

Probabilistic results summary : RESRAD Default Parameters

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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	1.42E-02	1.15E-02	1.15E-02	1.16E-02	1.18E-02	1.24E-02	0.00E+00	0.00E+00	0.00E+00	
Max	8.37E+02	7.45E+02	7.45E+02	7.23E+02	6.82E+02	5.56E+02	3.10E+02	1.08E+02	3.55E+01	3.59E+00	
Avg	3.42E+01	1.22E+01	1.21E+01	1.20E+01	1.19E+01	1.13E+01	1.00E+01	7.34E+00	3.97E+00	6.76E-01	
Std	1.10E+02	4.37E+01	4.37E+01	4.28E+01	4.12E+01	3.63E+01	2.68E+01	1.46E+01	5.84E+00	6.60E-01	
ALL											
Min	0.00E+00	1.42E-02	1.15E-02	1.15E-02	1.16E-02	1.18E-02	1.24E-02	0.00E+00	0.00E+00	0.00E+00	
Max	8.37E+02	7.45E+02	7.45E+02	7.23E+02	6.82E+02	5.56E+02	3.10E+02	1.08E+02	3.55E+01	3.59E+00	
Avg	3.42E+01	1.22E+01	1.21E+01	1.20E+01	1.19E+01	1.13E+01	1.00E+01	7.34E+00	3.97E+00	6.76E-01	
Std	1.10E+02	4.37E+01	4.37E+01	4.28E+01	4.12E+01	3.63E+01	2.68E+01	1.46E+01	5.84E+00	6.60E-01	

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	9.94E-09	9.94E-09	9.96E-09	1.00E-08	1.01E-08	0.00E+00	0.00E+00	0.00E+00
Max	6.72E-04	6.53E-04	6.16E-04	5.02E-04	2.80E-04	9.48E-05	3.11E-05	3.28E-06
Avg	1.08E-05	1.07E-05	1.05E-05	1.01E-05	8.93E-06	6.56E-06	3.62E-06	6.64E-07
Std	3.87E-05	3.79E-05	3.65E-05	3.21E-05	2.36E-05	1.29E-05	5.13E-06	5.72E-07
ALL								
Min	9.94E-09	9.94E-09	9.96E-09	1.00E-08	1.01E-08	0.00E+00	0.00E+00	0.00E+00
Max	6.72E-04	6.53E-04	6.16E-04	5.02E-04	2.80E-04	9.48E-05	3.11E-05	3.28E-06
Avg	1.08E-05	1.07E-05	1.05E-05	1.01E-05	8.93E-06	6.56E-06	3.62E-06	6.64E-07
Std	3.87E-05	3.79E-05	3.65E-05	3.21E-05	2.36E-05	1.29E-05	5.13E-06	5.72E-07

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	6.24E-15	1.86E-14	4.30E-14	1.24E-13	3.20E-13	0.00E+00	0.00E+00	0.00E+00
Max	6.34E-14	3.44E-12	1.00E-07	2.03E-02	1.96E-02	1.76E-02	1.28E-02	4.16E-03
Avg	6.86E-15	3.71E-14	2.30E-10	2.37E-04	5.14E-04	6.91E-04	2.81E-03	2.28E-03
Std	3.94E-15	1.98E-13	4.39E-09	2.10E-03	3.11E-03	3.38E-03	5.06E-03	1.82E-03
ALL								
Min	6.24E-15	1.86E-14	4.30E-14	1.24E-13	3.20E-13	0.00E+00	0.00E+00	0.00E+00
Max	6.34E-14	3.44E-12	1.00E-07	2.03E-02	1.96E-02	1.76E-02	1.28E-02	4.16E-03
Avg	6.86E-15	3.71E-14	2.30E-10	2.37E-04	5.14E-04	6.91E-04	2.81E-03	2.28E-03
Std	3.94E-15	1.98E-13	4.39E-09	2.10E-03	3.11E-03	3.38E-03	5.06E-03	1.82E-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	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	5.27E-07	1.24E-02	1.20E-02	1.07E-02	9.26E-03	5.13E-03
Avg	0.00E+00	0.00E+00	5.85E-10	7.85E-05	1.53E-04	1.80E-04	8.35E-04	6.00E-04
Std	0.00E+00	0.00E+00	1.75E-08	7.55E-04	9.91E-04	9.48E-04	1.53E-03	6.16E-04
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	5.27E-07	1.24E-02	1.20E-02	1.07E-02	9.26E-03	5.13E-03
Avg	0.00E+00	0.00E+00	5.85E-10	7.85E-05	1.53E-04	1.80E-04	8.35E-04	6.00E-04
Std	0.00E+00	0.00E+00	1.75E-08	7.55E-04	9.91E-04	9.48E-04	1.53E-03	6.16E-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	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	6.86E-01	7.20E-01	8.04E-01	8.78E-01	8.51E-01	7.61E-01	5.51E-01	1.80E-01
Avg	4.15E-01	4.16E-01	4.17E-01	4.21E-01	4.23E-01	4.14E-01	3.67E-01	1.19E-01
Std	2.43E-01	2.43E-01	2.43E-01	2.43E-01	2.38E-01	2.11E-01	1.59E-01	5.73E-02
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	6.86E-01	7.20E-01	8.04E-01	8.78E-01	8.51E-01	7.61E-01	5.51E-01	1.80E-01
Avg	4.15E-01	4.16E-01	4.17E-01	4.21E-01	4.23E-01	4.14E-01	3.67E-01	1.19E-01
Std	2.43E-01	2.43E-01	2.43E-01	2.43E-01	2.38E-01	2.11E-01	1.59E-01	5.73E-02

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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
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	4.34E-04	4.53E-04	5.06E-04	8.38E-03	8.12E-03	7.27E-03	5.29E-03	1.74E-03
Avg	2.63E-04	2.64E-04	2.65E-04	3.71E-04	4.83E-04	5.55E-04	1.56E-03	1.01E-03
Std	1.54E-04	1.54E-04	1.54E-04	9.16E-04	1.28E-03	1.37E-03	2.06E-03	7.02E-04
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	4.34E-04	4.53E-04	5.06E-04	8.38E-03	8.12E-03	7.27E-03	5.29E-03	1.74E-03
Avg	2.63E-04	2.64E-04	2.65E-04	3.71E-04	4.83E-04	5.55E-04	1.56E-03	1.01E-03
Std	1.54E-04	1.54E-04	1.54E-04	9.16E-04	1.28E-03	1.37E-03	2.06E-03	7.02E-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	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	2.06E-04	2.15E-04	2.40E-04	1.85E-03	1.80E-03	1.61E-03	1.17E-03	3.80E-04
Avg	1.25E-04	1.25E-04	1.25E-04	1.48E-04	1.71E-04	1.83E-04	3.78E-04	2.24E-04
Std	7.31E-05	7.30E-05	7.30E-05	2.06E-04	2.79E-04	2.96E-04	4.35E-04	1.49E-04
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	2.06E-04	2.15E-04	2.40E-04	1.85E-03	1.80E-03	1.61E-03	1.17E-03	3.80E-04
Avg	1.25E-04	1.25E-04	1.25E-04	1.48E-04	1.71E-04	1.83E-04	3.78E-04	2.24E-04
Std	7.31E-05	7.30E-05	7.30E-05	2.06E-04	2.79E-04	2.96E-04	4.35E-04	1.49E-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	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	3.80E-06	5.11E-02	4.95E-02	4.42E-02	3.21E-02	1.04E-02
Avg	0.00E+00	0.00E+00	4.22E-09	6.83E-04	1.39E-03	1.88E-03	8.58E-03	6.04E-03
Std	0.00E+00	0.00E+00	1.26E-07	5.71E-03	8.02E-03	8.63E-03	1.30E-02	4.39E-03
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	3.80E-06	5.11E-02	4.95E-02	4.42E-02	3.21E-02	1.04E-02
Avg	0.00E+00	0.00E+00	4.22E-09	6.83E-04	1.39E-03	1.88E-03	8.58E-03	6.04E-03
Std	0.00E+00	0.00E+00	1.26E-07	5.71E-03	8.02E-03	8.63E-03	1.30E-02	4.39E-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	3.17E-03	3.21E-03	3.29E-03	3.58E-03	4.30E-03	0.00E+00	0.00E+00	0.00E+00
Max	6.49E+02	6.30E+02	5.94E+02	4.86E+02	2.91E+02	1.03E+02	3.34E+01	3.14E+00
Avg	1.07E+01	1.07E+01	1.05E+01	1.00E+01	8.81E+00	6.34E+00	3.28E+00	5.01E-01
Std	4.02E+01	3.94E+01	3.79E+01	3.35E+01	2.48E+01	1.35E+01	5.37E+00	6.17E-01
ALL								
Min	3.17E-03	3.21E-03	3.29E-03	3.58E-03	4.30E-03	0.00E+00	0.00E+00	0.00E+00
Max	6.49E+02	6.30E+02	5.94E+02	4.86E+02	2.91E+02	1.03E+02	3.34E+01	3.14E+00
Avg	1.07E+01	1.07E+01	1.05E+01	1.00E+01	8.81E+00	6.34E+00	3.28E+00	5.01E-01
Std	4.02E+01	3.94E+01	3.79E+01	3.35E+01	2.48E+01	1.35E+01	5.37E+00	6.17E-01

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Probabilistic Dose vs Pathway(i): Fish 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	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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	2.67E-04	2.71E-04	2.75E-04	2.84E-04	3.05E-04	0.00E+00	0.00E+00	0.00E+00
Max	9.58E+01	9.30E+01	8.78E+01	7.16E+01	3.99E+01	1.63E+01	7.59E+00	6.47E-01
Avg	9.56E-01	9.49E-01	9.35E-01	8.90E-01	7.87E-01	5.75E-01	3.02E-01	4.60E-02
Std	4.05E+00	3.96E+00	3.80E+00	3.32E+00	2.42E+00	1.42E+00	6.27E-01	7.07E-02
ALL								
Min	2.67E-04	2.71E-04	2.75E-04	2.84E-04	3.05E-04	0.00E+00	0.00E+00	0.00E+00
Max	9.58E+01	9.30E+01	8.78E+01	7.16E+01	3.99E+01	1.63E+01	7.59E+00	6.47E-01
Avg	9.56E-01	9.49E-01	9.35E-01	8.90E-01	7.87E-01	5.75E-01	3.02E-01	4.60E-02
Std	4.05E+00	3.96E+00	3.80E+00	3.32E+00	2.42E+00	1.42E+00	6.27E-01	7.07E-02

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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	1.91E-06	2.58E-06	3.93E-06	8.50E-06	1.99E-05	0.00E+00	0.00E+00	0.00E+00
Max	4.08E-01	3.97E-01	3.74E-01	3.05E-01	1.70E-01	4.84E-02	1.75E-02	2.07E-03
Avg	5.55E-03	5.51E-03	5.43E-03	5.17E-03	4.57E-03	3.34E-03	1.79E-03	2.97E-04
Std	2.09E-02	2.05E-02	1.97E-02	1.73E-02	1.27E-02	6.94E-03	2.83E-03	3.28E-04
ALL								
Min	1.91E-06	2.58E-06	3.93E-06	8.50E-06	1.99E-05	0.00E+00	0.00E+00	0.00E+00
Max	4.08E-01	3.97E-01	3.74E-01	3.05E-01	1.70E-01	4.84E-02	1.75E-02	2.07E-03
Avg	5.55E-03	5.51E-03	5.43E-03	5.17E-03	4.57E-03	3.34E-03	1.79E-03	2.97E-04
Std	2.09E-02	2.05E-02	1.97E-02	1.73E-02	1.27E-02	6.94E-03	2.83E-03	3.28E-04

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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	5.47E-07	5.86E-07	6.62E-07	9.23E-07	1.59E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.43E-01	1.39E-01	1.31E-01	1.07E-01	5.98E-02	1.55E-02	5.90E-03	7.38E-04
Avg	1.80E-03	1.79E-03	1.76E-03	1.68E-03	1.48E-03	1.07E-03	5.61E-04	8.67E-05
Std	6.89E-03	6.75E-03	6.49E-03	5.68E-03	4.13E-03	2.27E-03	9.40E-04	1.09E-04
ALL								
Min	5.47E-07	5.86E-07	6.62E-07	9.23E-07	1.59E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.43E-01	1.39E-01	1.31E-01	1.07E-01	5.98E-02	1.55E-02	5.90E-03	7.38E-04
Avg	1.80E-03	1.79E-03	1.76E-03	1.68E-03	1.48E-03	1.07E-03	5.61E-04	8.67E-05
Std	6.89E-03	6.75E-03	6.49E-03	5.68E-03	4.13E-03	2.27E-03	9.40E-04	1.09E-04

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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	1.80E-01	1.80E-01	1.79E-01	1.78E-01	1.91E-01	1.88E-01	2.06E-01	0.00E+00
0.050	3.38E-01	3.48E-01	3.74E-01	3.74E-01	3.73E-01	3.85E-01	3.67E-01	4.53E-02
0.075	4.56E-01	4.56E-01	4.56E-01	4.69E-01	4.74E-01	4.91E-01	4.53E-01	1.03E-01
0.100	5.85E-01	5.85E-01	5.84E-01	5.83E-01	5.92E-01	5.76E-01	5.07E-01	1.43E-01
0.125	6.56E-01	6.56E-01	6.54E-01	6.56E-01	6.46E-01	6.32E-01	5.51E-01	1.71E-01
0.150	7.09E-01	7.13E-01	7.11E-01	7.10E-01	7.00E-01	6.77E-01	5.99E-01	1.96E-01
0.175	7.61E-01	7.61E-01	7.68E-01	7.73E-01	7.76E-01	7.40E-01	6.33E-01	2.10E-01
0.200	8.31E-01	8.39E-01	8.43E-01	8.40E-01	8.32E-01	7.79E-01	6.57E-01	2.17E-01
0.225	8.79E-01	8.79E-01	8.79E-01	8.88E-01	8.88E-01	8.41E-01	7.13E-01	2.24E-01
0.250	9.66E-01	9.66E-01	9.65E-01	9.88E-01	9.78E-01	9.12E-01	7.67E-01	2.34E-01
0.275	1.05E+00	1.05E+00	1.05E+00	1.06E+00	1.04E+00	9.61E-01	8.05E-01	2.41E-01
0.300	1.11E+00	1.11E+00	1.11E+00	1.13E+00	1.11E+00	1.05E+00	8.58E-01	2.51E-01
0.325	1.22E+00	1.22E+00	1.22E+00	1.23E+00	1.21E+00	1.14E+00	9.08E-01	2.62E-01
0.350	1.37E+00	1.37E+00	1.37E+00	1.36E+00	1.34E+00	1.23E+00	9.80E-01	2.76E-01
0.375	1.48E+00	1.48E+00	1.48E+00	1.47E+00	1.44E+00	1.32E+00	1.04E+00	2.87E-01
0.400	1.62E+00	1.62E+00	1.61E+00	1.60E+00	1.57E+00	1.44E+00	1.11E+00	3.06E-01
0.425	1.77E+00	1.77E+00	1.77E+00	1.75E+00	1.71E+00	1.57E+00	1.20E+00	3.28E-01
0.450	1.94E+00	1.93E+00	1.93E+00	1.91E+00	1.86E+00	1.71E+00	1.31E+00	3.46E-01
0.475	2.09E+00	2.08E+00	2.08E+00	2.05E+00	2.04E+00	1.88E+00	1.40E+00	3.72E-01
0.500	2.27E+00	2.27E+00	2.26E+00	2.25E+00	2.21E+00	2.02E+00	1.51E+00	3.94E-01
0.525	2.54E+00	2.54E+00	2.53E+00	2.51E+00	2.45E+00	2.22E+00	1.65E+00	4.22E-01
0.550	2.83E+00	2.82E+00	2.82E+00	2.80E+00	2.73E+00	2.47E+00	1.82E+00	4.57E-01
0.575	3.11E+00	3.11E+00	3.10E+00	3.06E+00	2.99E+00	2.72E+00	1.97E+00	4.86E-01
0.600	3.47E+00	3.47E+00	3.46E+00	3.41E+00	3.35E+00	3.03E+00	2.16E+00	5.32E-01
0.625	3.95E+00	3.94E+00	3.93E+00	3.90E+00	3.80E+00	3.42E+00	2.45E+00	5.94E-01
0.650	4.56E+00	4.55E+00	4.53E+00	4.50E+00	4.35E+00	3.85E+00	2.70E+00	6.53E-01
0.675	5.05E+00	5.04E+00	5.03E+00	4.98E+00	4.83E+00	4.35E+00	3.03E+00	7.21E-01
0.700	5.77E+00	5.76E+00	5.74E+00	5.68E+00	5.49E+00	4.89E+00	3.44E+00	8.00E-01
0.725	6.65E+00	6.64E+00	6.62E+00	6.54E+00	6.34E+00	5.60E+00	3.75E+00	8.62E-01
0.750	7.30E+00	7.28E+00	7.26E+00	7.17E+00	6.94E+00	6.17E+00	4.27E+00	9.46E-01
0.775	8.64E+00	8.62E+00	8.59E+00	8.49E+00	8.20E+00	7.25E+00	4.99E+00	1.02E+00
0.800	1.00E+01	1.00E+01	9.99E+00	9.86E+00	9.51E+00	8.38E+00	5.51E+00	1.13E+00
0.825	1.19E+01	1.18E+01	1.18E+01	1.16E+01	1.12E+01	9.79E+00	6.38E+00	1.22E+00
0.850	1.44E+01	1.44E+01	1.43E+01	1.41E+01	1.35E+01	1.16E+01	7.66E+00	1.37E+00
0.875	1.76E+01	1.75E+01	1.75E+01	1.72E+01	1.66E+01	1.44E+01	8.86E+00	1.49E+00
0.900	2.37E+01	2.37E+01	2.36E+01	2.32E+01	2.21E+01	1.88E+01	1.14E+01	1.64E+00
0.925	3.24E+01	3.23E+01	3.22E+01	3.17E+01	3.01E+01	2.47E+01	1.37E+01	1.82E+00
0.950	4.72E+01	4.70E+01	4.68E+01	4.59E+01	4.35E+01	3.60E+01	1.69E+01	2.11E+00
0.975	8.66E+01	8.64E+01	8.60E+01	8.46E+01	7.89E+01	5.68E+01	2.21E+01	2.53E+00
1.000	7.45E+02	7.23E+02	6.82E+02	5.56E+02	3.10E+02	1.08E+02	3.55E+01	3.59E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	1.15E-02	7.45E+02	1.27E+01	2.36E+00	2.42E+01	4.71E+01	9.16E+01	2.06E+02
1.00E+00	1.15E-02	7.23E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.13E+01	2.05E+02
1.06E+00	1.15E-02	7.22E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.13E+01	2.05E+02
1.12E+00	1.15E-02	7.21E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.13E+01	2.04E+02
1.19E+00	1.16E-02	7.20E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.13E+01	2.04E+02
1.25E+00	1.16E-02	7.18E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.12E+01	2.04E+02
1.33E+00	1.16E-02	7.17E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.12E+01	2.04E+02
1.40E+00	1.16E-02	7.15E+02	1.26E+01	2.35E+00	2.41E+01	4.69E+01	9.12E+01	2.04E+02
1.49E+00	1.16E-02	7.13E+02	1.25E+01	2.35E+00	2.41E+01	4.69E+01	9.12E+01	2.04E+02
1.57E+00	1.16E-02	7.11E+02	1.25E+01	2.35E+00	2.41E+01	4.69E+01	9.12E+01	2.04E+02
1.66E+00	1.16E-02	7.10E+02	1.25E+01	2.35E+00	2.41E+01	4.69E+01	9.11E+01	2.04E+02
1.76E+00	1.16E-02	7.08E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.11E+01	2.04E+02
1.86E+00	1.16E-02	7.05E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.11E+01	2.03E+02
1.97E+00	1.16E-02	7.03E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.10E+01	2.03E+02
2.09E+00	1.16E-02	7.01E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.10E+01	2.03E+02
2.21E+00	1.16E-02	6.98E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.10E+01	2.03E+02
2.24E+00	1.16E-02	6.96E+02	1.25E+01	2.35E+00	2.41E+01	4.68E+01	9.09E+01	2.03E+02
2.27E+00	1.16E-02	6.93E+02	1.24E+01	2.35E+00	2.41E+01	4.67E+01	9.09E+01	2.03E+02
2.26E+00	1.16E-02	6.90E+02	1.24E+01	2.35E+00	2.41E+01	4.67E+01	9.09E+01	2.02E+02
2.27E+00	1.16E-02	6.87E+02	1.24E+01	2.35E+00	2.40E+01	4.67E+01	9.08E+01	2.02E+02
2.29E+00	1.16E-02	6.84E+02	1.24E+01	2.35E+00	2.40E+01	4.67E+01	9.08E+01	2.02E+02
3.00E+00	1.16E-02	6.82E+02	1.24E+01	2.35E+00	2.40E+01	4.67E+01	9.08E+01	2.02E+02
3.10E+00	1.16E-02	6.80E+02	1.24E+01	2.35E+00	2.40E+01	4.67E+01	9.07E+01	2.02E+02
3.28E+00	1.16E-02	6.77E+02	1.24E+01	2.35E+00	2.40E+01	4.66E+01	9.07E+01	2.02E+02
3.48E+00	1.16E-02	6.73E+02	1.23E+01	2.34E+00	2.40E+01	4.66E+01	9.06E+01	2.01E+02
3.68E+00	1.16E-02	6.69E+02	1.23E+01	2.34E+00	2.40E+01	4.66E+01	9.06E+01	2.01E+02
3.89E+00	1.16E-02	6.65E+02	1.23E+01	2.34E+00	2.40E+01	4.66E+01	9.05E+01	2.01E+02
4.12E+00	1.16E-02	6.61E+02	1.23E+01	2.34E+00	2.40E+01	4.65E+01	9.04E+01	2.00E+02
4.36E+00	1.16E-02	6.56E+02	1.22E+01	2.34E+00	2.40E+01	4.65E+01	9.04E+01	2.00E+02
4.61E+00	1.17E-02	6.51E+02	1.22E+01	2.34E+00	2.40E+01	4.65E+01	9.03E+01	2.00E+02
4.88E+00	1.17E-02	6.46E+02	1.22E+01	2.34E+00	2.39E+01	4.64E+01	9.02E+01	1.99E+02
5.17E+00	1.17E-02	6.41E+02	1.22E+01	2.34E+00	2.39E+01	4.64E+01	9.01E+01	1.99E+02
5.47E+00	1.17E-02	6.35E+02	1.21E+01	2.34E+00	2.39E+01	4.64E+01	9.01E+01	1.99E+02
5.78E+00	1.17E-02	6.29E+02	1.21E+01	2.34E+00	2.39E+01	4.63E+01	9.00E+01	1.98E+02
6.12E+00	1.17E-02	6.23E+02	1.21E+01	2.33E+00	2.39E+01	4.63E+01	8.99E+01	1.98E+02
6.48E+00	1.17E-02	6.17E+02	1.20E+01	2.33E+00	2.39E+01	4.62E+01	8.98E+01	1.97E+02
6.86E+00	1.17E-02	6.10E+02	1.20E+01	2.33E+00	2.38E+01	4.62E+01	8.97E+01	1.97E+02
7.26E+00	1.17E-02	6.03E+02	1.20E+01	2.33E+00	2.38E+01	4.61E+01	8.96E+01	1.96E+02
7.68E+00	1.17E-02	5.95E+02	1.19E+01	2.33E+00	2.38E+01	4.61E+01	8.94E+01	1.96E+02
8.13E+00	1.18E-02	5.88E+02	1.19E+01	2.33E+00	2.38E+01	4.60E+01	8.93E+01	1.95E+02
8.60E+00	1.18E-02	5.80E+02	1.18E+01	2.33E+00	2.37E+01	4.60E+01	8.92E+01	1.94E+02
9.10E+00	1.18E-02	5.71E+02	1.18E+01	2.32E+00	2.37E+01	4.59E+01	8.91E+01	1.94E+02
9.63E+00	1.18E-02	5.62E+02	1.17E+01	2.32E+00	2.37E+01	4.58E+01	8.89E+01	1.93E+02
1.00E+01	1.18E-02	5.56E+02	1.17E+01	2.32E+00	2.37E+01	4.58E+01	8.88E+01	1.93E+02
1.02E+01	1.18E-02	5.53E+02	1.17E+01	2.32E+00	2.37E+01	4.58E+01	8.88E+01	1.92E+02
1.08E+01	1.18E-02	5.44E+02	1.16E+01	2.32E+00	2.36E+01	4.57E+01	8.86E+01	1.92E+02
1.14E+01	1.19E-02	5.34E+02	1.16E+01	2.32E+00	2.36E+01	4.56E+01	8.84E+01	1.91E+02
1.21E+01	1.19E-02	5.24E+02	1.15E+01	2.31E+00	2.36E+01	4.55E+01	8.82E+01	1.90E+02
1.28E+01	1.19E-02	5.13E+02	1.14E+01	2.31E+00	2.35E+01	4.54E+01	8.79E+01	1.89E+02
1.35E+01	1.19E-02	5.02E+02	1.14E+01	2.31E+00	2.35E+01	4.54E+01	8.77E+01	1.88E+02
1.43E+01	1.19E-02	4.91E+02	1.13E+01	2.30E+00	2.35E+01	4.53E+01	8.74E+01	1.87E+02
1.51E+01	1.20E-02	4.79E+02	1.12E+01	2.30E+00	2.34E+01	4.52E+01	8.72E+01	1.86E+02
1.60E+01	1.20E-02	4.67E+02	1.12E+01	2.30E+00	2.34E+01	4.50E+01	8.69E+01	1.85E+02
1.70E+01	1.20E-02	4.54E+02	1.11E+01	2.29E+00	2.33E+01	4.49E+01	8.66E+01	1.84E+02
1.80E+01	1.20E-02	4.41E+02	1.10E+01	2.29E+00	2.33E+01	4.48E+01	8.63E+01	1.83E+02
1.90E+01	1.21E-02	4.28E+02	1.09E+01	2.29E+00	2.32E+01	4.47E+01	8.60E+01	1.81E+02

2.01E+01 1.21E-02 4.14E+02 1.09E+01 2.28E+00 2.32E+01 4.45E+01 8.56E+01 1.80E+02

2.13E+01 1.21E-02 4.00E+02 1.08E+01 2.28E+00 2.31E+01 4.44E+01 8.52E+01 1.78E+02

2.25E+01 1.22E-02 3.86E+02 1.07E+01 2.27E+00 2.30E+01 4.42E+01 8.49E+01 1.77E+02

2.38E+01 1.22E-02 3.72E+02 1.06E+01 2.27E+00 2.30E+01 4.41E+01 8.45E+01 1.75E+02

2.52E+01 1.22E-02 3.57E+02 1.05E+01 2.26E+00 2.29E+01 4.39E+01 8.40E+01 1.74E+02



2.67E+01 1.23E-02 3.42E+02 1.04E+01 2.26E+00 2.28E+01 4.37E+01 8.36E+01 1.72E+02

2.82E+01 1.23E-02 3.27E+02 1.03E+01 2.25E+00 2.27E+01 4.36E+01 8.31E+01 1.70E+02

2.99E+01 1.24E-02 3.11E+02 1.02E+01 2.25E+00 2.26E+01 4.34E+01 8.26E+01 1.68E+02

3.00E+01 1.24E-02 3.10E+02 1.02E+01 2.25E+00 2.26E+01 4.34E+01 8.26E+01 1.68E+02

3.16E+01 1.24E-02 2.96E+02 1.01E+01 2.24E+00 2.25E+01 4.32E+01 8.21E+01 1.66E+02

3.35E+01 1.24E-02 2.81E+02 9.94E+00 2.25E+00 2.24E+01 4.29E+01 8.15E+01 1.64E+02

3.54E+01 1.25E-02 2.65E+02 9.83E+00 2.26E+00 2.23E+01 4.27E+01 8.10E+01 1.62E+02

3.75E+01 1.25E-02 2.50E+02 9.71E+00 2.25E+00 2.22E+01 4.25E+01 8.04E+01 1.60E+02



3.97E+01 1.26E-02 2.34E+02 9.59E+00 2.25E+00 2.21E+01 4.22E+01 7.97E+01 1.58E+02

4.20E+01 1.26E-02 2.19E+02 9.46E+00 2.24E+00 2.20E+01 4.20E+01 7.90E+01 1.55E+02

4.44E+01 1.27E-02 2.04E+02 9.33E+00 2.23E+00 2.19E+01 4.17E+01 7.83E+01 1.53E+02

4.70E+01 1.28E-02 1.89E+02 9.20E+00 2.22E+00 2.17E+01 4.14E+01 7.76E+01 1.50E+02

4.97E+01 1.28E-02 1.74E+02 9.07E+00 2.21E+00 2.16E+01 4.11E+01 7.68E+01 1.47E+02

5.26E+01 1.29E-02 1.60E+02 8.94E+00 2.20E+00 2.14E+01 4.07E+01 7.60E+01 1.44E+02

5.57E+01 1.29E-02 1.47E+02 8.80E+00 2.19E+00 2.13E+01 4.04E+01 7.52E+01 1.41E+02

5.90E+01 1.30E-02 1.39E+02 8.66E+00 2.18E+00 2.11E+01 4.00E+01 7.43E+01 1.33E+02



6.24E+01 1.31E-02 1.35E+02 8.52E+00 2.16E+00 2.10E+01 3.97E+01 7.34E+01 1.21E+02

6.60E+01 1.31E-02 1.32E+02 8.38E+00 2.15E+00 2.08E+01 3.93E+01 7.24E+01 1.12E+02

99E+01 1.32E-02 1.29E+02 8.23E+00 2.14E+00 2.06E+01 3.89E+01 7.14E+01 1.10E+02

7.39E+01 1.33E-02 1.25E+02 8.08E+00 2.12E+00 2.04E+01 3.84E+01 7.03E+01 1.07E+02

7.82E+01 1.33E-02 1.22E+02 7.94E+00 2.12E+00 2.02E+01 3.80E+01 6.92E+01 1.05E+02

8.28E+01 1.34E-02 1.18E+02 7.79E+00 2.12E+00 2.00E+01 3.75E+01 6.61E+01 1.02E+02

8.76E+01 1.35E-02 1.14E+02 7.64E+00 2.10E+00 1.97E+01 3.70E+01 6.26E+01 9.63E+01

9.27E+01 1.35E-02 1.10E+02 7.48E+00 2.08E+00 1.95E+01 3.65E+01 6.15E+01 9.06E+01



9.81E+01 1.36E-02 1.06E+02 7.33E+00 2.06E+00 1.92E+01 3.60E+01 6.04E+01 8.49E+01

1.00E+02 1.36E-02 1.05E+02 7.28E+00 2.06E+00 1.92E+01 3.58E+01 6.00E+01 8.30E+01

1.04E+02 1.37E-02 1.02E+02 7.17E+00 2.04E+00 1.90E+01 3.54E+01 5.92E+01 7.92E+01

1.10E+02 1.38E-02 9.83E+01 7.02E+00 2.02E+00 1.87E+01 3.16E+01 5.80E+01 7.37E+01

1.16E+02 1.38E-02 9.41E+01 6.86E+00 1.99E+00 1.84E+01 3.10E+01 5.68E+01 7.06E+01

1.23E+02 1.39E-02 8.99E+01 6.70E+00 1.97E+00 1.81E+01 3.05E+01 5.55E+01 6.82E+01

1.30E+02 1.39E-02 8.56E+01 6.54E+00 1.95E+00 1.66E+01 3.00E+01 5.38E+01 6.57E+01

1.38E+02 1.40E-02 8.13E+01 6.38E+00 1.94E+00 1.61E+01 2.94E+01 5.20E+01 6.33E+01



1.46E+02 1.41E-02 7.71E+01 6.21E+00 1.92E+00 1.58E+01 2.88E+01 4.88E+01 6.08E+01

1.54E+02 1.41E-02 7.28E+01 6.05E+00 1.91E+00 1.55E+01 2.82E+01 4.52E+01 5.83E+01

1.63E+02 1.41E-02 6.85E+01 5.88E+00 1.89E+00 1.52E+01 2.75E+01 4.23E+01 5.57E+01

1.73E+02 1.42E-02 6.42E+01 5.71E+00 1.86E+00 1.49E+01 2.69E+01 4.06E+01 5.31E+01

1.83E+02 1.42E-02 6.03E+01 5.54E+00 1.83E+00 1.46E+01 2.62E+01 3.88E+01 5.05E+01

1.94E+02 1.42E-02 5.70E+01 5.37E+00 1.80E+00 1.43E+01 2.55E+01 3.71E+01 4.78E+01

2.05E+02 1.42E-02 5.37E+01 5.20E+00 1.77E+00 1.40E+01 2.34E+01 3.53E+01 4.52E+01

2.17E+02 1.42E-02 5.05E+01 5.03E+00 1.73E+00 1.36E+01 2.26E+01 3.35E+01 4.26E+01



2.29E+02 1.42E-02 4.72E+01 4.85E+00 1.70E+00 1.33E+01 2.19E+01 3.17E+01 4.03E+01

2.43E+02 1.42E-02 4.40E+01 4.67E+00 1.66E+00 1.29E+01 2.12E+01 3.02E+01 3.83E+01

2.57E+02 1.41E-02 4.08E+01 4.49E+00 1.62E+00 1.25E+01 2.05E+01 2.89E+01 3.63E+01

2.72E+02 1.41E-02 3.77E+01 4.30E+00 1.58E+00 1.20E+01 1.97E+01 2.77E+01 3.39E+01

2.88E+02 1.40E-02 3.47E+01 4.11E+00 1.53E+00 1.16E+01 1.90E+01 2.64E+01 3.21E+01

3.00E+02 1.39E-02 3.25E+01 3.97E+00 1.49E+00 1.13E+01 1.84E+01 2.54E+01 3.07E+01

3.05E+02 1.39E-02 3.17E+01 3.92E+00 1.47E+00 1.12E+01 1.82E+01 2.49E+01 3.02E+01

3.22E+02 0.00E+00 2.89E+01 3.74E+00 1.41E+00 1.06E+01 1.73E+01 2.28E+01 2.83E+01



3.41E+02 0.00E+00 2.66E+01 3.55E+00 1.36E+00 9.99E+00 1.55E+01 2.08E+01 2.62E+01

3.61E+02 0.00E+00 2.48E+01 3.37E+00 1.32E+00 9.39E+00 1.46E+01 1.91E+01 2.36E+01

3.82E+02 0.00E+00 2.30E+01 3.18E+00 1.29E+00 8.79E+00 1.36E+01 1.79E+01 2.18E+01

4.04E+02 0.00E+00 2.13E+01 2.99E+00 1.23E+00 8.14E+00 1.21E+01 1.64E+01 2.05E+01

4.28E+02 0.00E+00 1.96E+01 2.82E+00 1.19E+00 7.65E+00 1.08E+01 1.50E+01 1.89E+01

4.53E+02 0.00E+00 1.80E+01 2.64E+00 1.14E+00 7.18E+00 9.68E+00 1.40E+01 1.72E+01

4.79E+02 0.00E+00 1.67E+01 2.47E+00 1.08E+00 6.73E+00 8.81E+00 1.28E+01 1.55E+01

5.07E+02 0.00E+00 1.55E+01 2.30E+00 1.04E+00 6.27E+00 8.24E+00 1.18E+01 1.39E+01



5.36E+02 0.00E+00 1.43E+01 2.13E+00 9.86E-01 5.70E+00 7.73E+00 1.08E+01 1.24E+01

5.68E+02 0.00E+00 1.31E+01 1.97E+00 9.34E-01 5.16E+00 6.98E+00 9.77E+00 1.10E+01

0.01E+02 0.00E+00 1.19E+01 1.82E+00 8.78E-01 4.73E+00 6.33E+00 8.98E+00 9.73E+00

6.36E+02 0.00E+00 1.08E+01 1.67E+00 8.25E-01 4.39E+00 5.64E+00 8.18E+00 8.51E+00

6.73E+02 0.00E+00 9.79E+00 1.52E+00 7.78E-01 3.98E+00 5.21E+00 7.38E+00 7.64E+00

7.12E+02 0.00E+00 8.78E+00 1.38E+00 7.28E-01 3.52E+00 4.73E+00 6.46E+00 6.92E+00

7.53E+02 0.00E+00 7.84E+00 1.24E+00 6.61E-01 3.15E+00 4.24E+00 5.61E+00 6.15E+00

7.97E+02 0.00E+00 6.93E+00 1.12E+00 6.06E-01 2.73E+00 3.66E+00 4.84E+00 5.48E+00



8.44E+02 0.00E+00 5.96E+00 9.97E-01 5.39E-01 2.44E+00 3.32E+00 4.19E+00 4.89E+00

8.93E+02 0.00E+00 5.09E+00 8.85E-01 4.82E-01 2.21E+00 2.90E+00 3.64E+00 4.34E+00

9.45E+02 0.00E+00 4.30E+00 7.78E-01 4.26E-01 1.93E+00 2.53E+00 3.15E+00 3.82E+00

1.00E+03 0.00E+00 3.59E+00 6.82E-01 3.77E-01 1.69E+00 2.16E+00 2.71E+00 3.33E+00

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Probabilistic results summary : RESRAD Default Parameters

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

Summary of dose at graphical times, reptition 2

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	5.01E-02	6.52E+02	1.22E+01	2.20E+00	2.35E+01	4.99E+01	9.43E+01	1.86E+02
1.00E+00	5.01E-02	6.35E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.38E+01	1.85E+02
1.06E+00	5.01E-02	6.35E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.38E+01	1.85E+02
1.12E+00	5.01E-02	6.34E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.38E+01	1.85E+02
1.19E+00	5.01E-02	6.32E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.38E+01	1.85E+02
1.25E+00	5.01E-02	6.31E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.37E+01	1.85E+02
1.33E+00	5.01E-02	6.30E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.37E+01	1.85E+02
1.40E+00	5.01E-02	6.29E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.37E+01	1.85E+02
1.49E+00	5.01E-02	6.28E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.36E+01	1.85E+02
1.57E+00	5.01E-02	6.26E+02	1.21E+01	2.20E+00	2.34E+01	4.97E+01	9.36E+01	1.84E+02
1.66E+00	5.01E-02	6.25E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.35E+01	1.84E+02
1.76E+00	5.01E-02	6.23E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.35E+01	1.84E+02
1.86E+00	5.01E-02	6.22E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.34E+01	1.84E+02
1.97E+00	5.01E-02	6.20E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.34E+01	1.84E+02
2.09E+00	5.01E-02	6.18E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.33E+01	1.84E+02
2.21E+00	5.00E-02	6.16E+02	1.20E+01	2.20E+00	2.34E+01	4.96E+01	9.33E+01	1.84E+02
2.24E+00	5.00E-02	6.14E+02	1.20E+01	2.19E+00	2.34E+01	4.95E+01	9.32E+01	1.83E+02
2.27E+00	5.00E-02	6.12E+02	1.20E+01	2.19E+00	2.34E+01	4.95E+01	9.31E+01	1.83E+02
2.26E+00	5.00E-02	6.10E+02	1.20E+01	2.19E+00	2.33E+01	4.95E+01	9.31E+01	1.83E+02
2.27E+00	5.00E-02	6.07E+02	1.20E+01	2.19E+00	2.33E+01	4.95E+01	9.30E+01	1.83E+02
2.29E+00	5.00E-02	6.05E+02	1.19E+01	2.19E+00	2.33E+01	4.95E+01	9.29E+01	1.83E+02
3.00E+00	5.00E-02	6.04E+02	1.19E+01	2.19E+00	2.33E+01	4.94E+01	9.29E+01	1.83E+02
3.10E+00	5.00E-02	6.02E+02	1.19E+01	2.19E+00	2.33E+01	4.94E+01	9.28E+01	1.83E+02
3.28E+00	5.00E-02	5.99E+02	1.19E+01	2.19E+00	2.33E+01	4.94E+01	9.28E+01	1.82E+02
3.48E+00	5.00E-02	5.96E+02	1.19E+01	2.19E+00	2.33E+01	4.94E+01	9.27E+01	1.82E+02
3.68E+00	5.00E-02	5.93E+02	1.19E+01	2.19E+00	2.33E+01	4.93E+01	9.26E+01	1.82E+02
3.89E+00	5.00E-02	5.90E+02	1.19E+01	2.19E+00	2.33E+01	4.93E+01	9.25E+01	1.82E+02
4.12E+00	5.00E-02	5.87E+02	1.18E+01	2.19E+00	2.33E+01	4.93E+01	9.24E+01	1.81E+02
4.36E+00	5.00E-02	5.83E+02	1.18E+01	2.19E+00	2.32E+01	4.92E+01	9.22E+01	1.81E+02
4.61E+00	5.00E-02	5.79E+02	1.18E+01	2.19E+00	2.32E+01	4.92E+01	9.21E+01	1.81E+02
4.88E+00	5.00E-02	5.75E+02	1.18E+01	2.19E+00	2.32E+01	4.92E+01	9.20E+01	1.80E+02
5.17E+00	5.00E-02	5.71E+02	1.17E+01	2.18E+00	2.32E+01	4.91E+01	9.19E+01	1.80E+02
5.47E+00	5.00E-02	5.67E+02	1.17E+01	2.18E+00	2.32E+01	4.91E+01	9.17E+01	1.80E+02
5.78E+00	5.00E-02	5.62E+02	1.17E+01	2.18E+00	2.32E+01	4.90E+01	9.16E+01	1.79E+02
6.12E+00	5.00E-02	5.57E+02	1.17E+01	2.18E+00	2.31E+01	4.90E+01	9.14E+01	1.79E+02
6.48E+00	4.99E-02	5.52E+02	1.16E+01	2.18E+00	2.31E+01	4.89E+01	9.12E+01	1.79E+02
6.86E+00	4.99E-02	5.47E+02	1.16E+01	2.18E+00	2.31E+01	4.89E+01	9.11E+01	1.78E+02
7.26E+00	4.99E-02	5.41E+02	1.16E+01	2.18E+00	2.31E+01	4.88E+01	9.09E+01	1.78E+02
7.68E+00	4.99E-02	5.36E+02	1.15E+01	2.18E+00	2.31E+01	4.87E+01	9.07E+01	1.77E+02
8.13E+00	4.99E-02	5.30E+02	1.15E+01	2.17E+00	2.30E+01	4.87E+01	9.05E+01	1.77E+02
8.60E+00	4.99E-02	5.23E+02	1.15E+01	2.17E+00	2.30E+01	4.86E+01	9.03E+01	1.76E+02
9.10E+00	4.99E-02	5.16E+02	1.14E+01	2.17E+00	2.30E+01	4.85E+01	9.00E+01	1.76E+02
9.63E+00	4.99E-02	5.10E+02	1.14E+01	2.17E+00	2.29E+01	4.84E+01	8.98E+01	1.75E+02
1.00E+01	4.99E-02	5.05E+02	1.14E+01	2.17E+00	2.29E+01	4.84E+01	8.96E+01	1.74E+02
1.02E+01	4.98E-02	5.02E+02	1.13E+01	2.17E+00	2.29E+01	4.84E+01	8.95E+01	1.74E+02
1.08E+01	4.98E-02	4.95E+02	1.13E+01	2.16E+00	2.29E+01	4.83E+01	8.92E+01	1.74E+02
1.14E+01	4.98E-02	4.87E+02	1.13E+01	2.16E+00	2.28E+01	4.82E+01	8.90E+01	1.73E+02
1.21E+01	4.98E-02	4.79E+02	1.12E+01	2.16E+00	2.28E+01	4.81E+01	8.87E+01	1.72E+02
1.28E+01	4.98E-02	4.70E+02	1.12E+01	2.16E+00	2.28E+01	4.80E+01	8.83E+01	1.71E+02
1.35E+01	4.98E-02	4.61E+02	1.11E+01	2.16E+00	2.27E+01	4.79E+01	8.80E+01	1.70E+02
1.43E+01	4.97E-02	4.52E+02	1.10E+01	2.15E+00	2.27E+01	4.78E+01	8.76E+01	1.70E+02
1.51E+01	4.97E-02	4.42E+02	1.10E+01	2.15E+00	2.26E+01	4.76E+01	8.73E+01	1.69E+02
1.60E+01	4.97E-02	4.33E+02	1.09E+01	2.15E+00	2.26E+01	4.75E+01	8.69E+01	1.68E+02
1.70E+01	4.97E-02	4.22E+02	1.09E+01	2.14E+00	2.25E+01	4.74E+01	8.65E+01	1.67E+02
1.80E+01	4.96E-02	4.12E+02	1.08E+01	2.14E+00	2.25E+01	4.72E+01	8.60E+01	1.66E+02
1.90E+01	4.96E-02	4.01E+02	1.07E+01	2.14E+00	2.24E+01	4.71E+01	8.56E+01	1.64E+02

2.01E+01 4.96E-02 3.90E+02 1.06E+01 2.13E+00 2.24E+01 4.69E+01 8.51E+01 1.63E+02



2.13E+01 4.96E-02 3.78E+02 1.06E+01 2.13E+00 2.23E+01 4.67E+01 8.46E+01 1.62E+02

2.25E+01 4.95E-02 3.66E+02 1.05E+01 2.12E+00 2.22E+01 4.66E+01 8.40E+01 1.61E+02

2.38E+01 4.95E-02 3.54E+02 1.04E+01 2.12E+00 2.22E+01 4.64E+01 8.35E+01 1.59E+02

2.52E+01 4.95E-02 3.42E+02 1.03E+01 2.11E+00 2.21E+01 4.62E+01 8.29E+01 1.58E+02

2.67E+01 4.94E-02 3.29E+02 1.02E+01 2.11E+00 2.20E+01 4.60E+01 8.23E+01 1.56E+02

2.82E+01 4.94E-02 3.16E+02 1.01E+01 2.11E+00 2.19E+01 4.58E+01 8.17E+01 1.55E+02

2.99E+01 4.93E-02 3.03E+02 1.00E+01 2.10E+00 2.18E+01 4.55E+01 8.11E+01 1.53E+02

3.00E+01 4.93E-02 3.02E+02 1.00E+01 2.10E+00 2.18E+01 4.55E+01 8.11E+01 1.53E+02



3.16E+01 4.93E-02 2.90E+02 9.94E+00 2.10E+00 2.17E+01 4.53E+01 8.04E+01 1.51E+02

3.35E+01 4.92E-02 2.77E+02 9.84E+00 2.09E+00 2.16E+01 4.50E+01 7.98E+01 1.50E+02

3.54E+01 4.92E-02 2.63E+02 9.74E+00 2.09E+00 2.16E+01 4.48E+01 7.90E+01 1.48E+02

3.75E+01 4.91E-02 2.50E+02 9.63E+00 2.08E+00 2.15E+01 4.45E+01 7.83E+01 1.46E+02

3.97E+01 4.91E-02 2.36E+02 9.52E+00 2.08E+00 2.14E+01 4.42E+01 7.75E+01 1.44E+02

4.20E+01 4.90E-02 2.23E+02 9.41E+00 2.07E+00 2.12E+01 4.39E+01 7.67E+01 1.41E+02

4.44E+01 4.89E-02 2.09E+02 9.29E+00 2.06E+00 2.11E+01 4.35E+01 7.58E+01 1.39E+02

4.70E+01 4.88E-02 1.96E+02 9.17E+00 2.05E+00 2.10E+01 4.32E+01 7.49E+01 1.37E+02



4.97E+01 4.88E-02 1.82E+02 9.05E+00 2.04E+00 2.09E+01 4.28E+01 7.40E+01 1.34E+02

5.26E+01 4.87E-02 1.69E+02 8.92E+00 2.03E+00 2.08E+01 4.24E+01 7.30E+01 1.32E+02

5.57E+01 4.86E-02 1.57E+02 8.79E+00 2.03E+00 2.06E+01 4.20E+01 7.20E+01 1.29E+02

5.90E+01 4.85E-02 1.44E+02 8.66E+00 2.02E+00 2.05E+01 4.16E+01 7.09E+01 1.26E+02

6.24E+01 4.84E-02 1.34E+02 8.53E+00 2.01E+00 2.03E+01 4.12E+01 6.98E+01 1.24E+02

6.60E+01 4.83E-02 1.30E+02 8.39E+00 2.00E+00 2.02E+01 4.07E+01 6.86E+01 1.20E+02

99E+01 4.82E-02 1.25E+02 8.25E+00 1.99E+00 2.00E+01 4.03E+01 6.74E+01 1.09E+02

7.39E+01 4.80E-02 1.21E+02 8.11E+00 1.98E+00 1.98E+01 3.98E+01 6.62E+01 1.07E+02



7.82E+01 4.79E-02 1.16E+02 7.97E+00 1.97E+00 1.96E+01 3.92E+01 6.48E+01 1.05E+02

8.28E+01 4.78E-02 1.12E+02 7.82E+00 1.96E+00 1.95E+01 3.87E+01 6.35E+01 1.02E+02

8.76E+01 4.76E-02 1.07E+02 7.67E+00 1.95E+00 1.93E+01 3.81E+01 6.20E+01 1.00E+02

9.27E+01 4.74E-02 1.02E+02 7.52E+00 1.94E+00 1.90E+01 3.75E+01 5.98E+01 9.77E+01

9.81E+01 4.73E-02 9.78E+01 7.37E+00 1.92E+00 1.88E+01 3.69E+01 5.72E+01 9.52E+01

1.00E+02 4.72E-02 9.66E+01 7.32E+00 1.92E+00 1.88E+01 3.67E+01 5.66E+01 9.43E+01

1.04E+02 4.71E-02 9.42E+01 7.22E+00 1.91E+00 1.86E+01 3.63E+01 5.55E+01 9.23E+01

1.10E+02 4.69E-02 9.05E+01 7.06E+00 1.89E+00 1.84E+01 3.55E+01 5.38E+01 8.74E+01



1.16E+02 4.67E-02 8.74E+01 6.90E+00 1.87E+00 1.81E+01 3.32E+01 5.21E+01 8.26E+01

1.23E+02 4.64E-02 8.46E+01 6.74E+00 1.86E+00 1.78E+01 3.24E+01 5.03E+01 7.78E+01

1.30E+02 4.62E-02 8.17E+01 6.58E+00 1.85E+00 1.76E+01 3.19E+01 4.85E+01 7.30E+01

1.38E+02 4.59E-02 7.88E+01 6.42E+00 1.83E+00 1.73E+01 3.12E+01 4.66E+01 6.82E+01

1.46E+02 4.57E-02 7.58E+01 6.25E+00 1.82E+00 1.67E+01 3.06E+01 4.49E+01 6.52E+01

1.54E+02 4.54E-02 7.28E+01 6.09E+00 1.81E+00 1.64E+01 3.00E+01 4.33E+01 6.28E+01

1.63E+02 4.50E-02 6.97E+01 5.92E+00 1.81E+00 1.60E+01 2.90E+01 4.17E+01 6.04E+01

1.73E+02 4.47E-02 6.66E+01 5.75E+00 1.83E+00 1.56E+01 2.80E+01 4.01E+01 5.80E+01



1.83E+02 4.43E-02 6.34E+01 5.58E+00 1.82E+00 1.53E+01 2.70E+01 3.84E+01 5.55E+01

1.94E+02 4.39E-02 6.03E+01 5.40E+00 1.79E+00 1.48E+01 2.59E+01 3.67E+01 5.21E+01

2.05E+02 4.35E-02 5.71E+01 5.23E+00 1.78E+00 1.44E+01 2.48E+01 3.53E+01 4.84E+01

2.17E+02 4.31E-02 5.39E+01 5.05E+00 1.76E+00 1.40E+01 2.38E+01 3.33E+01 4.48E+01

2.29E+02 4.26E-02 5.06E+01 4.87E+00 1.73E+00 1.36E+01 2.27E+01 3.10E+01 4.12E+01

2.43E+02 4.21E-02 4.74E+01 4.68E+00 1.67E+00 1.31E+01 2.18E+01 2.96E+01 3.86E+01

2.57E+02 4.16E-02 4.41E+01 4.49E+00 1.63E+00 1.27E+01 2.06E+01 2.81E+01 3.69E+01

2.72E+02 4.10E-02 4.09E+01 4.30E+00 1.58E+00 1.22E+01 1.94E+01 2.64E+01 3.52E+01



2.88E+02 0.00E+00 3.78E+01 4.11E+00 1.54E+00 1.17E+01 1.82E+01 2.47E+01 3.34E+01

3.00E+02 0.00E+00 3.55E+01 3.94E+00 1.51E+00 1.14E+01 1.72E+01 2.21E+01 2.68E+01

3.05E+02 0.00E+00 3.47E+01 3.88E+00 1.50E+00 1.12E+01 1.68E+01 2.12E+01 2.62E+01

3.22E+02 0.00E+00 3.18E+01 3.64E+00 1.45E+00 1.05E+01 1.56E+01 2.00E+01 2.46E+01

3.41E+02 0.00E+00 2.89E+01 3.46E+00 1.40E+00 1.00E+01 1.48E+01 1.88E+01 2.33E+01

3.61E+02 0.00E+00 2.62E+01 3.28E+00 1.35E+00 9.26E+00 1.38E+01 1.74E+01 2.19E+01

3.82E+02 0.00E+00 2.36E+01 3.10E+00 1.30E+00 8.65E+00 1.31E+01 1.56E+01 2.05E+01

4.04E+02 0.00E+00 2.14E+01 2.92E+00 1.26E+00 8.23E+00 1.24E+01 1.44E+01 1.92E+01



4.28E+02 0.00E+00 1.93E+01 2.75E+00 1.20E+00 7.78E+00 1.15E+01 1.32E+01 1.79E+01

4.53E+02 0.00E+00 1.74E+01 2.58E+00 1.16E+00 7.29E+00 1.06E+01 1.20E+01 1.65E+01

4.79E+02 0.00E+00 1.55E+01 2.41E+00 1.11E+00 6.92E+00 9.85E+00 1.10E+01 1.44E+01

5.07E+02 0.00E+00 1.41E+01 2.24E+00 1.04E+00 6.50E+00 8.95E+00 1.02E+01 1.25E+01

5.36E+02 0.00E+00 1.29E+01 2.07E+00 9.71E-01 5.71E+00 7.91E+00 9.28E+00 1.09E+01

5.68E+02 0.00E+00 1.17E+01 1.91E+00 9.24E-01 5.11E+00 7.23E+00 8.42E+00 9.94E+00

0.01E+02 0.00E+00 1.06E+01 1.76E+00 8.73E-01 4.80E+00 6.28E+00 7.69E+00 9.00E+00

6.36E+02 0.00E+00 9.55E+00 1.61E+00 8.15E-01 4.49E+00 5.44E+00 6.78E+00 7.87E+00



6.73E+02 0.00E+00 8.54E+00 1.47E+00 7.65E-01 4.06E+00 4.91E+00 6.09E+00 6.81E+00

7.12E+02 0.00E+00 7.58E+00 1.34E+00 7.13E-01 3.56E+00 4.37E+00 5.46E+00 6.19E+00

7.53E+02 0.00E+00 6.68E+00 1.21E+00 6.63E-01 3.23E+00 3.92E+00 4.69E+00 5.59E+00

7.97E+02 0.00E+00 5.85E+00 1.09E+00 5.99E-01 2.90E+00 3.51E+00 4.07E+00 4.95E+00

8.44E+02 0.00E+00 5.08E+00 9.76E-01 5.46E-01 2.46E+00 3.10E+00 3.57E+00 4.29E+00

8.93E+02 0.00E+00 4.37E+00 8.68E-01 4.88E-01 2.14E+00 2.72E+00 3.17E+00 3.84E+00

9.45E+02 0.00E+00 3.73E+00 7.68E-01 4.39E-01 1.89E+00 2.36E+00 2.78E+00 3.45E+00

1.00E+03 0.00E+00 3.16E+00 6.74E-01 3.90E-01 1.61E+00 2.04E+00 2.43E+00 3.06E+00



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Probabilistic results summary : RESRAD Default Parameters

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

Summary of dose at graphical times, reptition 3

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	3.38E-02	4.18E+02	1.15E+01	2.41E+00	2.42E+01	5.03E+01	9.60E+01	1.80E+02
1.00E+00	3.38E-02	4.11E+02	1.14E+01	2.40E+00	2.42E+01	5.01E+01	9.57E+01	1.79E+02
1.06E+00	3.38E-02	4.11E+02	1.14E+01	2.40E+00	2.42E+01	5.01E+01	9.56E+01	1.79E+02
1.12E+00	3.38E-02	4.11E+02	1.14E+01	2.40E+00	2.42E+01	5.01E+01	9.56E+01	1.79E+02
1.19E+00	3.38E-02	4.10E+02	1.14E+01	2.40E+00	2.41E+01	5.01E+01	9.56E+01	1.79E+02
1.25E+00	3.38E-02	4.10E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.56E+01	1.79E+02
1.33E+00	3.38E-02	4.09E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.55E+01	1.79E+02
1.40E+00	3.38E-02	4.09E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.55E+01	1.78E+02
1.49E+00	3.38E-02	4.08E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.55E+01	1.78E+02
1.57E+00	3.38E-02	4.08E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.55E+01	1.78E+02
1.66E+00	3.38E-02	4.07E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.54E+01	1.78E+02
1.76E+00	3.38E-02	4.07E+02	1.14E+01	2.40E+00	2.41E+01	5.00E+01	9.54E+01	1.78E+02
1.86E+00	3.38E-02	4.06E+02	1.13E+01	2.40E+00	2.41E+01	4.99E+01	9.54E+01	1.78E+02
1.97E+00	3.38E-02	4.05E+02	1.13E+01	2.40E+00	2.41E+01	4.99E+01	9.53E+01	1.78E+02
2.09E+00	3.38E-02	4.04E+02	1.13E+01	2.40E+00	2.41E+01	4.99E+01	9.53E+01	1.77E+02
2.21E+00	3.38E-02	4.04E+02	1.13E+01	2.40E+00	2.41E+01	4.99E+01	9.52E+01	1.77E+02
2.24E+00	3.38E-02	4.03E+02	1.13E+01	2.40E+00	2.41E+01	4.99E+01	9.52E+01	1.77E+02
2.27E+00	3.38E-02	4.02E+02	1.13E+01	2.40E+00	2.41E+01	4.98E+01	9.51E+01	1.77E+02
2.26E+00	3.38E-02	4.01E+02	1.13E+01	2.40E+00	2.41E+01	4.98E+01	9.51E+01	1.77E+02
2.27E+00	3.38E-02	4.00E+02	1.13E+01	2.40E+00	2.40E+01	4.98E+01	9.50E+01	1.77E+02
2.29E+00	3.38E-02	3.99E+02	1.13E+01	2.40E+00	2.40E+01	4.98E+01	9.50E+01	1.76E+02
3.00E+00	3.38E-02	3.99E+02	1.13E+01	2.40E+00	2.40E+01	4.98E+01	9.49E+01	1.76E+02
3.310E+00	3.38E-02	3.98E+02	1.13E+01	2.40E+00	2.40E+01	4.97E+01	9.49E+01	1.76E+02
3.328E+00	3.38E-02	3.97E+02	1.13E+01	2.40E+00	2.40E+01	4.97E+01	9.48E+01	1.76E+02
3.48E+00	3.38E-02	3.96E+02	1.13E+01	2.40E+00	2.40E+01	4.97E+01	9.48E+01	1.76E+02
3.68E+00	3.38E-02	3.94E+02	1.12E+01	2.39E+00	2.40E+01	4.96E+01	9.47E+01	1.75E+02
3.89E+00	3.38E-02	3.93E+02	1.12E+01	2.39E+00	2.40E+01	4.96E+01	9.46E+01	1.75E+02
4.12E+00	3.38E-02	3.92E+02	1.12E+01	2.39E+00	2.40E+01	4.96E+01	9.45E+01	1.75E+02
4.36E+00	3.38E-02	3.90E+02	1.12E+01	2.39E+00	2.39E+01	4.95E+01	9.44E+01	1.74E+02
4.61E+00	3.38E-02	3.89E+02	1.12E+01	2.39E+00	2.39E+01	4.95E+01	9.44E+01	1.74E+02
4.88E+00	3.38E-02	3.87E+02	1.12E+01	2.39E+00	2.39E+01	4.94E+01	9.43E+01	1.74E+02
5.17E+00	3.38E-02	3.85E+02	1.12E+01	2.39E+00	2.39E+01	4.94E+01	9.42E+01	1.73E+02
5.47E+00	3.38E-02	3.83E+02	1.11E+01	2.39E+00	2.39E+01	4.94E+01	9.40E+01	1.73E+02
5.57E+00	3.38E-02	3.81E+02	1.11E+01	2.39E+00	2.39E+01	4.93E+01	9.39E+01	1.72E+02
6.12E+00	3.38E-02	3.79E+02	1.11E+01	2.39E+00	2.38E+01	4.92E+01	9.38E+01	1.72E+02
6.48E+00	3.38E-02	3.77E+02	1.11E+01	2.38E+00	2.38E+01	4.92E+01	9.37E+01	1.71E+02
6.86E+00	3.38E-02	3.75E+02	1.11E+01	2.38E+00	2.38E+01	4.91E+01	9.36E+01	1.71E+02
7.26E+00	3.38E-02	3.73E+02	1.10E+01	2.38E+00	2.38E+01	4.91E+01	9.34E+01	1.70E+02
7.68E+00	3.38E-02	3.70E+02	1.10E+01	2.38E+00	2.37E+01	4.90E+01	9.33E+01	1.70E+02
8.13E+00	3.38E-02	3.67E+02	1.10E+01	2.38E+00	2.37E+01	4.89E+01	9.31E+01	1.69E+02
8.60E+00	3.38E-02	3.65E+02	1.10E+01	2.38E+00	2.37E+01	4.88E+01	9.29E+01	1.69E+02
9.10E+00	3.38E-02	3.62E+02	1.09E+01	2.37E+00	2.37E+01	4.88E+01	9.28E+01	1.68E+02
9.63E+00	3.37E-02	3.59E+02	1.09E+01	2.37E+00	2.36E+01	4.87E+01	9.26E+01	1.67E+02
1.00E+01	3.37E-02	3.57E+02	1.09E+01	2.37E+00	2.36E+01	4.86E+01	9.24E+01	1.67E+02
1.02E+01	3.37E-02	3.56E+02	1.09E+01	2.37E+00	2.36E+01	4.86E+01	9.24E+01	1.66E+02
1.08E+01	3.37E-02	3.52E+02	1.09E+01	2.37E+00	2.35E+01	4.85E+01	9.22E+01	1.66E+02
1.14E+01	3.37E-02	3.49E+02	1.08E+01	2.37E+00	2.35E+01	4.84E+01	9.19E+01	1.65E+02
1.21E+01	3.37E-02	3.45E+02	1.08E+01	2.37E+00	2.35E+01	4.83E+01	9.17E+01	1.64E+02
1.28E+01	3.37E-02	3.41E+02	1.07E+01	2.36E+00	2.34E+01	4.82E+01	9.15E+01	1.63E+02
1.35E+01	3.37E-02	3.37E+02	1.07E+01	2.36E+00	2.34E+01	4.80E+01	9.12E+01	1.62E+02
1.43E+01	3.37E-02	3.33E+02	1.07E+01	2.36E+00	2.33E+01	4.79E+01	9.09E+01	1.61E+02
1.51E+01	3.37E-02	3.29E+02	1.06E+01	2.36E+00	2.33E+01	4.78E+01	9.06E+01	1.60E+02
1.60E+01	3.37E-02	3.24E+02	1.06E+01	2.35E+00	2.32E+01	4.76E+01	9.03E+01	1.59E+02
1.70E+01	3.37E-02	3.19E+02	1.05E+01	2.35E+00	2.32E+01	4.75E+01	9.00E+01	1.58E+02
1.80E+01	3.37E-02	3.14E+02	1.05E+01	2.35E+00	2.31E+01	4.73E+01	8.97E+01	1.56E+02
1.90E+01	3.37E-02	3.09E+02	1.04E+01	2.34E+00	2.30E+01	4.72E+01	8.93E+01	1.55E+02

2.01E+01 3.37E-02 3.04E+02 1.04E+01 2.34E+00 2.30E+01 4.70E+01 8.89E+01 1.54E+02

2.13E+01 3.37E-02 2.98E+02 1.03E+01 2.33E+00 2.29E+01 4.68E+01 8.85E+01 1.52E+02

2.25E+01 3.37E-02 2.92E+02 1.03E+01 2.33E+00 2.28E+01 4.66E+01 8.81E+01 1.51E+02

2.38E+01 3.37E-02 2.86E+02 1.02E+01 2.32E+00 2.28E+01 4.64E+01 8.77E+01 1.49E+02

2.52E+01 3.37E-02 2.80E+02 1.01E+01 2.32E+00 2.27E+01 4.62E+01 8.72E+01 1.48E+02



2.67E+01 3.37E-02 2.74E+02 1.01E+01 2.31E+00 2.26E+01 4.60E+01 8.67E+01 1.46E+02

2.82E+01 3.37E-02 2.67E+02 9.98E+00 2.31E+00 2.25E+01 4.57E+01 8.62E+01 1.44E+02

2.99E+01 3.37E-02 2.60E+02 9.91E+00 2.30E+00 2.24E+01 4.55E+01 8.57E+01 1.42E+02

3.00E+01 3.37E-02 2.60E+02 9.90E+00 2.30E+00 2.24E+01 4.55E+01 8.56E+01 1.42E+02

3.16E+01 3.37E-02 2.53E+02 9.83E+00 2.30E+00 2.23E+01 4.52E+01 8.51E+01 1.40E+02

3.35E+01 3.37E-02 2.46E+02 9.75E+00 2.29E+00 2.22E+01 4.50E+01 8.45E+01 1.38E+02

3.54E+01 3.36E-02 2.38E+02 9.66E+00 2.29E+00 2.21E+01 4.47E+01 8.39E+01 1.36E+02

3.75E+01 3.36E-02 2.30E+02 9.57E+00 2.28E+00 2.20E+01 4.44E+01 8.32E+01 1.34E+02



3.97E+01 3.36E-02 2.23E+02 9.48E+00 2.27E+00 2.18E+01 4.40E+01 8.25E+01 1.32E+02

4.20E+01 3.36E-02 2.15E+02 9.38E+00 2.27E+00 2.17E+01 4.37E+01 8.18E+01 1.29E+02

4.44E+01 3.36E-02 2.06E+02 9.28E+00 2.26E+00 2.16E+01 4.33E+01 8.10E+01 1.27E+02

4.70E+01 3.36E-02 1.98E+02 9.17E+00 2.25E+00 2.14E+01 4.30E+01 8.02E+01 1.24E+02

4.97E+01 3.35E-02 1.90E+02 9.07E+00 2.24E+00 2.13E+01 4.26E+01 7.94E+01 1.22E+02

5.26E+01 3.35E-02 1.81E+02 8.95E+00 2.23E+00 2.11E+01 4.22E+01 7.85E+01 1.19E+02

5.57E+01 3.35E-02 1.73E+02 8.84E+00 2.23E+00 2.09E+01 4.17E+01 7.76E+01 1.16E+02

5.90E+01 3.35E-02 1.64E+02 8.72E+00 2.22E+00 2.08E+01 4.13E+01 7.67E+01 1.13E+02



6.24E+01 3.34E-02 1.55E+02 8.59E+00 2.21E+00 2.06E+01 4.08E+01 7.57E+01 1.10E+02

6.60E+01 0.00E+00 1.48E+02 8.46E+00 2.19E+00 2.04E+01 4.03E+01 7.46E+01 1.07E+02

99E+01 0.00E+00 1.42E+02 8.33E+00 2.18E+00 2.02E+01 3.98E+01 7.35E+01 1.04E+02

7.39E+01 0.00E+00 1.37E+02 8.20E+00 2.17E+00 2.00E+01 3.93E+01 7.24E+01 1.00E+02

7.82E+01 0.00E+00 1.32E+02 8.06E+00 2.16E+00 1.98E+01 3.87E+01 7.12E+01 9.70E+01

8.28E+01 0.00E+00 1.26E+02 7.91E+00 2.14E+00 1.96E+01 3.82E+01 7.00E+01 9.44E+01

8.76E+01 0.00E+00 1.21E+02 7.77E+00 2.13E+00 1.94E+01 3.76E+01 6.87E+01 9.23E+01

9.27E+01 0.00E+00 1.15E+02 7.62E+00 2.12E+00 1.91E+01 3.69E+01 6.74E+01 9.01E+01



9.81E+01 0.00E+00 1.10E+02 7.47E+00 2.10E+00 1.89E+01 3.63E+01 6.60E+01 8.78E+01

1.00E+02 0.00E+00 1.08E+02 7.41E+00 2.10E+00 1.88E+01 3.61E+01 6.55E+01 8.53E+01

1.04E+02 0.00E+00 1.04E+02 7.31E+00 2.09E+00 1.86E+01 3.56E+01 6.46E+01 8.32E+01

1.10E+02 0.00E+00 9.83E+01 7.15E+00 2.07E+00 1.84E+01 3.49E+01 6.31E+01 8.09E+01

1.16E+02 0.00E+00 9.27E+01 6.99E+00 2.05E+00 1.81E+01 3.42E+01 6.16E+01 7.87E+01

1.23E+02 0.00E+00 8.71E+01 6.82E+00 2.03E+00 1.78E+01 3.34E+01 5.93E+01 7.63E+01

1.30E+02 0.00E+00 8.15E+01 6.66E+00 2.01E+00 1.75E+01 3.27E+01 5.52E+01 7.40E+01

1.38E+02 0.00E+00 7.59E+01 6.48E+00 1.98E+00 1.72E+01 3.19E+01 5.13E+01 7.15E+01



1.46E+02 0.00E+00 7.05E+01 6.31E+00 1.96E+00 1.69E+01 3.10E+01 4.84E+01 6.90E+01

1.54E+02 0.00E+00 6.73E+01 6.14E+00 1.93E+00 1.66E+01 3.02E+01 4.70E+01 6.51E+01

1.63E+02 0.00E+00 6.45E+01 5.96E+00 1.91E+00 1.62E+01 2.94E+01 4.47E+01 5.99E+01

1.73E+02 0.00E+00 6.17E+01 5.79E+00 1.88E+00 1.59E+01 2.83E+01 4.23E+01 5.49E+01

1.83E+02 0.00E+00 5.88E+01 5.61E+00 1.85E+00 1.55E+01 2.73E+01 4.00E+01 5.00E+01

1.94E+02 0.00E+00 5.60E+01 5.43E+00 1.82E+00 1.51E+01 2.64E+01 3.77E+01 4.63E+01

2.05E+02 0.00E+00 5.33E+01 5.25E+00 1.79E+00 1.48E+01 2.54E+01 3.54E+01 4.43E+01

2.17E+02 0.00E+00 5.06E+01 5.06E+00 1.76E+00 1.40E+01 2.44E+01 3.31E+01 4.24E+01



2.29E+02 0.00E+00 4.78E+01 4.88E+00 1.72E+00 1.36E+01 2.28E+01 3.07E+01 4.04E+01

2.43E+02 0.00E+00 4.51E+01 4.69E+00 1.69E+00 1.32E+01 2.13E+01 2.78E+01 3.84E+01

2.57E+02 0.00E+00 4.24E+01 4.51E+00 1.65E+00 1.28E+01 1.97E+01 2.55E+01 3.64E+01

2.72E+02 0.00E+00 3.97E+01 4.32E+00 1.62E+00 1.23E+01 1.86E+01 2.42E+01 3.44E+01

2.88E+02 0.00E+00 3.70E+01 4.13E+00 1.59E+00 1.19E+01 1.76E+01 2.29E+01 3.24E+01

3.00E+02 0.00E+00 3.51E+01 3.98E+00 1.56E+00 1.16E+01 1.66E+01 2.20E+01 3.09E+01

3.05E+02 0.00E+00 3.44E+01 3.93E+00 1.54E+00 1.14E+01 1.62E+01 2.17E+01 3.04E+01

3.22E+02 0.00E+00 3.18E+01 3.75E+00 1.50E+00 1.09E+01 1.53E+01 2.08E+01 2.84E+01



3.41E+02 0.00E+00 2.93E+01 3.56E+00 1.45E+00 1.04E+01 1.45E+01 1.98E+01 2.64E+01

3.61E+02 0.00E+00 2.68E+01 3.37E+00 1.40E+00 9.72E+00 1.37E+01 1.88E+01 2.45E+01

3.82E+02 0.00E+00 2.44E+01 3.19E+00 1.34E+00 8.83E+00 1.28E+01 1.77E+01 2.26E+01

4.04E+02 0.00E+00 2.22E+01 3.00E+00 1.30E+00 8.42E+00 1.19E+01 1.63E+01 2.06E+01

4.28E+02 0.00E+00 2.00E+01 2.82E+00 1.25E+00 7.88E+00 1.10E+01 1.50E+01 1.85E+01

4.53E+02 0.00E+00 1.79E+01 2.64E+00 1.20E+00 7.36E+00 1.01E+01 1.37E+01 1.64E+01

4.79E+02 0.00E+00 1.59E+01 2.47E+00 1.15E+00 6.82E+00 9.30E+00 1.24E+01 1.46E+01

5.07E+02 0.00E+00 1.41E+01 2.30E+00 1.08E+00 6.23E+00 8.71E+00 1.13E+01 1.33E+01



5.36E+02 0.00E+00 1.24E+01 2.12E+00 1.02E+00 5.77E+00 8.10E+00 1.02E+01 1.21E+01

5.68E+02 0.00E+00 1.12E+01 1.96E+00 9.50E-01 5.31E+00 7.31E+00 9.10E+00 1.09E+01

0.01E+02 0.00E+00 1.04E+01 1.80E+00 8.87E-01 4.79E+00 6.69E+00 7.98E+00 9.81E+00

6.36E+02 0.00E+00 9.54E+00 1.65E+00 8.13E-01 4.43E+00 5.97E+00 6.74E+00 8.76E+00

6.73E+02 0.00E+00 8.74E+00 1.50E+00 7.62E-01 4.08E+00 5.23E+00 6.08E+00 7.77E+00

7.12E+02 0.00E+00 7.96E+00 1.36E+00 7.02E-01 3.66E+00 4.58E+00 5.39E+00 6.84E+00

7.53E+02 0.00E+00 7.03E+00 1.23E+00 6.59E-01 3.19E+00 4.15E+00 4.77E+00 5.98E+00

7.97E+02 0.00E+00 6.12E+00 1.11E+00 6.12E-01 2.88E+00 3.63E+00 4.29E+00 5.19E+00



8.44E+02 0.00E+00 5.28E+00 9.88E-01 5.59E-01 2.58E+00 3.20E+00 3.86E+00 4.46E+00

93E+02 0.00E+00 4.51E+00 8.77E-01 5.00E-01 2.27E+00 2.86E+00 3.46E+00 3.86E+00

9.45E+02 0.00E+00 3.82E+00 7.73E-01 4.59E-01 1.95E+00 2.58E+00 3.05E+00 3.46E+00

1.00E+03 0.00E+00 3.19E+00 6.73E-01 4.13E-01 1.67E+00 2.28E+00 2.52E+00 2.95E+00

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Probabilistic results summary : RESRAD Default Parameters

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

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	1.271E+01
2	0.000E+00	1.220E+01
3	0.000E+00	1.146E+01

Title : RESRAD Default Parameters  
 Input File : FCS BFM INSITU UA 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	14	-0.01	13	-0.01	15	-0.02	15	0.00
Contaminated zone b parameter	17	0.00	17	0.00	5	-0.12	5	-0.02
Evapotranspiration coefficient	12	-0.02	12	-0.01	16	0.02	16	0.00
Wind Speed	11	0.02	11	0.02	17	0.00	17	0.00
Runoff coefficient	8	0.04	8	0.04	11	0.03	11	0.00
b Parameter of Unsaturated zone 1	1	0.15	1	0.14	10	-0.03	10	0.00
Mass loading for inhalation	16	0.00	16	0.00	9	-0.04	9	0.00
Indoor dust filtration factor	2	-0.09	2	-0.08	14	-0.02	14	0.00
Depth of soil mixing layer	5	0.05	5	0.05	13	-0.02	13	0.00
Depth of roots	3	-0.08	3	-0.08	2	0.56	2	0.09
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	0.01	14	0.01	12	-0.03	12	0.00
Weathering removal constant of all vegetation	10	-0.03	10	-0.03	6	-0.12	6	-0.02
Wet foliar interception fraction of leafy vegetables	9	-0.03	9	-0.03	4	0.13	4	0.02
Humidity in air	6	0.05	6	0.04	7	0.05	7	0.01
Cover erosion rate	15	-0.01	15	-0.01	3	0.27	3	0.04
Kd of Am-241 in Contaminated Zone	4	-0.07	4	-0.07	1	-0.99	1	-0.99
Kd of Am-241 in Saturated Zone	7	-0.04	7	-0.04	8	0.04	8	0.01
R-SQUARE		0.05		0.05		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 BFM INSITU UA 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	14 0.01	14 0.01	8 -0.08	8 -0.01
Contaminated zone b parameter	17 0.00	17 0.00	9 0.06	9 0.01
Evapotranspiration coefficient	15 0.01	15 0.01	6 0.10	7 0.01
Wind Speed	6 -0.05	6 -0.05	15 -0.04	15 0.00
Runoff coefficient	8 0.04	9 0.04	13 -0.04	13 -0.01
b Parameter of Unsaturated zone 1	10 -0.02	10 -0.02	17 0.00	17 0.00
Mass loading for inhalation	7 0.05	7 0.05	16 0.04	16 0.00
Indoor dust filtration factor	2 0.10	2 0.10	10 0.06	10 0.01
Depth of soil mixing layer	11 -0.02	11 -0.02	7 0.10	6 0.01
Depth of roots	3 0.09	3 0.08	2 0.59	2 0.09
Wet weight crop yield of fruit, grain and non-leafy vegetables	13 0.01	13 0.01	5 -0.12	5 -0.02
Weathering removal constant of all vegetation	4 0.07	4 0.07	4 -0.13	4 -0.02
Wet foliar interception fraction of leafy vegetables	16 0.00	16 0.00	14 0.04	14 0.01
Humidity in air	1 0.13	1 0.13	12 -0.05	12 -0.01
Cover erosion rate	9 -0.04	8 -0.04	3 0.24	3 0.03
Kd of Am-241 in Contaminated Zone	5 -0.06	5 -0.06	1 -0.99	1 -0.99
Kd of Am-241 in Saturated Zone	12 -0.02	12 -0.02	11 0.06	11 0.01
R-SQUARE	0.05	0.05	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 BFM INSITU UA 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	14 -0.01	14 -0.01	15 0.02	15 0.00
Contaminated zone b parameter	4 0.07	4 0.07	8 -0.07	8 -0.01
Evapotranspiration coefficient	7 -0.04	7 -0.04	11 0.04	11 0.00
Wind Speed	8 -0.03	8 -0.03	6 0.10	6 0.01
Runoff coefficient	1 0.13	1 0.13	13 -0.03	13 0.00
b Parameter of Unsaturated zone 1	16 -0.01	16 -0.01	12 0.03	12 0.00
Mass loading for inhalation	17 0.00	17 0.00	17 -0.01	17 0.00
Indoor dust filtration factor	5 -0.05	5 -0.05	14 0.03	14 0.00
Depth of soil mixing layer	10 0.03	10 0.03	10 0.04	10 0.01
Depth of roots	6 0.04	6 0.04	2 0.58	2 0.09
Wet weight crop yield of fruit, grain and non-leafy vegetables	15 -0.01	15 -0.01	4 -0.14	4 -0.02
Weathering removal constant of all vegetation	13 -0.01	13 -0.01	5 -0.12	5 -0.02
Wet foliar interception fraction of leafy vegetables	9 0.03	9 0.03	9 0.05	9 0.01
Humidity in air	3 -0.08	3 -0.08	16 -0.02	16 0.00
Cover erosion rate	11 -0.02	11 -0.02	3 0.30	3 0.04
Kd of Am-241 in Contaminated Zone	2 -0.10	2 -0.10	1 -0.99	1 -0.99
Kd of Am-241 in Saturated Zone	12 -0.02	12 -0.02	7 -0.08	7 -0.01
R-SQUARE	0.04	0.04	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.