

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
Eu-152										
Min	0.00E+00	3.02E-05	3.02E-05	2.93E-05	2.75E-05	2.19E-05	7.78E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.97E+02	9.87E+00	9.87E+00	7.93E+00	5.12E+00	1.88E+00	6.62E-01	1.73E-02	5.27E-07	6.31E-15
Avg	1.63E+00	2.22E-01	1.81E-01	1.60E-01	1.28E-01	8.54E-02	3.00E-02	8.33E-04	1.19E-07	4.37E-15
Std	1.11E+01	8.12E-01	7.77E-01	6.53E-01	4.73E-01	2.67E-01	1.05E-01	3.20E-03	2.00E-07	1.29E-15
ALL										
Min	0.00E+00	3.02E-05	3.02E-05	2.93E-05	2.75E-05	2.19E-05	7.78E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.97E+02	9.87E+00	9.87E+00	7.93E+00	5.12E+00	1.88E+00	6.62E-01	1.73E-02	5.27E-07	6.31E-15
Avg	1.63E+00	2.22E-01	1.81E-01	1.60E-01	1.28E-01	8.54E-02	3.00E-02	8.33E-04	1.19E-07	4.37E-15
Std	1.11E+01	8.12E-01	7.77E-01	6.53E-01	4.73E-01	2.67E-01	1.05E-01	3.20E-03	2.00E-07	1.29E-15

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
Eu-152								
Min	7.14E-10	6.91E-10	6.48E-10	5.17E-10	1.94E-10	0.00E+00	0.00E+00	0.00E+00
Max	3.24E-04	2.61E-04	1.68E-04	5.23E-05	1.60E-05	4.04E-07	1.23E-11	3.94E-20
Avg	5.68E-06	5.03E-06	4.00E-06	2.45E-06	7.99E-07	2.07E-08	2.80E-12	2.71E-20
Std	2.50E-05	2.09E-05	1.51E-05	7.26E-06	2.53E-06	7.47E-08	4.65E-12	8.07E-21
ALL								
Min	7.14E-10	6.91E-10	6.48E-10	5.17E-10	1.94E-10	0.00E+00	0.00E+00	0.00E+00
Max	3.24E-04	2.61E-04	1.68E-04	5.23E-05	1.60E-05	4.04E-07	1.23E-11	3.94E-20
Avg	5.68E-06	5.03E-06	4.00E-06	2.45E-06	7.99E-07	2.07E-08	2.80E-12	2.71E-20
Std	2.50E-05	2.09E-05	1.51E-05	7.26E-06	2.53E-06	7.47E-08	4.65E-12	8.07E-21

ALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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
Eu-152								
Min	2.51E-05	1.93E-05	1.15E-05	1.84E-06	9.91E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.16E-04	1.22E-03	1.35E-01	1.86E+00	6.58E-01	1.73E-02	5.26E-07	8.20E-23
Avg	2.88E-05	3.29E-05	3.18E-04	2.19E-02	1.67E-02	6.57E-04	1.17E-07	4.04E-23
Std	5.54E-06	5.65E-05	4.76E-03	1.93E-01	1.01E-01	3.19E-03	2.00E-07	3.59E-23
ALL								
Min	2.51E-05	1.93E-05	1.15E-05	1.84E-06	9.91E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.16E-04	1.22E-03	1.35E-01	1.86E+00	6.58E-01	1.73E-02	5.26E-07	8.20E-23
Avg	2.88E-05	3.29E-05	3.18E-04	2.19E-02	1.67E-02	6.57E-04	1.17E-07	4.04E-23
Std	5.54E-06	5.65E-05	4.76E-03	1.93E-01	1.01E-01	3.19E-03	2.00E-07	3.59E-23

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
	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
Eu-152								
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	1.11E-06	3.68E-06	1.36E-06	3.50E-08	1.90E-12	4.21E-16
Avg	0.00E+00	0.00E+00	1.03E-09	1.83E-08	1.35E-08	5.28E-10	1.03E-13	6.13E-17
Std	0.00E+00	0.00E+00	2.99E-08	1.74E-07	9.09E-08	2.86E-09	2.07E-13	6.01E-17
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	1.11E-06	3.68E-06	1.36E-06	3.50E-08	1.90E-12	4.21E-16
Avg	0.00E+00	0.00E+00	1.03E-09	1.83E-08	1.35E-08	5.28E-10	1.03E-13	6.13E-17
Std	0.00E+00	0.00E+00	2.99E-08	1.74E-07	9.09E-08	2.86E-09	2.07E-13	6.01E-17

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							
	(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
Eu-152								
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
Eu-152								
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	2.78E-03	2.76E-03	2.72E-03	2.11E-03	7.46E-04	1.96E-05	5.96E-10	1.78E-15
Avg	1.66E-03	1.57E-03	1.42E-03	9.98E-04	3.57E-04	9.92E-06	3.58E-10	1.33E-15
Std	9.70E-04	9.18E-04	8.26E-04	5.84E-04	2.12E-04	5.74E-06	1.97E-10	5.22E-16
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	2.78E-03	2.76E-03	2.72E-03	2.11E-03	7.46E-04	1.96E-05	5.96E-10	1.78E-15
Avg	1.66E-03	1.57E-03	1.42E-03	9.98E-04	3.57E-04	9.92E-06	3.58E-10	1.33E-15
Std	9.70E-04	9.18E-04	8.26E-04	5.84E-04	2.12E-04	5.74E-06	1.97E-10	5.22E-16

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-152								
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	1.22E-04	1.22E-04	2.94E-04	6.68E-04	2.36E-04	6.20E-06	1.89E-10	4.44E-16
Avg	7.35E-05	6.98E-05	6.34E-05	5.15E-05	2.11E-05	6.46E-07	5.51E-11	2.94E-16
Std	4.31E-05	4.08E-05	3.75E-05	7.11E-05	3.54E-05	1.09E-06	6.90E-11	1.78E-16
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	1.22E-04	1.22E-04	2.94E-04	6.68E-04	2.36E-04	6.20E-06	1.89E-10	4.44E-16
Avg	7.35E-05	6.98E-05	6.34E-05	5.15E-05	2.11E-05	6.46E-07	5.51E-11	2.94E-16
Std	4.31E-05	4.08E-05	3.75E-05	7.11E-05	3.54E-05	1.09E-06	6.90E-11	1.78E-16

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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
Eu-152								
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	2.85E-05	2.83E-05	4.68E-05	7.91E-05	2.80E-05	7.34E-07	2.23E-11	1.78E-17
Avg	1.71E-05	1.62E-05	1.47E-05	1.10E-05	4.21E-06	1.23E-07	7.61E-12	1.19E-17
Std	1.00E-05	9.48E-06	8.59E-06	9.43E-06	4.32E-06	1.30E-07	7.70E-12	6.78E-18
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	2.85E-05	2.83E-05	4.68E-05	7.91E-05	2.80E-05	7.34E-07	2.23E-11	1.78E-17
Avg	1.71E-05	1.62E-05	1.47E-05	1.10E-05	4.21E-06	1.23E-07	7.61E-12	1.19E-17
Std	1.00E-05	9.48E-06	8.59E-06	9.43E-06	4.32E-06	1.30E-07	7.70E-12	6.78E-18

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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
Eu-152								
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	1.83E-05	5.36E-05	1.89E-05	4.97E-07	1.51E-11	7.59E-17
Avg	0.00E+00	0.00E+00	2.73E-08	6.73E-07	4.95E-07	1.92E-08	3.66E-12	4.96E-17
Std	0.00E+00	0.00E+00	6.51E-07	5.73E-06	2.94E-06	9.21E-08	5.92E-12	3.19E-17
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	1.83E-05	5.36E-05	1.89E-05	4.97E-07	1.51E-11	7.59E-17
Avg	0.00E+00	0.00E+00	2.73E-08	6.73E-07	4.95E-07	1.92E-08	3.66E-12	4.96E-17
Std	0.00E+00	0.00E+00	6.51E-07	5.73E-06	2.94E-06	9.21E-08	5.92E-12	3.19E-17

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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
Eu-152								
Min	3.06E-08	2.90E-08	2.62E-08	1.82E-08	6.43E-09	0.00E+00	0.00E+00	0.00E+00
Max	8.72E+00	7.01E+00	4.52E+00	1.53E+00	2.06E-01	1.49E-03	1.65E-08	3.06E-15
Avg	1.58E-01	1.40E-01	1.11E-01	5.50E-02	1.14E-02	1.46E-04	2.11E-09	2.35E-15
Std	6.91E-01	5.80E-01	4.18E-01	1.66E-01	2.70E-02	2.73E-04	3.33E-09	7.96E-16
ALL								
Min	3.06E-08	2.90E-08	2.62E-08	1.82E-08	6.43E-09	0.00E+00	0.00E+00	0.00E+00
Max	8.72E+00	7.01E+00	4.52E+00	1.53E+00	2.06E-01	1.49E-03	1.65E-08	3.06E-15
Avg	1.58E-01	1.40E-01	1.11E-01	5.50E-02	1.14E-02	1.46E-04	2.11E-09	2.35E-15
Std	6.91E-01	5.80E-01	4.18E-01	1.66E-01	2.70E-02	2.73E-04	3.33E-09	7.96E-16

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-152								
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): 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
Eu-152								
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 EU-152.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
Eu-152								
Min	5.09E-09	4.83E-09	4.35E-09	3.03E-09	1.07E-09	0.00E+00	0.00E+00	0.00E+00
Max	9.78E-01	8.69E-01	6.87E-01	3.02E-01	3.23E-02	3.11E-04	5.21E-09	1.18E-15
Avg	1.40E-02	1.25E-02	1.00E-02	5.04E-03	1.03E-03	1.29E-05	1.92E-10	2.16E-16
Std	6.50E-02	5.63E-02	4.27E-02	1.83E-02	2.82E-03	2.87E-05	3.84E-10	1.58E-16
ALL								
Min	5.09E-09	4.83E-09	4.35E-09	3.03E-09	1.07E-09	0.00E+00	0.00E+00	0.00E+00
Max	9.78E-01	8.69E-01	6.87E-01	3.02E-01	3.23E-02	3.11E-04	5.21E-09	1.18E-15
Avg	1.40E-02	1.25E-02	1.00E-02	5.04E-03	1.03E-03	1.29E-05	1.92E-10	2.16E-16
Std	6.50E-02	5.63E-02	4.27E-02	1.83E-02	2.82E-03	2.87E-05	3.84E-10	1.58E-16

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 EU-152.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
Eu-152								
Min	1.20E-09	1.14E-09	1.03E-09	7.15E-10	2.53E-10	0.00E+00	0.00E+00	0.00E+00
Max	2.95E-01	2.38E-01	1.53E-01	6.60E-02	6.98E-03	6.25E-05	7.71E-10	7.58E-17
Avg	5.77E-03	5.12E-03	4.08E-03	2.02E-03	4.16E-04	5.26E-06	7.63E-11	4.25E-17
Std	2.49E-02	2.12E-02	1.55E-02	6.29E-03	9.90E-04	9.84E-06	1.22E-10	1.58E-17
ALL								
Min	1.20E-09	1.14E-09	1.03E-09	7.15E-10	2.53E-10	0.00E+00	0.00E+00	0.00E+00
Max	2.95E-01	2.38E-01	1.53E-01	6.60E-02	6.98E-03	6.25E-05	7.71E-10	7.58E-17
Avg	5.77E-03	5.12E-03	4.08E-03	2.02E-03	4.16E-04	5.26E-06	7.63E-11	4.25E-17
Std	2.49E-02	2.12E-02	1.55E-02	6.29E-03	9.90E-04	9.84E-06	1.22E-10	1.58E-17

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 EU-152.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
Eu-152								
Min	1.99E-10	1.89E-10	1.70E-10	1.18E-10	4.18E-11	0.00E+00	0.00E+00	0.00E+00
Max	4.50E-02	3.62E-02	2.58E-02	1.13E-02	1.19E-03	1.11E-05	1.38E-10	4.94E-18
Avg	9.19E-04	8.17E-04	6.52E-04	3.24E-04	6.64E-05	8.36E-07	1.22E-11	2.44E-18
Std	3.97E-03	3.38E-03	2.50E-03	1.03E-03	1.60E-04	1.58E-06	1.97E-11	9.87E-19
ALL								
Min	1.99E-10	1.89E-10	1.70E-10	1.18E-10	4.18E-11	0.00E+00	0.00E+00	0.00E+00
Max	4.50E-02	3.62E-02	2.58E-02	1.13E-02	1.19E-03	1.11E-05	1.38E-10	4.94E-18
Avg	9.19E-04	8.17E-04	6.52E-04	3.24E-04	6.64E-05	8.36E-07	1.22E-11	2.44E-18
Std	3.97E-03	3.38E-03	2.50E-03	1.03E-03	1.60E-04	1.58E-06	1.97E-11	9.87E-19

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 EU-152.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	1.46E-04	1.39E-04	1.26E-04	9.92E-05	4.30E-05	1.47E-06	1.27E-12	0.00E+00
0.050	4.71E-04	4.54E-04	4.13E-04	3.00E-04	1.21E-04	4.66E-06	7.91E-11	1.65E-15
0.075	9.92E-04	9.60E-04	8.74E-04	6.44E-04	2.52E-04	8.96E-06	2.94E-10	2.25E-15
0.100	1.37E-03	1.31E-03	1.20E-03	8.88E-04	3.39E-04	1.14E-05	4.29E-10	2.67E-15
0.125	1.68E-03	1.60E-03	1.46E-03	1.05E-03	4.03E-04	1.40E-05	4.84E-10	3.13E-15
0.150	2.08E-03	1.98E-03	1.83E-03	1.30E-03	4.83E-04	1.52E-05	5.30E-10	3.28E-15
0.175	2.38E-03	2.27E-03	2.07E-03	1.48E-03	5.39E-04	1.61E-05	6.35E-10	3.39E-15
0.200	2.55E-03	2.44E-03	2.21E-03	1.56E-03	5.70E-04	1.68E-05	7.36E-10	3.54E-15
0.225	2.69E-03	2.57E-03	2.32E-03	1.64E-03	5.96E-04	1.75E-05	8.62E-10	3.75E-15
0.250	2.80E-03	2.66E-03	2.41E-03	1.70E-03	6.15E-04	1.85E-05	1.01E-09	3.93E-15
0.275	2.89E-03	2.75E-03	2.48E-03	1.74E-03	6.35E-04	1.97E-05	1.20E-09	4.03E-15
0.300	2.94E-03	2.80E-03	2.54E-03	1.78E-03	6.50E-04	2.15E-05	1.46E-09	4.14E-15
0.325	3.02E-03	2.88E-03	2.61E-03	1.85E-03	6.81E-04	2.33E-05	1.75E-09	4.22E-15
0.350	3.16E-03	3.01E-03	2.77E-03	1.96E-03	7.21E-04	2.55E-05	2.15E-09	4.30E-15
0.375	3.39E-03	3.24E-03	2.96E-03	2.10E-03	7.80E-04	2.83E-05	2.61E-09	4.38E-15
0.400	3.71E-03	3.54E-03	3.31E-03	2.37E-03	8.77E-04	3.13E-05	3.07E-09	4.43E-15
0.425	4.19E-03	3.98E-03	3.69E-03	2.63E-03	9.78E-04	3.40E-05	3.71E-09	4.49E-15
0.450	4.67E-03	4.45E-03	4.08E-03	2.94E-03	1.12E-03	3.84E-05	4.35E-09	4.55E-15
0.475	5.40E-03	5.13E-03	4.70E-03	3.41E-03	1.26E-03	4.32E-05	5.06E-09	4.63E-15
0.500	5.96E-03	5.65E-03	5.20E-03	3.72E-03	1.36E-03	4.88E-05	5.98E-09	4.72E-15
0.525	6.87E-03	6.52E-03	6.03E-03	4.37E-03	1.67E-03	5.54E-05	7.07E-09	4.78E-15
0.550	8.15E-03	7.74E-03	7.13E-03	5.20E-03	1.90E-03	6.26E-05	8.09E-09	4.85E-15
0.575	9.36E-03	8.89E-03	8.22E-03	5.95E-03	2.20E-03	7.10E-05	9.47E-09	4.89E-15
0.600	1.12E-02	1.06E-02	9.86E-03	7.24E-03	2.69E-03	8.11E-05	1.08E-08	4.94E-15
0.625	1.34E-02	1.27E-02	1.17E-02	8.65E-03	3.23E-03	9.32E-05	1.28E-08	5.00E-15
0.650	1.59E-02	1.51E-02	1.42E-02	1.10E-02	4.05E-03	1.11E-04	1.61E-08	5.04E-15
0.675	2.03E-02	1.92E-02	1.78E-02	1.30E-02	4.79E-03	1.27E-04	2.27E-08	5.09E-15
0.700	2.45E-02	2.32E-02	2.17E-02	1.61E-02	5.93E-03	1.51E-04	3.61E-08	5.14E-15
0.725	3.00E-02	2.85E-02	2.62E-02	2.03E-02	7.55E-03	1.84E-04	6.73E-08	5.19E-15
0.750	3.84E-02	3.64E-02	3.31E-02	2.56E-02	9.66E-03	2.33E-04	1.39E-07	5.27E-15
0.775	4.74E-02	4.50E-02	4.13E-02	3.26E-02	1.23E-02	2.82E-04	2.35E-07	5.31E-15
0.800	6.24E-02	5.92E-02	5.43E-02	4.40E-02	1.62E-02	3.66E-04	3.55E-07	5.37E-15
0.825	8.44E-02	8.00E-02	7.27E-02	6.04E-02	2.25E-02	4.46E-04	4.47E-07	5.41E-15
0.850	1.19E-01	1.13E-01	1.02E-01	8.30E-02	3.08E-02	5.75E-04	5.01E-07	5.46E-15
0.875	1.65E-01	1.56E-01	1.42E-01	1.18E-01	4.09E-02	7.16E-04	5.15E-07	5.51E-15
0.900	2.45E-01	2.32E-01	2.08E-01	1.82E-01	6.21E-02	8.34E-04	5.22E-07	5.56E-15
0.925	4.09E-01	3.84E-01	3.39E-01	2.97E-01	8.94E-02	1.05E-03	5.24E-07	5.63E-15
0.950	7.62E-01	7.16E-01	6.30E-01	5.05E-01	1.16E-01	1.47E-03	5.26E-07	5.72E-15
0.975	1.91E+00	1.72E+00	1.44E+00	9.34E-01	6.01E-01	1.70E-02	5.27E-07	5.86E-15
1.000	9.87E+00	7.93E+00	5.12E+00	1.88E+00	6.62E-01	1.73E-02	5.27E-07	6.31E-15

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA EU-152.RAD

## Summary of dose at graphical times, reptition 1

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	3.63E-05	8.23E+00	1.77E-01	6.03E-03	2.59E-01	7.66E-01	1.98E+00	4.63E+00
1.00E+00	3.49E-05	6.70E+00	1.57E-01	5.73E-03	2.45E-01	7.17E-01	1.81E+00	4.11E+00
1.06E+00	3.48E-05	6.62E+00	1.56E-01	5.71E-03	2.44E-01	7.14E-01	1.80E+00	4.08E+00
1.12E+00	3.47E-05	6.54E+00	1.55E-01	5.69E-03	2.43E-01	7.12E-01	1.79E+00	4.05E+00
1.19E+00	3.46E-05	6.45E+00	1.54E-01	5.67E-03	2.42E-01	7.09E-01	1.78E+00	4.02E+00
1.25E+00	3.45E-05	6.36E+00	1.52E-01	5.65E-03	2.41E-01	7.05E-01	1.76E+00	3.99E+00
1.33E+00	3.44E-05	6.27E+00	1.51E-01	5.63E-03	2.41E-01	7.02E-01	1.75E+00	3.96E+00
1.40E+00	3.42E-05	6.17E+00	1.50E-01	5.61E-03	2.39E-01	6.98E-01	1.74E+00	3.92E+00
1.49E+00	3.41E-05	6.06E+00	1.48E-01	5.58E-03	2.38E-01	6.95E-01	1.72E+00	3.88E+00
1.57E+00	3.39E-05	5.96E+00	1.47E-01	5.56E-03	2.37E-01	6.91E-01	1.71E+00	3.84E+00
1.66E+00	3.38E-05	5.85E+00	1.45E-01	5.53E-03	2.36E-01	6.86E-01	1.69E+00	3.80E+00
1.76E+00	3.36E-05	5.73E+00	1.44E-01	5.51E-03	2.35E-01	6.82E-01	1.68E+00	3.76E+00
1.86E+00	3.34E-05	5.61E+00	1.42E-01	5.51E-03	2.34E-01	6.77E-01	1.66E+00	3.71E+00
1.97E+00	3.32E-05	5.49E+00	1.40E-01	5.48E-03	2.32E-01	6.72E-01	1.64E+00	3.66E+00
2.09E+00	3.30E-05	5.36E+00	1.38E-01	5.45E-03	2.31E-01	6.67E-01	1.62E+00	3.58E+00
2.21E+00	3.28E-05	5.23E+00	1.36E-01	5.41E-03	2.29E-01	6.62E-01	1.60E+00	3.50E+00
2.24E+00	3.26E-05	5.09E+00	1.34E-01	5.41E-03	2.27E-01	6.56E-01	1.58E+00	3.42E+00
2.47E+00	3.24E-05	4.95E+00	1.32E-01	5.37E-03	2.26E-01	6.51E-01	1.56E+00	3.33E+00
2.62E+00	3.21E-05	4.81E+00	1.30E-01	5.36E-03	2.24E-01	6.44E-01	1.54E+00	3.24E+00
2.77E+00	3.19E-05	4.66E+00	1.28E-01	5.35E-03	2.22E-01	6.38E-01	1.51E+00	3.15E+00
2.93E+00	3.16E-05	4.51E+00	1.26E-01	5.31E-03	2.20E-01	6.31E-01	1.49E+00	3.06E+00
3.00E+00	3.15E-05	4.44E+00	1.25E-01	5.29E-03	2.19E-01	6.28E-01	1.48E+00	3.02E+00
3.13E+00	3.13E-05	4.35E+00	1.24E-01	5.26E-03	2.19E-01	6.24E-01	1.46E+00	2.96E+00
3.28E+00	3.10E-05	4.19E+00	1.22E-01	5.21E-03	2.18E-01	6.17E-01	1.44E+00	2.86E+00
3.48E+00	3.07E-05	4.03E+00	1.19E-01	5.16E-03	2.16E-01	6.09E-01	1.41E+00	2.76E+00
3.68E+00	3.04E-05	3.87E+00	1.17E-01	5.11E-03	2.13E-01	6.25E-01	1.38E+00	2.62E+00
3.89E+00	3.01E-05	3.70E+00	1.16E-01	5.05E-03	2.11E-01	6.17E-01	1.35E+00	2.47E+00
4.12E+00	2.97E-05	3.53E+00	1.14E-01	4.99E-03	2.11E-01	6.08E-01	1.43E+00	2.33E+00
4.36E+00	2.94E-05	3.36E+00	1.13E-01	4.93E-03	2.18E-01	5.98E-01	1.40E+00	2.19E+00
4.61E+00	2.90E-05	3.19E+00	1.11E-01	4.87E-03	2.18E-01	5.89E-01	1.36E+00	2.23E+00
4.88E+00	2.86E-05	3.02E+00	1.09E-01	4.80E-03	2.14E-01	6.19E-01	1.33E+00	2.12E+00
5.17E+00	2.82E-05	2.85E+00	1.08E-01	4.79E-03	2.11E-01	6.47E-01	1.38E+00	2.01E+00
5.47E+00	2.77E-05	2.68E+00	1.07E-01	4.72E-03	2.07E-01	6.35E-01	1.38E+00	1.92E+00
5.78E+00	2.73E-05	2.51E+00	1.06E-01	4.64E-03	2.23E-01	6.21E-01	1.45E+00	2.25E+00
6.12E+00	2.68E-05	2.36E+00	1.04E-01	4.56E-03	2.19E-01	6.08E-01	1.37E+00	2.25E+00
6.48E+00	2.63E-05	2.26E+00	1.02E-01	4.48E-03	2.20E-01	6.22E-01	1.29E+00	2.17E+00
6.86E+00	2.58E-05	2.21E+00	9.97E-02	4.44E-03	2.15E-01	6.06E-01	1.22E+00	2.07E+00
7.26E+00	2.53E-05	2.17E+00	9.80E-02	4.40E-03	2.11E-01	6.09E-01	1.23E+00	1.97E+00
7.68E+00	2.47E-05	2.12E+00	9.63E-02	4.31E-03	2.06E-01	5.92E-01	1.20E+00	1.88E+00
8.13E+00	2.42E-05	2.07E+00	9.41E-02	4.21E-03	2.03E-01	5.73E-01	1.14E+00	1.78E+00
8.60E+00	2.36E-05	2.02E+00	9.13E-02	4.10E-03	1.97E-01	5.51E-01	1.06E+00	2.00E+00
9.10E+00	2.30E-05	1.97E+00	8.82E-02	4.00E-03	1.92E-01	5.37E-01	9.99E-01	1.95E+00
9.63E+00	2.24E-05	1.91E+00	8.56E-02	3.89E-03	1.91E-01	5.17E-01	9.47E-01	1.90E+00
1.00E+01	2.19E-05	1.88E+00	8.42E-02	3.82E-03	1.87E-01	5.01E-01	9.14E-01	1.86E+00
1.10E+01	2.17E-05	1.86E+00	8.34E-02	3.78E-03	1.85E-01	4.98E-01	8.99E-01	1.85E+00
1.108E+01	2.11E-05	1.80E+00	8.09E-02	3.66E-03	1.82E-01	4.77E-01	8.65E-01	1.79E+00
1.14E+01	2.04E-05	1.74E+00	7.85E-02	3.55E-03	1.75E-01	4.57E-01	8.05E-01	1.73E+00
1.21E+01	1.97E-05	1.68E+00	7.56E-02	3.43E-03	1.69E-01	4.66E-01	7.58E-01	1.67E+00
1.28E+01	1.90E-05	1.62E+00	7.24E-02	3.30E-03	1.62E-01	4.48E-01	7.11E-01	1.61E+00
1.35E+01	1.83E-05	1.56E+00	6.98E-02	3.18E-03	1.59E-01	4.18E-01	6.64E-01	1.55E+00
1.43E+01	1.75E-05	1.50E+00	6.68E-02	3.05E-03	1.58E-01	3.74E-01	6.18E-01	1.49E+00
1.51E+01	1.68E-05	1.43E+00	6.36E-02	2.92E-03	1.45E-01	3.65E-01	5.60E-01	1.43E+00
1.60E+01	1.60E-05	1.37E+00	6.09E-02	2.85E-03	1.38E-01	3.33E-01	5.29E-01	1.36E+00
1.70E+01	1.53E-05	1.30E+00	5.89E-02	2.71E-03	1.31E-01	3.12E-01	5.65E-01	1.30E+00
1.80E+01	1.45E-05	1.24E+00	5.62E-02	2.58E-03	1.24E-01	2.88E-01	5.11E-01	1.23E+00
1.90E+01	1.38E-05	1.17E+00	5.26E-02	2.48E-03	1.20E-01	2.64E-01	4.60E-01	1.17E+00

2.01E+01 1.30E-05 1.10E+00 4.93E-02 2.37E-03 1.12E-01 2.48E-01 4.12E-01 1.10E+00

2.13E+01 1.22E-05 1.04E+00 4.63E-02 2.23E-03 1.04E-01 2.20E-01 4.18E-01 1.04E+00

2.25E+01 1.15E-05 9.73E-01 4.38E-02 2.09E-03 9.57E-02 2.02E-01 3.70E-01 9.73E-01

2.38E+01 1.07E-05 9.09E-01 4.10E-02 1.96E-03 8.84E-02 1.85E-01 3.83E-01 9.09E-01

2.52E+01 9.97E-06 8.46E-01 3.85E-02 1.86E-03 8.09E-02 1.63E-01 5.01E-01 8.46E-01



2.67E+01 9.24E-06 7.84E-01 3.60E-02 1.73E-03 7.45E-02 1.46E-01 6.22E-01 7.84E-01

2.82E+01 8.53E-06 7.23E-01 3.33E-02 1.59E-03 6.84E-02 1.30E-01 7.04E-01 7.23E-01

2.99E+01 7.83E-06 6.63E-01 3.03E-02 1.47E-03 6.14E-02 1.17E-01 6.45E-01 6.63E-01

3.00E+01 7.78E-06 6.59E-01 3.01E-02 1.46E-03 6.10E-02 1.16E-01 6.41E-01 6.59E-01

3.16E+01 7.16E-06 6.06E-01 2.75E-02 1.36E-03 5.65E-02 1.05E-01 5.87E-01 6.06E-01

3.35E+01 6.50E-06 5.51E-01 2.50E-02 1.23E-03 5.02E-02 9.21E-02 5.32E-01 5.51E-01

3.54E+01 5.88E-06 4.98E-01 2.27E-02 1.11E-03 4.49E-02 7.96E-02 4.79E-01 4.98E-01

3.75E+01 5.28E-06 4.47E-01 2.05E-02 1.00E-03 4.00E-02 7.01E-02 4.28E-01 4.47E-01



3.97E+01 4.72E-06 3.99E-01 1.84E-02 8.93E-04 3.53E-02 6.17E-02 3.86E-01 3.99E-01

4.20E+01 4.19E-06 3.54E-01 1.62E-02 7.93E-04 3.04E-02 5.27E-02 3.42E-01 3.54E-01

4.44E+01 3.69E-06 3.12E-01 1.43E-02 6.99E-04 2.58E-02 4.62E-02 3.00E-01 3.12E-01

4.70E+01 3.23E-06 2.72E-01 1.27E-02 6.12E-04 2.10E-02 3.91E-02 2.65E-01 2.72E-01

4.97E+01 2.80E-06 2.36E-01 1.10E-02 5.32E-04 1.76E-02 3.24E-02 2.29E-01 2.36E-01

5.26E+01 2.41E-06 2.03E-01 9.49E-03 4.59E-04 1.46E-02 2.58E-02 1.97E-01 2.03E-01

5.57E+01 2.06E-06 1.73E-01 8.05E-03 3.92E-04 1.21E-02 2.11E-02 1.67E-01 1.73E-01

5.90E+01 1.40E-06 1.46E-01 6.80E-03 3.31E-04 1.03E-02 1.75E-02 1.41E-01 1.46E-01



6.24E+01 5.71E-07 1.22E-01 5.75E-03 2.78E-04 7.96E-03 1.47E-02 1.17E-01 1.22E-01

60E+01 2.21E-07 1.01E-01 4.85E-03 2.31E-04 6.46E-03 1.16E-02 9.85E-02 1.01E-01

99E+01 8.09E-08 8.30E-02 4.03E-03 1.90E-04 5.09E-03 9.08E-03 8.17E-02 8.29E-02

7.39E+01 2.79E-08 6.71E-02 3.28E-03 1.57E-04 4.04E-03 7.01E-03 6.60E-02 6.71E-02

7.82E+01 9.06E-09 5.37E-02 2.63E-03 1.26E-04 3.18E-03 5.44E-03 5.32E-02 5.37E-02

8.28E+01 2.76E-09 4.23E-02 2.07E-03 1.03E-04 2.46E-03 4.19E-03 4.20E-02 4.23E-02

8.76E+01 7.81E-10 3.30E-02 1.61E-03 8.30E-05 1.83E-03 3.18E-03 3.26E-02 3.29E-02

9.27E+01 2.06E-10 2.53E-02 1.25E-03 6.51E-05 1.30E-03 2.44E-03 2.50E-02 2.53E-02



9.81E+01 5.02E-11 1.91E-02 9.46E-04 5.08E-05 9.57E-04 1.79E-03 1.89E-02 1.91E-02

1.00E+02 3.08E-11 1.73E-02 8.59E-04 4.71E-05 8.63E-04 1.60E-03 1.71E-02 1.73E-02

1.04E+02 1.13E-11 1.42E-02 7.05E-04 3.96E-05 6.97E-04 1.28E-03 1.40E-02 1.42E-02

1.10E+02 2.32E-12 1.03E-02 5.21E-04 3.10E-05 4.98E-04 9.00E-04 1.02E-02 1.03E-02

1.16E+02 4.37E-13 7.42E-03 3.78E-04 2.41E-05 3.38E-04 6.21E-04 7.36E-03 7.41E-03

1.23E+02 7.51E-14 5.22E-03 2.69E-04 1.75E-05 2.33E-04 4.22E-04 5.17E-03 5.21E-03

1.30E+02 1.23E-14 3.59E-03 1.89E-04 1.34E-05 1.58E-04 2.80E-04 3.56E-03 3.59E-03

1.38E+02 2.42E-15 2.42E-03 1.30E-04 9.45E-06 1.06E-04 1.82E-04 2.40E-03 2.42E-03



1.46E+02 1.04E-15 1.59E-03 8.72E-05 6.66E-06 7.78E-05 1.47E-04 1.59E-03 1.59E-03

1.54E+02 8.72E-16 1.03E-03 5.78E-05 4.61E-06 5.89E-05 1.58E-04 1.02E-03 1.02E-03

1.63E+02 8.52E-16 6.42E-04 3.83E-05 3.08E-06 4.28E-05 1.62E-04 6.38E-04 6.42E-04

1.73E+02 8.49E-16 3.92E-04 2.58E-05 1.94E-06 3.99E-05 1.65E-04 3.89E-04 3.91E-04

1.83E+02 8.48E-16 2.32E-04 1.81E-05 1.28E-06 3.70E-05 1.64E-04 2.30E-04 2.32E-04

1.94E+02 8.47E-16 1.33E-04 1.27E-05 8.33E-07 3.64E-05 1.24E-04 1.33E-04 1.33E-04

2.05E+02 8.46E-16 7.42E-05 8.27E-06 4.97E-07 3.50E-05 7.24E-05 7.38E-05 7.41E-05

2.17E+02 8.45E-16 3.99E-05 5.15E-06 2.77E-07 2.73E-05 3.93E-05 3.97E-05 3.99E-05



2.29E+02 8.44E-16 2.07E-05 3.03E-06 1.64E-07 1.75E-05 2.04E-05 2.06E-05 2.07E-05

2.43E+02 8.43E-16 1.03E-05 1.70E-06 8.79E-08 9.86E-06 1.02E-05 1.03E-05 1.03E-05

2.57E+02 8.41E-16 4.94E-06 9.05E-07 4.72E-08 4.83E-06 4.93E-06 4.94E-06 4.94E-06

2.72E+02 0.00E+00 2.27E-06 4.49E-07 2.25E-08 2.23E-06 2.27E-06 2.27E-06 2.27E-06

2.88E+02 0.00E+00 9.96E-07 2.12E-07 1.06E-08 9.82E-07 9.94E-07 9.96E-07 9.96E-07

3.00E+02 0.00E+00 5.27E-07 1.18E-07 5.94E-09 5.22E-07 5.26E-07 5.27E-07 5.27E-07

3.05E+02 0.00E+00 4.17E-07 9.50E-08 4.84E-09 4.13E-07 4.16E-07 4.17E-07 4.17E-07

3.22E+02 0.00E+00 1.66E-07 4.02E-08 2.08E-09 1.64E-07 1.65E-07 1.66E-07 1.66E-07



3.41E+02 0.00E+00 6.24E-08 1.62E-08 8.00E-10 6.20E-08 6.23E-08 6.24E-08 6.24E-08

3.61E+02 0.00E+00 2.22E-08 6.13E-09 3.10E-10 2.21E-08 2.22E-08 2.22E-08 2.22E-08

3.82E+02 0.00E+00 7.45E-09 2.17E-09 1.12E-10 7.41E-09 7.44E-09 7.44E-09 7.45E-09

4.04E+02 0.00E+00 2.34E-09 7.19E-10 3.88E-11 2.33E-09 2.34E-09 2.34E-09 2.34E-09

4.28E+02 0.00E+00 6.88E-10 2.21E-10 1.30E-11 6.86E-10 6.88E-10 6.88E-10 6.88E-10

4.53E+02 0.00E+00 1.88E-10 6.27E-11 4.12E-12 1.88E-10 1.88E-10 1.88E-10 1.88E-10

4.79E+02 0.00E+00 4.78E-11 1.66E-11 1.25E-12 4.77E-11 4.78E-11 4.78E-11 4.78E-11

5.07E+02 0.00E+00 1.12E-11 4.04E-12 4.17E-13 1.12E-11 1.12E-11 1.12E-11 1.12E-11



5.36E+02 0.00E+00 2.42E-12 9.00E-13 1.30E-13 2.41E-12 2.42E-12 2.42E-12 2.42E-12

5.68E+02 0.00E+00 4.81E-13 1.87E-13 3.61E-14 4.79E-13 4.80E-13 4.81E-13 4.81E-13

0.01E+02 0.00E+00 9.12E-14 3.85E-14 1.30E-14 9.01E-14 9.06E-14 9.08E-14 9.11E-14

6.36E+02 0.00E+00 2.00E-14 1.04E-14 6.69E-15 1.93E-14 1.94E-14 1.97E-14 1.98E-14

6.73E+02 0.00E+00 8.25E-15 5.56E-15 5.34E-15 7.61E-15 7.80E-15 7.97E-15 8.04E-15

7.12E+02 0.00E+00 6.63E-15 4.78E-15 4.94E-15 5.92E-15 6.12E-15 6.24E-15 6.36E-15

7.53E+02 0.00E+00 6.43E-15 4.64E-15 4.87E-15 5.69E-15 5.87E-15 5.96E-15 6.14E-15

7.97E+02 0.00E+00 6.39E-15 4.59E-15 4.86E-15 5.66E-15 5.83E-15 5.94E-15 6.10E-15



8.44E+02 0.00E+00 6.37E-15 4.53E-15 4.83E-15 5.65E-15 5.81E-15 5.95E-15 6.16E-15

93E+02 0.00E+00 6.35E-15 4.48E-15 4.80E-15 5.62E-15 5.81E-15 5.94E-15 6.13E-15

9.45E+02 0.00E+00 6.33E-15 4.42E-15 4.75E-15 5.63E-15 5.79E-15 5.93E-15 6.05E-15

1.00E+03 0.00E+00 6.31E-15 4.36E-15 4.69E-15 5.60E-15 5.78E-15 5.87E-15 6.10E-15

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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 EU-152.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	3.67E-05	9.87E+00	1.81E-01	5.75E-03	2.57E-01	7.77E-01	1.96E+00	4.30E+00
1.00E+00	3.54E-05	7.93E+00	1.61E-01	5.47E-03	2.43E-01	7.27E-01	1.80E+00	3.82E+00
1.06E+00	3.53E-05	7.83E+00	1.60E-01	5.46E-03	2.42E-01	7.25E-01	1.79E+00	3.80E+00
1.12E+00	3.52E-05	7.73E+00	1.59E-01	5.44E-03	2.42E-01	7.22E-01	1.78E+00	3.77E+00
1.19E+00	3.52E-05	7.62E+00	1.58E-01	5.42E-03	2.41E-01	7.18E-01	1.77E+00	3.74E+00
1.25E+00	3.51E-05	7.50E+00	1.56E-01	5.40E-03	2.40E-01	7.15E-01	1.76E+00	3.71E+00
1.33E+00	3.50E-05	7.38E+00	1.55E-01	5.38E-03	2.39E-01	7.12E-01	1.75E+00	3.68E+00
1.40E+00	3.49E-05	7.26E+00	1.54E-01	5.36E-03	2.38E-01	7.08E-01	1.74E+00	3.65E+00
1.49E+00	3.48E-05	7.13E+00	1.52E-01	5.34E-03	2.37E-01	7.04E-01	1.72E+00	3.61E+00
1.57E+00	3.47E-05	7.00E+00	1.51E-01	5.32E-03	2.36E-01	7.00E-01	1.71E+00	3.58E+00
1.66E+00	3.46E-05	6.86E+00	1.49E-01	5.29E-03	2.34E-01	6.96E-01	1.70E+00	3.54E+00
1.76E+00	3.44E-05	6.71E+00	1.48E-01	5.28E-03	2.33E-01	6.91E-01	1.68E+00	3.50E+00
1.86E+00	3.43E-05	6.57E+00	1.46E-01	5.25E-03	2.32E-01	6.87E-01	1.67E+00	3.46E+00
1.97E+00	3.42E-05	6.41E+00	1.44E-01	5.22E-03	2.30E-01	6.82E-01	1.65E+00	3.42E+00
2.09E+00	3.40E-05	6.25E+00	1.42E-01	5.19E-03	2.29E-01	6.77E-01	1.64E+00	3.37E+00
2.21E+00	3.39E-05	6.09E+00	1.40E-01	5.16E-03	2.27E-01	6.71E-01	1.62E+00	3.32E+00
2.34E+00	3.37E-05	5.92E+00	1.38E-01	5.13E-03	2.26E-01	6.66E-01	1.60E+00	3.27E+00
2.47E+00	3.36E-05	5.75E+00	1.36E-01	5.09E-03	2.24E-01	6.60E-01	1.58E+00	3.22E+00
2.62E+00	3.34E-05	5.57E+00	1.34E-01	5.06E-03	2.22E-01	6.53E-01	1.56E+00	3.17E+00
2.77E+00	3.32E-05	5.38E+00	1.32E-01	5.02E-03	2.21E-01	6.47E-01	1.54E+00	3.11E+00
2.93E+00	3.30E-05	5.20E+00	1.30E-01	4.98E-03	2.19E-01	6.40E-01	1.52E+00	3.05E+00
3.08E+00	3.29E-05	5.12E+00	1.29E-01	4.97E-03	2.18E-01	6.37E-01	1.51E+00	3.03E+00
3.310E+00	3.28E-05	5.01E+00	1.27E-01	4.94E-03	2.16E-01	6.33E-01	1.50E+00	2.99E+00
3.328E+00	3.26E-05	4.81E+00	1.25E-01	4.90E-03	2.14E-01	6.25E-01	1.47E+00	2.93E+00
3.48E+00	3.23E-05	4.62E+00	1.23E-01	4.85E-03	2.12E-01	6.17E-01	1.45E+00	2.87E+00
3.68E+00	3.20E-05	4.42E+00	1.20E-01	4.80E-03	2.12E-01	6.09E-01	1.42E+00	2.80E+00
3.89E+00	3.16E-05	4.21E+00	1.18E-01	4.75E-03	2.09E-01	6.00E-01	1.40E+00	2.73E+00
4.12E+00	3.13E-05	4.01E+00	1.16E-01	4.70E-03	2.07E-01	6.10E-01	1.37E+00	2.58E+00
4.36E+00	3.09E-05	3.80E+00	1.15E-01	4.64E-03	2.11E-01	6.00E-01	1.34E+00	2.42E+00
4.61E+00	3.05E-05	3.60E+00	1.13E-01	4.58E-03	2.18E-01	5.90E-01	1.45E+00	2.34E+00
4.88E+00	3.01E-05	3.39E+00	1.12E-01	4.52E-03	2.14E-01	6.66E-01	1.41E+00	2.28E+00
5.17E+00	2.97E-05	3.19E+00	1.11E-01	4.46E-03	2.11E-01	6.72E-01	1.37E+00	2.32E+00
5.547E+00	2.93E-05	2.99E+00	1.10E-01	4.41E-03	2.07E-01	7.07E-01	1.42E+00	2.20E+00
5.578E+00	2.88E-05	2.78E+00	1.09E-01	4.34E-03	2.18E-01	6.91E-01	1.41E+00	2.13E+00
6.12E+00	2.83E-05	2.61E+00	1.08E-01	4.30E-03	2.14E-01	6.75E-01	1.36E+00	2.11E+00
6.48E+00	2.78E-05	2.51E+00	1.05E-01	4.24E-03	2.10E-01	6.84E-01	1.31E+00	2.24E+00
6.86E+00	2.73E-05	2.41E+00	1.03E-01	4.17E-03	2.13E-01	6.83E-01	1.23E+00	2.19E+00
7.26E+00	2.68E-05	2.30E+00	1.01E-01	4.08E-03	2.08E-01	6.64E-01	1.22E+00	2.02E+00
7.68E+00	2.62E-05	2.20E+00	9.86E-02	4.00E-03	2.05E-01	6.44E-01	1.17E+00	2.08E+00
8.13E+00	2.57E-05	2.09E+00	9.60E-02	3.90E-03	2.00E-01	6.37E-01	1.11E+00	2.05E+00
8.60E+00	2.51E-05	2.02E+00	9.38E-02	3.81E-03	1.96E-01	6.17E-01	1.12E+00	1.98E+00
9.10E+00	2.44E-05	1.96E+00	9.15E-02	3.73E-03	1.90E-01	6.03E-01	1.06E+00	1.94E+00
9.63E+00	2.38E-05	1.91E+00	8.88E-02	3.63E-03	1.93E-01	5.82E-01	1.01E+00	1.90E+00
1.00E+01	2.34E-05	1.87E+00	8.72E-02	3.56E-03	1.89E-01	5.61E-01	9.63E-01	1.86E+00
1.102E+01	2.32E-05	1.86E+00	8.64E-02	3.53E-03	1.87E-01	5.54E-01	9.40E-01	1.85E+00
1.08E+01	2.25E-05	1.82E+00	8.33E-02	3.42E-03	1.80E-01	5.32E-01	8.81E-01	1.79E+00
1.14E+01	2.18E-05	1.76E+00	8.03E-02	3.31E-03	1.75E-01	5.17E-01	8.01E-01	1.73E+00
1.21E+01	2.11E-05	1.70E+00	7.80E-02	3.20E-03	1.70E-01	4.95E-01	7.65E-01	1.67E+00
1.28E+01	2.04E-05	1.64E+00	7.56E-02	3.10E-03	1.63E-01	4.96E-01	7.09E-01	1.61E+00
1.35E+01	1.96E-05	1.57E+00	7.33E-02	2.99E-03	1.56E-01	4.85E-01	7.97E-01	1.55E+00
1.43E+01	1.89E-05	1.51E+00	7.12E-02	2.87E-03	1.52E-01	4.31E-01	8.24E-01	1.49E+00
1.51E+01	1.81E-05	1.44E+00	6.80E-02	2.75E-03	1.49E-01	4.04E-01	7.54E-01	1.43E+00
1.60E+01	1.73E-05	1.38E+00	6.44E-02	2.65E-03	1.47E-01	3.74E-01	6.86E-01	1.36E+00
1.70E+01	1.66E-05	1.31E+00	6.10E-02	2.53E-03	1.41E-01	3.51E-01	6.21E-01	1.30E+00
1.80E+01	1.58E-05	1.24E+00	5.82E-02	2.42E-03	1.35E-01	3.28E-01	6.20E-01	1.23E+00
1.90E+01	1.50E-05	1.17E+00	5.51E-02	2.29E-03	1.27E-01	3.06E-01	5.61E-01	1.17E+00

2.01E+01 1.42E-05 1.11E+00 5.19E-02 2.16E-03 1.20E-01 2.83E-01 5.38E-01 1.10E+00



2.13E+01 1.34E-05 1.04E+00 4.91E-02 2.04E-03 1.12E-01 2.54E-01 4.76E-01 1.04E+00

2.25E+01 1.26E-05 9.74E-01 4.58E-02 1.91E-03 9.97E-02 2.40E-01 4.19E-01 9.73E-01

2.38E+01 1.18E-05 9.10E-01 4.26E-02 1.79E-03 9.19E-02 2.24E-01 4.27E-01 9.09E-01

2.52E+01 1.10E-05 8.46E-01 4.00E-02 1.67E-03 8.43E-02 2.07E-01 5.47E-01 8.46E-01

2.67E+01 1.02E-05 7.94E-01 3.72E-02 1.55E-03 7.70E-02 1.83E-01 6.57E-01 7.84E-01

2.82E+01 9.48E-06 7.29E-01 3.42E-02 1.43E-03 6.99E-02 1.60E-01 6.96E-01 7.23E-01

2.99E+01 8.74E-06 6.66E-01 3.11E-02 1.32E-03 6.31E-02 1.36E-01 6.36E-01 6.63E-01

3.00E+01 8.69E-06 6.62E-01 3.08E-02 1.32E-03 6.27E-02 1.35E-01 6.32E-01 6.59E-01



3.16E+01 8.02E-06 6.06E-01 2.81E-02 1.21E-03 5.42E-02 1.17E-01 5.78E-01 6.06E-01

3.35E+01 7.32E-06 5.51E-01 2.53E-02 1.10E-03 5.06E-02 1.03E-01 5.23E-01 5.50E-01

3.54E+01 6.65E-06 4.98E-01 2.27E-02 9.96E-04 4.48E-02 8.97E-02 4.70E-01 4.97E-01

3.75E+01 6.00E-06 4.47E-01 2.03E-02 8.97E-04 3.94E-02 7.79E-02 4.20E-01 4.47E-01

3.97E+01 5.39E-06 3.99E-01 1.82E-02 8.02E-04 3.41E-02 6.56E-02 3.73E-01 3.99E-01

4.20E+01 4.81E-06 3.54E-01 1.65E-02 7.14E-04 2.97E-02 5.42E-02 3.42E-01 3.54E-01

4.44E+01 4.26E-06 3.12E-01 1.45E-02 6.29E-04 2.57E-02 4.53E-02 3.01E-01 3.11E-01

4.70E+01 3.75E-06 2.72E-01 1.26E-02 5.51E-04 2.23E-02 4.07E-02 2.62E-01 2.72E-01



4.97E+01 3.27E-06 2.36E-01 1.09E-02 4.80E-04 1.92E-02 3.32E-02 2.27E-01 2.36E-01

5.26E+01 2.84E-06 2.03E-01 9.47E-03 4.14E-04 1.54E-02 2.72E-02 1.94E-01 2.03E-01

5.57E+01 2.44E-06 1.73E-01 8.29E-03 3.55E-04 1.29E-02 2.18E-02 1.67E-01 1.73E-01

5.90E+01 1.09E-06 1.46E-01 6.96E-03 3.03E-04 1.06E-02 1.72E-02 1.44E-01 1.46E-01

6.24E+01 4.34E-07 1.23E-01 5.78E-03 2.57E-04 8.45E-03 1.39E-02 1.20E-01 1.22E-01

1.60E+01 1.64E-07 1.01E-01 4.64E-03 2.15E-04 6.72E-03 1.11E-02 9.67E-02 1.01E-01

99E+01 0.00E+00 8.30E-02 3.74E-03 1.77E-04 5.24E-03 8.72E-03 7.89E-02 8.28E-02

7.39E+01 0.00E+00 6.71E-02 3.08E-03 1.51E-04 4.08E-03 7.09E-03 6.36E-02 6.70E-02



7.82E+01 0.00E+00 5.37E-02 2.51E-03 1.27E-04 3.19E-03 5.61E-03 5.22E-02 5.36E-02

8.28E+01 0.00E+00 4.23E-02 1.99E-03 1.07E-04 2.47E-03 4.30E-03 4.17E-02 4.23E-02

8.76E+01 0.00E+00 3.30E-02 1.56E-03 8.78E-05 1.85E-03 3.27E-03 3.24E-02 3.29E-02

9.27E+01 0.00E+00 2.53E-02 1.21E-03 6.97E-05 1.35E-03 2.37E-03 2.50E-02 2.52E-02

9.81E+01 0.00E+00 1.91E-02 9.12E-04 5.59E-05 9.53E-04 1.67E-03 1.88E-02 1.90E-02

1.00E+02 0.00E+00 1.73E-02 8.29E-04 5.08E-05 8.48E-04 1.48E-03 1.71E-02 1.73E-02

1.04E+02 0.00E+00 1.42E-02 6.83E-04 4.19E-05 6.86E-04 1.15E-03 1.40E-02 1.41E-02

1.10E+02 0.00E+00 1.03E-02 4.98E-04 3.39E-05 4.90E-04 7.72E-04 1.02E-02 1.03E-02



1.16E+02 0.00E+00 7.42E-03 3.59E-04 2.63E-05 3.35E-04 5.44E-04 7.30E-03 7.40E-03

1.23E+02 0.00E+00 5.22E-03 2.58E-04 1.96E-05 2.25E-04 3.64E-04 5.16E-03 5.21E-03

1.30E+02 0.00E+00 3.59E-03 1.79E-04 1.39E-05 1.47E-04 2.37E-04 3.55E-03 3.59E-03

1.38E+02 0.00E+00 2.42E-03 1.22E-04 9.04E-06 1.06E-04 1.84E-04 2.39E-03 2.42E-03

1.46E+02 0.00E+00 1.59E-03 8.35E-05 6.63E-06 7.90E-05 1.41E-04 1.57E-03 1.59E-03

1.54E+02 0.00E+00 1.03E-03 5.64E-05 4.52E-06 5.55E-05 1.42E-04 1.01E-03 1.02E-03

1.63E+02 0.00E+00 6.42E-04 3.81E-05 3.02E-06 4.55E-05 1.51E-04 6.35E-04 6.42E-04

1.73E+02 0.00E+00 3.92E-04 2.59E-05 2.08E-06 4.10E-05 1.63E-04 3.89E-04 3.91E-04



1.83E+02 0.00E+00 2.32E-04 1.83E-05 1.40E-06 4.02E-05 1.55E-04 2.30E-04 2.32E-04

1.94E+02 0.00E+00 1.33E-04 1.27E-05 8.67E-07 3.66E-05 1.18E-04 1.33E-04 1.33E-04

2.05E+02 0.00E+00 7.42E-05 8.38E-06 5.11E-07 3.57E-05 7.27E-05 7.39E-05 7.41E-05

2.17E+02 0.00E+00 3.99E-05 5.19E-06 2.89E-07 2.98E-05 3.95E-05 3.97E-05 3.99E-05

2.29E+02 0.00E+00 2.07E-05 3.06E-06 1.63E-07 1.79E-05 2.05E-05 2.06E-05 2.07E-05

2.43E+02 0.00E+00 1.03E-05 1.70E-06 8.93E-08 9.84E-06 1.03E-05 1.03E-05 1.03E-05

2.57E+02 0.00E+00 4.94E-06 8.99E-07 4.51E-08 4.81E-06 4.93E-06 4.94E-06 4.94E-06

2.72E+02 0.00E+00 2.27E-06 4.46E-07 2.23E-08 2.21E-06 2.26E-06 2.27E-06 2.27E-06



2.88E+02 0.00E+00 9.96E-07 2.13E-07 1.08E-08 9.76E-07 9.93E-07 9.96E-07 9.96E-07

3.00E+02 0.00E+00 5.27E-07 1.19E-07 5.88E-09 5.20E-07 5.25E-07 5.27E-07 5.27E-07

3.05E+02 0.00E+00 4.17E-07 9.62E-08 4.66E-09 4.11E-07 4.16E-07 4.16E-07 4.17E-07

3.22E+02 0.00E+00 1.66E-07 4.10E-08 2.06E-09 1.64E-07 1.65E-07 1.66E-07 1.66E-07

3.41E+02 0.00E+00 6.24E-08 1.64E-08 8.23E-10 6.19E-08 6.24E-08 6.24E-08 6.24E-08

3.61E+02 0.00E+00 2.22E-08 6.16E-09 3.27E-10 2.20E-08 2.22E-08 2.22E-08 2.22E-08

3.82E+02 0.00E+00 7.45E-09 2.17E-09 1.14E-10 7.39E-09 7.44E-09 7.44E-09 7.44E-09

4.04E+02 0.00E+00 2.34E-09 7.15E-10 3.77E-11 2.33E-09 2.34E-09 2.34E-09 2.34E-09



4.28E+02 0.00E+00 6.88E-10 2.21E-10 1.22E-11 6.85E-10 6.88E-10 6.88E-10 6.88E-10

4.53E+02 0.00E+00 1.88E-10 6.30E-11 3.72E-12 1.87E-10 1.88E-10 1.88E-10 1.88E-10

4.79E+02 0.00E+00 4.78E-11 1.67E-11 1.11E-12 4.76E-11 4.78E-11 4.78E-11 4.78E-11

5.07E+02 0.00E+00 1.12E-11 4.10E-12 3.84E-13 1.12E-11 1.12E-11 1.12E-11 1.12E-11

5.36E+02 0.00E+00 2.42E-12 9.26E-13 1.25E-13 2.41E-12 2.42E-12 2.42E-12 2.42E-12

5.68E+02 0.00E+00 4.81E-13 1.92E-13 4.16E-14 4.79E-13 4.80E-13 4.81E-13 4.81E-13

0.01E+02 0.00E+00 9.14E-14 3.94E-14 1.29E-14 9.01E-14 9.05E-14 9.08E-14 9.10E-14

6.36E+02 0.00E+00 2.01E-14 1.05E-14 6.86E-15 1.92E-14 1.94E-14 1.95E-14 1.96E-14



6.73E+02 0.00E+00 8.32E-15 5.57E-15 5.45E-15 7.57E-15 7.74E-15 7.83E-15 7.92E-15

7.12E+02 0.00E+00 6.53E-15 4.80E-15 5.00E-15 5.91E-15 6.03E-15 6.17E-15 6.30E-15

7.53E+02 0.00E+00 6.32E-15 4.66E-15 4.89E-15 5.68E-15 5.80E-15 5.91E-15 6.07E-15

7.97E+02 0.00E+00 6.30E-15 4.61E-15 4.84E-15 5.66E-15 5.75E-15 5.88E-15 6.03E-15

8.44E+02 0.00E+00 6.29E-15 4.56E-15 4.81E-15 5.63E-15 5.74E-15 5.88E-15 6.01E-15

93E+02 0.00E+00 6.27E-15 4.50E-15 4.80E-15 5.61E-15 5.72E-15 5.88E-15 5.98E-15

9.45E+02 0.00E+00 6.25E-15 4.44E-15 4.75E-15 5.58E-15 5.70E-15 5.89E-15 5.98E-15

1.00E+03 0.00E+00 6.24E-15 4.37E-15 4.74E-15 5.54E-15 5.68E-15 5.87E-15 6.03E-15



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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 EU-152.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	3.02E-05	9.16E+00	1.84E-01	6.13E-03	2.44E-01	7.61E-01	1.92E+00	4.92E+00
1.00E+00	2.93E-05	7.26E+00	1.63E-01	5.82E-03	2.31E-01	7.16E-01	1.75E+00	4.27E+00
1.06E+00	2.92E-05	7.17E+00	1.62E-01	5.81E-03	2.30E-01	7.13E-01	1.75E+00	4.24E+00
1.12E+00	2.92E-05	7.06E+00	1.61E-01	5.79E-03	2.29E-01	7.10E-01	1.74E+00	4.20E+00
1.19E+00	2.91E-05	6.96E+00	1.59E-01	5.77E-03	2.28E-01	7.08E-01	1.73E+00	4.16E+00
1.25E+00	2.90E-05	6.85E+00	1.58E-01	5.75E-03	2.27E-01	7.05E-01	1.72E+00	4.12E+00
1.33E+00	2.90E-05	6.73E+00	1.57E-01	5.72E-03	2.26E-01	7.01E-01	1.70E+00	4.08E+00
1.40E+00	2.89E-05	6.61E+00	1.55E-01	5.70E-03	2.25E-01	6.98E-01	1.69E+00	4.04E+00
1.49E+00	2.88E-05	6.49E+00	1.54E-01	5.68E-03	2.24E-01	6.94E-01	1.68E+00	3.99E+00
1.57E+00	2.87E-05	6.36E+00	1.52E-01	5.65E-03	2.23E-01	6.91E-01	1.67E+00	3.94E+00
1.66E+00	2.87E-05	6.22E+00	1.51E-01	5.69E-03	2.22E-01	6.87E-01	1.65E+00	3.89E+00
1.76E+00	2.86E-05	6.08E+00	1.49E-01	5.66E-03	2.21E-01	6.83E-01	1.64E+00	3.84E+00
1.86E+00	2.85E-05	5.94E+00	1.47E-01	5.63E-03	2.20E-01	6.78E-01	1.62E+00	3.79E+00
1.97E+00	2.84E-05	5.79E+00	1.45E-01	5.59E-03	2.18E-01	6.74E-01	1.61E+00	3.73E+00
2.09E+00	2.83E-05	5.64E+00	1.43E-01	5.56E-03	2.17E-01	6.69E-01	1.59E+00	3.67E+00
2.21E+00	2.82E-05	5.48E+00	1.41E-01	5.53E-03	2.15E-01	6.64E-01	1.57E+00	3.61E+00
2.24E+00	2.80E-05	5.32E+00	1.39E-01	5.49E-03	2.14E-01	6.59E-01	1.56E+00	3.54E+00
2.27E+00	2.79E-05	5.15E+00	1.37E-01	5.45E-03	2.12E-01	6.53E-01	1.54E+00	3.48E+00
2.26E+00	2.78E-05	4.98E+00	1.35E-01	5.41E-03	2.10E-01	6.47E-01	1.52E+00	3.41E+00
2.27E+00	2.77E-05	4.81E+00	1.33E-01	5.42E-03	2.08E-01	6.41E-01	1.50E+00	3.33E+00
2.29E+00	2.75E-05	4.63E+00	1.31E-01	5.37E-03	2.07E-01	6.35E-01	1.47E+00	3.26E+00
3.00E+00	2.75E-05	4.56E+00	1.30E-01	5.35E-03	2.06E-01	6.32E-01	1.46E+00	3.21E+00
3.10E+00	2.74E-05	4.45E+00	1.28E-01	5.39E-03	2.05E-01	6.28E-01	1.45E+00	3.12E+00
3.28E+00	2.72E-05	4.27E+00	1.26E-01	5.34E-03	2.02E-01	6.21E-01	1.43E+00	3.02E+00
3.48E+00	2.70E-05	4.08E+00	1.23E-01	5.29E-03	2.12E-01	6.14E-01	1.40E+00	2.94E+00
3.68E+00	2.69E-05	3.90E+00	1.21E-01	5.23E-03	2.10E-01	6.06E-01	1.38E+00	2.86E+00
3.89E+00	2.67E-05	3.73E+00	1.19E-01	5.18E-03	2.07E-01	6.51E-01	1.35E+00	2.77E+00
4.12E+00	2.65E-05	3.61E+00	1.17E-01	5.12E-03	2.04E-01	6.41E-01	1.32E+00	2.69E+00
4.36E+00	2.63E-05	3.49E+00	1.16E-01	5.05E-03	2.03E-01	6.30E-01	1.47E+00	2.60E+00
4.61E+00	2.61E-05	3.36E+00	1.14E-01	4.99E-03	2.02E-01	6.19E-01	1.43E+00	2.51E+00
4.88E+00	2.59E-05	3.23E+00	1.13E-01	4.95E-03	1.99E-01	6.07E-01	1.40E+00	2.42E+00
5.17E+00	2.56E-05	3.10E+00	1.11E-01	4.88E-03	1.96E-01	6.07E-01	1.36E+00	2.40E+00
5.47E+00	2.54E-05	2.97E+00	1.10E-01	4.80E-03	1.93E-01	5.95E-01	1.40E+00	2.36E+00
5.78E+00	2.51E-05	2.86E+00	1.08E-01	4.72E-03	1.89E-01	5.82E-01	1.45E+00	2.32E+00
6.12E+00	2.49E-05	2.80E+00	1.06E-01	4.64E-03	1.95E-01	5.69E-01	1.36E+00	2.21E+00
6.48E+00	2.46E-05	2.68E+00	1.03E-01	4.55E-03	1.92E-01	5.56E-01	1.27E+00	2.22E+00
6.86E+00	2.43E-05	2.56E+00	9.98E-02	4.47E-03	1.96E-01	5.45E-01	1.18E+00	2.10E+00
7.26E+00	2.40E-05	2.44E+00	9.77E-02	4.39E-03	1.91E-01	5.30E-01	1.24E+00	1.99E+00
7.68E+00	2.37E-05	2.31E+00	9.58E-02	4.29E-03	1.87E-01	5.33E-01	1.21E+00	1.87E+00
8.13E+00	2.33E-05	2.19E+00	9.39E-02	4.19E-03	1.91E-01	5.15E-01	1.23E+00	2.02E+00
8.60E+00	2.30E-05	2.06E+00	9.16E-02	4.09E-03	1.86E-01	4.97E-01	1.21E+00	1.89E+00
9.10E+00	2.26E-05	1.96E+00	8.89E-02	3.99E-03	1.80E-01	5.24E-01	1.11E+00	1.94E+00
9.63E+00	2.22E-05	1.90E+00	8.63E-02	3.88E-03	1.80E-01	5.04E-01	1.11E+00	1.81E+00
1.00E+01	2.20E-05	1.87E+00	8.47E-02	3.81E-03	1.77E-01	4.65E-01	1.07E+00	1.73E+00
1.02E+01	2.18E-05	1.85E+00	8.38E-02	3.77E-03	1.87E-01	4.42E-01	1.05E+00	1.73E+00
1.08E+01	2.14E-05	1.79E+00	8.08E-02	3.65E-03	1.81E-01	4.63E-01	0.89E+00	1.79E+00
1.14E+01	2.10E-05	1.74E+00	7.81E-02	3.54E-03	1.74E-01	4.57E-01	0.930E+00	1.73E+00
1.21E+01	2.06E-05	1.68E+00	7.61E-02	3.42E-03	1.68E-01	4.35E-01	0.899E+00	1.67E+00
1.28E+01	2.01E-05	1.62E+00	7.38E-02	3.29E-03	1.61E-01	4.44E-01	0.822E+00	1.61E+00
1.35E+01	1.97E-05	1.56E+00	7.02E-02	3.17E-03	1.54E-01	3.94E-01	0.756E+00	1.55E+00
1.43E+01	1.92E-05	1.50E+00	6.65E-02	3.04E-03	1.48E-01	3.68E-01	0.695E+00	1.49E+00
1.51E+01	1.87E-05	1.43E+00	6.31E-02	2.91E-03	1.41E-01	3.46E-01	0.657E+00	1.43E+00
1.60E+01	1.82E-05	1.37E+00	6.03E-02	2.78E-03	1.34E-01	3.59E-01	0.594E+00	1.36E+00
1.70E+01	1.76E-05	1.34E+00	5.78E-02	2.65E-03	1.27E-01	3.35E-01	0.571E+00	1.30E+00
1.80E+01	1.76E-05	1.27E+00	5.50E-02	2.52E-03	1.21E-01	3.11E-01	0.509E+00	1.23E+00
1.90E+01	1.58E-05	1.19E+00	5.17E-02	2.39E-03	1.13E-01	2.88E-01	0.452E+00	1.17E+00

2.01E+01 1.49E-05 1.11E+00 4.84E-02 2.29E-03 1.06E-01 2.91E-01 4.11E-01 1.10E+00

2.13E+01 1.40E-05 1.04E+00 4.55E-02 2.15E-03 9.93E-02 2.49E-01 3.98E-01 1.04E+00

2.25E+01 1.32E-05 9.73E-01 4.29E-02 2.02E-03 9.66E-02 2.22E-01 3.54E-01 9.73E-01

2.38E+01 1.23E-05 9.09E-01 4.00E-02 1.89E-03 8.96E-02 2.02E-01 3.19E-01 9.09E-01

2.52E+01 1.14E-05 8.46E-01 3.75E-02 1.76E-03 8.28E-02 1.72E-01 3.24E-01 8.45E-01



2.67E+01 1.06E-05 7.84E-01 3.52E-02 1.63E-03 7.62E-02 1.47E-01 4.33E-01 7.83E-01

2.82E+01 9.77E-06 7.23E-01 3.23E-02 1.53E-03 7.04E-02 1.31E-01 4.36E-01 7.22E-01

2.99E+01 8.97E-06 6.63E-01 2.93E-02 1.43E-03 6.40E-02 1.16E-01 3.89E-01 6.63E-01

3.00E+01 8.91E-06 6.59E-01 2.91E-02 1.43E-03 6.36E-02 1.15E-01 3.86E-01 6.59E-01

3.16E+01 8.19E-06 6.06E-01 2.65E-02 1.31E-03 5.80E-02 1.02E-01 3.46E-01 6.06E-01

3.35E+01 7.44E-06 5.51E-01 2.39E-02 1.19E-03 4.81E-02 8.84E-02 3.66E-01 5.50E-01

3.54E+01 6.72E-06 4.98E-01 2.18E-02 1.08E-03 4.31E-02 7.65E-02 4.34E-01 4.97E-01

3.75E+01 6.04E-06 4.47E-01 1.94E-02 9.70E-04 3.90E-02 6.56E-02 4.08E-01 4.46E-01



3.97E+01 5.39E-06 3.99E-01 1.72E-02 8.66E-04 3.44E-02 5.94E-02 3.61E-01 3.98E-01

4.20E+01 4.78E-06 3.54E-01 1.52E-02 7.68E-04 3.00E-02 4.95E-02 3.16E-01 3.53E-01

4.44E+01 4.21E-06 3.12E-01 1.35E-02 6.78E-04 2.47E-02 4.14E-02 2.75E-01 3.11E-01

4.70E+01 3.68E-06 2.72E-01 1.19E-02 5.93E-04 2.03E-02 3.52E-02 2.69E-01 2.72E-01

4.97E+01 3.19E-06 2.36E-01 1.04E-02 5.15E-04 1.76E-02 2.97E-02 2.33E-01 2.36E-01

5.26E+01 2.75E-06 2.03E-01 8.95E-03 4.44E-04 1.46E-02 2.41E-02 2.00E-01 2.03E-01

5.57E+01 1.58E-06 1.73E-01 7.61E-03 3.83E-04 1.22E-02 1.92E-02 1.71E-01 1.73E-01

5.90E+01 6.45E-07 1.46E-01 6.46E-03 3.24E-04 1.04E-02 1.64E-02 1.44E-01 1.46E-01



6.24E+01 2.50E-07 1.22E-01 5.49E-03 2.72E-04 8.31E-03 1.30E-02 1.21E-01 1.22E-01

6.0E+01 9.20E-08 1.01E-01 4.56E-03 2.26E-04 6.33E-03 1.02E-02 9.98E-02 1.01E-01

99E+01 3.19E-08 8.30E-02 3.81E-03 1.87E-04 5.12E-03 7.98E-03 8.18E-02 8.28E-02

7.39E+01 1.04E-08 6.71E-02 3.11E-03 1.52E-04 4.02E-03 6.75E-03 6.61E-02 6.71E-02

7.82E+01 3.17E-09 5.37E-02 2.50E-03 1.21E-04 3.11E-03 5.18E-03 5.29E-02 5.36E-02

9.28E+01 9.02E-10 4.23E-02 1.97E-03 9.88E-05 2.24E-03 3.92E-03 4.17E-02 4.23E-02

8.76E+01 2.39E-10 3.30E-02 1.55E-03 8.33E-05 1.68E-03 2.92E-03 3.24E-02 3.29E-02

9.27E+01 5.85E-11 2.53E-02 1.19E-03 6.87E-05 1.22E-03 2.14E-03 2.48E-02 2.53E-02



81E+01 1.32E-11 1.91E-02 8.95E-04 5.61E-05 8.96E-04 1.53E-03 1.87E-02 1.91E-02

1.00E+02 7.88E-12 1.73E-02 8.11E-04 5.18E-05 8.05E-04 1.37E-03 1.70E-02 1.73E-02

1.04E+02 2.73E-12 1.42E-02 6.65E-04 4.39E-05 6.52E-04 1.08E-03 1.39E-02 1.42E-02

1.10E+02 5.16E-13 1.03E-02 4.89E-04 3.39E-05 4.69E-04 7.43E-04 1.01E-02 1.03E-02

1.16E+02 8.92E-14 7.42E-03 3.57E-04 2.51E-05 3.28E-04 5.04E-04 7.26E-03 7.41E-03

1.23E+02 1.46E-14 5.22E-03 2.53E-04 1.97E-05 2.26E-04 3.38E-04 5.10E-03 5.21E-03

1.30E+02 2.81E-15 3.59E-03 1.79E-04 1.42E-05 1.51E-04 2.27E-04 3.51E-03 3.59E-03

1.38E+02 1.15E-15 2.42E-03 1.23E-04 1.02E-05 1.03E-04 1.80E-04 2.38E-03 2.42E-03



1.46E+02 9.40E-16 1.59E-03 8.37E-05 7.28E-06 7.48E-05 1.39E-04 1.57E-03 1.59E-03

1.54E+02 9.17E-16 1.03E-03 5.62E-05 5.08E-06 5.42E-05 1.41E-04 1.01E-03 1.02E-03

1.63E+02 9.15E-16 6.42E-04 3.76E-05 3.39E-06 4.57E-05 1.47E-04 6.33E-04 6.42E-04

1.73E+02 9.15E-16 3.92E-04 2.56E-05 2.17E-06 4.15E-05 1.56E-04 3.85E-04 3.91E-04

1.83E+02 9.15E-16 2.32E-04 1.80E-05 1.36E-06 4.20E-05 1.71E-04 2.28E-04 2.32E-04

1.94E+02 9.15E-16 1.33E-04 1.27E-05 8.93E-07 3.75E-05 1.22E-04 1.32E-04 1.33E-04

2.05E+02 9.15E-16 7.42E-05 8.42E-06 5.32E-07 3.37E-05 7.29E-05 7.40E-05 7.41E-05

2.17E+02 9.15E-16 3.99E-05 5.26E-06 3.16E-07 2.89E-05 3.96E-05 3.98E-05 3.99E-05



2.29E+02 9.16E-16 2.07E-05 3.10E-06 1.80E-07 1.87E-05 2.06E-05 2.06E-05 2.07E-05

2.43E+02 9.16E-16 1.03E-05 1.73E-06 9.84E-08 1.00E-05 1.03E-05 1.03E-05 1.03E-05

2.57E+02 0.00E+00 4.94E-06 9.09E-07 4.93E-08 4.84E-06 4.93E-06 4.94E-06 4.94E-06

2.72E+02 0.00E+00 2.27E-06 4.59E-07 2.40E-08 2.25E-06 2.27E-06 2.27E-06 2.27E-06

2.88E+02 0.00E+00 9.96E-07 2.16E-07 1.14E-08 9.87E-07 9.95E-07 9.96E-07 9.96E-07

3.00E+02 0.00E+00 5.27E-07 1.21E-07 6.02E-09 5.23E-07 5.26E-07 5.27E-07 5.27E-07

3.05E+02 0.00E+00 4.17E-07 9.72E-08 4.89E-09 4.14E-07 4.16E-07 4.17E-07 4.17E-07

3.22E+02 0.00E+00 1.66E-07 4.11E-08 2.13E-09 1.65E-07 1.66E-07 1.66E-07 1.66E-07



3.41E+02 0.00E+00 6.24E-08 1.64E-08 8.33E-10 6.21E-08 6.24E-08 6.24E-08 6.24E-08

3.61E+02 0.00E+00 2.22E-08 6.18E-09 3.17E-10 2.21E-08 2.22E-08 2.22E-08 2.22E-08

3.82E+02 0.00E+00 7.45E-09 2.18E-09 1.11E-10 7.41E-09 7.44E-09 7.44E-09 7.45E-09

4.04E+02 0.00E+00 2.34E-09 7.24E-10 3.74E-11 2.33E-09 2.34E-09 2.34E-09 2.34E-09

4.28E+02 0.00E+00 6.88E-10 2.23E-10 1.27E-11 6.86E-10 6.88E-10 6.88E-10 6.88E-10

4.53E+02 0.00E+00 1.88E-10 6.38E-11 3.98E-12 1.88E-10 1.88E-10 1.88E-10 1.88E-10

4.79E+02 0.00E+00 4.78E-11 1.69E-11 1.23E-12 4.76E-11 4.78E-11 4.78E-11 4.78E-11

5.07E+02 0.00E+00 1.12E-11 4.10E-12 3.75E-13 1.12E-11 1.12E-11 1.12E-11 1.12E-11



5.36E+02 0.00E+00 2.42E-12 9.22E-13 1.13E-13 2.41E-12 2.42E-12 2.42E-12 2.42E-12

5.68E+02 0.00E+00 4.81E-13 1.92E-13 3.70E-14 4.79E-13 4.80E-13 4.81E-13 4.81E-13

0.01E+02 0.00E+00 9.12E-14 3.95E-14 1.30E-14 9.01E-14 9.06E-14 9.08E-14 9.09E-14

6.36E+02 0.00E+00 1.98E-14 1.06E-14 6.87E-15 1.93E-14 1.94E-14 1.95E-14 1.97E-14

6.73E+02 0.00E+00 8.13E-15 5.61E-15 5.40E-15 7.56E-15 7.68E-15 7.85E-15 7.95E-15

7.12E+02 0.00E+00 6.45E-15 4.82E-15 4.98E-15 5.90E-15 6.02E-15 6.15E-15 6.30E-15

7.53E+02 0.00E+00 6.22E-15 4.68E-15 4.86E-15 5.67E-15 5.84E-15 5.94E-15 6.07E-15

7.97E+02 0.00E+00 6.17E-15 4.63E-15 4.83E-15 5.66E-15 5.78E-15 5.89E-15 6.03E-15



8.44E+02 0.00E+00 6.14E-15 4.57E-15 4.83E-15 5.63E-15 5.78E-15 5.87E-15 6.01E-15

93E+02 0.00E+00 6.11E-15 4.50E-15 4.78E-15 5.61E-15 5.74E-15 5.85E-15 6.05E-15

9.45E+02 0.00E+00 6.16E-15 4.44E-15 4.74E-15 5.56E-15 5.70E-15 5.86E-15 6.02E-15

1.00E+03 0.00E+00 6.24E-15 4.37E-15 4.70E-15 5.55E-15 5.69E-15 5.87E-15 6.05E-15

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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 EU-152.RAD

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

Repetition	Time of peak mean dose		Peak mean dose mrem/yr
	Years		
1	0.000E+00		1.770E-01
2	0.000E+00		1.814E-01
3	0.000E+00		1.839E-01

Title : RESRAD Default Parameters  
 Input File : FCS BFM INSITU UA EU-152.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 -0.02	14 -0.01	5 -0.08	5 -0.03
Contaminated zone b parameter	2 -0.10	2 -0.09	8 -0.07	8 -0.03
Evapotranspiration coefficient	7 -0.04	7 -0.04	9 0.06	9 0.03
Wind Speed	9 0.04	9 0.04	11 -0.06	11 -0.03
Runoff coefficient	5 -0.06	5 -0.06	13 -0.04	13 -0.02
b Parameter of Unsaturated zone 1	15 -0.01	15 -0.01	17 0.01	17 0.00
Mass loading for inhalation	17 0.00	17 0.00	12 -0.05	12 -0.02
Indoor dust filtration factor	11 0.03	11 0.03	16 -0.02	16 -0.01
Depth of soil mixing layer	10 -0.03	10 -0.03	6 0.07	6 0.03
Depth of roots	8 -0.04	8 -0.04	2 0.34	2 0.15
Wet weight crop yield of fruit, grain and non-leafy vegetables	4 0.08	4 0.07	10 0.06	10 0.03
Weathering removal constant of all vegetation	16 0.01	16 0.01	4 -0.08	4 -0.03
Wet foliar interception fraction of leafy vegetables	12 -0.02	12 -0.02	14 0.03	14 0.01
Humidity in air	3 0.09	3 0.09	7 0.07	7 0.03
Cover erosion rate	1 0.30	1 0.30	3 0.25	3 0.10
Kd of Eu-152 in Contaminated Zone	6 -0.04	6 -0.04	1 -0.91	1 -0.89
Kd of Eu-152 in Saturated Zone	13 -0.02	13 -0.02	15 0.02	15 0.01
R-SQUARE	0.13	0.13	0.83	0.83

-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 EU-152.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

Description of Probabilistic Variable

	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Contaminated zone erosion rate	8 -0.01	8 -0.01	17 0.00	17 0.00
Contaminated zone b parameter	9 0.01	9 0.01	8 0.03	8 0.01
Evapotranspiration coefficient	15 -0.01	15 -0.01	6 0.04	6 0.01
Wind Speed	4 0.05	4 0.05	14 -0.02	14 -0.01
Runoff coefficient	10 0.01	10 0.01	16 0.00	16 0.00
b Parameter of Unsaturated zone 1	12 -0.01	12 -0.01	5 -0.05	5 -0.02
Mass loading for inhalation	14 -0.01	14 -0.01	4 -0.06	4 -0.02
Indoor dust filtration factor	3 -0.05	3 -0.05	13 -0.02	13 -0.01
Depth of soil mixing layer	2 0.07	2 0.06	7 -0.03	7 -0.01
Depth of roots	13 -0.01	13 -0.01	2 0.41	2 0.17
Wet weight crop yield of fruit, grain and non-leafy vegetables	11 0.01	11 0.01	15 0.01	15 0.00
Weathering removal constant of all vegetation	16 -0.01	16 0.00	12 -0.02	12 -0.01
Wet foliar interception fraction of leafy vegetables	5 0.04	5 0.04	9 0.03	9 0.01
Humidity in air	17 0.00	17 0.00	11 -0.03	11 -0.01
Cover erosion rate	1 0.30	1 0.30	3 0.23	3 0.09
Kd of Eu-152 in Contaminated Zone	7 -0.02	7 -0.02	1 -0.92	1 -0.90
Kd of Eu-152 in Saturated Zone	6 0.03	6 0.03	10 0.03	10 0.01
R-SQUARE	0.10	0.10	0.85	0.85

-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 EU-152.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	11	-0.03	11	-0.01
Contaminated zone b parameter	11	-0.01	11	-0.01	13	0.02	13	0.01
Evapotranspiration coefficient	15	0.01	15	0.01	17	0.00	17	0.00
Wind Speed	4	-0.06	4	-0.05	14	-0.02	14	-0.01
Runoff coefficient	3	-0.06	3	-0.06	4	-0.07	4	-0.03
b Parameter of Unsaturated zone 1	13	0.01	13	0.01	12	-0.02	12	-0.01
Mass loading for inhalation	2	0.10	2	0.10	8	-0.04	8	-0.02
Indoor dust filtration factor	9	-0.03	9	-0.03	5	-0.06	5	-0.02
Depth of soil mixing layer	16	0.00	16	0.00	16	0.00	16	0.00
Depth of roots	5	0.05	5	0.05	2	0.40	2	0.18
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	12	-0.01	12	-0.01	10	-0.04	10	-0.02
Wet foliar interception fraction of leafy vegetables	10	0.02	10	0.01	15	0.00	15	0.00
Humidity in air	7	-0.04	7	-0.03	9	0.04	9	0.02
Cover erosion rate	1	0.33	1	0.33	3	0.24	3	0.10
Kd of Eu-152 in Contaminated Zone	8	-0.03	8	-0.03	1	-0.91	1	-0.90
Kd of Eu-152 in Saturated Zone	17	0.00	17	0.00	7	-0.05	7	-0.02

R-SQUARE 0.13 0.13 0.84 0.84

-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.