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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	
Sr-90											
Min	0.00E+00	1.39E-01	7.02E-02	6.86E-02	6.54E-02	5.53E-02	3.43E-02	0.00E+00	0.00E+00	0.00E+00	
Max	1.49E+02	2.64E+02	2.64E+02	2.22E+02	1.57E+02	7.35E+01	2.01E+01	1.73E+00	1.32E-02	7.51E-10	
Avg	6.68E-01	2.25E+01	2.24E+01	2.12E+01	1.92E+01	1.39E+01	6.58E+00	8.37E-01	5.13E-03	1.57E-10	
Std	6.57E+00	2.82E+01	2.82E+01	2.51E+01	2.02E+01	1.07E+01	3.30E+00	4.22E-01	4.08E-03	2.08E-10	
ΣALL											
Min	0.00E+00	1.39E-01	7.02E-02	6.86E-02	6.54E-02	5.53E-02	3.43E-02	0.00E+00	0.00E+00	0.00E+00	
Max	1.49E+02	2.64E+02	2.64E+02	2.22E+02	1.57E+02	7.35E+01	2.01E+01	1.73E+00	1.32E-02	7.51E-10	
Avg	6.68E-01	2.25E+01	2.24E+01	2.12E+01	1.92E+01	1.39E+01	6.58E+00	8.37E-01	5.13E-03	1.57E-10	
Std	6.57E+00	2.82E+01	2.82E+01	2.51E+01	2.02E+01	1.07E+01	3.30E+00	4.22E-01	4.08E-03	2.08E-10	

ΣALL is total dose summed for all nuclides.

Probabilistic Risk Summary

Nuclide (j)	t=	RISK(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
Sr-90									
Min		1.13E-06	1.11E-06	1.06E-06	8.94E-07	5.55E-07	0.00E+00	0.00E+00	0.00E+00
Max		4.51E-03	3.81E-03	2.69E-03	1.22E-03	3.46E-04	3.13E-05	2.50E-07	1.42E-14
Avg		3.85E-04	3.65E-04	3.30E-04	2.41E-04	1.15E-04	1.50E-05	9.47E-08	2.95E-15
Std		4.71E-04	4.19E-04	3.35E-04	1.76E-04	5.57E-05	7.86E-06	7.69E-08	3.93E-15
ΣALL									
Min		1.13E-06	1.11E-06	1.06E-06	8.94E-07	5.55E-07	0.00E+00	0.00E+00	0.00E+00
Max		4.51E-03	3.81E-03	2.69E-03	1.22E-03	3.46E-04	3.13E-05	2.50E-07	1.42E-14
Avg		3.85E-04	3.65E-04	3.30E-04	2.41E-04	1.15E-04	1.50E-05	9.47E-08	2.95E-15
Std		4.71E-04	4.19E-04	3.35E-04	1.76E-04	5.57E-05	7.86E-06	7.69E-08	3.93E-15

ΣALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		8.00E-10	6.45E-10	4.19E-10	9.22E-11	1.23E-12	0.00E+00	0.00E+00	0.00E+00
Max		7.30E-09	2.08E-07	1.69E-04	8.77E-03	5.45E-03	1.03E-03	8.77E-06	5.02E-13
Avg		9.33E-10	1.58E-09	2.72E-07	9.55E-05	1.19E-04	2.76E-05	1.03E-06	8.07E-14
Std		3.63E-10	8.50E-09	5.44E-06	8.67E-04	7.43E-04	1.48E-04	2.27E-06	1.36E-13
ΣALL									
Min		8.00E-10	6.45E-10	4.19E-10	9.22E-11	1.23E-12	0.00E+00	0.00E+00	0.00E+00
Max		7.30E-09	2.08E-07	1.69E-04	8.77E-03	5.45E-03	1.03E-03	8.77E-06	5.02E-13
Avg		9.33E-10	1.58E-09	2.72E-07	9.55E-05	1.19E-04	2.76E-05	1.03E-06	8.07E-14
Std		3.63E-10	8.50E-09	5.44E-06	8.67E-04	7.43E-04	1.48E-04	2.27E-06	1.36E-13

ΣALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Inhalation (w/o Radon)

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	0.00E+00
Max	0.00E+00	0.00E+00	7.07E-06	2.67E-05	1.61E-05	2.12E-06	3.72E-08	2.11E-15	
Avg	0.00E+00	0.00E+00	6.60E-09	1.37E-07	1.60E-07	3.63E-08	1.59E-09	1.15E-16	
Std	0.00E+00	0.00E+00	1.90E-07	1.30E-06	1.08E-06	2.05E-07	3.89E-09	2.33E-16	
ΣALL									
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	0.00E+00
Max	0.00E+00	0.00E+00	7.07E-06	2.67E-05	1.61E-05	2.12E-06	3.72E-08	2.11E-15	
Avg	0.00E+00	0.00E+00	6.60E-09	1.37E-07	1.60E-07	3.63E-08	1.59E-09	1.15E-16	
Std	0.00E+00	0.00E+00	1.90E-07	1.30E-06	1.08E-06	2.05E-07	3.89E-09	2.33E-16	

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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
ΣALL									
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

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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		9.28E+00	9.44E+00	9.90E+00	9.36E+00	5.82E+00	1.10E+00	9.36E-03	5.31E-10
Avg		5.53E+00	5.38E+00	5.09E+00	4.19E+00	2.43E+00	4.03E-01	3.05E-03	1.04E-10
Std		3.24E+00	3.14E+00	2.96E+00	2.50E+00	1.56E+00	3.00E-01	2.84E-03	1.44E-10
ΣALL									
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		9.28E+00	9.44E+00	9.90E+00	9.36E+00	5.82E+00	1.10E+00	9.36E-03	5.31E-10
Avg		5.53E+00	5.38E+00	5.09E+00	4.19E+00	2.43E+00	4.03E-01	3.05E-03	1.04E-10
Std		3.24E+00	3.14E+00	2.96E+00	2.50E+00	1.56E+00	3.00E-01	2.84E-03	1.44E-10

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	0.00E+00
Max	1.34E+00	1.36E+00	1.43E+00	1.41E+00	8.78E-01	1.66E-01	1.41E-03	8.02E-11	
Avg	8.01E-01	7.78E-01	7.36E-01	6.08E-01	3.52E-01	5.86E-02	4.50E-04	1.57E-11	
Std	4.69E-01	4.55E-01	4.29E-01	3.63E-01	2.27E-01	4.38E-02	4.20E-04	2.17E-11	
ΣALL									
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	0.00E+00
Max	1.34E+00	1.36E+00	1.43E+00	1.41E+00	8.78E-01	1.66E-01	1.41E-03	8.02E-11	
Avg	8.01E-01	7.78E-01	7.36E-01	6.08E-01	3.52E-01	5.86E-02	4.50E-04	1.57E-11	
Std	4.69E-01	4.55E-01	4.29E-01	3.63E-01	2.27E-01	4.38E-02	4.20E-04	2.17E-11	

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	0.00E+00
Max	2.35E+00	2.39E+00	2.51E+00	2.43E+00	1.51E+00	2.84E-01	2.43E-03	1.38E-10	
Avg	1.41E+00	1.37E+00	1.29E+00	1.07E+00	6.19E-01	1.03E-01	7.83E-04	2.70E-11	
Std	8.25E-01	7.99E-01	7.54E-01	6.38E-01	3.97E-01	7.67E-02	7.29E-04	3.73E-11	
ΣALL									
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	0.00E+00
Max	2.35E+00	2.39E+00	2.51E+00	2.43E+00	1.51E+00	2.84E-01	2.43E-03	1.38E-10	
Avg	1.41E+00	1.37E+00	1.29E+00	1.07E+00	6.19E-01	1.03E-01	7.83E-04	2.70E-11	
Std	8.25E-01	7.99E-01	7.54E-01	6.38E-01	3.97E-01	7.67E-02	7.29E-04	3.73E-11	

ΣALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	0.00E+00
Max	0.00E+00	0.00E+00	4.74E-04	1.70E-03	1.05E-03	1.99E-04	1.70E-06	9.72E-14	
Avg	0.00E+00	0.00E+00	7.01E-07	2.04E-05	2.38E-05	5.52E-06	2.28E-07	1.63E-14	
Std	0.00E+00	0.00E+00	1.67E-05	1.75E-04	1.45E-04	2.87E-05	4.57E-07	2.65E-14	
ΣALL									
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	0.00E+00
Max	0.00E+00	0.00E+00	4.74E-04	1.70E-03	1.05E-03	1.99E-04	1.70E-06	9.72E-14	
Avg	0.00E+00	0.00E+00	7.01E-07	2.04E-05	2.38E-05	5.52E-06	2.28E-07	1.63E-14	
Std	0.00E+00	0.00E+00	1.67E-05	1.75E-04	1.45E-04	2.87E-05	4.57E-07	2.65E-14	

ΣALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		4.95E-03	4.84E-03	4.61E-03	3.90E-03	2.42E-03	0.00E+00	0.00E+00	0.00E+00
Max		1.88E+02	1.58E+02	1.12E+02	4.97E+01	1.18E+01	6.62E-01	1.95E-03	3.28E-11
Avg		1.07E+01	9.97E+00	8.77E+00	5.85E+00	2.31E+00	1.98E-01	6.14E-04	7.26E-12
Std		2.03E+01	1.81E+01	1.46E+01	7.85E+00	2.35E+00	1.54E-01	4.73E-04	7.95E-12
ΣALL									
Min		4.95E-03	4.84E-03	4.61E-03	3.90E-03	2.42E-03	0.00E+00	0.00E+00	0.00E+00
Max		1.88E+02	1.58E+02	1.12E+02	4.97E+01	1.18E+01	6.62E-01	1.95E-03	3.28E-11
Avg		1.07E+01	9.97E+00	8.77E+00	5.85E+00	2.31E+00	1.98E-01	6.14E-04	7.26E-12
Std		2.03E+01	1.81E+01	1.46E+01	7.85E+00	2.35E+00	1.54E-01	4.73E-04	7.95E-12

ΣALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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
ΣALL									
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

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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
ΣALL									
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

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		8.65E-04	8.44E-04	8.05E-04	6.81E-04	4.23E-04	0.00E+00	0.00E+00	0.00E+00
Max		3.10E+01	2.79E+01	2.26E+01	1.08E+01	3.12E+00	1.90E-01	4.15E-04	8.20E-12
Avg		1.17E+00	1.10E+00	9.68E-01	6.47E-01	2.56E-01	2.21E-02	6.87E-05	7.93E-13
Std		2.47E+00	2.23E+00	1.83E+00	1.01E+00	3.11E-01	2.23E-02	6.69E-05	1.01E-12
ΣALL									
Min		8.65E-04	8.44E-04	8.05E-04	6.81E-04	4.23E-04	0.00E+00	0.00E+00	0.00E+00
Max		3.10E+01	2.79E+01	2.26E+01	1.08E+01	3.12E+00	1.90E-01	4.15E-04	8.20E-12
Avg		1.17E+00	1.10E+00	9.68E-01	6.47E-01	2.56E-01	2.21E-02	6.87E-05	7.93E-13
Std		2.47E+00	2.23E+00	1.83E+00	1.01E+00	3.11E-01	2.23E-02	6.69E-05	1.01E-12

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		6.40E-04	6.25E-04	5.95E-04	5.04E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00
Max		2.09E+01	1.76E+01	1.31E+01	7.04E+00	1.62E+00	9.13E-02	2.82E-04	4.18E-12
Avg		1.28E+00	1.20E+00	1.05E+00	7.00E-01	2.76E-01	2.37E-02	7.35E-05	8.63E-13
Std		2.45E+00	2.20E+00	1.78E+00	9.59E-01	2.82E-01	1.90E-02	5.82E-05	9.54E-13
ΣALL									
Min		6.40E-04	6.25E-04	5.95E-04	5.04E-04	3.13E-04	0.00E+00	0.00E+00	0.00E+00
Max		2.09E+01	1.76E+01	1.31E+01	7.04E+00	1.62E+00	9.13E-02	2.82E-04	4.18E-12
Avg		1.28E+00	1.20E+00	1.05E+00	7.00E-01	2.76E-01	2.37E-02	7.35E-05	8.63E-13
Std		2.45E+00	2.20E+00	1.78E+00	9.59E-01	2.82E-01	1.90E-02	5.82E-05	9.54E-13

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		8.02E-04	7.83E-04	7.47E-04	6.32E-04	3.93E-04	0.00E+00	0.00E+00	0.00E+00
Max		2.43E+01	2.09E+01	1.69E+01	9.11E+00	2.18E+00	1.19E-01	3.80E-04	5.58E-12
Avg		1.55E+00	1.45E+00	1.27E+00	8.48E-01	3.34E-01	2.87E-02	8.92E-05	1.05E-12
Std		3.00E+00	2.69E+00	2.19E+00	1.18E+00	3.47E-01	2.37E-02	7.26E-05	1.17E-12
ΣALL									
Min		8.02E-04	7.83E-04	7.47E-04	6.32E-04	3.93E-04	0.00E+00	0.00E+00	0.00E+00
Max		2.43E+01	2.09E+01	1.69E+01	9.11E+00	2.18E+00	1.19E-01	3.80E-04	5.58E-12
Avg		1.55E+00	1.45E+00	1.27E+00	8.48E-01	3.34E-01	2.87E-02	8.92E-05	1.05E-12
Std		3.00E+00	2.69E+00	2.19E+00	1.18E+00	3.47E-01	2.37E-02	7.26E-05	1.17E-12

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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SR-90.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	6.22E-01	6.07E-01	5.79E-01	5.03E-01	3.17E-01	1.19E-02	2.36E-11	0.00E+00
0.050	1.34E+00	1.32E+00	1.26E+00	1.10E+00	6.73E-01	4.18E-02	6.90E-08	0.00E+00
0.075	2.52E+00	2.49E+00	2.38E+00	2.03E+00	1.28E+00	7.91E-02	3.04E-06	6.90E-29
0.100	3.57E+00	3.50E+00	3.55E+00	3.10E+00	1.81E+00	1.49E-01	2.77E-05	2.67E-23
0.125	4.90E+00	4.82E+00	4.74E+00	4.13E+00	2.53E+00	2.22E-01	9.35E-05	1.01E-19
0.150	6.10E+00	5.97E+00	5.74E+00	5.04E+00	3.08E+00	2.87E-01	1.96E-04	1.16E-17
0.175	7.14E+00	7.04E+00	6.90E+00	5.92E+00	3.53E+00	3.23E-01	3.31E-04	1.42E-16
0.200	8.08E+00	7.87E+00	7.76E+00	6.55E+00	3.97E+00	3.88E-01	4.99E-04	1.38E-15
0.225	9.03E+00	8.90E+00	8.60E+00	7.32E+00	4.30E+00	4.46E-01	7.16E-04	1.10E-14
0.250	9.86E+00	9.67E+00	9.28E+00	7.99E+00	4.73E+00	5.14E-01	9.49E-04	5.86E-14
0.275	1.06E+01	1.03E+01	9.92E+00	8.49E+00	5.00E+00	5.59E-01	1.26E-03	2.14E-13
0.300	1.11E+01	1.09E+01	1.04E+01	8.84E+00	5.28E+00	6.33E-01	1.58E-03	7.03E-13
0.325	1.15E+01	1.12E+01	1.07E+01	9.08E+00	5.49E+00	6.83E-01	1.92E-03	1.39E-12
0.350	1.19E+01	1.16E+01	1.11E+01	9.37E+00	5.66E+00	7.38E-01	2.38E-03	3.54E-12
0.375	1.23E+01	1.20E+01	1.14E+01	9.66E+00	5.79E+00	7.84E-01	2.79E-03	6.43E-12
0.400	1.26E+01	1.23E+01	1.17E+01	9.94E+00	5.97E+00	8.25E-01	3.32E-03	9.68E-12
0.425	1.28E+01	1.25E+01	1.19E+01	1.01E+01	6.16E+00	8.55E-01	3.70E-03	1.44E-11
0.450	1.30E+01	1.27E+01	1.22E+01	1.03E+01	6.26E+00	8.82E-01	4.17E-03	2.10E-11
0.475	1.32E+01	1.30E+01	1.24E+01	1.05E+01	6.36E+00	9.25E-01	4.49E-03	2.61E-11
0.500	1.38E+01	1.34E+01	1.28E+01	1.08E+01	6.46E+00	9.54E-01	4.86E-03	3.66E-11
0.525	1.41E+01	1.38E+01	1.32E+01	1.11E+01	6.57E+00	9.77E-01	5.26E-03	5.07E-11
0.550	1.47E+01	1.44E+01	1.37E+01	1.15E+01	6.67E+00	1.01E+00	5.67E-03	6.52E-11
0.575	1.53E+01	1.49E+01	1.41E+01	1.19E+01	6.86E+00	1.02E+00	6.01E-03	8.61E-11
0.600	1.60E+01	1.55E+01	1.47E+01	1.24E+01	7.05E+00	1.05E+00	6.45E-03	1.05E-10
0.625	1.68E+01	1.64E+01	1.55E+01	1.31E+01	7.26E+00	1.07E+00	6.86E-03	1.33E-10
0.650	1.79E+01	1.74E+01	1.65E+01	1.37E+01	7.46E+00	1.10E+00	7.19E-03	1.56E-10
0.675	1.88E+01	1.82E+01	1.72E+01	1.42E+01	7.73E+00	1.11E+00	7.76E-03	1.86E-10
0.700	2.02E+01	1.97E+01	1.85E+01	1.51E+01	8.02E+00	1.13E+00	8.12E-03	2.12E-10
0.725	2.18E+01	2.11E+01	2.00E+01	1.62E+01	8.24E+00	1.15E+00	8.40E-03	2.43E-10
0.750	2.36E+01	2.29E+01	2.15E+01	1.73E+01	8.49E+00	1.17E+00	8.69E-03	2.70E-10
0.775	2.53E+01	2.44E+01	2.31E+01	1.83E+01	8.79E+00	1.19E+00	8.97E-03	3.06E-10
0.800	2.77E+01	2.69E+01	2.50E+01	1.97E+01	9.02E+00	1.21E+00	9.19E-03	3.42E-10
0.825	3.03E+01	2.91E+01	2.73E+01	2.11E+01	9.35E+00	1.22E+00	9.61E-03	3.88E-10
0.850	3.46E+01	3.33E+01	3.07E+01	2.30E+01	9.80E+00	1.25E+00	9.96E-03	4.28E-10
0.875	4.01E+01	3.84E+01	3.54E+01	2.62E+01	1.03E+01	1.27E+00	1.03E-02	4.66E-10
0.900	4.72E+01	4.51E+01	4.14E+01	2.88E+01	1.08E+01	1.29E+00	1.10E-02	5.12E-10
0.925	5.65E+01	5.34E+01	4.77E+01	3.25E+01	1.14E+01	1.32E+00	1.15E-02	5.59E-10
0.950	7.32E+01	6.87E+01	6.04E+01	3.76E+01	1.25E+01	1.37E+00	1.20E-02	6.12E-10
0.975	1.10E+02	9.96E+01	8.40E+01	4.35E+01	1.36E+01	1.49E+00	1.26E-02	6.75E-10
1.000	2.64E+02	2.22E+02	1.57E+02	7.35E+01	2.01E+01	1.73E+00	1.32E-02	7.51E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SR-90.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	1.30E-01	2.14E+02	2.23E+01	1.36E+01	4.57E+01	7.31E+01	1.11E+02	1.62E+02
1.00E+00	1.27E-01	1.83E+02	2.11E+01	1.33E+01	4.36E+01	6.87E+01	1.01E+02	1.38E+02
1.06E+00	1.27E-01	1.81E+02	2.11E+01	1.33E+01	4.35E+01	6.84E+01	1.00E+02	1.36E+02
1.12E+00	1.27E-01	1.79E+02	2.10E+01	1.33E+01	4.34E+01	6.82E+01	9.98E+01	1.35E+02
1.19E+00	1.27E-01	1.77E+02	2.09E+01	1.33E+01	4.33E+01	6.79E+01	9.92E+01	1.34E+02
1.25E+00	1.27E-01	1.75E+02	2.08E+01	1.33E+01	4.32E+01	6.76E+01	9.86E+01	1.32E+02
1.33E+00	1.26E-01	1.73E+02	2.08E+01	1.33E+01	4.30E+01	6.73E+01	9.79E+01	1.31E+02
1.40E+00	1.26E-01	1.71E+02	2.07E+01	1.32E+01	4.29E+01	6.70E+01	9.72E+01	1.29E+02
1.49E+00	1.26E-01	1.69E+02	2.06E+01	1.32E+01	4.28E+01	6.67E+01	9.65E+01	1.27E+02
1.57E+00	1.26E-01	1.67E+02	2.05E+01	1.32E+01	4.26E+01	6.64E+01	9.57E+01	1.25E+02
1.66E+00	1.25E-01	1.64E+02	2.04E+01	1.32E+01	4.25E+01	6.60E+01	9.49E+01	1.24E+02
1.76E+00	1.25E-01	1.62E+02	2.03E+01	1.31E+01	4.23E+01	6.56E+01	9.40E+01	1.22E+02
1.86E+00	1.25E-01	1.59E+02	2.02E+01	1.31E+01	4.21E+01	6.52E+01	9.31E+01	1.20E+02
1.97E+00	1.24E-01	1.56E+02	2.01E+01	1.31E+01	4.19E+01	6.48E+01	9.22E+01	1.18E+02
2.09E+00	1.24E-01	1.54E+02	2.00E+01	1.30E+01	4.18E+01	6.43E+01	9.12E+01	1.15E+02
2.21E+00	1.24E-01	1.51E+02	1.98E+01	1.30E+01	4.16E+01	6.37E+01	9.02E+01	1.13E+02
2.34E+00	1.23E-01	1.48E+02	1.97E+01	1.29E+01	4.13E+01	6.32E+01	8.91E+01	1.11E+02
2.47E+00	1.23E-01	1.44E+02	1.96E+01	1.29E+01	4.11E+01	6.26E+01	8.79E+01	1.08E+02
2.62E+00	1.22E-01	1.41E+02	1.94E+01	1.28E+01	4.09E+01	6.20E+01	8.68E+01	1.06E+02
2.77E+00	1.22E-01	1.38E+02	1.93E+01	1.28E+01	4.06E+01	6.14E+01	8.55E+01	1.03E+02
2.93E+00	1.22E-01	1.34E+02	1.91E+01	1.27E+01	4.04E+01	6.07E+01	8.42E+01	9.97E+01
3.00E+00	1.21E-01	1.33E+02	1.91E+01	1.27E+01	4.03E+01	6.04E+01	8.36E+01	9.85E+01
3.10E+00	1.21E-01	1.31E+02	1.90E+01	1.27E+01	4.01E+01	6.00E+01	8.27E+01	9.78E+01
3.28E+00	1.21E-01	1.27E+02	1.88E+01	1.27E+01	3.98E+01	5.93E+01	8.12E+01	9.49E+01
3.48E+00	1.20E-01	1.23E+02	1.86E+01	1.26E+01	3.95E+01	5.85E+01	7.96E+01	9.27E+01
3.68E+00	1.19E-01	1.20E+02	1.84E+01	1.26E+01	3.92E+01	5.77E+01	7.79E+01	9.06E+01
3.89E+00	1.19E-01	1.18E+02	1.82E+01	1.25E+01	3.89E+01	5.69E+01	7.62E+01	8.84E+01
4.12E+00	1.18E-01	1.15E+02	1.80E+01	1.24E+01	3.85E+01	5.60E+01	7.45E+01	8.61E+01
4.36E+00	1.17E-01	1.12E+02	1.78E+01	1.24E+01	3.82E+01	5.49E+01	7.21E+01	8.38E+01
4.61E+00	1.17E-01	1.09E+02	1.76E+01	1.23E+01	3.78E+01	5.41E+01	6.93E+01	8.14E+01
4.88E+00	1.16E-01	1.06E+02	1.74E+01	1.22E+01	3.70E+01	5.32E+01	6.63E+01	7.89E+01
5.17E+00	1.15E-01	1.03E+02	1.72E+01	1.21E+01	3.62E+01	5.23E+01	6.44E+01	7.64E+01
5.47E+00	1.14E-01	9.97E+01	1.69E+01	1.21E+01	3.54E+01	5.13E+01	6.26E+01	7.38E+01
5.78E+00	1.14E-01	9.64E+01	1.67E+01	1.19E+01	3.48E+01	5.03E+01	6.08E+01	7.12E+01
6.12E+00	1.13E-01	9.30E+01	1.64E+01	1.18E+01	3.43E+01	4.92E+01	5.89E+01	6.85E+01
6.48E+00	1.12E-01	8.96E+01	1.61E+01	1.17E+01	3.38E+01	4.78E+01	5.64E+01	6.58E+01
6.86E+00	1.11E-01	8.61E+01	1.59E+01	1.16E+01	3.33E+01	4.66E+01	5.37E+01	6.30E+01
7.26E+00	1.10E-01	8.25E+01	1.56E+01	1.15E+01	3.27E+01	4.53E+01	5.15E+01	6.09E+01
7.68E+00	1.09E-01	7.89E+01	1.53E+01	1.14E+01	3.21E+01	4.40E+01	4.96E+01	5.90E+01
8.13E+00	1.07E-01	7.53E+01	1.50E+01	1.13E+01	3.14E+01	4.27E+01	4.78E+01	5.69E+01
8.60E+00	1.06E-01	7.16E+01	1.47E+01	1.12E+01	3.03E+01	4.10E+01	4.58E+01	5.44E+01
9.10E+00	1.05E-01	6.79E+01	1.44E+01	1.10E+01	2.97E+01	3.98E+01	4.42E+01	5.15E+01
9.63E+00	1.04E-01	6.42E+01	1.40E+01	1.09E+01	2.89E+01	3.86E+01	4.26E+01	4.92E+01
1.00E+01	1.03E-01	6.18E+01	1.38E+01	1.08E+01	2.85E+01	3.75E+01	4.15E+01	4.76E+01
1.02E+01	1.02E-01	6.05E+01	1.37E+01	1.08E+01	2.83E+01	3.70E+01	4.09E+01	4.69E+01
1.08E+01	1.01E-01	5.72E+01	1.34E+01	1.06E+01	2.76E+01	3.53E+01	3.85E+01	4.45E+01
1.14E+01	9.93E-02	5.47E+01	1.30E+01	1.04E+01	2.63E+01	3.38E+01	3.68E+01	4.22E+01
1.21E+01	9.77E-02	5.22E+01	1.27E+01	1.03E+01	2.54E+01	3.24E+01	3.49E+01	3.99E+01
1.28E+01	9.61E-02	4.97E+01	1.23E+01	1.01E+01	2.46E+01	3.04E+01	3.35E+01	3.75E+01
1.35E+01	9.44E-02	4.72E+01	1.20E+01	9.90E+00	2.38E+01	2.91E+01	3.23E+01	3.52E+01
1.43E+01	9.26E-02	4.47E+01	1.16E+01	9.69E+00	2.30E+01	2.78E+01	3.06E+01	3.30E+01
1.51E+01	9.08E-02	4.22E+01	1.12E+01	9.49E+00	2.19E+01	2.63E+01	2.92E+01	3.14E+01
1.60E+01	8.89E-02	3.96E+01	1.08E+01	9.28E+00	2.06E+01	2.50E+01	2.77E+01	3.03E+01
1.70E+01	8.69E-02	3.71E+01	1.04E+01	9.06E+00	1.96E+01	2.35E+01	2.64E+01	2.85E+01
1.80E+01	8.49E-02	3.47E+01	1.01E+01	8.82E+00	1.87E+01	2.22E+01	2.49E+01	2.67E+01
1.90E+01	8.28E-02	3.22E+01	9.67E+00	8.58E+00	1.75E+01	2.08E+01	2.34E+01	2.48E+01

2.01E+01 8.06E-02 2.98E+01 9.28E+00 8.34E+00 1.64E+01 1.96E+01 2.20E+01 2.35E+01

2.13E+01 7.84E-02 2.75E+01 8.90E+00 8.10E+00 1.56E+01 1.84E+01 2.05E+01 2.24E+01

2.25E+01 7.61E-02 2.52E+01 8.51E+00 7.85E+00 1.49E+01 1.73E+01 1.93E+01 2.13E+01

2.38E+01 7.38E-02 2.32E+01 8.12E+00 7.59E+00 1.42E+01 1.65E+01 1.82E+01 2.02E+01

2.52E+01 7.14E-02 2.18E+01 7.73E+00 7.34E+00 1.32E+01 1.53E+01 1.70E+01 1.90E+01

2.67E+01 6.89E-02 2.05E+01 7.35E+00 7.00E+00 1.23E+01 1.42E+01 1.60E+01 1.79E+01

2.82E+01 6.64E-02 1.91E+01 6.97E+00 6.74E+00 1.16E+01 1.34E+01 1.48E+01 1.68E+01

2.99E+01 6.38E-02 1.78E+01 6.59E+00 6.44E+00 1.10E+01 1.26E+01 1.37E+01 1.55E+01

3.00E+01 6.37E-02 1.77E+01 6.57E+00 6.41E+00 1.09E+01 1.25E+01 1.36E+01 1.54E+01

3.16E+01 6.12E-02 1.65E+01 6.22E+00 6.15E+00 1.02E+01 1.16E+01 1.26E+01 1.44E+01

3.35E+01 5.86E-02 1.52E+01 5.86E+00 5.85E+00 9.55E+00 1.08E+01 1.17E+01 1.33E+01

3.54E+01 5.59E-02 1.40E+01 5.50E+00 5.57E+00 8.96E+00 1.01E+01 1.09E+01 1.21E+01

3.75E+01 5.32E-02 1.29E+01 5.14E+00 5.27E+00 8.21E+00 9.10E+00 1.01E+01 1.11E+01

3.97E+01 3.57E-02 1.18E+01 4.80E+00 4.98E+00 7.57E+00 8.37E+00 9.30E+00 1.00E+01

4.20E+01 2.17E-02 1.08E+01 4.46E+00 4.70E+00 6.96E+00 7.75E+00 8.54E+00 9.14E+00

4.44E+01 1.28E-02 9.80E+00 4.14E+00 4.38E+00 6.38E+00 7.13E+00 7.79E+00 8.30E+00

4.70E+01 7.30E-03 8.84E+00 3.82E+00 4.07E+00 5.82E+00 6.58E+00 7.16E+00 7.49E+00

4.97E+01 4.04E-03 7.93E+00 3.52E+00 3.76E+00 5.36E+00 6.06E+00 6.43E+00 6.75E+00

5.26E+01 2.16E-03 7.07E+00 3.22E+00 3.50E+00 4.87E+00 5.51E+00 5.87E+00 6.06E+00

5.57E+01 1.11E-03 6.26E+00 2.94E+00 3.20E+00 4.48E+00 4.96E+00 5.23E+00 5.38E+00

5.90E+01 5.53E-04 5.50E+00 2.67E+00 2.94E+00 4.05E+00 4.43E+00 4.67E+00 4.80E+00

6.24E+01 2.63E-04 4.80E+00 2.42E+00 2.68E+00 3.61E+00 3.97E+00 4.18E+00 4.28E+00

6.60E+01 1.20E-04 4.15E+00 2.18E+00 2.43E+00 3.24E+00 3.56E+00 3.71E+00 3.85E+00

6.99E+01 5.23E-05 3.61E+00 1.95E+00 2.17E+00 2.91E+00 3.20E+00 3.32E+00 3.48E+00

7.39E+01 2.17E-05 3.23E+00 1.74E+00 1.93E+00 2.57E+00 2.87E+00 2.96E+00 3.08E+00

7.82E+01 8.55E-06 2.88E+00 1.54E+00 1.72E+00 2.28E+00 2.55E+00 2.64E+00 2.77E+00

8.28E+01 3.20E-06 2.55E+00 1.35E+00 1.53E+00 2.01E+00 2.19E+00 2.36E+00 2.44E+00

8.76E+01 1.13E-06 2.24E+00 1.18E+00 1.32E+00 1.77E+00 1.93E+00 2.09E+00 2.16E+00

9.27E+01 3.74E-07 1.96E+00 1.03E+00 1.14E+00 1.55E+00 1.66E+00 1.84E+00 1.90E+00

9.81E+01 1.16E-07 1.70E+00 8.88E-01 9.87E-01 1.36E+00 1.41E+00 1.60E+00 1.65E+00

1.00E+02 7.77E-08 1.62E+00 8.44E-01 9.32E-01 1.30E+00 1.36E+00 1.52E+00 1.58E+00

1.04E+02 3.39E-08 1.47E+00 7.61E-01 8.47E-01 1.18E+00 1.24E+00 1.38E+00 1.43E+00

1.10E+02 9.16E-09 1.26E+00 6.46E-01 7.22E-01 1.01E+00 1.06E+00 1.19E+00 1.24E+00

1.16E+02 2.30E-09 1.08E+00 5.45E-01 6.04E-01 8.61E-01 9.08E-01 1.01E+00 1.05E+00

1.23E+02 5.31E-10 9.12E-01 4.55E-01 5.01E-01 7.29E-01 7.72E-01 8.50E-01 8.92E-01

1.30E+02 1.13E-10 7.64E-01 3.77E-01 4.13E-01 6.18E-01 6.53E-01 7.08E-01 7.51E-01

1.38E+02 2.19E-11 6.33E-01 3.09E-01 3.36E-01 5.13E-01 5.46E-01 5.85E-01 6.26E-01

1.46E+02 3.87E-12 5.20E-01 2.51E-01 2.71E-01 4.24E-01 4.49E-01 4.77E-01 5.15E-01

1.54E+02 6.17E-13 4.25E-01 2.01E-01 2.20E-01 3.46E-01 3.69E-01 3.84E-01 4.18E-01

1.63E+02 8.84E-14 3.43E-01 1.60E-01 1.75E-01 2.80E-01 2.98E-01 3.10E-01 3.36E-01

1.73E+02 1.13E-14 2.73E-01 1.26E-01 1.37E-01 2.24E-01 2.37E-01 2.48E-01 2.66E-01

1.83E+02 1.28E-15 2.15E-01 9.73E-02 1.06E-01 1.75E-01 1.86E-01 1.96E-01 2.08E-01

1.94E+02 1.28E-16 1.67E-01 7.44E-02 8.02E-02 1.36E-01 1.45E-01 1.53E-01 1.60E-01

2.05E+02 1.12E-17 1.27E-01 5.61E-02 6.06E-02 1.04E-01 1.11E-01 1.18E-01 1.22E-01

2.17E+02 8.52E-19 9.59E-02 4.16E-02 4.45E-02 7.90E-02 8.53E-02 9.06E-02 9.25E-02

2.29E+02 5.56E-20 7.10E-02 3.03E-02 3.25E-02 5.84E-02 6.33E-02 6.71E-02 6.94E-02

2.43E+02 3.10E-21 5.16E-02 2.17E-02 2.30E-02 4.29E-02 4.62E-02 4.93E-02 5.08E-02

2.57E+02 1.46E-22 3.68E-02 1.52E-02 1.58E-02 3.10E-02 3.34E-02 3.51E-02 3.63E-02

2.72E+02 0.00E+00 2.58E-02 1.04E-02 1.07E-02 2.18E-02 2.34E-02 2.45E-02 2.55E-02

2.88E+02 0.00E+00 1.77E-02 7.00E-03 7.00E-03 1.49E-02 1.61E-02 1.68E-02 1.75E-02

3.00E+02 0.00E+00 1.32E-02 5.15E-03 5.05E-03 1.11E-02 1.20E-02 1.26E-02 1.31E-02

3.05E+02 0.00E+00 1.19E-02 4.60E-03 4.51E-03 9.92E-03 1.08E-02 1.14E-02 1.17E-02

3.22E+02 0.00E+00 7.78E-03 2.96E-03 2.82E-03 6.41E-03 7.07E-03 7.45E-03 7.70E-03

3.41E+02 0.00E+00 4.98E-03 1.85E-03 1.72E-03 4.11E-03 4.52E-03 4.77E-03 4.94E-03

3.61E+02 0.00E+00 3.10E-03 1.13E-03 1.01E-03 2.56E-03 2.81E-03 2.96E-03 3.07E-03

3.82E+02 0.00E+00 1.88E-03 6.70E-04 5.82E-04 1.54E-03 1.70E-03 1.79E-03 1.86E-03

4.04E+02 0.00E+00 1.11E-03 3.86E-04 3.24E-04 9.03E-04 9.99E-04 1.05E-03 1.09E-03

4.28E+02 0.00E+00 6.31E-04 2.15E-04 1.79E-04 5.17E-04 5.73E-04 5.97E-04 6.24E-04

4.53E+02 0.00E+00 3.49E-04 1.16E-04 9.20E-05 2.82E-04 3.14E-04 3.28E-04 3.44E-04

4.79E+02 0.00E+00 1.86E-04 6.04E-05 4.54E-05 1.50E-04 1.68E-04 1.75E-04 1.84E-04

5.07E+02 0.00E+00 9.57E-05 3.03E-05 2.16E-05 7.59E-05 8.57E-05 9.03E-05 9.43E-05

5.36E+02 0.00E+00 4.74E-05 1.46E-05 9.71E-06 3.72E-05 4.23E-05 4.46E-05 4.66E-05

5.68E+02 0.00E+00 2.25E-05 6.73E-06 4.16E-06 1.75E-05 2.00E-05 2.10E-05 2.21E-05

6.01E+02 0.00E+00 1.02E-05 2.98E-06 1.70E-06 7.79E-06 9.01E-06 9.56E-06 1.00E-05

6.36E+02 0.00E+00 4.44E-06 1.26E-06 6.74E-07 3.40E-06 3.88E-06 4.12E-06 4.36E-06

6.73E+02 0.00E+00 1.84E-06 5.05E-07 2.59E-07 1.41E-06 1.59E-06 1.67E-06 1.80E-06

7.12E+02 0.00E+00 7.23E-07 1.92E-07 8.96E-08 5.43E-07 6.15E-07 6.51E-07 6.99E-07

7.53E+02 0.00E+00 2.69E-07 6.90E-08 2.88E-08 2.02E-07 2.27E-07 2.41E-07 2.59E-07

7.97E+02 0.00E+00 9.46E-08 2.34E-08 8.83E-09 7.00E-08 7.93E-08 8.39E-08 9.09E-08

8.44E+02 0.00E+00 3.13E-08 7.46E-09 2.50E-09 2.26E-08 2.59E-08 2.76E-08 3.00E-08

8.93E+02 0.00E+00 9.70E-09 2.22E-09 6.55E-10 6.89E-09 7.92E-09 8.78E-09 9.14E-09

9.45E+02 0.00E+00 2.81E-09 6.15E-10 1.54E-10 1.94E-09 2.26E-09 2.55E-09 2.67E-09

1.00E+03 0.00E+00 7.50E-10 1.59E-10 3.48E-11 5.04E-10 5.99E-10 6.84E-10 7.15E-10



Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SR-90.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	1.39E-01	2.64E+02	2.25E+01	1.36E+01	4.82E+01	7.69E+01	1.12E+02	1.50E+02
1.00E+00	1.35E-01	2.22E+02	2.13E+01	1.33E+01	4.63E+01	7.24E+01	1.03E+02	1.38E+02
1.06E+00	1.35E-01	2.20E+02	2.12E+01	1.33E+01	4.62E+01	7.22E+01	1.02E+02	1.37E+02
1.12E+00	1.35E-01	2.18E+02	2.12E+01	1.33E+01	4.60E+01	7.19E+01	1.02E+02	1.36E+02
1.19E+00	1.35E-01	2.15E+02	2.11E+01	1.32E+01	4.59E+01	7.16E+01	1.01E+02	1.35E+02
1.25E+00	1.35E-01	2.13E+02	2.10E+01	1.32E+01	4.58E+01	7.13E+01	1.01E+02	1.35E+02
1.33E+00	1.34E-01	2.10E+02	2.10E+01	1.32E+01	4.57E+01	7.10E+01	9.99E+01	1.34E+02
1.40E+00	1.34E-01	2.07E+02	2.09E+01	1.32E+01	4.55E+01	7.07E+01	9.93E+01	1.33E+02
1.49E+00	1.34E-01	2.04E+02	2.08E+01	1.32E+01	4.54E+01	7.03E+01	9.85E+01	1.32E+02
1.57E+00	1.34E-01	2.01E+02	2.07E+01	1.31E+01	4.52E+01	7.00E+01	9.78E+01	1.31E+02
1.66E+00	1.33E-01	1.98E+02	2.06E+01	1.31E+01	4.50E+01	6.96E+01	9.70E+01	1.30E+02
1.76E+00	1.33E-01	1.95E+02	2.05E+01	1.31E+01	4.48E+01	6.92E+01	9.62E+01	1.29E+02
1.86E+00	1.33E-01	1.91E+02	2.04E+01	1.30E+01	4.46E+01	6.87E+01	9.53E+01	1.28E+02
1.97E+00	1.32E-01	1.88E+02	2.03E+01	1.30E+01	4.44E+01	6.83E+01	9.44E+01	1.26E+02
2.09E+00	1.32E-01	1.84E+02	2.02E+01	1.30E+01	4.42E+01	6.78E+01	9.34E+01	1.25E+02
2.21E+00	1.32E-01	1.80E+02	2.00E+01	1.29E+01	4.39E+01	6.73E+01	9.24E+01	1.24E+02
2.34E+00	1.31E-01	1.76E+02	1.99E+01	1.29E+01	4.36E+01	6.68E+01	9.11E+01	1.22E+02
2.47E+00	1.31E-01	1.72E+02	1.98E+01	1.29E+01	4.32E+01	6.63E+01	8.98E+01	1.19E+02
2.62E+00	1.30E-01	1.68E+02	1.96E+01	1.29E+01	4.28E+01	6.57E+01	8.83E+01	1.15E+02
2.77E+00	1.30E-01	1.64E+02	1.95E+01	1.28E+01	4.24E+01	6.51E+01	8.68E+01	1.13E+02
2.93E+00	1.29E-01	1.59E+02	1.93E+01	1.28E+01	4.20E+01	6.45E+01	8.53E+01	1.11E+02
3.00E+00	1.29E-01	1.57E+02	1.93E+01	1.27E+01	4.18E+01	6.42E+01	8.47E+01	1.10E+02
3.10E+00	1.29E-01	1.54E+02	1.92E+01	1.27E+01	4.16E+01	6.38E+01	8.37E+01	1.09E+02
3.28E+00	1.28E-01	1.50E+02	1.90E+01	1.27E+01	4.11E+01	6.31E+01	8.20E+01	1.07E+02
3.48E+00	1.28E-01	1.45E+02	1.88E+01	1.26E+01	4.07E+01	6.23E+01	8.05E+01	1.05E+02
3.68E+00	1.27E-01	1.40E+02	1.86E+01	1.25E+01	4.03E+01	6.13E+01	7.93E+01	1.03E+02
3.89E+00	1.26E-01	1.35E+02	1.84E+01	1.25E+01	4.00E+01	6.04E+01	7.80E+01	1.01E+02
4.12E+00	1.26E-01	1.30E+02	1.82E+01	1.24E+01	3.96E+01	5.94E+01	7.67E+01	9.84E+01
4.36E+00	1.25E-01	1.24E+02	1.80E+01	1.23E+01	3.92E+01	5.83E+01	7.53E+01	9.61E+01
4.61E+00	1.24E-01	1.19E+02	1.78E+01	1.22E+01	3.87E+01	5.72E+01	7.37E+01	9.36E+01
4.88E+00	1.24E-01	1.16E+02	1.76E+01	1.22E+01	3.82E+01	5.61E+01	7.07E+01	9.11E+01
5.17E+00	1.23E-01	1.13E+02	1.74E+01	1.21E+01	3.77E+01	5.50E+01	6.87E+01	8.86E+01
5.47E+00	1.22E-01	1.10E+02	1.71E+01	1.20E+01	3.71E+01	5.37E+01	6.72E+01	8.59E+01
5.78E+00	1.21E-01	1.07E+02	1.69E+01	1.19E+01	3.65E+01	5.24E+01	6.58E+01	8.32E+01
6.12E+00	1.20E-01	1.04E+02	1.66E+01	1.18E+01	3.58E+01	5.14E+01	6.44E+01	8.04E+01
6.48E+00	1.19E-01	1.00E+02	1.63E+01	1.17E+01	3.52E+01	5.01E+01	6.23E+01	7.76E+01
6.86E+00	1.18E-01	9.70E+01	1.61E+01	1.16E+01	3.44E+01	4.84E+01	5.96E+01	7.47E+01
7.26E+00	1.17E-01	9.37E+01	1.58E+01	1.15E+01	3.37E+01	4.75E+01	5.72E+01	7.18E+01
7.68E+00	1.16E-01	9.02E+01	1.55E+01	1.14E+01	3.29E+01	4.59E+01	5.47E+01	6.88E+01
8.13E+00	1.14E-01	8.67E+01	1.52E+01	1.13E+01	3.21E+01	4.39E+01	5.25E+01	6.48E+01
8.60E+00	1.13E-01	8.32E+01	1.49E+01	1.11E+01	3.13E+01	4.24E+01	5.03E+01	5.97E+01
9.10E+00	1.12E-01	7.96E+01	1.45E+01	1.10E+01	3.01E+01	4.08E+01	4.84E+01	5.78E+01
9.63E+00	1.10E-01	7.59E+01	1.42E+01	1.08E+01	2.94E+01	3.92E+01	4.65E+01	5.61E+01
1.00E+01	1.09E-01	7.35E+01	1.40E+01	1.08E+01	2.90E+01	3.81E+01	4.53E+01	5.46E+01
1.02E+01	1.09E-01	7.23E+01	1.39E+01	1.07E+01	2.88E+01	3.76E+01	4.48E+01	5.35E+01
1.08E+01	1.07E-01	6.86E+01	1.36E+01	1.06E+01	2.81E+01	3.60E+01	4.30E+01	5.05E+01
1.14E+01	1.06E-01	6.49E+01	1.32E+01	1.04E+01	2.74E+01	3.43E+01	4.11E+01	4.74E+01
1.21E+01	1.04E-01	6.12E+01	1.28E+01	1.02E+01	2.61E+01	3.26E+01	3.98E+01	4.57E+01
1.28E+01	1.02E-01	5.75E+01	1.25E+01	1.01E+01	2.51E+01	3.04E+01	3.84E+01	4.38E+01
1.35E+01	1.00E-01	5.38E+01	1.21E+01	9.92E+00	2.42E+01	2.92E+01	3.64E+01	4.20E+01
1.43E+01	9.86E-02	5.02E+01	1.17E+01	9.71E+00	2.31E+01	2.81E+01	3.42E+01	4.01E+01
1.51E+01	9.67E-02	4.66E+01	1.14E+01	9.50E+00	2.20E+01	2.69E+01	3.22E+01	3.83E+01
1.60E+01	9.46E-02	4.31E+01	1.10E+01	9.30E+00	2.11E+01	2.55E+01	2.98E+01	3.64E+01
1.70E+01	9.26E-02	3.97E+01	1.06E+01	9.10E+00	2.02E+01	2.41E+01	2.78E+01	3.43E+01
1.80E+01	9.04E-02	3.64E+01	1.02E+01	8.87E+00	1.95E+01	2.27E+01	2.64E+01	3.20E+01
1.90E+01	8.82E-02	3.32E+01	9.80E+00	8.64E+00	1.87E+01	2.15E+01	2.50E+01	3.05E+01

2.01E+01 8.59E-02 3.02E+01 9.41E+00 8.40E+00 1.75E+01 2.03E+01 2.36E+01 2.88E+01

2.13E+01 8.35E-02 2.82E+01 9.01E+00 8.15E+00 1.66E+01 1.90E+01 2.22E+01 2.69E+01

2.25E+01 8.11E-02 2.68E+01 8.61E+00 7.91E+00 1.56E+01 1.79E+01 2.07E+01 2.44E+01

2.38E+01 7.86E-02 2.56E+01 8.22E+00 7.62E+00 1.47E+01 1.69E+01 1.90E+01 2.26E+01

2.52E+01 7.60E-02 2.43E+01 7.82E+00 7.35E+00 1.34E+01 1.60E+01 1.79E+01 2.08E+01

2.67E+01 7.34E-02 2.29E+01 7.43E+00 7.09E+00 1.26E+01 1.50E+01 1.65E+01 1.90E+01

2.82E+01 7.07E-02 2.15E+01 7.04E+00 6.82E+00 1.18E+01 1.40E+01 1.52E+01 1.74E+01

2.99E+01 6.80E-02 2.02E+01 6.65E+00 6.52E+00 1.10E+01 1.28E+01 1.40E+01 1.57E+01

3.00E+01 6.78E-02 2.01E+01 6.62E+00 6.51E+00 1.10E+01 1.27E+01 1.39E+01 1.57E+01

3.16E+01 6.52E-02 1.88E+01 6.27E+00 6.23E+00 1.03E+01 1.19E+01 1.30E+01 1.46E+01

3.35E+01 6.24E-02 1.75E+01 5.89E+00 5.93E+00 9.74E+00 1.11E+01 1.22E+01 1.33E+01

3.54E+01 5.96E-02 1.61E+01 5.53E+00 5.62E+00 9.13E+00 1.02E+01 1.13E+01 1.22E+01

3.75E+01 5.67E-02 1.49E+01 5.17E+00 5.32E+00 8.30E+00 9.43E+00 1.03E+01 1.10E+01

3.97E+01 3.92E-02 1.36E+01 4.82E+00 4.99E+00 7.65E+00 8.71E+00 9.47E+00 1.01E+01

4.20E+01 2.38E-02 1.24E+01 4.47E+00 4.69E+00 6.98E+00 7.97E+00 8.68E+00 9.24E+00

4.44E+01 1.41E-02 1.13E+01 4.14E+00 4.42E+00 6.43E+00 7.24E+00 7.95E+00 8.41E+00

4.70E+01 8.05E-03 1.02E+01 3.82E+00 4.11E+00 5.91E+00 6.63E+00 7.22E+00 7.71E+00

4.97E+01 4.46E-03 9.10E+00 3.51E+00 3.81E+00 5.43E+00 6.01E+00 6.57E+00 7.03E+00

5.26E+01 2.39E-03 8.11E+00 3.22E+00 3.52E+00 4.97E+00 5.44E+00 5.90E+00 6.38E+00

5.57E+01 1.23E-03 7.17E+00 2.93E+00 3.22E+00 4.53E+00 4.89E+00 5.31E+00 5.75E+00

5.90E+01 6.12E-04 6.30E+00 2.66E+00 2.95E+00 4.08E+00 4.40E+00 4.76E+00 5.13E+00

6.24E+01 2.92E-04 5.49E+00 2.40E+00 2.67E+00 3.65E+00 3.97E+00 4.26E+00 4.57E+00

6.60E+01 1.33E-04 4.75E+00 2.16E+00 2.43E+00 3.26E+00 3.59E+00 3.79E+00 4.07E+00

6.99E+01 0.00E+00 4.07E+00 1.93E+00 2.20E+00 2.91E+00 3.19E+00 3.39E+00 3.59E+00

7.39E+01 0.00E+00 3.48E+00 1.72E+00 1.97E+00 2.59E+00 2.86E+00 3.02E+00 3.15E+00

7.82E+01 0.00E+00 3.10E+00 1.52E+00 1.75E+00 2.29E+00 2.49E+00 2.69E+00 2.78E+00

8.28E+01 0.00E+00 2.75E+00 1.34E+00 1.53E+00 2.01E+00 2.19E+00 2.35E+00 2.45E+00

8.76E+01 0.00E+00 2.42E+00 1.17E+00 1.34E+00 1.76E+00 1.91E+00 2.05E+00 2.16E+00

9.27E+01 0.00E+00 2.11E+00 1.02E+00 1.16E+00 1.54E+00 1.64E+00 1.80E+00 1.90E+00

9.81E+01 0.00E+00 1.82E+00 8.77E-01 1.01E+00 1.34E+00 1.42E+00 1.56E+00 1.66E+00

1.00E+02 0.00E+00 1.73E+00 8.34E-01 9.67E-01 1.27E+00 1.36E+00 1.49E+00 1.57E+00

1.04E+02 0.00E+00 1.56E+00 7.51E-01 8.75E-01 1.15E+00 1.24E+00 1.34E+00 1.42E+00

1.10E+02 0.00E+00 1.33E+00 6.38E-01 7.39E-01 9.95E-01 1.07E+00 1.14E+00 1.23E+00

1.16E+02 0.00E+00 1.12E+00 5.38E-01 6.22E-01 8.50E-01 9.17E-01 9.75E-01 1.05E+00

1.23E+02 0.00E+00 9.35E-01 4.49E-01 5.13E-01 7.20E-01 7.79E-01 8.30E-01 8.95E-01

1.30E+02 0.00E+00 7.71E-01 3.72E-01 4.18E-01 6.04E-01 6.54E-01 6.88E-01 7.51E-01

1.38E+02 0.00E+00 6.30E-01 3.05E-01 3.44E-01 5.05E-01 5.45E-01 5.71E-01 6.22E-01

1.46E+02 0.00E+00 5.20E-01 2.48E-01 2.79E-01 4.19E-01 4.49E-01 4.71E-01 5.10E-01

1.54E+02 0.00E+00 4.25E-01 1.99E-01 2.23E-01 3.44E-01 3.64E-01 3.85E-01 4.13E-01

1.63E+02 0.00E+00 3.43E-01 1.58E-01 1.74E-01 2.78E-01 2.95E-01 3.13E-01 3.30E-01

1.73E+02 0.00E+00 2.73E-01 1.24E-01 1.38E-01 2.22E-01 2.37E-01 2.50E-01 2.61E-01

1.83E+02 0.00E+00 2.15E-01 9.60E-02 1.06E-01 1.75E-01 1.87E-01 1.99E-01 2.08E-01

1.94E+02 0.00E+00 1.67E-01 7.33E-02 8.01E-02 1.35E-01 1.45E-01 1.55E-01 1.62E-01

2.05E+02 0.00E+00 1.28E-01 5.52E-02 5.88E-02 1.04E-01 1.11E-01 1.18E-01 1.24E-01

2.17E+02 0.00E+00 9.60E-02 4.09E-02 4.25E-02 7.80E-02 8.32E-02 8.93E-02 9.29E-02

2.29E+02 0.00E+00 7.10E-02 2.98E-02 3.06E-02 5.77E-02 6.20E-02 6.64E-02 6.92E-02

2.43E+02 0.00E+00 5.17E-02 2.13E-02 2.17E-02 4.23E-02 4.55E-02 4.84E-02 5.03E-02

2.57E+02 0.00E+00 3.69E-02 1.50E-02 1.49E-02 3.02E-02 3.26E-02 3.46E-02 3.58E-02

2.72E+02 0.00E+00 2.58E-02 1.03E-02 1.00E-02 2.10E-02 2.32E-02 2.41E-02 2.50E-02

2.88E+02 0.00E+00 1.77E-02 6.93E-03 6.52E-03 1.45E-02 1.58E-02 1.65E-02 1.71E-02

3.00E+02 0.00E+00 1.32E-02 5.11E-03 4.70E-03 1.09E-02 1.19E-02 1.24E-02 1.27E-02

3.05E+02 0.00E+00 1.19E-02 4.57E-03 4.16E-03 9.79E-03 1.07E-02 1.11E-02 1.14E-02

3.22E+02 0.00E+00 7.78E-03 2.93E-03 2.61E-03 6.35E-03 7.04E-03 7.33E-03 7.57E-03

3.41E+02 0.00E+00 4.97E-03 1.84E-03 1.61E-03 4.07E-03 4.47E-03 4.70E-03 4.85E-03

3.61E+02 0.00E+00 3.10E-03 1.12E-03 9.70E-04 2.52E-03 2.77E-03 2.90E-03 3.01E-03

3.82E+02 0.00E+00 1.88E-03 6.64E-04 5.54E-04 1.51E-03 1.68E-03 1.77E-03 1.82E-03

4.04E+02 0.00E+00 1.11E-03 3.81E-04 3.13E-04 8.83E-04 9.88E-04 1.04E-03 1.07E-03

4.28E+02 0.00E+00 6.31E-04 2.12E-04 1.67E-04 5.01E-04 5.66E-04 5.92E-04 6.10E-04

4.53E+02 0.00E+00 3.48E-04 1.14E-04 8.62E-05 2.75E-04 3.13E-04 3.26E-04 3.36E-04

4.79E+02 0.00E+00 1.86E-04 5.93E-05 4.28E-05 1.48E-04 1.67E-04 1.74E-04 1.79E-04

5.07E+02 0.00E+00 9.56E-05 2.97E-05 2.03E-05 7.49E-05 8.46E-05 8.94E-05 9.36E-05

5.36E+02 0.00E+00 4.73E-05 1.43E-05 9.24E-06 3.65E-05 4.20E-05 4.40E-05 4.63E-05

5.68E+02 0.00E+00 2.24E-05 6.61E-06 4.09E-06 1.72E-05 1.98E-05 2.10E-05 2.20E-05

6.01E+02 0.00E+00 1.02E-05 2.92E-06 1.68E-06 7.71E-06 8.99E-06 9.64E-06 9.97E-06

6.36E+02 0.00E+00 4.43E-06 1.23E-06 6.55E-07 3.34E-06 3.89E-06 4.18E-06 4.32E-06

6.73E+02 0.00E+00 1.83E-06 4.94E-07 2.44E-07 1.38E-06 1.61E-06 1.71E-06 1.79E-06

7.12E+02 0.00E+00 7.19E-07 1.88E-07 9.03E-08 5.34E-07 6.16E-07 6.67E-07 7.05E-07

7.53E+02 0.00E+00 2.68E-07 6.77E-08 3.00E-08 1.97E-07 2.27E-07 2.47E-07 2.62E-07

7.97E+02 0.00E+00 9.41E-08 2.30E-08 9.15E-09 6.87E-08 7.89E-08 8.62E-08 9.14E-08

8.44E+02 0.00E+00 3.11E-08 7.30E-09 2.60E-09 2.26E-08 2.63E-08 2.84E-08 3.02E-08

8.93E+02 0.00E+00 9.64E-09 2.18E-09 6.78E-10 6.86E-09 8.06E-09 8.76E-09 9.33E-09

9.45E+02 0.00E+00 2.79E-09 6.05E-10 1.65E-10 1.95E-09 2.32E-09 2.52E-09 2.69E-09

1.00E+03 0.00E+00 7.51E-10 1.56E-10 3.71E-11 5.20E-10 6.25E-10 6.70E-10 7.23E-10



Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SR-90.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	7.02E-02	2.41E+02	2.25E+01	1.38E+01	4.70E+01	7.28E+01	1.11E+02	1.71E+02
1.00E+00	6.86E-02	2.01E+02	2.13E+01	1.36E+01	4.49E+01	6.87E+01	1.02E+02	1.52E+02
1.06E+00	6.85E-02	1.98E+02	2.12E+01	1.36E+01	4.48E+01	6.85E+01	1.02E+02	1.51E+02
1.12E+00	6.84E-02	1.96E+02	2.12E+01	1.35E+01	4.46E+01	6.82E+01	1.01E+02	1.50E+02
1.19E+00	6.83E-02	1.94E+02	2.11E+01	1.35E+01	4.45E+01	6.79E+01	1.01E+02	1.49E+02
1.25E+00	6.82E-02	1.91E+02	2.10E+01	1.35E+01	4.43E+01	6.75E+01	1.00E+02	1.48E+02
1.33E+00	6.80E-02	1.89E+02	2.09E+01	1.35E+01	4.42E+01	6.71E+01	9.99E+01	1.46E+02
1.40E+00	6.79E-02	1.86E+02	2.08E+01	1.35E+01	4.40E+01	6.67E+01	9.93E+01	1.45E+02
1.49E+00	6.78E-02	1.83E+02	2.08E+01	1.34E+01	4.38E+01	6.63E+01	9.87E+01	1.43E+02
1.57E+00	6.76E-02	1.81E+02	2.07E+01	1.34E+01	4.36E+01	6.58E+01	9.80E+01	1.40E+02
1.66E+00	6.75E-02	1.77E+02	2.06E+01	1.34E+01	4.35E+01	6.54E+01	9.73E+01	1.37E+02
1.76E+00	6.73E-02	1.74E+02	2.05E+01	1.34E+01	4.32E+01	6.49E+01	9.66E+01	1.36E+02
1.86E+00	6.72E-02	1.71E+02	2.04E+01	1.33E+01	4.30E+01	6.44E+01	9.59E+01	1.34E+02
1.97E+00	6.70E-02	1.68E+02	2.02E+01	1.33E+01	4.28E+01	6.38E+01	9.51E+01	1.32E+02
2.09E+00	6.68E-02	1.64E+02	2.01E+01	1.32E+01	4.26E+01	6.34E+01	9.42E+01	1.30E+02
2.21E+00	6.66E-02	1.61E+02	2.00E+01	1.32E+01	4.23E+01	6.30E+01	9.34E+01	1.28E+02
2.34E+00	6.64E-02	1.57E+02	1.99E+01	1.32E+01	4.20E+01	6.26E+01	9.25E+01	1.26E+02
2.47E+00	6.62E-02	1.54E+02	1.97E+01	1.31E+01	4.18E+01	6.22E+01	9.15E+01	1.24E+02
2.62E+00	6.60E-02	1.51E+02	1.96E+01	1.31E+01	4.15E+01	6.17E+01	9.05E+01	1.22E+02
2.77E+00	6.57E-02	1.49E+02	1.94E+01	1.30E+01	4.12E+01	6.12E+01	8.95E+01	1.20E+02
2.93E+00	6.55E-02	1.46E+02	1.93E+01	1.30E+01	4.08E+01	6.07E+01	8.84E+01	1.17E+02
3.00E+00	6.54E-02	1.45E+02	1.92E+01	1.30E+01	4.07E+01	6.05E+01	8.79E+01	1.16E+02
3.10E+00	6.52E-02	1.43E+02	1.91E+01	1.29E+01	4.05E+01	6.02E+01	8.72E+01	1.15E+02
3.28E+00	6.49E-02	1.40E+02	1.90E+01	1.29E+01	4.01E+01	5.97E+01	8.60E+01	1.12E+02
3.48E+00	6.46E-02	1.37E+02	1.88E+01	1.28E+01	3.98E+01	5.91E+01	8.48E+01	1.10E+02
3.68E+00	6.43E-02	1.34E+02	1.86E+01	1.28E+01	3.94E+01	5.85E+01	8.35E+01	1.08E+02
3.89E+00	6.40E-02	1.31E+02	1.84E+01	1.27E+01	3.90E+01	5.79E+01	8.21E+01	1.06E+02
4.12E+00	6.37E-02	1.27E+02	1.82E+01	1.26E+01	3.85E+01	5.73E+01	7.95E+01	1.04E+02
4.36E+00	6.33E-02	1.24E+02	1.80E+01	1.25E+01	3.81E+01	5.65E+01	7.65E+01	1.02E+02
4.61E+00	6.29E-02	1.20E+02	1.78E+01	1.25E+01	3.76E+01	5.54E+01	7.40E+01	9.92E+01
4.88E+00	6.25E-02	1.17E+02	1.75E+01	1.24E+01	3.71E+01	5.42E+01	7.26E+01	9.60E+01
5.17E+00	6.21E-02	1.13E+02	1.73E+01	1.23E+01	3.65E+01	5.30E+01	7.10E+01	9.26E+01
5.47E+00	6.16E-02	1.09E+02	1.71E+01	1.23E+01	3.60E+01	5.18E+01	6.93E+01	8.82E+01
5.78E+00	6.12E-02	1.05E+02	1.68E+01	1.21E+01	3.54E+01	5.05E+01	6.73E+01	8.37E+01
6.12E+00	6.07E-02	1.01E+02	1.66E+01	1.20E+01	3.48E+01	4.91E+01	6.52E+01	8.14E+01
6.48E+00	6.02E-02	9.71E+01	1.63E+01	1.20E+01	3.42E+01	4.72E+01	6.30E+01	7.84E+01
6.86E+00	5.96E-02	9.30E+01	1.60E+01	1.19E+01	3.36E+01	4.61E+01	6.05E+01	7.48E+01
7.26E+00	5.91E-02	8.88E+01	1.57E+01	1.17E+01	3.29E+01	4.49E+01	5.83E+01	7.11E+01
7.68E+00	5.85E-02	8.46E+01	1.54E+01	1.16E+01	3.23E+01	4.38E+01	5.60E+01	6.74E+01
8.13E+00	5.79E-02	8.04E+01	1.51E+01	1.15E+01	3.17E+01	4.25E+01	5.36E+01	6.37E+01
8.60E+00	5.72E-02	7.61E+01	1.48E+01	1.13E+01	3.08E+01	4.13E+01	5.04E+01	6.12E+01
9.10E+00	5.65E-02	7.19E+01	1.45E+01	1.12E+01	3.00E+01	4.00E+01	4.84E+01	5.86E+01
9.63E+00	5.58E-02	6.76E+01	1.42E+01	1.10E+01	2.92E+01	3.80E+01	4.65E+01	5.51E+01
1.00E+01	5.53E-02	6.48E+01	1.39E+01	1.09E+01	2.87E+01	3.69E+01	4.52E+01	5.27E+01
1.02E+01	5.51E-02	6.34E+01	1.38E+01	1.09E+01	2.85E+01	3.65E+01	4.44E+01	5.15E+01
1.08E+01	5.43E-02	5.92E+01	1.35E+01	1.07E+01	2.76E+01	3.46E+01	4.21E+01	4.92E+01
1.14E+01	5.35E-02	5.51E+01	1.31E+01	1.05E+01	2.68E+01	3.30E+01	4.03E+01	4.73E+01
1.21E+01	5.27E-02	5.10E+01	1.28E+01	1.03E+01	2.60E+01	3.21E+01	3.79E+01	4.54E+01
1.28E+01	5.18E-02	4.78E+01	1.24E+01	1.02E+01	2.50E+01	3.06E+01	3.52E+01	4.35E+01
1.35E+01	5.09E-02	4.50E+01	1.20E+01	9.96E+00	2.41E+01	2.93E+01	3.35E+01	4.16E+01
1.43E+01	4.99E-02	4.25E+01	1.16E+01	9.76E+00	2.31E+01	2.80E+01	3.15E+01	3.95E+01
1.51E+01	4.89E-02	4.03E+01	1.13E+01	9.55E+00	2.20E+01	2.61E+01	2.89E+01	3.59E+01
1.60E+01	4.79E-02	3.80E+01	1.09E+01	9.34E+00	2.10E+01	2.42E+01	2.74E+01	3.41E+01
1.70E+01	4.69E-02	3.58E+01	1.05E+01	9.13E+00	2.01E+01	2.30E+01	2.58E+01	3.14E+01
1.80E+01	4.58E-02	3.36E+01	1.01E+01	8.90E+00	1.91E+01	2.14E+01	2.41E+01	2.91E+01
1.90E+01	4.46E-02	3.15E+01	9.70E+00	8.65E+00	1.80E+01	2.05E+01	2.28E+01	2.77E+01

2.01E+01 4.35E-02 2.93E+01 9.31E+00 8.37E+00 1.69E+01 1.94E+01 2.12E+01 2.62E+01

2.13E+01 4.23E-02 2.72E+01 8.91E+00 8.13E+00 1.59E+01 1.83E+01 1.99E+01 2.42E+01

2.25E+01 4.11E-02 2.51E+01 8.52E+00 7.89E+00 1.47E+01 1.71E+01 1.87E+01 2.20E+01

2.38E+01 3.98E-02 2.31E+01 8.12E+00 7.64E+00 1.37E+01 1.61E+01 1.74E+01 2.07E+01

2.52E+01 3.85E-02 2.11E+01 7.73E+00 7.34E+00 1.29E+01 1.50E+01 1.63E+01 1.94E+01

2.67E+01 3.72E-02 1.92E+01 7.34E+00 7.07E+00 1.21E+01 1.38E+01 1.55E+01 1.81E+01

2.82E+01 3.58E-02 1.76E+01 6.96E+00 6.75E+00 1.12E+01 1.28E+01 1.44E+01 1.68E+01

2.99E+01 3.44E-02 1.62E+01 6.58E+00 6.48E+00 1.05E+01 1.20E+01 1.35E+01 1.56E+01

3.00E+01 3.43E-02 1.61E+01 6.55E+00 6.46E+00 1.05E+01 1.19E+01 1.35E+01 1.55E+01

3.16E+01 3.30E-02 1.49E+01 6.20E+00 6.20E+00 9.76E+00 1.11E+01 1.27E+01 1.43E+01

3.35E+01 3.16E-02 1.36E+01 5.83E+00 5.91E+00 9.14E+00 1.04E+01 1.19E+01 1.32E+01

3.54E+01 3.02E-02 1.25E+01 5.47E+00 5.61E+00 8.51E+00 9.56E+00 1.10E+01 1.19E+01

3.75E+01 2.87E-02 1.15E+01 5.11E+00 5.31E+00 7.85E+00 8.81E+00 1.01E+01 1.09E+01

3.97E+01 2.73E-02 1.05E+01 4.77E+00 5.00E+00 7.34E+00 8.19E+00 9.33E+00 9.95E+00

4.20E+01 1.64E-02 9.58E+00 4.43E+00 4.69E+00 6.75E+00 7.52E+00 8.45E+00 9.06E+00

4.44E+01 9.48E-03 8.68E+00 4.10E+00 4.39E+00 6.23E+00 7.01E+00 7.73E+00 8.20E+00

4.70E+01 5.31E-03 7.88E+00 3.79E+00 4.10E+00 5.70E+00 6.47E+00 7.01E+00 7.38E+00

4.97E+01 2.88E-03 7.24E+00 3.48E+00 3.76E+00 5.26E+00 5.99E+00 6.32E+00 6.70E+00

5.26E+01 1.50E-03 6.62E+00 3.19E+00 3.47E+00 4.81E+00 5.36E+00 5.72E+00 6.05E+00

5.57E+01 7.56E-04 6.02E+00 2.91E+00 3.16E+00 4.38E+00 4.82E+00 5.15E+00 5.44E+00

5.90E+01 3.65E-04 5.45E+00 2.64E+00 2.90E+00 3.98E+00 4.36E+00 4.67E+00 4.82E+00

6.24E+01 1.69E-04 4.90E+00 2.39E+00 2.62E+00 3.65E+00 3.95E+00 4.18E+00 4.29E+00

6.60E+01 7.49E-05 4.38E+00 2.15E+00 2.38E+00 3.28E+00 3.54E+00 3.74E+00 3.88E+00

6.99E+01 3.17E-05 3.89E+00 1.93E+00 2.15E+00 2.93E+00 3.19E+00 3.32E+00 3.49E+00

7.39E+01 1.27E-05 3.43E+00 1.71E+00 1.92E+00 2.61E+00 2.86E+00 2.96E+00 3.13E+00

7.82E+01 4.84E-06 3.00E+00 1.52E+00 1.71E+00 2.31E+00 2.52E+00 2.64E+00 2.77E+00

8.28E+01 1.74E-06 2.61E+00 1.34E+00 1.51E+00 2.05E+00 2.23E+00 2.34E+00 2.44E+00

8.76E+01 5.92E-07 2.25E+00 1.17E+00 1.33E+00 1.79E+00 1.94E+00 2.07E+00 2.14E+00

9.27E+01 1.89E-07 1.92E+00 1.02E+00 1.16E+00 1.56E+00 1.70E+00 1.81E+00 1.86E+00

9.81E+01 5.62E-08 1.66E+00 8.77E-01 9.99E-01 1.37E+00 1.48E+00 1.56E+00 1.62E+00

1.00E+02 3.70E-08 1.59E+00 8.34E-01 9.51E-01 1.30E+00 1.40E+00 1.48E+00 1.55E+00

1.04E+02 1.56E-08 1.45E+00 7.52E-01 8.59E-01 1.18E+00 1.26E+00 1.34E+00 1.41E+00

1.10E+02 4.03E-09 1.25E+00 6.39E-01 7.28E-01 1.02E+00 1.09E+00 1.14E+00 1.21E+00

1.16E+02 9.59E-10 1.07E+00 5.39E-01 6.18E-01 8.73E-01 9.25E-01 9.74E-01 1.03E+00

1.23E+02 2.10E-10 9.08E-01 4.51E-01 5.19E-01 7.38E-01 7.68E-01 8.27E-01 8.83E-01

1.30E+02 4.22E-11 7.61E-01 3.74E-01 4.34E-01 6.18E-01 6.48E-01 6.91E-01 7.53E-01

1.38E+02 7.70E-12 6.31E-01 3.07E-01 3.57E-01 5.13E-01 5.40E-01 5.75E-01 6.27E-01

1.46E+02 1.27E-12 5.21E-01 2.49E-01 2.86E-01 4.22E-01 4.47E-01 4.75E-01 5.16E-01

1.54E+02 1.90E-13 4.25E-01 2.00E-01 2.32E-01 3.45E-01 3.66E-01 3.87E-01 4.18E-01

1.63E+02 2.53E-14 3.43E-01 1.59E-01 1.83E-01 2.78E-01 2.96E-01 3.09E-01 3.34E-01

1.73E+02 3.00E-15 2.74E-01 1.25E-01 1.44E-01 2.20E-01 2.37E-01 2.48E-01 2.64E-01

1.83E+02 3.14E-16 2.15E-01 9.71E-02 1.11E-01 1.74E-01 1.88E-01 1.97E-01 2.07E-01

1.94E+02 2.89E-17 1.67E-01 7.43E-02 8.34E-02 1.35E-01 1.48E-01 1.56E-01 1.63E-01

2.05E+02 2.31E-18 1.28E-01 5.60E-02 6.12E-02 1.04E-01 1.14E-01 1.19E-01 1.26E-01

2.17E+02 1.59E-19 9.60E-02 4.15E-02 4.47E-02 7.93E-02 8.64E-02 8.97E-02 9.48E-02

2.29E+02 9.39E-21 7.10E-02 3.02E-02 3.17E-02 5.94E-02 6.40E-02 6.69E-02 7.01E-02

2.43E+02 4.70E-22 5.17E-02 2.16E-02 2.23E-02 4.28E-02 4.64E-02 4.94E-02 5.09E-02

2.57E+02 0.00E+00 3.69E-02 1.51E-02 1.52E-02 3.07E-02 3.35E-02 3.53E-02 3.63E-02

2.72E+02 0.00E+00 2.58E-02 1.04E-02 1.03E-02 2.15E-02 2.36E-02 2.49E-02 2.53E-02

2.88E+02 0.00E+00 1.77E-02 6.98E-03 6.67E-03 1.45E-02 1.63E-02 1.71E-02 1.75E-02

3.00E+02 0.00E+00 1.32E-02 5.14E-03 4.82E-03 1.09E-02 1.22E-02 1.27E-02 1.30E-02

3.05E+02 0.00E+00 1.19E-02 4.59E-03 4.26E-03 9.78E-03 1.10E-02 1.14E-02 1.17E-02

3.22E+02 0.00E+00 7.77E-03 2.95E-03 2.63E-03 6.31E-03 7.21E-03 7.47E-03 7.67E-03

3.41E+02 0.00E+00 4.97E-03 1.85E-03 1.60E-03 3.98E-03 4.57E-03 4.77E-03 4.90E-03

3.61E+02 0.00E+00 3.09E-03 1.13E-03 9.62E-04 2.48E-03 2.83E-03 2.97E-03 3.05E-03

3.82E+02 0.00E+00 1.87E-03 6.68E-04 5.55E-04 1.50E-03 1.70E-03 1.80E-03 1.84E-03

4.04E+02 0.00E+00 1.10E-03 3.85E-04 3.17E-04 8.85E-04 9.95E-04 1.06E-03 1.08E-03

4.28E+02 0.00E+00 6.29E-04 2.15E-04 1.67E-04 5.04E-04 5.66E-04 6.01E-04 6.17E-04

4.53E+02 0.00E+00 3.47E-04 1.16E-04 8.43E-05 2.80E-04 3.12E-04 3.31E-04 3.40E-04

4.79E+02 0.00E+00 1.85E-04 6.00E-05 4.25E-05 1.48E-04 1.66E-04 1.75E-04 1.81E-04

5.07E+02 0.00E+00 9.53E-05 3.01E-05 2.09E-05 7.60E-05 8.58E-05 8.97E-05 9.31E-05

5.36E+02 0.00E+00 4.71E-05 1.45E-05 9.57E-06 3.72E-05 4.19E-05 4.42E-05 4.62E-05

5.68E+02 0.00E+00 2.24E-05 6.69E-06 4.29E-06 1.76E-05 1.95E-05 2.10E-05 2.19E-05

6.01E+02 0.00E+00 1.02E-05 2.96E-06 1.83E-06 8.04E-06 8.93E-06 9.49E-06 9.94E-06

6.36E+02 0.00E+00 4.42E-06 1.25E-06 7.39E-07 3.46E-06 3.85E-06 4.10E-06 4.31E-06

6.73E+02 0.00E+00 1.83E-06 5.00E-07 2.71E-07 1.41E-06 1.59E-06 1.69E-06 1.78E-06

7.12E+02 0.00E+00 7.18E-07 1.90E-07 9.71E-08 5.52E-07 6.18E-07 6.60E-07 6.98E-07

7.53E+02 0.00E+00 2.67E-07 6.84E-08 3.23E-08 2.05E-07 2.28E-07 2.44E-07 2.61E-07

7.97E+02 0.00E+00 9.38E-08 2.33E-08 1.01E-08 7.12E-08 7.97E-08 8.56E-08 9.16E-08

8.44E+02 0.00E+00 3.10E-08 7.42E-09 3.01E-09 2.31E-08 2.60E-08 2.84E-08 3.02E-08

8.93E+02 0.00E+00 9.61E-09 2.20E-09 8.10E-10 6.97E-09 8.00E-09 8.78E-09 9.35E-09

9.45E+02 0.00E+00 2.78E-09 6.09E-10 2.01E-10 1.97E-09 2.29E-09 2.54E-09 2.72E-09

1.00E+03 0.00E+00 7.49E-10 1.57E-10 4.46E-11 5.18E-10 6.14E-10 6.83E-10 7.37E-10



Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SR-90.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	2.229E+01
2	0.000E+00	2.247E+01
3	0.000E+00	2.247E+01

Title : RESRAD Default Parameters
 Input File : FCS BFM INSITU UA SR-90.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	10 -0.02	10 -0.02	8 -0.03	8 -0.01
Contaminated zone b parameter	4 -0.06	4 -0.06	12 0.02	12 0.01
Evapotranspiration coefficient	7 -0.04	7 -0.04	5 0.05	5 0.02
Wind Speed	13 0.01	13 0.01	3 -0.06	3 -0.02
Runoff coefficient	5 -0.05	5 -0.05	15 0.01	15 0.00
b Parameter of Unsaturated zone 1	12 -0.01	12 -0.01	14 0.01	14 0.00
Mass loading for inhalation	9 -0.02	9 -0.02	7 -0.04	7 -0.01
Indoor dust filtration factor	16 0.00	16 0.00	16 0.00	16 0.00
Depth of soil mixing layer	14 0.00	14 0.00	9 0.03	9 0.01
Depth of roots	2 0.13	2 0.13	2 0.77	2 0.44
Wet weight crop yield of fruit, grain and non-leafy vegetables	6 0.04	6 0.04	6 -0.05	6 -0.02
Weathering removal constant of all vegetation	11 -0.01	11 -0.01	4 -0.06	4 -0.02
Wet foliar interception fraction of leafy vegetables	8 -0.03	8 -0.03	11 -0.02	11 -0.01
Humidity in air	3 0.09	3 0.09	13 0.01	13 0.00
Cover erosion rate	17 0.00	17 0.00	17 0.00	17 0.00
Kd of Sr-90 in Contaminated Zone	1 -0.17	1 -0.17	1 -0.91	1 -0.81
Kd of Sr-90 in Saturated Zone	15 0.00	15 0.00	10 0.03	10 0.01
R-SQUARE	0.06	0.06	0.87	0.87

-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 SR-90.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	-0.04	6	-0.04	15	0.00	15	0.00
Contaminated zone b parameter	11	0.03	11	0.03	10	0.06	10	0.02
Evapotranspiration coefficient	16	0.00	16	0.00	17	0.00	17	0.00
Wind Speed	5	0.05	5	0.05	12	0.03	12	0.01
Runoff coefficient	9	0.03	9	0.03	6	0.07	6	0.03
b Parameter of Unsaturated zone 1	10	-0.03	10	-0.03	13	0.01	13	0.00
Mass loading for inhalation	15	-0.01	15	-0.01	16	0.00	16	0.00
Indoor dust filtration factor	4	-0.06	4	-0.05	11	-0.05	11	-0.02
Depth of soil mixing layer	7	0.04	7	0.04	14	-0.01	14	0.00
Depth of roots	1	0.14	1	0.14	2	0.79	2	0.45
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	0.02	13	0.02	5	0.09	5	0.03
Weathering removal constant of all vegetation	8	-0.04	8	-0.03	3	-0.14	3	-0.05
Wet foliar interception fraction of leafy vegetables	3	0.06	3	0.06	4	0.11	4	0.04
Humidity in air	12	-0.03	12	-0.02	9	-0.06	9	-0.02
Cover erosion rate	17	0.00	17	0.00	7	-0.07	7	-0.03
Kd of Sr-90 in Contaminated Zone	2	-0.10	2	-0.10	1	-0.92	1	-0.82
Kd of Sr-90 in Saturated Zone	14	0.02	14	0.02	8	0.07	8	0.02
R-SQUARE		0.04		0.04		0.88		0.88

-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 SR-90.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	17 0.00	17 0.00	13 0.02	13 0.01
Contaminated zone b parameter	7 0.04	7 0.04	3 0.16	3 0.06
Evapotranspiration coefficient	14 -0.01	14 -0.01	9 -0.06	9 -0.02
Wind Speed	8 -0.04	8 -0.03	15 -0.02	15 -0.01
Runoff coefficient	6 -0.05	6 -0.04	16 -0.02	16 -0.01
b Parameter of Unsaturated zone 1	15 0.01	15 0.01	14 -0.02	14 -0.01
Mass loading for inhalation	3 0.13	3 0.12	10 -0.04	10 -0.02
Indoor dust filtration factor	12 -0.02	12 -0.02	8 -0.06	8 -0.02
Depth of soil mixing layer	16 0.00	16 0.00	17 0.00	17 0.00
Depth of roots	1 0.19	1 0.19	2 0.79	2 0.44
Wet weight crop yield of fruit, grain and non-leafy vegetables	10 -0.03	10 -0.03	12 0.03	12 0.01
Weathering removal constant of all vegetation	5 -0.05	5 -0.04	7 -0.06	7 -0.02
Wet foliar interception fraction of leafy vegetables	11 0.03	11 0.03	4 0.11	4 0.04
Humidity in air	9 -0.03	9 -0.03	5 -0.11	5 -0.04
Cover erosion rate	4 0.09	4 0.09	11 0.04	11 0.01
Kd of Sr-90 in Contaminated Zone	2 -0.16	2 -0.15	1 -0.92	1 -0.82
Kd of Sr-90 in Saturated Zone	13 -0.01	13 -0.01	6 -0.10	6 -0.03
R-SQUARE	0.08	0.08	0.88	0.88

-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.