

Probabilistic results summary : RESRAD Default Parameters

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Table of Contents

Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

Probabilistic Input	2
Total Dose	3
Total Risk	4
Dose vs Pathway: Ground External	5
Dose vs Pathway: Inhalation (w/o Radon)	6
Dose vs Pathway: Radon (Water Ind.)	7
Dose vs Pathway: Plant (Water Ind.)	8
Dose vs Pathway: Meat (Water Ind.)	9
Dose vs Pathway: Milk (Water Ind.)	10
Dose vs Pathway: Soil Ingestion	11
Dose vs Pathway: Water Ingestion	12
Dose vs Pathway: Fish Ingestion	13
Dose vs Pathway: Radon (Water Dep.)	14
Dose vs Pathway: Plant (Water Dep.)	15
Dose vs Pathway: Meat (Water Dep.)	16
Dose vs Pathway: Milk (Water Dep.)	17
Cumulative Probability Summary.....	18
Summary of dose at graphical times, reptition 1.....	19
Summary of dose at graphical times, reptition 2.....	20
Summary of dose at graphical times, reptition 3.....	21
Peak of the mean dose at graphical times.....	22
Correlation and Regression coefficients (if any).....	23

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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	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	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.

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
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.

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
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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
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ΣALL									
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
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ΣALL is total pathway dose summed for all nuclides.

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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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
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ΣALL									
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
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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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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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ALL 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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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
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ΣALL									
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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ΣALL 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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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
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ΣALL									
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 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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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
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ΣALL									
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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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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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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
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TOTAL									
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							
(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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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
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ΣALL									
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
<hr/>									
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
TOTAL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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TOTAL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr								
	(j)	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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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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							
(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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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
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ΣALL									
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
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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 AM-241.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/>									
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
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ΣALL									
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
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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 AM-241.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
<hr/>									
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
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ΣALL									
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
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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 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	Dose statistics at graphical times, mrem/yr							
Years	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
2.34E+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
2.47E+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
2.62E+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
2.77E+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
2.93E+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
5.78E+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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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6.60E+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

6.99E+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
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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
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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

6.01E+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
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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

8.93E+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
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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

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 2								
Time	Dose statistics at graphical times, mrem/yr							
Years	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
2.34E+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
2.47E+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
2.62E+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
2.77E+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
2.93E+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
3.10E+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
3.28E+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
5.47E+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
5.78E+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
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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
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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
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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
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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
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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
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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
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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
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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
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6.60E+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
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6.99E+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
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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
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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

6.01E+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
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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

8.93E+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

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 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	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
2.34E+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
2.47E+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
2.62E+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
2.77E+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
2.93E+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
5.78E+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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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
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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

6.99E+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
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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
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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
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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
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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

6.01E+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

8.93E+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
	Years	mrem/yr
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
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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
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.

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

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS 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
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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.