-239 in Saturated Zone	8	-0.05	8	-0.03	2	-0.21	2	-0.05
R-SQUARE		0.57		0.57		0.95		0.95

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

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