

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS AM-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	
Am-241											
Min	0.00E+00	3.10E-01	3.10E-01	2.95E-01	2.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-12
Max	3.74E+02	2.16E+00	1.01E+00	1.01E+00	1.01E+00	9.96E-01	9.64E-01	1.20E+00	2.13E+00	6.57E-01	
Avg	1.43E+00	5.95E-01	5.92E-01	5.89E-01	5.84E-01	5.66E-01	5.30E-01	4.29E-01	2.13E-01	3.27E-02	
Std	2.05E+01	2.47E-01	2.42E-01	2.42E-01	2.42E-01	2.47E-01	2.45E-01	2.25E-01	1.89E-01	6.02E-02	
ALL											
Min	0.00E+00	3.10E-01	3.10E-01	2.95E-01	2.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-12
Max	3.74E+02	2.16E+00	1.01E+00	1.01E+00	1.01E+00	9.96E-01	9.64E-01	1.20E+00	2.13E+00	6.57E-01	
Avg	1.43E+00	5.95E-01	5.92E-01	5.89E-01	5.84E-01	5.66E-01	5.30E-01	4.29E-01	2.13E-01	3.27E-02	
Std	2.05E+01	2.47E-01	2.42E-01	2.42E-01	2.42E-01	2.47E-01	2.45E-01	2.25E-01	1.89E-01	6.02E-02	

ALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide	RISK(j,t)							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Am-241								
Min	7.20E-07	7.18E-07	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-17
Max	1.55E-06	1.55E-06	1.54E-06	1.52E-06	1.48E-06	1.39E-06	2.08E-06	6.16E-07
Avg	1.04E-06	1.04E-06	1.03E-06	1.00E-06	9.42E-07	7.84E-07	4.17E-07	6.00E-08
Std	2.68E-07	2.67E-07	2.67E-07	2.83E-07	2.96E-07	2.81E-07	2.68E-07	9.04E-08
ALL								
Min	7.20E-07	7.18E-07	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-17
Max	1.55E-06	1.55E-06	1.54E-06	1.52E-06	1.48E-06	1.39E-06	2.08E-06	6.16E-07
Avg	1.04E-06	1.04E-06	1.03E-06	1.00E-06	9.42E-07	7.84E-07	4.17E-07	6.00E-08
Std	2.68E-07	2.67E-07	2.67E-07	2.83E-07	2.96E-07	2.81E-07	2.68E-07	9.04E-08

ALL is total risk summed for all nuclides.

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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
Am-241								
Min	2.04E-02	1.92E-02	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.10E-02	2.10E-02	2.09E-02	2.07E-02	2.01E-02	1.79E-02	1.30E-02	4.31E-03
Avg	2.10E-02	2.10E-02	2.09E-02	2.05E-02	1.95E-02	1.70E-02	1.00E-02	1.38E-03
Std	1.68E-05	4.90E-05	1.08E-04	2.09E-03	3.12E-03	3.63E-03	5.15E-03	1.91E-03
ALL								
Min	2.04E-02	1.92E-02	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.10E-02	2.10E-02	2.09E-02	2.07E-02	2.01E-02	1.79E-02	1.30E-02	4.31E-03
Avg	2.10E-02	2.10E-02	2.09E-02	2.05E-02	1.95E-02	1.70E-02	1.00E-02	1.38E-03
Std	1.68E-05	4.90E-05	1.08E-04	2.09E-03	3.12E-03	3.63E-03	5.15E-03	1.91E-03

ALL is total pathway dose summed for all nuclides.

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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
Am-241								
Min	1.69E-05	1.69E-05	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.75E-02	3.74E-02	3.73E-02	3.69E-02	3.57E-02	3.19E-02	2.31E-02	7.50E-03
Avg	6.04E-03	6.03E-03	6.01E-03	5.87E-03	5.59E-03	4.88E-03	2.70E-03	3.53E-04
Std	3.67E-03	3.66E-03	3.65E-03	3.64E-03	3.55E-03	3.21E-03	2.46E-03	6.63E-04
ALL								
Min	1.69E-05	1.69E-05	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.75E-02	3.74E-02	3.73E-02	3.69E-02	3.57E-02	3.19E-02	2.31E-02	7.50E-03
Avg	6.04E-03	6.03E-03	6.01E-03	5.87E-03	5.59E-03	4.88E-03	2.70E-03	3.53E-04
Std	3.67E-03	3.66E-03	3.65E-03	3.64E-03	3.55E-03	3.21E-03	2.46E-03	6.63E-04

ALL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	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
Am-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
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

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
Am-241								
Min	2.22E-01	2.06E-01	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.92E-01	8.90E-01	8.87E-01	8.77E-01	8.49E-01	7.59E-01	5.52E-01	1.82E-01
Avg	5.01E-01	4.98E-01	4.93E-01	4.78E-01	4.45E-01	3.52E-01	1.64E-01	2.25E-02
Std	2.42E-01	2.41E-01	2.42E-01	2.44E-01	2.41E-01	2.17E-01	1.61E-01	4.41E-02
ALL								
Min	2.22E-01	2.06E-01	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.92E-01	8.90E-01	8.87E-01	8.77E-01	8.49E-01	7.59E-01	5.52E-01	1.82E-01
Avg	5.01E-01	4.98E-01	4.93E-01	4.78E-01	4.45E-01	3.52E-01	1.64E-01	2.25E-02
Std	2.42E-01	2.41E-01	2.42E-01	2.44E-01	2.41E-01	2.17E-01	1.61E-01	4.41E-02

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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
Am-241								
Min	9.68E-03	9.31E-03	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.02E-02	1.02E-02	1.01E-02	1.00E-02	9.73E-03	8.71E-03	6.36E-03	2.17E-03
Avg	9.90E-03	9.88E-03	9.84E-03	9.60E-03	9.14E-03	7.96E-03	4.42E-03	5.70E-04
Std	1.83E-04	1.84E-04	1.90E-04	1.05E-03	1.51E-03	1.71E-03	2.48E-03	8.51E-04
ALL								
Min	9.68E-03	9.31E-03	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.02E-02	1.02E-02	1.01E-02	1.00E-02	9.73E-03	8.71E-03	6.36E-03	2.17E-03
Avg	9.90E-03	9.88E-03	9.84E-03	9.60E-03	9.14E-03	7.96E-03	4.42E-03	5.70E-04
Std	1.83E-04	1.84E-04	1.90E-04	1.05E-03	1.51E-03	1.71E-03	2.48E-03	8.51E-04

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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
Am-241								
Min	2.01E-03	2.01E-03	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.26E-03	2.25E-03	2.25E-03	2.22E-03	2.15E-03	1.92E-03	1.40E-03	4.61E-04
Avg	2.12E-03	2.11E-03	2.10E-03	2.05E-03	1.95E-03	1.69E-03	9.29E-04	1.18E-04
Std	8.69E-05	8.69E-05	8.77E-05	2.38E-04	3.31E-04	3.69E-04	5.24E-04	1.76E-04
ALL								
Min	2.01E-03	2.01E-03	1.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.26E-03	2.25E-03	2.25E-03	2.22E-03	2.15E-03	1.92E-03	1.40E-03	4.61E-04
Avg	2.12E-03	2.11E-03	2.10E-03	2.05E-03	1.95E-03	1.69E-03	9.29E-04	1.18E-04
Std	8.69E-05	8.69E-05	8.77E-05	2.38E-04	3.31E-04	3.69E-04	5.24E-04	1.76E-04

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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
Am-241								
Min	5.04E-02	4.73E-02	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.19E-02	5.18E-02	5.17E-02	5.11E-02	4.95E-02	4.42E-02	3.21E-02	1.05E-02
Avg	5.19E-02	5.18E-02	5.16E-02	5.04E-02	4.80E-02	4.19E-02	2.33E-02	2.92E-03
Std	4.14E-05	1.21E-04	2.83E-04	5.44E-03	7.89E-03	8.95E-03	1.30E-02	4.35E-03
ALL								
Min	5.04E-02	4.73E-02	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.19E-02	5.18E-02	5.17E-02	5.11E-02	4.95E-02	4.42E-02	3.21E-02	1.05E-02
Avg	5.19E-02	5.18E-02	5.16E-02	5.04E-02	4.80E-02	4.19E-02	2.33E-02	2.92E-03
Std	4.14E-05	1.21E-04	2.83E-04	5.44E-03	7.89E-03	8.95E-03	1.30E-02	4.35E-03

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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
Am-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-12
Max	0.00E+00	0.00E+00	1.36E-03	3.71E-02	3.53E-01	9.97E-01	1.74E+00	5.81E-01
Avg	0.00E+00	0.00E+00	9.09E-07	5.13E-05	4.71E-04	3.20E-03	6.78E-03	4.35E-03
Std	0.00E+00	0.00E+00	3.52E-05	1.29E-03	1.04E-02	3.81E-02	6.71E-02	2.86E-02
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-12
Max	0.00E+00	0.00E+00	1.36E-03	3.71E-02	3.53E-01	9.97E-01	1.74E+00	5.81E-01
Avg	0.00E+00	0.00E+00	9.09E-07	5.13E-05	4.71E-04	3.20E-03	6.78E-03	4.35E-03
Std	0.00E+00	0.00E+00	3.52E-05	1.29E-03	1.04E-02	3.81E-02	6.71E-02	2.86E-02

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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
Am-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
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							
	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
Am-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
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

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 AM-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
Am-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-13
Max	0.00E+00	0.00E+00	5.38E-05	5.67E-03	2.28E-02	1.01E-01	2.44E-01	1.05E-01
Avg	0.00E+00	0.00E+00	3.59E-08	5.28E-06	4.26E-05	3.56E-04	7.85E-04	4.68E-04
Std	0.00E+00	0.00E+00	1.39E-06	1.55E-04	9.01E-04	4.51E-03	9.76E-03	4.41E-03
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-13
Max	0.00E+00	0.00E+00	5.38E-05	5.67E-03	2.28E-02	1.01E-01	2.44E-01	1.05E-01
Avg	0.00E+00	0.00E+00	3.59E-08	5.28E-06	4.26E-05	3.56E-04	7.85E-04	4.68E-04
Std	0.00E+00	0.00E+00	1.39E-06	1.55E-04	9.01E-04	4.51E-03	9.76E-03	4.41E-03

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 AM-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
Am-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-15
Max	0.00E+00	0.00E+00	6.74E-07	2.59E-05	1.94E-04	5.51E-04	1.20E-03	4.19E-04
Avg	0.00E+00	0.00E+00	4.49E-10	3.12E-08	2.87E-07	2.06E-06	4.49E-06	3.10E-06
Std	0.00E+00	0.00E+00	1.74E-08	8.07E-07	6.11E-06	2.41E-05	4.54E-05	1.97E-05
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-15
Max	0.00E+00	0.00E+00	6.74E-07	2.59E-05	1.94E-04	5.51E-04	1.20E-03	4.19E-04
Avg	0.00E+00	0.00E+00	4.49E-10	3.12E-08	2.87E-07	2.06E-06	4.49E-06	3.10E-06
Std	0.00E+00	0.00E+00	1.74E-08	8.07E-07	6.11E-06	2.41E-05	4.54E-05	1.97E-05

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 AM-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
Am-241								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-14
Max	0.00E+00	0.00E+00	2.07E-07	8.96E-06	5.98E-05	1.69E-04	4.09E-04	1.45E-04
Avg	0.00E+00	0.00E+00	1.38E-10	1.03E-08	9.28E-08	6.82E-07	1.47E-06	9.36E-07
Std	0.00E+00	0.00E+00	5.33E-09	2.71E-07	1.95E-06	7.96E-06	1.54E-05	6.66E-06
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-14
Max	0.00E+00	0.00E+00	2.07E-07	8.96E-06	5.98E-05	1.69E-04	4.09E-04	1.45E-04
Avg	0.00E+00	0.00E+00	1.38E-10	1.03E-08	9.28E-08	6.82E-07	1.47E-06	9.36E-07
Std	0.00E+00	0.00E+00	5.33E-09	2.71E-07	1.95E-06	7.96E-06	1.54E-05	6.66E-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 AM-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	3.19E-01	3.18E-01	3.14E-01	2.97E-01	3.29E-02	1.02E-08	9.54E-09	2.66E-08
0.050	3.24E-01	3.23E-01	3.19E-01	3.09E-01	2.83E-01	1.80E-01	1.94E-07	2.20E-07
0.075	3.31E-01	3.30E-01	3.25E-01	3.15E-01	2.95E-01	2.07E-01	5.47E-07	5.23E-07
0.100	3.37E-01	3.35E-01	3.31E-01	3.21E-01	3.00E-01	2.21E-01	9.90E-07	7.67E-07
0.125	3.43E-01	3.42E-01	3.36E-01	3.26E-01	3.05E-01	2.35E-01	1.68E-06	1.03E-06
0.150	3.49E-01	3.47E-01	3.44E-01	3.33E-01	3.11E-01	2.46E-01	3.57E-06	1.46E-06
0.175	3.56E-01	3.54E-01	3.50E-01	3.40E-01	3.19E-01	2.52E-01	2.85E-04	1.82E-06
0.200	3.64E-01	3.61E-01	3.57E-01	3.48E-01	3.24E-01	2.59E-01	1.21E-02	2.22E-06
0.225	3.70E-01	3.68E-01	3.64E-01	3.54E-01	3.32E-01	2.66E-01	4.27E-02	2.88E-06
0.250	3.79E-01	3.78E-01	3.72E-01	3.63E-01	3.38E-01	2.72E-01	7.54E-02	3.91E-06
0.275	3.88E-01	3.86E-01	3.81E-01	3.72E-01	3.45E-01	2.78E-01	9.51E-02	4.68E-06
0.300	3.97E-01	3.95E-01	3.92E-01	3.80E-01	3.55E-01	2.86E-01	1.11E-01	6.19E-06
0.325	4.08E-01	4.06E-01	4.00E-01	3.90E-01	3.64E-01	2.93E-01	1.22E-01	7.97E-06
0.350	4.20E-01	4.17E-01	4.12E-01	3.99E-01	3.73E-01	3.01E-01	1.32E-01	1.06E-05
0.375	4.29E-01	4.27E-01	4.22E-01	4.11E-01	3.81E-01	3.09E-01	1.40E-01	1.38E-05
0.400	4.43E-01	4.40E-01	4.35E-01	4.23E-01	3.95E-01	3.17E-01	1.48E-01	2.04E-05
0.425	4.57E-01	4.54E-01	4.48E-01	4.36E-01	4.07E-01	3.25E-01	1.58E-01	3.60E-05
0.450	4.72E-01	4.69E-01	4.63E-01	4.51E-01	4.21E-01	3.35E-01	1.66E-01	7.06E-05
0.475	4.87E-01	4.84E-01	4.77E-01	4.65E-01	4.32E-01	3.44E-01	1.74E-01	1.40E-04
0.500	5.03E-01	4.99E-01	4.93E-01	4.79E-01	4.47E-01	3.55E-01	1.83E-01	2.80E-04
0.525	5.21E-01	5.17E-01	5.12E-01	4.96E-01	4.65E-01	3.69E-01	1.92E-01	4.61E-04
0.550	5.42E-01	5.37E-01	5.33E-01	5.22E-01	4.83E-01	3.82E-01	1.98E-01	8.82E-04
0.575	5.66E-01	5.62E-01	5.57E-01	5.43E-01	5.08E-01	3.96E-01	2.10E-01	1.80E-03
0.600	5.90E-01	5.87E-01	5.81E-01	5.66E-01	5.31E-01	4.18E-01	2.19E-01	3.75E-03
0.625	6.17E-01	6.13E-01	6.10E-01	5.90E-01	5.50E-01	4.41E-01	2.29E-01	7.02E-03
0.650	6.47E-01	6.44E-01	6.40E-01	6.25E-01	5.83E-01	4.62E-01	2.39E-01	1.35E-02
0.675	6.81E-01	6.76E-01	6.71E-01	6.55E-01	6.13E-01	4.84E-01	2.49E-01	2.08E-02
0.700	7.21E-01	7.17E-01	7.09E-01	6.92E-01	6.47E-01	5.09E-01	2.65E-01	2.95E-02
0.725	7.64E-01	7.61E-01	7.55E-01	7.33E-01	6.83E-01	5.39E-01	2.76E-01	3.80E-02
0.750	8.20E-01	8.17E-01	8.07E-01	7.74E-01	7.21E-01	5.65E-01	2.91E-01	4.85E-02
0.775	8.77E-01	8.75E-01	8.63E-01	8.43E-01	7.77E-01	6.06E-01	3.17E-01	6.25E-02
0.800	9.46E-01	9.39E-01	9.29E-01	9.07E-01	8.39E-01	6.49E-01	3.35E-01	6.75E-02
0.825	9.76E-01	9.74E-01	9.71E-01	9.57E-01	9.05E-01	7.15E-01	3.70E-01	7.51E-02
0.850	9.77E-01	9.76E-01	9.72E-01	9.61E-01	9.28E-01	7.83E-01	4.10E-01	8.22E-02
0.875	9.78E-01	9.77E-01	9.73E-01	9.62E-01	9.30E-01	8.19E-01	4.59E-01	9.18E-02
0.900	9.79E-01	9.78E-01	9.75E-01	9.63E-01	9.32E-01	8.29E-01	5.28E-01	1.11E-01
0.925	9.81E-01	9.79E-01	9.76E-01	9.64E-01	9.33E-01	8.32E-01	5.75E-01	1.34E-01
0.950	9.82E-01	9.81E-01	9.77E-01	9.66E-01	9.35E-01	8.34E-01	6.01E-01	1.72E-01
0.975	9.84E-01	9.82E-01	9.79E-01	9.68E-01	9.37E-01	8.36E-01	6.06E-01	1.96E-01
1.000	1.01E+00	1.01E+00	1.01E+00	9.96E-01	9.64E-01	1.20E+00	2.13E+00	6.57E-01

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS AM-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	3.10E-01	9.92E-01	5.92E-01	5.01E-01	9.79E-01	9.82E-01	9.83E-01	9.87E-01
1.00E+00	3.09E-01	9.90E-01	5.90E-01	4.96E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.06E+00	3.09E-01	9.90E-01	5.89E-01	4.96E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.12E+00	3.09E-01	9.90E-01	5.89E-01	4.96E-01	9.77E-01	9.80E-01	9.81E-01	9.85E-01
1.19E+00	3.09E-01	9.90E-01	5.89E-01	4.96E-01	9.77E-01	9.80E-01	9.81E-01	9.85E-01
1.25E+00	3.09E-01	9.90E-01	5.89E-01	4.96E-01	9.77E-01	9.80E-01	9.81E-01	9.85E-01
1.33E+00	3.09E-01	9.89E-01	5.89E-01	4.96E-01	9.77E-01	9.79E-01	9.81E-01	9.84E-01
1.40E+00	3.09E-01	9.89E-01	5.88E-01	4.95E-01	9.77E-01	9.79E-01	9.81E-01	9.84E-01
1.49E+00	3.09E-01	9.89E-01	5.88E-01	4.95E-01	9.77E-01	9.79E-01	9.81E-01	9.84E-01
1.57E+00	3.08E-01	9.89E-01	5.88E-01	4.95E-01	9.76E-01	9.79E-01	9.81E-01	9.84E-01
1.66E+00	3.08E-01	9.89E-01	5.88E-01	4.95E-01	9.76E-01	9.79E-01	9.81E-01	9.84E-01
1.76E+00	3.08E-01	9.89E-01	5.88E-01	4.95E-01	9.76E-01	9.79E-01	9.80E-01	9.84E-01
1.86E+00	3.08E-01	9.89E-01	5.87E-01	4.95E-01	9.76E-01	9.79E-01	9.80E-01	9.84E-01
1.97E+00	3.08E-01	9.88E-01	5.87E-01	4.95E-01	9.76E-01	9.78E-01	9.80E-01	9.83E-01
2.09E+00	3.08E-01	9.88E-01	5.87E-01	4.94E-01	9.76E-01	9.78E-01	9.80E-01	9.83E-01
2.21E+00	3.05E-01	9.88E-01	5.86E-01	4.94E-01	9.75E-01	9.78E-01	9.80E-01	9.83E-01
2.24E+00	3.00E-01	9.88E-01	5.86E-01	4.94E-01	9.75E-01	9.78E-01	9.79E-01	9.83E-01
2.27E+00	2.96E-01	9.88E-01	5.86E-01	4.94E-01	9.75E-01	9.77E-01	9.79E-01	9.83E-01
2.26E+00	2.90E-01	9.87E-01	5.85E-01	4.93E-01	9.75E-01	9.77E-01	9.79E-01	9.82E-01
2.27E+00	2.78E-01	9.87E-01	5.85E-01	4.93E-01	9.75E-01	9.77E-01	9.79E-01	9.82E-01
2.29E+00	2.65E-01	9.87E-01	5.85E-01	4.93E-01	9.74E-01	9.77E-01	9.79E-01	9.82E-01
3.00E+00	2.60E-01	9.87E-01	5.85E-01	4.92E-01	9.74E-01	9.77E-01	9.78E-01	9.82E-01
3.10E+00	2.51E-01	9.87E-01	5.84E-01	4.92E-01	9.74E-01	9.77E-01	9.78E-01	9.82E-01
3.28E+00	2.37E-01	9.86E-01	5.84E-01	4.92E-01	9.74E-01	9.76E-01	9.78E-01	9.81E-01
3.48E+00	2.22E-01	9.86E-01	5.83E-01	4.92E-01	9.73E-01	9.76E-01	9.78E-01	9.81E-01
3.68E+00	2.04E-01	9.86E-01	5.83E-01	4.91E-01	9.73E-01	9.76E-01	9.77E-01	9.81E-01
3.89E+00	1.83E-01	9.85E-01	5.82E-01	4.91E-01	9.73E-01	9.75E-01	9.77E-01	9.80E-01
4.12E+00	1.58E-01	9.85E-01	5.82E-01	4.90E-01	9.72E-01	9.75E-01	9.77E-01	9.80E-01
4.36E+00	1.29E-01	9.85E-01	5.81E-01	4.90E-01	9.72E-01	9.75E-01	9.76E-01	9.80E-01
4.61E+00	9.52E-02	9.84E-01	5.80E-01	4.90E-01	9.71E-01	9.74E-01	9.76E-01	9.79E-01
4.88E+00	5.77E-02	9.84E-01	5.80E-01	4.89E-01	9.71E-01	9.74E-01	9.75E-01	9.79E-01
5.17E+00	2.71E-02	9.83E-01	5.79E-01	4.89E-01	9.71E-01	9.73E-01	9.75E-01	9.78E-01
5.47E+00	6.34E-03	9.83E-01	5.78E-01	4.88E-01	9.70E-01	9.73E-01	9.75E-01	9.78E-01
5.57E+00	1.32E-06	9.82E-01	5.77E-01	4.88E-01	9.70E-01	9.72E-01	9.74E-01	9.77E-01
6.12E+00	0.00E+00	9.82E-01	5.76E-01	4.87E-01	9.69E-01	9.72E-01	9.73E-01	9.77E-01
6.48E+00	0.00E+00	9.81E-01	5.76E-01	4.87E-01	9.68E-01	9.71E-01	9.73E-01	9.76E-01
6.86E+00	0.00E+00	9.81E-01	5.75E-01	4.86E-01	9.68E-01	9.71E-01	9.72E-01	9.76E-01
7.26E+00	0.00E+00	9.80E-01	5.74E-01	4.85E-01	9.67E-01	9.70E-01	9.72E-01	9.75E-01
7.68E+00	0.00E+00	9.79E-01	5.73E-01	4.84E-01	9.67E-01	9.69E-01	9.71E-01	9.74E-01
8.13E+00	0.00E+00	9.79E-01	5.72E-01	4.83E-01	9.66E-01	9.69E-01	9.70E-01	9.74E-01
8.60E+00	0.00E+00	9.78E-01	5.71E-01	4.82E-01	9.65E-01	9.68E-01	9.70E-01	9.73E-01
9.10E+00	0.00E+00	9.77E-01	5.70E-01	4.81E-01	9.64E-01	9.67E-01	9.69E-01	9.72E-01
9.63E+00	0.00E+00	9.76E-01	5.68E-01	4.80E-01	9.63E-01	9.66E-01	9.68E-01	9.71E-01
1.00E+01	0.00E+00	9.76E-01	5.68E-01	4.80E-01	9.63E-01	9.66E-01	9.67E-01	9.71E-01
1.02E+01	0.00E+00	9.75E-01	5.67E-01	4.80E-01	9.62E-01	9.65E-01	9.67E-01	9.71E-01
1.08E+01	0.00E+00	9.75E-01	5.66E-01	4.78E-01	9.62E-01	9.64E-01	9.66E-01	9.70E-01
1.14E+01	0.00E+00	9.74E-01	5.65E-01	4.77E-01	9.61E-01	9.63E-01	9.65E-01	9.69E-01
1.21E+01	0.00E+00	9.73E-01	5.63E-01	4.75E-01	9.60E-01	9.62E-01	9.64E-01	9.67E-01
1.28E+01	0.00E+00	9.71E-01	5.62E-01	4.72E-01	9.59E-01	9.61E-01	9.63E-01	9.66E-01
1.35E+01	0.00E+00	9.70E-01	5.61E-01	4.71E-01	9.57E-01	9.60E-01	9.62E-01	9.65E-01
1.43E+01	0.00E+00	9.69E-01	5.59E-01	4.70E-01	9.56E-01	9.59E-01	9.61E-01	9.64E-01
1.51E+01	0.00E+00	9.68E-01	5.57E-01	4.68E-01	9.55E-01	9.58E-01	9.59E-01	9.62E-01
1.60E+01	0.00E+00	9.66E-01	5.55E-01	4.66E-01	9.53E-01	9.56E-01	9.58E-01	9.61E-01
1.70E+01	0.00E+00	9.65E-01	5.54E-01	4.65E-01	9.52E-01	9.55E-01	9.56E-01	9.60E-01
1.80E+01	0.00E+00	9.63E-01	5.52E-01	4.63E-01	9.50E-01	9.53E-01	9.55E-01	9.58E-01
1.90E+01	0.00E+00	9.62E-01	5.50E-01	4.61E-01	9.49E-01	9.52E-01	9.53E-01	9.56E-01

2.01E+01 0.00E+00 9.60E-01 5.48E-01 4.59E-01 9.47E-01 9.50E-01 9.51E-01 9.55E-01

2.13E+01 0.00E+00 9.58E-01 5.46E-01 4.57E-01 9.45E-01 9.48E-01 9.49E-01 9.53E-01

2.25E+01 0.00E+00 9.56E-01 5.44E-01 4.55E-01 9.43E-01 9.46E-01 9.47E-01 9.51E-01

2.38E+01 0.00E+00 9.54E-01 5.42E-01 4.53E-01 9.41E-01 9.44E-01 9.45E-01 9.49E-01

2.52E+01 0.00E+00 9.52E-01 5.40E-01 4.52E-01 9.39E-01 9.42E-01 9.43E-01 9.46E-01



2.67E+01 0.00E+00 9.50E-01 5.37E-01 4.49E-01 9.37E-01 9.39E-01 9.41E-01 9.44E-01

2.82E+01 0.00E+00 9.48E-01 5.35E-01 4.48E-01 9.34E-01 9.37E-01 9.38E-01 9.42E-01

2.99E+01 0.00E+00 9.45E-01 5.32E-01 4.46E-01 9.32E-01 9.35E-01 9.36E-01 9.39E-01

3.00E+01 0.00E+00 9.45E-01 5.32E-01 4.46E-01 9.32E-01 9.34E-01 9.36E-01 9.39E-01

3.16E+01 0.00E+00 9.43E-01 5.29E-01 4.45E-01 9.29E-01 9.32E-01 9.33E-01 9.37E-01

3.35E+01 0.00E+00 9.40E-01 5.26E-01 4.43E-01 9.26E-01 9.29E-01 9.30E-01 9.34E-01

3.54E+01 0.00E+00 9.37E-01 5.23E-01 4.41E-01 9.23E-01 9.26E-01 9.27E-01 9.31E-01

3.75E+01 0.00E+00 9.34E-01 5.19E-01 4.38E-01 9.20E-01 9.23E-01 9.24E-01 9.27E-01



3.97E+01 0.00E+00 9.30E-01 5.16E-01 4.35E-01 9.17E-01 9.20E-01 9.21E-01 9.23E-01

4.20E+01 0.00E+00 9.27E-01 5.12E-01 4.30E-01 9.13E-01 9.16E-01 9.18E-01 9.20E-01

4.44E+01 0.00E+00 9.23E-01 5.08E-01 4.27E-01 9.10E-01 9.13E-01 9.14E-01 9.16E-01

4.70E+01 0.00E+00 9.20E-01 5.04E-01 4.24E-01 9.06E-01 9.09E-01 9.10E-01 9.12E-01

4.97E+01 0.00E+00 9.16E-01 5.00E-01 4.23E-01 9.01E-01 9.05E-01 9.06E-01 9.08E-01

5.26E+01 0.00E+00 9.11E-01 4.95E-01 4.19E-01 8.97E-01 9.00E-01 9.02E-01 9.04E-01

5.57E+01 0.00E+00 9.07E-01 4.91E-01 4.16E-01 8.93E-01 8.96E-01 8.97E-01 8.99E-01

5.90E+01 0.00E+00 9.02E-01 4.86E-01 4.11E-01 8.88E-01 8.91E-01 8.93E-01 8.95E-01



6.24E+01 0.00E+00 8.97E-01 4.81E-01 4.05E-01 8.83E-01 8.86E-01 8.88E-01 8.90E-01

60E+01 0.00E+00 8.92E-01 4.75E-01 4.01E-01 8.77E-01 8.81E-01 8.83E-01 8.84E-01

99E+01 0.00E+00 8.87E-01 4.70E-01 3.95E-01 8.71E-01 8.75E-01 8.77E-01 8.79E-01

7.39E+01 0.00E+00 8.83E-01 4.64E-01 3.92E-01 8.66E-01 8.70E-01 8.72E-01 8.74E-01

7.82E+01 0.00E+00 8.99E-01 4.58E-01 3.87E-01 8.60E-01 8.64E-01 8.66E-01 8.68E-01

8.28E+01 0.00E+00 9.17E-01 4.51E-01 3.80E-01 8.54E-01 8.57E-01 8.59E-01 8.62E-01

8.76E+01 0.00E+00 9.34E-01 4.45E-01 3.74E-01 8.47E-01 8.51E-01 8.53E-01 8.55E-01

9.27E+01 0.00E+00 9.53E-01 4.38E-01 3.66E-01 8.39E-01 8.44E-01 8.46E-01 8.48E-01



9.81E+01 0.00E+00 9.71E-01 4.30E-01 3.57E-01 8.30E-01 8.36E-01 8.38E-01 8.40E-01

1.00E+02 0.00E+00 9.78E-01 4.28E-01 3.54E-01 8.27E-01 8.34E-01 8.36E-01 8.38E-01

1.04E+02 0.00E+00 9.90E-01 4.23E-01 3.49E-01 8.22E-01 8.29E-01 8.31E-01 8.32E-01

1.10E+02 0.00E+00 1.01E+00 4.15E-01 3.40E-01 8.14E-01 8.21E-01 8.23E-01 8.24E-01

1.16E+02 0.00E+00 1.03E+00 4.07E-01 3.34E-01 8.05E-01 8.12E-01 8.14E-01 8.16E-01

1.23E+02 0.00E+00 1.05E+00 3.98E-01 3.27E-01 7.95E-01 8.03E-01 8.06E-01 8.07E-01

1.30E+02 0.00E+00 1.07E+00 3.89E-01 3.20E-01 7.84E-01 7.93E-01 7.96E-01 7.98E-01

1.38E+02 0.00E+00 1.09E+00 3.80E-01 3.10E-01 7.72E-01 7.84E-01 7.87E-01 7.88E-01



1.46E+02 0.00E+00 1.11E+00 3.70E-01 3.02E-01 7.54E-01 7.74E-01 7.77E-01 7.78E-01

1.54E+02 0.00E+00 1.13E+00 3.59E-01 2.95E-01 7.41E-01 7.63E-01 7.66E-01 7.67E-01

1.63E+02 0.00E+00 1.15E+00 3.48E-01 2.87E-01 7.26E-01 7.52E-01 7.55E-01 7.56E-01

1.73E+02 0.00E+00 1.17E+00 3.37E-01 2.79E-01 7.10E-01 7.40E-01 7.43E-01 7.44E-01

1.83E+02 0.00E+00 1.19E+00 3.24E-01 2.68E-01 6.86E-01 7.29E-01 7.31E-01 7.33E-01

1.94E+02 0.00E+00 1.20E+00 3.11E-01 2.57E-01 6.67E-01 7.16E-01 7.19E-01 7.20E-01

2.05E+02 0.00E+00 1.22E+00 2.98E-01 2.49E-01 6.47E-01 7.02E-01 7.06E-01 7.07E-01

2.17E+02 0.00E+00 1.24E+00 2.84E-01 2.40E-01 6.29E-01 6.87E-01 6.92E-01 6.94E-01



2.29E+02 0.00E+00 1.25E+00 2.70E-01 2.31E-01 6.10E-01 6.73E-01 6.78E-01 6.80E-01

2.43E+02 0.00E+00 1.26E+00 2.57E-01 2.23E-01 5.88E-01 6.58E-01 6.63E-01 6.66E-01

2.57E+02 0.00E+00 1.28E+00 2.44E-01 2.11E-01 5.69E-01 6.42E-01 6.49E-01 6.51E-01

2.72E+02 0.00E+00 1.29E+00 2.32E-01 2.02E-01 5.47E-01 6.27E-01 6.33E-01 6.35E-01

2.88E+02 0.00E+00 1.29E+00 2.19E-01 1.91E-01 5.24E-01 6.10E-01 6.17E-01 6.19E-01

3.00E+02 0.00E+00 1.30E+00 2.10E-01 1.84E-01 5.06E-01 5.95E-01 6.05E-01 6.07E-01

3.05E+02 0.00E+00 1.30E+00 2.07E-01 1.81E-01 5.01E-01 5.89E-01 6.00E-01 6.03E-01

3.22E+02 0.00E+00 1.30E+00 1.95E-01 1.70E-01 4.78E-01 5.70E-01 5.84E-01 5.86E-01



3.41E+02 0.00E+00 1.30E+00 1.83E-01 1.60E-01 4.56E-01 5.52E-01 5.66E-01 5.69E-01

3.61E+02 0.00E+00 1.30E+00 1.72E-01 1.48E-01 4.29E-01 5.32E-01 5.49E-01 5.51E-01

3.82E+02 0.00E+00 1.30E+00 1.60E-01 1.39E-01 4.07E-01 5.13E-01 5.31E-01 5.33E-01

4.04E+02 5.66E-15 1.29E+00 1.50E-01 1.27E-01 3.87E-01 4.97E-01 5.12E-01 5.14E-01

4.28E+02 2.00E-13 1.27E+00 1.40E-01 1.16E-01 3.65E-01 4.75E-01 4.93E-01 4.95E-01

4.53E+02 8.20E-13 1.26E+00 1.30E-01 1.03E-01 3.45E-01 4.56E-01 4.74E-01 4.76E-01

4.79E+02 1.67E-12 1.24E+00 1.20E-01 9.21E-02 3.28E-01 4.36E-01 4.54E-01 4.57E-01

5.07E+02 2.25E-12 1.21E+00 1.11E-01 8.04E-02 2.99E-01 4.16E-01 4.34E-01 4.37E-01



5.36E+02 2.87E-12 1.19E+00 1.02E-01 6.81E-02 2.85E-01 3.94E-01 4.14E-01 4.17E-01

5.68E+02 3.56E-12 1.15E+00 9.39E-02 5.56E-02 2.66E-01 3.74E-01 3.94E-01 3.96E-01

01E+02 4.34E-12 1.12E+00 8.60E-02 4.19E-02 2.51E-01 3.54E-01 3.73E-01 3.76E-01

6.36E+02 5.21E-12 1.08E+00 7.87E-02 2.57E-02 2.31E-01 3.27E-01 3.52E-01 3.56E-01

6.73E+02 6.18E-12 1.04E+00 7.16E-02 1.68E-02 2.16E-01 3.07E-01 3.32E-01 3.35E-01

7.12E+02 7.25E-12 9.89E-01 6.50E-02 9.27E-03 2.00E-01 2.85E-01 3.11E-01 3.15E-01

7.53E+02 8.45E-12 9.38E-01 5.87E-02 4.47E-03 1.86E-01 2.59E-01 2.91E-01 2.95E-01

7.97E+02 9.77E-12 8.85E-01 5.28E-02 1.48E-03 1.71E-01 2.41E-01 2.71E-01 2.75E-01



8.44E+02 1.12E-11 8.30E-01 4.73E-02 9.67E-04 1.58E-01 2.21E-01 2.51E-01 2.56E-01

93E+02 1.28E-11 7.73E-01 4.22E-02 6.38E-04 1.41E-01 2.04E-01 2.32E-01 2.37E-01

9.45E+02 1.46E-11 7.16E-01 3.74E-02 4.18E-04 1.28E-01 1.87E-01 2.12E-01 2.18E-01

1.00E+03 1.65E-11 6.57E-01 3.31E-02 3.44E-04 1.17E-01 1.69E-01 1.94E-01 2.00E-01

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Probabilistic results summary : RESRAD Default Parameters

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## 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	3.11E-01	1.01E+00	5.92E-01	5.03E-01	9.80E-01	9.82E-01	9.84E-01	9.87E-01
1.00E+00	3.11E-01	1.01E+00	5.89E-01	4.99E-01	9.78E-01	9.81E-01	9.83E-01	9.85E-01
1.06E+00	3.11E-01	1.01E+00	5.89E-01	4.98E-01	9.78E-01	9.81E-01	9.83E-01	9.85E-01
1.12E+00	3.11E-01	1.01E+00	5.89E-01	4.98E-01	9.78E-01	9.81E-01	9.82E-01	9.84E-01
1.19E+00	3.11E-01	1.01E+00	5.89E-01	4.98E-01	9.78E-01	9.81E-01	9.82E-01	9.84E-01
1.25E+00	3.11E-01	1.01E+00	5.89E-01	4.98E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.33E+00	3.11E-01	1.01E+00	5.88E-01	4.97E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.40E+00	3.11E-01	1.01E+00	5.88E-01	4.97E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.49E+00	3.10E-01	1.01E+00	5.88E-01	4.97E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.57E+00	3.10E-01	1.01E+00	5.88E-01	4.97E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.66E+00	3.10E-01	1.01E+00	5.87E-01	4.97E-01	9.77E-01	9.80E-01	9.82E-01	9.84E-01
1.76E+00	3.05E-01	1.01E+00	5.87E-01	4.97E-01	9.77E-01	9.80E-01	9.81E-01	9.83E-01
1.86E+00	2.98E-01	1.01E+00	5.87E-01	4.96E-01	9.77E-01	9.80E-01	9.81E-01	9.83E-01
1.97E+00	2.90E-01	1.01E+00	5.87E-01	4.96E-01	9.76E-01	9.79E-01	9.81E-01	9.83E-01
2.09E+00	2.82E-01	1.01E+00	5.86E-01	4.96E-01	9.76E-01	9.79E-01	9.81E-01	9.83E-01
2.21E+00	2.73E-01	1.01E+00	5.86E-01	4.96E-01	9.76E-01	9.79E-01	9.81E-01	9.83E-01
2.24E+00	2.64E-01	1.01E+00	5.86E-01	4.95E-01	9.76E-01	9.79E-01	9.80E-01	9.82E-01
2.27E+00	2.55E-01	1.01E+00	5.85E-01	4.95E-01	9.76E-01	9.79E-01	9.80E-01	9.82E-01
2.26E+00	2.44E-01	1.01E+00	5.85E-01	4.95E-01	9.75E-01	9.78E-01	9.80E-01	9.82E-01
2.27E+00	2.33E-01	1.01E+00	5.84E-01	4.95E-01	9.75E-01	9.78E-01	9.80E-01	9.82E-01
2.29E+00	2.19E-01	1.01E+00	5.84E-01	4.94E-01	9.75E-01	9.78E-01	9.80E-01	9.82E-01
3.00E+00	2.13E-01	1.01E+00	5.84E-01	4.94E-01	9.75E-01	9.78E-01	9.79E-01	9.81E-01
3.31E+00	2.04E-01	1.01E+00	5.83E-01	4.94E-01	9.75E-01	9.78E-01	9.79E-01	9.81E-01
3.32E+00	1.86E-01	1.01E+00	5.83E-01	4.93E-01	9.74E-01	9.77E-01	9.79E-01	9.81E-01
3.48E+00	1.67E-01	1.01E+00	5.82E-01	4.93E-01	9.74E-01	9.77E-01	9.79E-01	9.81E-01
3.68E+00	1.45E-01	1.01E+00	5.82E-01	4.92E-01	9.74E-01	9.76E-01	9.78E-01	9.80E-01
3.89E+00	1.22E-01	1.01E+00	5.81E-01	4.92E-01	9.73E-01	9.76E-01	9.78E-01	9.80E-01
4.12E+00	9.66E-02	1.01E+00	5.80E-01	4.89E-01	9.73E-01	9.76E-01	9.78E-01	9.80E-01
4.36E+00	6.83E-02	1.00E+00	5.80E-01	4.88E-01	9.72E-01	9.75E-01	9.77E-01	9.79E-01
4.61E+00	3.95E-02	1.00E+00	5.79E-01	4.88E-01	9.72E-01	9.75E-01	9.77E-01	9.79E-01
4.88E+00	1.74E-02	1.00E+00	5.78E-01	4.86E-01	9.72E-01	9.74E-01	9.76E-01	9.78E-01
5.17E+00	2.80E-03	1.00E+00	5.77E-01	4.85E-01	9.71E-01	9.74E-01	9.76E-01	9.78E-01
5.547E+00	5.09E-07	1.00E+00	5.77E-01	4.85E-01	9.71E-01	9.73E-01	9.75E-01	9.78E-01
5.578E+00	0.00E+00	1.00E+00	5.76E-01	4.84E-01	9.70E-01	9.73E-01	9.75E-01	9.77E-01
6.12E+00	0.00E+00	1.00E+00	5.75E-01	4.83E-01	9.70E-01	9.72E-01	9.74E-01	9.76E-01
6.48E+00	0.00E+00	1.00E+00	5.74E-01	4.82E-01	9.69E-01	9.72E-01	9.74E-01	9.76E-01
6.86E+00	0.00E+00	1.00E+00	5.73E-01	4.81E-01	9.68E-01	9.71E-01	9.73E-01	9.75E-01
7.26E+00	0.00E+00	1.00E+00	5.72E-01	4.80E-01	9.68E-01	9.70E-01	9.73E-01	9.75E-01
7.68E+00	0.00E+00	9.99E-01	5.71E-01	4.80E-01	9.67E-01	9.70E-01	9.72E-01	9.74E-01
8.13E+00	0.00E+00	9.99E-01	5.70E-01	4.79E-01	9.66E-01	9.69E-01	9.71E-01	9.73E-01
8.60E+00	0.00E+00	9.98E-01	5.69E-01	4.78E-01	9.66E-01	9.68E-01	9.70E-01	9.73E-01
9.10E+00	0.00E+00	9.97E-01	5.68E-01	4.77E-01	9.65E-01	9.67E-01	9.69E-01	9.72E-01
9.63E+00	0.00E+00	9.96E-01	5.66E-01	4.76E-01	9.64E-01	9.67E-01	9.69E-01	9.71E-01
1.00E+01	0.00E+00	9.96E-01	5.66E-01	4.75E-01	9.63E-01	9.66E-01	9.68E-01	9.70E-01
1.02E+01	0.00E+00	9.95E-01	5.65E-01	4.75E-01	9.63E-01	9.66E-01	9.68E-01	9.70E-01
1.08E+01	0.00E+00	9.94E-01	5.64E-01	4.74E-01	9.62E-01	9.65E-01	9.67E-01	9.69E-01
1.14E+01	0.00E+00	9.93E-01	5.63E-01	4.73E-01	9.61E-01	9.64E-01	9.66E-01	9.68E-01
1.21E+01	0.00E+00	9.92E-01	5.61E-01	4.72E-01	9.60E-01	9.63E-01	9.65E-01	9.67E-01
1.28E+01	0.00E+00	9.91E-01	5.60E-01	4.71E-01	9.59E-01	9.62E-01	9.64E-01	9.66E-01
1.35E+01	0.00E+00	9.90E-01	5.58E-01	4.69E-01	9.58E-01	9.61E-01	9.63E-01	9.65E-01
1.43E+01	0.00E+00	9.89E-01	5.57E-01	4.67E-01	9.57E-01	9.59E-01	9.61E-01	9.63E-01
1.51E+01	0.00E+00	9.88E-01	5.55E-01	4.66E-01	9.55E-01	9.58E-01	9.60E-01	9.62E-01
1.60E+01	0.00E+00	9.86E-01	5.54E-01	4.65E-01	9.54E-01	9.56E-01	9.59E-01	9.61E-01
1.70E+01	0.00E+00	9.85E-01	5.52E-01	4.64E-01	9.53E-01	9.55E-01	9.57E-01	9.59E-01
1.80E+01	0.00E+00	9.83E-01	5.50E-01	4.61E-01	9.51E-01	9.54E-01	9.56E-01	9.58E-01
1.90E+01	0.00E+00	9.82E-01	5.48E-01	4.60E-01	9.49E-01	9.52E-01	9.54E-01	9.56E-01

2.01E+01 0.00E+00 9.80E-01 5.46E-01 4.59E-01 9.48E-01 9.50E-01 9.52E-01 9.54E-01



2.13E+01 0.00E+00 9.78E-01 5.44E-01 4.58E-01 9.46E-01 9.48E-01 9.51E-01 9.53E-01

2.25E+01 0.00E+00 9.76E-01 5.42E-01 4.57E-01 9.44E-01 9.47E-01 9.49E-01 9.51E-01

2.38E+01 0.00E+00 9.74E-01 5.40E-01 4.55E-01 9.42E-01 9.45E-01 9.47E-01 9.49E-01

2.52E+01 0.00E+00 9.72E-01 5.37E-01 4.54E-01 9.40E-01 9.42E-01 9.45E-01 9.47E-01

2.67E+01 0.00E+00 9.69E-01 5.35E-01 4.52E-01 9.37E-01 9.40E-01 9.42E-01 9.44E-01

2.82E+01 0.00E+00 9.67E-01 5.32E-01 4.50E-01 9.35E-01 9.38E-01 9.40E-01 9.42E-01

2.99E+01 0.00E+00 9.65E-01 5.29E-01 4.48E-01 9.32E-01 9.35E-01 9.38E-01 9.40E-01

3.00E+01 0.00E+00 9.64E-01 5.29E-01 4.48E-01 9.32E-01 9.35E-01 9.37E-01 9.39E-01



3.16E+01 0.00E+00 9.62E-01 5.27E-01 4.45E-01 9.30E-01 9.33E-01 9.35E-01 9.37E-01

3.35E+01 0.00E+00 9.59E-01 5.24E-01 4.43E-01 9.27E-01 9.30E-01 9.32E-01 9.34E-01

3.54E+01 0.00E+00 9.56E-01 5.21E-01 4.41E-01 9.24E-01 9.27E-01 9.29E-01 9.31E-01

3.75E+01 0.00E+00 9.53E-01 5.17E-01 4.38E-01 9.21E-01 9.24E-01 9.26E-01 9.28E-01

3.97E+01 0.00E+00 9.50E-01 5.14E-01 4.36E-01 9.17E-01 9.21E-01 9.23E-01 9.25E-01

4.20E+01 0.00E+00 9.46E-01 5.10E-01 4.32E-01 9.13E-01 9.17E-01 9.20E-01 9.21E-01

4.44E+01 0.00E+00 9.42E-01 5.06E-01 4.28E-01 9.10E-01 9.14E-01 9.16E-01 9.18E-01

4.70E+01 0.00E+00 9.38E-01 5.02E-01 4.24E-01 9.06E-01 9.10E-01 9.12E-01 9.14E-01



4.97E+01 0.00E+00 9.34E-01 4.98E-01 4.19E-01 9.02E-01 9.06E-01 9.08E-01 9.10E-01

5.26E+01 1.74E-20 9.30E-01 4.94E-01 4.15E-01 8.98E-01 9.01E-01 9.04E-01 9.06E-01

5.57E+01 4.67E-16 9.32E-01 4.89E-01 4.10E-01 8.94E-01 8.97E-01 8.99E-01 9.02E-01

5.90E+01 4.29E-15 9.59E-01 4.85E-01 4.07E-01 8.89E-01 8.92E-01 8.95E-01 8.97E-01

6.24E+01 1.14E-14 9.87E-01 4.80E-01 4.00E-01 8.84E-01 8.87E-01 8.90E-01 8.92E-01

60E+01 1.41E-14 1.01E+00 4.74E-01 3.96E-01 8.78E-01 8.82E-01 8.84E-01 8.87E-01

99E+01 1.71E-14 1.04E+00 4.69E-01 3.92E-01 8.73E-01 8.77E-01 8.79E-01 8.81E-01

7.39E+01 2.04E-14 1.07E+00 4.63E-01 3.88E-01 8.67E-01 8.71E-01 8.73E-01 8.76E-01



7.82E+01 2.41E-14 1.10E+00 4.57E-01 3.81E-01 8.61E-01 8.65E-01 8.67E-01 8.70E-01

8.28E+01 2.81E-14 1.12E+00 4.51E-01 3.74E-01 8.54E-01 8.58E-01 8.61E-01 8.63E-01

8.76E+01 3.26E-14 1.15E+00 4.45E-01 3.67E-01 8.48E-01 8.52E-01 8.54E-01 8.57E-01

9.27E+01 3.76E-14 1.17E+00 4.38E-01 3.59E-01 8.41E-01 8.45E-01 8.47E-01 8.50E-01

9.81E+01 4.31E-14 1.20E+00 4.31E-01 3.52E-01 8.33E-01 8.37E-01 8.40E-01 8.42E-01

1.00E+02 4.51E-14 1.20E+00 4.29E-01 3.49E-01 8.30E-01 8.35E-01 8.37E-01 8.40E-01

1.04E+02 4.92E-14 1.22E+00 4.24E-01 3.44E-01 8.25E-01 8.30E-01 8.32E-01 8.34E-01

1.10E+02 5.60E-14 1.24E+00 4.16E-01 3.37E-01 8.17E-01 8.22E-01 8.24E-01 8.27E-01



1.16E+02 6.35E-14 1.26E+00 4.08E-01 3.29E-01 8.08E-01 8.13E-01 8.16E-01 8.18E-01

1.23E+02 7.18E-14 1.28E+00 4.00E-01 3.23E-01 7.99E-01 8.04E-01 8.07E-01 8.09E-01

1.30E+02 0.00E+00 1.29E+00 3.91E-01 3.14E-01 7.89E-01 7.95E-01 7.98E-01 8.00E-01

1.38E+02 0.00E+00 1.30E+00 3.82E-01 3.08E-01 7.78E-01 7.85E-01 7.88E-01 7.90E-01

1.46E+02 0.00E+00 1.31E+00 3.72E-01 3.01E-01 7.67E-01 7.75E-01 7.78E-01 7.80E-01

1.54E+02 0.00E+00 1.32E+00 3.62E-01 2.91E-01 7.56E-01 7.64E-01 7.67E-01 7.69E-01

1.63E+02 0.00E+00 1.32E+00 3.51E-01 2.84E-01 7.44E-01 7.53E-01 7.56E-01 7.58E-01

1.73E+02 0.00E+00 1.32E+00 3.40E-01 2.76E-01 7.26E-01 7.42E-01 7.44E-01 7.47E-01



1.83E+02 0.00E+00 1.31E+00 3.28E-01 2.68E-01 7.13E-01 7.29E-01 7.32E-01 7.35E-01

1.94E+02 0.00E+00 1.31E+00 3.16E-01 2.57E-01 7.00E-01 7.17E-01 7.20E-01 7.22E-01

2.05E+02 0.00E+00 1.29E+00 3.02E-01 2.48E-01 6.86E-01 7.04E-01 7.06E-01 7.09E-01

2.17E+02 0.00E+00 1.27E+00 2.88E-01 2.38E-01 6.61E-01 6.90E-01 6.93E-01 6.95E-01

2.29E+02 0.00E+00 1.24E+00 2.75E-01 2.29E-01 6.45E-01 6.76E-01 6.79E-01 6.81E-01

2.43E+02 0.00E+00 1.21E+00 2.62E-01 2.17E-01 6.21E-01 6.62E-01 6.65E-01 6.67E-01

2.57E+02 0.00E+00 1.18E+00 2.48E-01 2.07E-01 6.02E-01 6.47E-01 6.50E-01 6.52E-01

2.72E+02 0.00E+00 1.15E+00 2.35E-01 2.00E-01 5.79E-01 6.31E-01 6.34E-01 6.37E-01



2.88E+02 0.00E+00 1.12E+00 2.23E-01 1.89E-01 5.55E-01 6.15E-01 6.18E-01 6.21E-01

3.00E+02 0.00E+00 1.10E+00 2.14E-01 1.81E-01 5.41E-01 6.03E-01 6.06E-01 6.09E-01

3.05E+02 0.00E+00 1.09E+00 2.10E-01 1.77E-01 5.37E-01 5.99E-01 6.02E-01 6.05E-01

3.22E+02 0.00E+00 1.06E+00 1.98E-01 1.66E-01 5.10E-01 5.81E-01 5.85E-01 5.88E-01

3.41E+02 0.00E+00 1.06E+00 1.86E-01 1.55E-01 4.89E-01 5.63E-01 5.68E-01 5.70E-01

3.61E+02 0.00E+00 1.06E+00 1.74E-01 1.43E-01 4.69E-01 5.44E-01 5.50E-01 5.53E-01

3.82E+02 0.00E+00 1.05E+00 1.63E-01 1.34E-01 4.35E-01 5.27E-01 5.32E-01 5.39E-01

4.04E+02 0.00E+00 1.04E+00 1.52E-01 1.22E-01 4.07E-01 5.08E-01 5.13E-01 5.30E-01



4.28E+02 0.00E+00 1.03E+00 1.42E-01 1.15E-01 3.88E-01 4.89E-01 4.95E-01 5.10E-01

4.53E+02 0.00E+00 1.01E+00 1.32E-01 1.06E-01 3.70E-01 4.70E-01 4.75E-01 4.90E-01

4.79E+02 4.27E-14 9.96E-01 1.22E-01 9.17E-02 3.39E-01 4.52E-01 4.56E-01 4.70E-01

5.07E+02 5.23E-13 9.75E-01 1.13E-01 8.13E-02 3.23E-01 4.30E-01 4.36E-01 4.50E-01

5.36E+02 1.96E-12 9.50E-01 1.04E-01 6.93E-02 3.04E-01 4.10E-01 4.16E-01 4.33E-01

5.68E+02 4.73E-12 9.23E-01 9.56E-02 5.39E-02 2.87E-01 3.89E-01 3.96E-01 4.18E-01

01E+02 8.93E-12 8.92E-01 8.76E-02 4.06E-02 2.61E-01 3.67E-01 3.75E-01 4.02E-01

6.36E+02 1.42E-11 8.58E-01 7.99E-02 2.61E-02 2.43E-01 3.46E-01 3.55E-01 3.85E-01



6.73E+02 1.95E-11 8.21E-01 7.27E-02 1.38E-02 2.25E-01 3.26E-01 3.34E-01 3.67E-01

7.12E+02 2.32E-11 7.82E-01 6.58E-02 6.55E-03 2.00E-01 3.05E-01 3.14E-01 3.48E-01

7.53E+02 2.64E-11 7.40E-01 5.93E-02 2.67E-03 1.83E-01 2.84E-01 2.93E-01 3.28E-01

7.97E+02 2.99E-11 6.96E-01 5.32E-02 1.60E-03 1.67E-01 2.62E-01 2.73E-01 3.08E-01

8.44E+02 3.35E-11 6.50E-01 4.75E-02 6.48E-04 1.54E-01 2.42E-01 2.53E-01 2.87E-01

93E+02 3.74E-11 6.00E-01 4.23E-02 2.75E-04 1.42E-01 2.21E-01 2.34E-01 2.66E-01

9.45E+02 4.15E-11 4.92E-01 3.74E-02 2.05E-04 1.28E-01 2.03E-01 2.16E-01 2.45E-01

1.00E+03 4.59E-11 3.84E-01 3.29E-02 1.75E-04 1.16E-01 1.85E-01 1.98E-01 2.25E-01



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Probabilistic results summary : RESRAD Default Parameters

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## 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	3.10E-01	1.00E+00	5.92E-01	5.04E-01	9.79E-01	9.82E-01	9.85E-01	9.88E-01
1.00E+00	2.95E-01	9.99E-01	5.89E-01	5.02E-01	9.78E-01	9.81E-01	9.83E-01	9.86E-01
1.06E+00	2.94E-01	9.99E-01	5.89E-01	5.00E-01	9.78E-01	9.81E-01	9.83E-01	9.86E-01
1.12E+00	2.92E-01	9.99E-01	5.89E-01	5.00E-01	9.78E-01	9.81E-01	9.83E-01	9.86E-01
1.19E+00	2.90E-01	9.98E-01	5.89E-01	5.00E-01	9.78E-01	9.80E-01	9.83E-01	9.86E-01
1.25E+00	2.89E-01	9.98E-01	5.89E-01	5.00E-01	9.77E-01	9.80E-01	9.83E-01	9.86E-01
1.33E+00	2.87E-01	9.98E-01	5.88E-01	5.00E-01	9.77E-01	9.80E-01	9.83E-01	9.86E-01
1.40E+00	2.85E-01	9.98E-01	5.88E-01	5.00E-01	9.77E-01	9.80E-01	9.83E-01	9.85E-01
1.49E+00	2.83E-01	9.98E-01	5.88E-01	5.00E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.57E+00	2.81E-01	9.98E-01	5.88E-01	5.00E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.66E+00	2.79E-01	9.98E-01	5.87E-01	4.99E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.76E+00	2.77E-01	9.97E-01	5.87E-01	4.99E-01	9.77E-01	9.80E-01	9.82E-01	9.85E-01
1.86E+00	2.74E-01	9.97E-01	5.87E-01	4.97E-01	9.76E-01	9.79E-01	9.82E-01	9.85E-01
1.97E+00	2.72E-01	9.97E-01	5.87E-01	4.97E-01	9.76E-01	9.79E-01	9.82E-01	9.84E-01
2.09E+00	2.69E-01	9.97E-01	5.86E-01	4.97E-01	9.76E-01	9.79E-01	9.82E-01	9.84E-01
2.21E+00	2.66E-01	9.97E-01	5.86E-01	4.96E-01	9.76E-01	9.79E-01	9.81E-01	9.84E-01
2.24E+00	2.63E-01	9.96E-01	5.86E-01	4.95E-01	9.76E-01	9.79E-01	9.81E-01	9.84E-01
2.27E+00	2.59E-01	9.96E-01	5.85E-01	4.95E-01	9.75E-01	9.78E-01	9.81E-01	9.84E-01
2.26E+00	2.56E-01	9.96E-01	5.85E-01	4.95E-01	9.75E-01	9.78E-01	9.81E-01	9.83E-01
2.27E+00	2.52E-01	9.96E-01	5.84E-01	4.94E-01	9.75E-01	9.78E-01	9.80E-01	9.83E-01
2.29E+00	2.48E-01	9.95E-01	5.84E-01	4.94E-01	9.75E-01	9.78E-01	9.80E-01	9.83E-01
3.00E+00	2.47E-01	9.95E-01	5.84E-01	4.94E-01	9.75E-01	9.77E-01	9.80E-01	9.83E-01
3.10E+00	2.44E-01	9.95E-01	5.84E-01	4.93E-01	9.74E-01	9.77E-01	9.80E-01	9.83E-01
3.28E+00	2.40E-01	9.95E-01	5.83E-01	4.93E-01	9.74E-01	9.77E-01	9.80E-01	9.82E-01
3.48E+00	2.36E-01	9.95E-01	5.82E-01	4.92E-01	9.74E-01	9.77E-01	9.79E-01	9.82E-01
3.68E+00	2.31E-01	9.94E-01	5.82E-01	4.92E-01	9.73E-01	9.76E-01	9.79E-01	9.82E-01
3.89E+00	2.15E-01	9.94E-01	5.81E-01	4.91E-01	9.73E-01	9.76E-01	9.79E-01	9.81E-01
4.12E+00	1.76E-01	9.93E-01	5.81E-01	4.91E-01	9.73E-01	9.76E-01	9.78E-01	9.81E-01
4.36E+00	1.30E-01	9.93E-01	5.80E-01	4.91E-01	9.72E-01	9.75E-01	9.78E-01	9.81E-01
4.61E+00	7.87E-02	9.93E-01	5.79E-01	4.90E-01	9.72E-01	9.75E-01	9.78E-01	9.80E-01
4.88E+00	3.75E-02	9.92E-01	5.78E-01	4.90E-01	9.72E-01	9.74E-01	9.77E-01	9.80E-01
5.17E+00	9.61E-03	9.92E-01	5.78E-01	4.89E-01	9.71E-01	9.74E-01	9.77E-01	9.79E-01
5.47E+00	3.32E-06	9.91E-01	5.77E-01	4.89E-01	9.71E-01	9.73E-01	9.76E-01	9.79E-01
5.57E+00	0.00E+00	9.91E-01	5.76E-01	4.88E-01	9.70E-01	9.73E-01	9.76E-01	9.78E-01
6.12E+00	0.00E+00	9.90E-01	5.75E-01	4.88E-01	9.70E-01	9.72E-01	9.75E-01	9.78E-01
6.48E+00	0.00E+00	9.90E-01	5.74E-01	4.87E-01	9.69E-01	9.72E-01	9.74E-01	9.77E-01
6.86E+00	0.00E+00	9.89E-01	5.73E-01	4.87E-01	9.68E-01	9.71E-01	9.74E-01	9.76E-01
7.26E+00	0.00E+00	9.88E-01	5.72E-01	4.86E-01	9.68E-01	9.71E-01	9.73E-01	9.76E-01
7.68E+00	0.00E+00	9.88E-01	5.71E-01	4.84E-01	9.67E-01	9.70E-01	9.72E-01	9.75E-01
8.13E+00	0.00E+00	9.87E-01	5.70E-01	4.84E-01	9.66E-01	9.69E-01	9.72E-01	9.74E-01
8.60E+00	0.00E+00	9.86E-01	5.69E-01	4.83E-01	9.66E-01	9.68E-01	9.71E-01	9.74E-01
9.10E+00	0.00E+00	9.85E-01	5.68E-01	4.82E-01	9.65E-01	9.68E-01	9.70E-01	9.73E-01
9.63E+00	0.00E+00	9.84E-01	5.67E-01	4.82E-01	9.64E-01	9.67E-01	9.69E-01	9.72E-01
1.00E+01	0.00E+00	9.84E-01	5.66E-01	4.81E-01	9.63E-01	9.66E-01	9.69E-01	9.71E-01
1.02E+01	0.00E+00	9.83E-01	5.66E-01	4.81E-01	9.63E-01	9.66E-01	9.68E-01	9.71E-01
1.08E+01	0.00E+00	9.82E-01	5.65E-01	4.80E-01	9.62E-01	9.65E-01	9.67E-01	9.70E-01
1.14E+01	0.00E+00	9.81E-01	5.63E-01	4.79E-01	9.61E-01	9.64E-01	9.66E-01	9.69E-01
1.21E+01	0.00E+00	9.80E-01	5.62E-01	4.78E-01	9.60E-01	9.63E-01	9.65E-01	9.68E-01
1.28E+01	0.00E+00	9.79E-01	5.60E-01	4.77E-01	9.59E-01	9.62E-01	9.64E-01	9.67E-01
1.35E+01	0.00E+00	9.78E-01	5.59E-01	4.76E-01	9.58E-01	9.61E-01	9.63E-01	9.66E-01
1.43E+01	0.00E+00	9.77E-01	5.57E-01	4.74E-01	9.57E-01	9.59E-01	9.62E-01	9.64E-01
1.51E+01	0.00E+00	9.75E-01	5.56E-01	4.72E-01	9.55E-01	9.58E-01	9.61E-01	9.63E-01
1.60E+01	0.00E+00	9.74E-01	5.54E-01	4.71E-01	9.54E-01	9.57E-01	9.59E-01	9.62E-01
1.70E+01	0.00E+00	9.72E-01	5.52E-01	4.69E-01	9.52E-01	9.55E-01	9.58E-01	9.60E-01
1.80E+01	0.00E+00	9.71E-01	5.50E-01	4.67E-01	9.51E-01	9.54E-01	9.56E-01	9.58E-01
1.90E+01	0.00E+00	9.69E-01	5.48E-01	4.65E-01	9.49E-01	9.52E-01	9.55E-01	9.57E-01

2.01E+01 0.00E+00 9.67E-01 5.46E-01 4.64E-01 9.47E-01 9.50E-01 9.53E-01 9.55E-01

2.13E+01 0.00E+00 9.65E-01 5.44E-01 4.62E-01 9.45E-01 9.49E-01 9.51E-01 9.53E-01

2.25E+01 0.00E+00 9.63E-01 5.42E-01 4.60E-01 9.43E-01 9.47E-01 9.49E-01 9.51E-01

2.38E+01 0.00E+00 9.61E-01 5.39E-01 4.58E-01 9.41E-01 9.45E-01 9.47E-01 9.49E-01

2.52E+01 0.00E+00 9.59E-01 5.37E-01 4.56E-01 9.39E-01 9.43E-01 9.45E-01 9.47E-01



2.67E+01 0.00E+00 9.56E-01 5.35E-01 4.52E-01 9.36E-01 9.40E-01 9.43E-01 9.45E-01

2.82E+01 0.00E+00 9.54E-01 5.32E-01 4.50E-01 9.34E-01 9.38E-01 9.40E-01 9.43E-01

2.99E+01 0.00E+00 9.51E-01 5.29E-01 4.48E-01 9.32E-01 9.35E-01 9.38E-01 9.40E-01

3.00E+01 0.00E+00 9.51E-01 5.29E-01 4.48E-01 9.31E-01 9.35E-01 9.38E-01 9.40E-01

3.16E+01 0.00E+00 9.48E-01 5.27E-01 4.45E-01 9.29E-01 9.32E-01 9.35E-01 9.37E-01

3.35E+01 0.00E+00 9.45E-01 5.24E-01 4.44E-01 9.26E-01 9.30E-01 9.32E-01 9.35E-01

3.54E+01 0.00E+00 9.42E-01 5.20E-01 4.41E-01 9.23E-01 9.27E-01 9.29E-01 9.32E-01

3.75E+01 0.00E+00 9.39E-01 5.17E-01 4.39E-01 9.20E-01 9.23E-01 9.26E-01 9.29E-01



3.97E+01 0.00E+00 9.36E-01 5.13E-01 4.37E-01 9.17E-01 9.20E-01 9.23E-01 9.25E-01

4.20E+01 0.00E+00 9.32E-01 5.10E-01 4.34E-01 9.13E-01 9.16E-01 9.20E-01 9.22E-01

4.44E+01 0.00E+00 9.28E-01 5.06E-01 4.31E-01 9.10E-01 9.13E-01 9.16E-01 9.18E-01

4.70E+01 0.00E+00 9.24E-01 5.03E-01 4.29E-01 9.06E-01 9.09E-01 9.12E-01 9.15E-01

4.97E+01 0.00E+00 9.20E-01 4.99E-01 4.26E-01 9.02E-01 9.05E-01 9.08E-01 9.11E-01

5.26E+01 0.00E+00 9.15E-01 4.94E-01 4.23E-01 8.97E-01 9.01E-01 9.04E-01 9.06E-01

5.57E+01 0.00E+00 9.11E-01 4.90E-01 4.19E-01 8.93E-01 8.96E-01 8.99E-01 9.02E-01

5.90E+01 0.00E+00 9.06E-01 4.86E-01 4.16E-01 8.88E-01 8.92E-01 8.94E-01 8.97E-01



6.24E+01 0.00E+00 9.00E-01 4.81E-01 4.10E-01 8.83E-01 8.87E-01 8.89E-01 8.92E-01

6.60E+01 0.00E+00 8.90E-01 4.76E-01 4.06E-01 8.78E-01 8.81E-01 8.84E-01 8.87E-01

99E+01 0.00E+00 8.85E-01 4.71E-01 4.03E-01 8.72E-01 8.76E-01 8.79E-01 8.81E-01

7.39E+01 0.00E+00 8.79E-01 4.65E-01 3.97E-01 8.66E-01 8.70E-01 8.73E-01 8.76E-01

7.82E+01 0.00E+00 9.28E-01 4.59E-01 3.91E-01 8.60E-01 8.64E-01 8.67E-01 8.70E-01

8.28E+01 0.00E+00 9.80E-01 4.53E-01 3.85E-01 8.54E-01 8.58E-01 8.61E-01 8.64E-01

8.76E+01 0.00E+00 1.03E+00 4.47E-01 3.77E-01 8.47E-01 8.51E-01 8.54E-01 8.57E-01

9.27E+01 0.00E+00 1.09E+00 4.40E-01 3.71E-01 8.39E-01 8.44E-01 8.47E-01 8.50E-01



9.81E+01 0.00E+00 1.14E+00 4.33E-01 3.64E-01 8.32E-01 8.37E-01 8.39E-01 8.43E-01

1.00E+02 0.00E+00 1.16E+00 4.30E-01 3.61E-01 8.29E-01 8.34E-01 8.37E-01 8.40E-01

1.04E+02 0.00E+00 1.20E+00 4.25E-01 3.56E-01 8.24E-01 8.29E-01 8.32E-01 8.35E-01

1.10E+02 0.00E+00 1.26E+00 4.17E-01 3.48E-01 8.15E-01 8.21E-01 8.24E-01 8.27E-01

1.16E+02 0.00E+00 1.31E+00 4.09E-01 3.39E-01 8.06E-01 8.13E-01 8.15E-01 8.18E-01

1.23E+02 0.00E+00 1.37E+00 4.01E-01 3.33E-01 7.97E-01 8.04E-01 8.07E-01 8.10E-01

1.30E+02 0.00E+00 1.43E+00 3.91E-01 3.24E-01 7.85E-01 7.95E-01 7.97E-01 8.00E-01

1.38E+02 0.00E+00 1.49E+00 3.82E-01 3.15E-01 7.75E-01 7.85E-01 7.88E-01 7.93E-01



1.46E+02 0.00E+00 1.55E+00 3.72E-01 3.08E-01 7.63E-01 7.75E-01 7.78E-01 7.83E-01

1.54E+02 0.00E+00 1.61E+00 3.62E-01 2.99E-01 7.52E-01 7.65E-01 7.67E-01 7.72E-01

1.63E+02 0.00E+00 1.67E+00 3.51E-01 2.92E-01 7.41E-01 7.53E-01 7.56E-01 7.61E-01

1.73E+02 0.00E+00 1.72E+00 3.39E-01 2.85E-01 7.28E-01 7.42E-01 7.45E-01 7.50E-01

1.83E+02 0.00E+00 1.78E+00 3.28E-01 2.76E-01 7.16E-01 7.30E-01 7.33E-01 7.38E-01

1.94E+02 0.00E+00 1.83E+00 3.15E-01 2.65E-01 6.85E-01 7.17E-01 7.20E-01 7.25E-01

2.05E+02 0.00E+00 1.88E+00 3.02E-01 2.53E-01 6.71E-01 7.04E-01 7.07E-01 7.12E-01

2.17E+02 0.00E+00 1.93E+00 2.89E-01 2.46E-01 6.55E-01 6.90E-01 6.93E-01 6.99E-01



2.29E+02 0.00E+00 1.98E+00 2.76E-01 2.37E-01 6.37E-01 6.76E-01 6.80E-01 6.85E-01

2.43E+02 0.00E+00 2.02E+00 2.63E-01 2.24E-01 6.08E-01 6.61E-01 6.65E-01 6.69E-01

2.57E+02 0.00E+00 2.05E+00 2.50E-01 2.12E-01 5.86E-01 6.46E-01 6.50E-01 6.54E-01

2.72E+02 0.00E+00 2.09E+00 2.37E-01 2.03E-01 5.60E-01 6.30E-01 6.34E-01 6.38E-01

2.88E+02 0.00E+00 2.11E+00 2.25E-01 1.91E-01 5.41E-01 6.14E-01 6.18E-01 6.22E-01

3.00E+02 0.00E+00 2.13E+00 2.16E-01 1.83E-01 5.28E-01 6.01E-01 6.06E-01 6.10E-01

3.05E+02 0.00E+00 2.13E+00 2.13E-01 1.79E-01 5.23E-01 5.96E-01 6.02E-01 6.06E-01

3.22E+02 0.00E+00 2.15E+00 2.01E-01 1.68E-01 5.05E-01 5.76E-01 5.84E-01 5.88E-01



3.41E+02 7.86E-18 2.16E+00 1.89E-01 1.59E-01 4.82E-01 5.55E-01 5.67E-01 5.73E-01

3.61E+02 6.00E-15 2.16E+00 1.77E-01 1.47E-01 4.42E-01 5.36E-01 5.49E-01 5.56E-01

3.82E+02 0.00E+00 2.15E+00 1.66E-01 1.35E-01 4.14E-01 5.17E-01 5.31E-01 5.37E-01

4.04E+02 2.79E-14 2.14E+00 1.55E-01 1.27E-01 3.86E-01 4.98E-01 5.12E-01 5.19E-01

4.28E+02 4.57E-14 2.12E+00 1.44E-01 1.18E-01 3.56E-01 4.79E-01 4.93E-01 5.00E-01

4.53E+02 6.87E-14 2.09E+00 1.33E-01 1.08E-01 3.27E-01 4.60E-01 4.74E-01 4.80E-01

4.79E+02 9.76E-14 2.04E+00 1.23E-01 9.60E-02 3.08E-01 4.39E-01 4.55E-01 4.60E-01

5.07E+02 0.00E+00 2.00E+00 1.14E-01 8.54E-02 2.93E-01 4.19E-01 4.34E-01 4.40E-01



5.36E+02 0.00E+00 1.94E+00 1.04E-01 7.29E-02 2.79E-01 3.94E-01 4.12E-01 4.20E-01

5.68E+02 0.00E+00 1.87E+00 9.56E-02 5.98E-02 2.63E-01 3.70E-01 3.93E-01 4.00E-01

0.01E+02 0.00E+00 1.80E+00 8.73E-02 4.30E-02 2.46E-01 3.47E-01 3.72E-01 3.80E-01

6.36E+02 8.12E-14 1.72E+00 7.96E-02 3.18E-02 2.27E-01 3.22E-01 3.51E-01 3.59E-01

6.73E+02 4.32E-13 1.64E+00 7.23E-02 1.96E-02 2.03E-01 2.98E-01 3.30E-01 3.38E-01

7.12E+02 5.22E-13 1.55E+00 6.53E-02 1.12E-02 1.79E-01 2.74E-01 3.09E-01 3.18E-01

7.53E+02 6.24E-13 1.45E+00 5.89E-02 3.68E-03 1.68E-01 2.55E-01 2.90E-01 2.98E-01

7.97E+02 7.38E-13 1.29E+00 5.27E-02 1.97E-03 1.55E-01 2.37E-01 2.70E-01 2.78E-01



8.44E+02 8.67E-13 1.01E+00 4.67E-02 1.22E-03 1.43E-01 2.19E-01 2.52E-01 2.66E-01

93E+02 1.01E-12 7.67E-01 4.14E-02 7.12E-04 1.31E-01 2.02E-01 2.33E-01 2.50E-01

9.45E+02 1.17E-12 6.32E-01 3.65E-02 4.00E-04 1.16E-01 1.88E-01 2.14E-01 2.29E-01

1.00E+03 1.34E-12 5.85E-01 3.21E-02 3.22E-04 1.06E-01 1.73E-01 1.96E-01 2.09E-01

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS AM-241.RAD

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

Repetition	Time of peak mean dose		Peak mean dose mrem/yr
	Years		
1	0.000E+00		5.920E-01
2	0.000E+00		5.920E-01
3	0.000E+00		5.919E-01

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS AM-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	-0.12	2	-0.04	17	0.00	17	0.00
Contaminated zone b parameter	12	0.01	15	0.00	6	0.06	8	0.01
Evapotranspiration coefficient	10	-0.03	10	-0.01	9	-0.03	10	0.00
Wind Speed	9	-0.03	9	-0.01	4	-0.22	5	-0.03
Runoff coefficient	4	-0.08	4	-0.02	7	0.05	9	0.01
Well pump intake depth	7	-0.04	7	-0.01	18	0.00	18	0.00
b Parameter of Unsaturated zone 1	5	-0.06	5	-0.02	12	-0.02	12	0.00
Mass loading for inhalation	3	0.09	3	0.03	3	0.24	3	0.03
Indoor dust filtration factor	6	0.05	6	0.01	2	0.31	2	0.04
Depth of soil mixing layer	8	0.04	8	0.01	15	0.01	15	0.00
Depth of roots	1	-0.96	1	-0.96	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	15	-0.01	16	0.00	16	0.00	16	0.00
Weathering removal constant of all vegetation	11	-0.02	12	-0.01	5	-0.09	7	-0.01
Wet foliar interception fraction of leafy vegetables	16	-0.01	17	0.00	13	0.02	13	0.00
Humidity in air	17	0.01	18	0.00	10	-0.03	11	0.00
Kd of Am-241 in Contaminated Zone	18	0.00	13	0.00	8	-0.03	4	-0.03
Kd of Am-241 in Unsaturated Zone 1	14	0.01	11	0.01	11	0.02	6	0.02
Kd of Am-241 in Saturated Zone	13	-0.01	14	0.00	14	0.01	14	0.00

R-SQUARE 0.92 0.92 0.98 0.98

-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 AM-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	6	-0.10	6	-0.03	15	-0.02	16	0.00
Contaminated zone b parameter	11	-0.05	11	-0.02	11	-0.04	13	-0.01
Evapotranspiration coefficient	16	-0.01	16	0.00	8	-0.07	10	-0.01
Wind Speed	12	-0.04	12	-0.01	4	-0.11	5	-0.02
Runoff coefficient	15	0.02	15	0.01	12	-0.04	14	-0.01
Well pump intake depth	3	-0.13	5	-0.04	10	-0.05	12	-0.01
b Parameter of Unsaturated zone 1	17	-0.01	17	0.00	5	0.10	7	0.02
Mass loading for inhalation	2	0.14	4	0.04	2	0.22	2	0.04
Indoor dust filtration factor	7	0.10	7	0.03	3	0.20	3	0.04
Depth of soil mixing layer	13	-0.03	13	-0.01	13	-0.04	15	-0.01
Depth of roots	1	-0.95	1	-0.94	1	-0.98	1	-0.98
Wet weight crop yield of fruit, grain and non-leafy vegetables	14	0.02	14	0.01	6	0.09	8	0.02
Weathering removal constant of all vegetation	9	0.06	9	0.02	18	0.00	18	0.00
Wet foliar interception fraction of leafy vegetables	8	0.06	8	0.02	7	0.07	9	0.01
Humidity in air	10	0.05	10	0.02	17	0.01	17	0.00
Kd of Am-241 in Contaminated Zone	5	0.11	3	0.09	14	-0.03	4	-0.03
Kd of Am-241 in Unsaturated Zone 1	4	-0.12	2	-0.10	16	0.02	6	0.02
Kd of Am-241 in Saturated Zone	18	0.00	18	0.00	9	-0.06	11	-0.01

R-SQUARE 0.89 0.89 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.

Title : RESRAD Default Parameters  
 Input File : FCS SOIL UNCERTAINTY ANALYSIS AM-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	11	-0.04	11	-0.02	16	0.02	16	0.00
Contaminated zone b parameter	14	-0.01	14	0.00	17	0.01	17	0.00
Evapotranspiration coefficient	7	-0.07	7	-0.03	9	-0.06	11	-0.01
Wind Speed	4	-0.08	5	-0.03	3	-0.22	5	-0.03
Runoff coefficient	5	-0.08	6	-0.03	10	-0.06	12	-0.01
Well pump intake depth	16	-0.01	16	0.00	15	-0.02	15	0.00
b Parameter of Unsaturated zone 1	13	0.02	13	0.01	14	-0.02	14	0.00
Mass loading for inhalation	8	0.06	8	0.03	2	0.26	3	0.04
Indoor dust filtration factor	17	-0.01	17	0.00	4	0.17	6	0.03
Depth of soil mixing layer	9	0.05	9	0.02	13	0.04	13	0.01
Depth of roots	1	-0.92	1	-0.92	1	-0.99	1	-0.98
Wet weight crop yield of fruit, grain and non-leafy vegetables	10	-0.04	10	-0.02	8	-0.08	10	-0.01
Weathering removal constant of all vegetation	3	-0.08	4	-0.03	5	-0.13	7	-0.02
Wet foliar interception fraction of leafy vegetables	15	0.01	15	0.00	7	0.09	9	0.01
Humidity in air	12	0.04	12	0.01	18	0.01	18	0.00
Kd of Am-241 in Contaminated Zone	2	0.08	2	0.15	11	-0.04	2	-0.04
Kd of Am-241 in Unsaturated Zone 1	6	-0.08	3	-0.13	12	0.04	4	0.04
Kd of Am-241 in Saturated Zone	18	0.00	18	0.00	6	-0.10	8	-0.02

R-SQUARE	0.85	0.85	0.98	0.98
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.  
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.