

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
Fe-55										
Min	0.00E+00	1.06E-03	1.06E-03	8.17E-04	4.89E-04	8.09E-05	4.73E-07	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	1.65E-03	1.65E-03	1.28E-03	7.82E-04	1.83E-04	1.14E-06	1.78E-14	0.00E+00	0.00E+00
Avg	0.00E+00	1.26E-03	1.26E-03	9.78E-04	5.86E-04	9.79E-05	5.82E-07	9.16E-15	0.00E+00	0.00E+00
Std	0.00E+00	1.00E-04	1.00E-04	7.73E-05	4.65E-05	1.09E-05	8.16E-08	1.46E-15	0.00E+00	0.00E+00
ALL										
Min	0.00E+00	1.06E-03	1.06E-03	8.17E-04	4.89E-04	8.09E-05	4.73E-07	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	1.65E-03	1.65E-03	1.28E-03	7.82E-04	1.83E-04	1.14E-06	1.78E-14	0.00E+00	0.00E+00
Avg	0.00E+00	1.26E-03	1.26E-03	9.78E-04	5.86E-04	9.79E-05	5.82E-07	9.16E-15	0.00E+00	0.00E+00
Std	0.00E+00	1.00E-04	1.00E-04	7.73E-05	4.65E-05	1.09E-05	8.16E-08	1.46E-15	0.00E+00	0.00E+00

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
Fe-55								
Min	5.54E-08	4.28E-08	2.56E-08	4.24E-09	2.48E-11	0.00E+00	0.00E+00	0.00E+00
Max	9.42E-08	7.29E-08	4.36E-08	1.09E-08	6.83E-11	1.06E-18	0.00E+00	0.00E+00
Avg	6.88E-08	5.33E-08	3.19E-08	5.34E-09	3.18E-11	5.03E-19	0.00E+00	0.00E+00
Std	6.50E-09	5.03E-09	3.01E-09	6.97E-10	5.31E-12	9.53E-20	0.00E+00	0.00E+00
ALL								
Min	5.54E-08	4.28E-08	2.56E-08	4.24E-09	2.48E-11	0.00E+00	0.00E+00	0.00E+00
Max	9.42E-08	7.29E-08	4.36E-08	1.09E-08	6.83E-11	1.06E-18	0.00E+00	0.00E+00
Avg	6.88E-08	5.33E-08	3.19E-08	5.34E-09	3.18E-11	5.03E-19	0.00E+00	0.00E+00
Std	6.50E-09	5.03E-09	3.01E-09	6.97E-10	5.31E-12	9.53E-20	0.00E+00	0.00E+00

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
<hr/>								
Fe-55								
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
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<b>Fe-55</b>								
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	6.34E-09	5.27E-09	3.23E-11	6.40E-19	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	5.88E-12	2.79E-11	3.61E-13	8.69E-21	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	1.70E-10	2.75E-10	2.39E-12	4.71E-20	0.00E+00	0.00E+00
<b>ALL</b>								
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	6.34E-09	5.27E-09	3.23E-11	6.40E-19	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	5.88E-12	2.79E-11	3.61E-13	8.69E-21	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	1.70E-10	2.75E-10	2.39E-12	4.71E-20	0.00E+00	0.00E+00

ALL 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	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Fe-55								
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
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

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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
Fe-55								
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	1.02E-04	8.27E-05	5.41E-05	1.00E-05	5.91E-08	9.19E-16	0.00E+00	0.00E+00
Avg	6.11E-05	4.75E-05	2.86E-05	4.87E-06	2.97E-08	5.13E-16	0.00E+00	0.00E+00
Std	3.58E-05	2.77E-05	1.66E-05	2.79E-06	1.66E-08	2.58E-16	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	1.02E-04	8.27E-05	5.41E-05	1.00E-05	5.91E-08	9.19E-16	0.00E+00	0.00E+00
Avg	6.11E-05	4.75E-05	2.86E-05	4.87E-06	2.97E-08	5.13E-16	0.00E+00	0.00E+00
Std	3.58E-05	2.77E-05	1.66E-05	2.79E-06	1.66E-08	2.58E-16	0.00E+00	0.00E+00

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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
Fe-55								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.42E-05	3.58E-05	9.96E-05	6.59E-05	3.87E-07	6.02E-15	0.00E+00	0.00E+00
Avg	2.66E-05	2.06E-05	1.26E-05	2.91E-06	2.31E-08	4.66E-16	0.00E+00	0.00E+00
Std	1.56E-05	1.20E-05	7.82E-06	7.05E-06	6.11E-08	1.16E-15	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	4.42E-05	3.58E-05	9.96E-05	6.59E-05	3.87E-07	6.02E-15	0.00E+00	0.00E+00
Avg	2.66E-05	2.06E-05	1.26E-05	2.91E-06	2.31E-08	4.66E-16	0.00E+00	0.00E+00
Std	1.56E-05	1.20E-05	7.82E-06	7.05E-06	6.11E-08	1.16E-15	0.00E+00	0.00E+00

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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
Fe-55								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.49E-06	3.63E-06	6.02E-06	3.11E-06	1.83E-08	2.85E-16	0.00E+00	0.00E+00
Avg	2.69E-06	2.09E-06	1.27E-06	2.49E-07	1.75E-09	3.31E-17	0.00E+00	0.00E+00
Std	1.58E-06	1.22E-06	7.48E-07	3.39E-07	2.85E-09	5.36E-17	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	4.49E-06	3.63E-06	6.02E-06	3.11E-06	1.83E-08	2.85E-16	0.00E+00	0.00E+00
Avg	2.69E-06	2.09E-06	1.27E-06	2.49E-07	1.75E-09	3.31E-17	0.00E+00	0.00E+00
Std	1.58E-06	1.22E-06	7.48E-07	3.39E-07	2.85E-09	5.36E-17	0.00E+00	0.00E+00

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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
Fe-55								
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	8.15E-07	5.86E-07	3.44E-09	5.36E-17	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	1.20E-09	7.57E-09	9.64E-11	2.31E-18	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	2.87E-08	6.40E-08	5.58E-10	1.07E-17	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	8.15E-07	5.86E-07	3.44E-09	5.36E-17	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	1.20E-09	7.57E-09	9.64E-11	2.31E-18	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	2.87E-08	6.40E-08	5.58E-10	1.07E-17	0.00E+00	0.00E+00

ALL is total pathway dose summed for all nuclides.

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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
Fe-55								
Min	7.97E-04	6.17E-04	3.69E-04	6.07E-05	2.88E-07	0.00E+00	0.00E+00	0.00E+00
Max	7.98E-04	6.17E-04	3.69E-04	6.12E-05	3.59E-07	5.59E-15	0.00E+00	0.00E+00
Avg	7.98E-04	6.17E-04	3.69E-04	6.11E-05	3.58E-07	5.54E-15	0.00E+00	0.00E+00
Std	8.22E-08	7.68E-08	7.44E-08	3.59E-08	2.00E-09	1.54E-16	0.00E+00	0.00E+00
ALL								
Min	7.97E-04	6.17E-04	3.69E-04	6.07E-05	2.88E-07	0.00E+00	0.00E+00	0.00E+00
Max	7.98E-04	6.17E-04	3.69E-04	6.12E-05	3.59E-07	5.59E-15	0.00E+00	0.00E+00
Avg	7.98E-04	6.17E-04	3.69E-04	6.11E-05	3.58E-07	5.54E-15	0.00E+00	0.00E+00
Std	8.22E-08	7.68E-08	7.44E-08	3.59E-08	2.00E-09	1.54E-16	0.00E+00	0.00E+00

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Fe-55								
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
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

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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
<hr/>								
Fe-55								
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
<hr/>								
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
<hr/>								

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 FE-55.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
Fe-55								
Min	9.42E-06	7.29E-06	4.36E-06	7.22E-07	4.23E-09	0.00E+00	0.00E+00	0.00E+00
Max	3.16E-04	2.45E-04	1.46E-04	2.42E-05	1.42E-07	2.20E-15	0.00E+00	0.00E+00
Avg	7.27E-05	5.62E-05	3.36E-05	5.57E-06	3.27E-08	5.05E-16	0.00E+00	0.00E+00
Std	4.31E-05	3.34E-05	2.00E-05	3.31E-06	1.94E-08	3.00E-16	0.00E+00	0.00E+00
ALL								
Min	9.42E-06	7.29E-06	4.36E-06	7.22E-07	4.23E-09	0.00E+00	0.00E+00	0.00E+00
Max	3.16E-04	2.45E-04	1.46E-04	2.42E-05	1.42E-07	2.20E-15	0.00E+00	0.00E+00
Avg	7.27E-05	5.62E-05	3.36E-05	5.57E-06	3.27E-08	5.05E-16	0.00E+00	0.00E+00
Std	4.31E-05	3.34E-05	2.00E-05	3.31E-06	1.94E-08	3.00E-16	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 FE-55.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
Fe-55								
Min	2.22E-04	1.72E-04	1.03E-04	1.70E-05	9.65E-08	0.00E+00	0.00E+00	0.00E+00
Max	4.07E-04	3.15E-04	1.88E-04	3.12E-05	1.83E-07	2.83E-15	0.00E+00	0.00E+00
Avg	2.84E-04	2.19E-04	1.31E-04	2.17E-05	1.27E-07	1.97E-15	0.00E+00	0.00E+00
Std	3.98E-05	3.08E-05	1.84E-05	3.05E-06	1.79E-08	2.82E-16	0.00E+00	0.00E+00
ALL								
Min	2.22E-04	1.72E-04	1.03E-04	1.70E-05	9.65E-08	0.00E+00	0.00E+00	0.00E+00
Max	4.07E-04	3.15E-04	1.88E-04	3.12E-05	1.83E-07	2.83E-15	0.00E+00	0.00E+00
Avg	2.84E-04	2.19E-04	1.31E-04	2.17E-05	1.27E-07	1.97E-15	0.00E+00	0.00E+00
Std	3.98E-05	3.08E-05	1.84E-05	3.05E-06	1.79E-08	2.82E-16	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 FE-55.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
Fe-55								
Min	1.35E-05	1.04E-05	6.24E-06	1.03E-06	6.06E-09	0.00E+00	0.00E+00	0.00E+00
Max	3.22E-05	2.49E-05	1.49E-05	2.47E-06	1.45E-08	2.24E-16	0.00E+00	0.00E+00
Avg	1.97E-05	1.53E-05	9.13E-06	1.51E-06	8.87E-09	1.37E-16	0.00E+00	0.00E+00
Std	4.03E-06	3.12E-06	1.87E-06	3.09E-07	1.81E-09	2.83E-17	0.00E+00	0.00E+00
ALL								
Min	1.35E-05	1.04E-05	6.24E-06	1.03E-06	6.06E-09	0.00E+00	0.00E+00	0.00E+00
Max	3.22E-05	2.49E-05	1.49E-05	2.47E-06	1.45E-08	2.24E-16	0.00E+00	0.00E+00
Avg	1.97E-05	1.53E-05	9.13E-06	1.51E-06	8.87E-09	1.37E-16	0.00E+00	0.00E+00
Std	4.03E-06	3.12E-06	1.87E-06	3.09E-07	1.81E-09	2.83E-17	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 FE-55.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	1.09E-03	8.41E-04	5.03E-04	8.34E-05	4.90E-07	7.61E-15	0.00E+00	0.00E+00
0.050	1.10E-03	8.53E-04	5.10E-04	8.45E-05	4.97E-07	7.75E-15	0.00E+00	0.00E+00
0.075	1.12E-03	8.67E-04	5.19E-04	8.62E-05	5.07E-07	7.91E-15	0.00E+00	0.00E+00
0.100	1.14E-03	8.79E-04	5.26E-04	8.72E-05	5.13E-07	8.04E-15	0.00E+00	0.00E+00
0.125	1.15E-03	8.91E-04	5.33E-04	8.85E-05	5.20E-07	8.13E-15	0.00E+00	0.00E+00
0.150	1.16E-03	8.99E-04	5.38E-04	8.93E-05	5.26E-07	8.25E-15	0.00E+00	0.00E+00
0.175	1.17E-03	9.08E-04	5.44E-04	9.04E-05	5.32E-07	8.33E-15	0.00E+00	0.00E+00
0.200	1.18E-03	9.16E-04	5.49E-04	9.10E-05	5.36E-07	8.39E-15	0.00E+00	0.00E+00
0.225	1.19E-03	9.22E-04	5.53E-04	9.17E-05	5.40E-07	8.45E-15	0.00E+00	0.00E+00
0.250	1.20E-03	9.27E-04	5.55E-04	9.21E-05	5.43E-07	8.49E-15	0.00E+00	0.00E+00
0.275	1.21E-03	9.33E-04	5.58E-04	9.26E-05	5.45E-07	8.52E-15	0.00E+00	0.00E+00
0.300	1.21E-03	9.38E-04	5.61E-04	9.31E-05	5.48E-07	8.55E-15	0.00E+00	0.00E+00
0.325	1.22E-03	9.42E-04	5.63E-04	9.35E-05	5.50E-07	8.59E-15	0.00E+00	0.00E+00
0.350	1.22E-03	9.45E-04	5.66E-04	9.37E-05	5.52E-07	8.63E-15	0.00E+00	0.00E+00
0.375	1.23E-03	9.48E-04	5.68E-04	9.41E-05	5.54E-07	8.67E-15	0.00E+00	0.00E+00
0.400	1.23E-03	9.52E-04	5.69E-04	9.44E-05	5.56E-07	8.69E-15	0.00E+00	0.00E+00
0.425	1.24E-03	9.56E-04	5.72E-04	9.50E-05	5.59E-07	8.72E-15	0.00E+00	0.00E+00
0.450	1.24E-03	9.62E-04	5.75E-04	9.55E-05	5.61E-07	8.77E-15	0.00E+00	0.00E+00
0.475	1.25E-03	9.66E-04	5.78E-04	9.58E-05	5.64E-07	8.81E-15	0.00E+00	0.00E+00
0.500	1.25E-03	9.69E-04	5.80E-04	9.63E-05	5.67E-07	8.87E-15	0.00E+00	0.00E+00
0.525	1.26E-03	9.74E-04	5.83E-04	9.67E-05	5.70E-07	8.91E-15	0.00E+00	0.00E+00
0.550	1.26E-03	9.78E-04	5.86E-04	9.73E-05	5.73E-07	8.96E-15	0.00E+00	0.00E+00
0.575	1.27E-03	9.85E-04	5.89E-04	9.78E-05	5.76E-07	9.02E-15	0.00E+00	0.00E+00
0.600	1.28E-03	9.89E-04	5.92E-04	9.83E-05	5.79E-07	9.06E-15	0.00E+00	0.00E+00
0.625	1.29E-03	9.95E-04	5.96E-04	9.90E-05	5.83E-07	9.12E-15	0.00E+00	0.00E+00
0.650	1.29E-03	1.00E-03	5.99E-04	9.96E-05	5.87E-07	9.18E-15	0.00E+00	0.00E+00
0.675	1.30E-03	1.01E-03	6.03E-04	1.00E-04	5.90E-07	9.24E-15	0.00E+00	0.00E+00
0.700	1.31E-03	1.01E-03	6.07E-04	1.01E-04	5.95E-07	9.30E-15	0.00E+00	0.00E+00
0.725	1.32E-03	1.02E-03	6.11E-04	1.02E-04	5.98E-07	9.36E-15	0.00E+00	0.00E+00
0.750	1.33E-03	1.03E-03	6.14E-04	1.02E-04	6.02E-07	9.43E-15	0.00E+00	0.00E+00
0.775	1.33E-03	1.03E-03	6.18E-04	1.03E-04	6.06E-07	9.51E-15	0.00E+00	0.00E+00
0.800	1.34E-03	1.04E-03	6.23E-04	1.04E-04	6.12E-07	9.60E-15	0.00E+00	0.00E+00
0.825	1.36E-03	1.05E-03	6.29E-04	1.05E-04	6.17E-07	9.67E-15	0.00E+00	0.00E+00
0.850	1.37E-03	1.06E-03	6.34E-04	1.06E-04	6.23E-07	9.77E-15	0.00E+00	0.00E+00
0.875	1.38E-03	1.07E-03	6.40E-04	1.07E-04	6.32E-07	9.96E-15	0.00E+00	0.00E+00
0.900	1.40E-03	1.08E-03	6.48E-04	1.08E-04	6.42E-07	1.01E-14	0.00E+00	0.00E+00
0.925	1.42E-03	1.10E-03	6.57E-04	1.10E-04	6.54E-07	1.03E-14	0.00E+00	0.00E+00
0.950	1.45E-03	1.12E-03	6.70E-04	1.12E-04	6.73E-07	1.08E-14	0.00E+00	0.00E+00
0.975	1.49E-03	1.15E-03	6.89E-04	1.16E-04	9.43E-07	1.50E-14	0.00E+00	0.00E+00
1.000	1.65E-03	1.28E-03	7.82E-04	1.83E-04	1.14E-06	1.78E-14	0.00E+00	0.00E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA FE-55.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	1.07E-03	1.60E-03	1.26E-03	1.25E-03	1.40E-03	1.45E-03	1.50E-03	1.54E-03
1.00E+00	8.27E-04	1.24E-03	9.78E-04	9.67E-04	1.08E-03	1.12E-03	1.16E-03	1.19E-03
1.06E+00	8.14E-04	1.22E-03	9.64E-04	9.53E-04	1.07E-03	1.10E-03	1.14E-03	1.17E-03
1.12E+00	8.01E-04	1.20E-03	9.48E-04	9.38E-04	1.05E-03	1.09E-03	1.12E-03	1.15E-03
1.19E+00	7.88E-04	1.18E-03	9.33E-04	9.22E-04	1.03E-03	1.07E-03	1.10E-03	1.13E-03
1.25E+00	7.74E-04	1.16E-03	9.16E-04	9.06E-04	1.02E-03	1.05E-03	1.08E-03	1.11E-03
1.33E+00	7.60E-04	1.14E-03	8.99E-04	8.89E-04	9.97E-04	1.03E-03	1.06E-03	1.09E-03
1.40E+00	7.45E-04	1.12E-03	8.82E-04	8.72E-04	9.77E-04	1.01E-03	1.04E-03	1.07E-03
1.49E+00	7.29E-04	1.09E-03	8.63E-04	8.54E-04	9.57E-04	9.89E-04	1.02E-03	1.05E-03
1.57E+00	7.13E-04	1.07E-03	8.44E-04	8.35E-04	9.36E-04	9.68E-04	9.99E-04	1.02E-03
1.66E+00	6.97E-04	1.05E-03	8.25E-04	8.15E-04	9.14E-04	9.45E-04	9.76E-04	1.00E-03
1.76E+00	6.80E-04	1.02E-03	8.04E-04	7.95E-04	8.92E-04	9.22E-04	9.52E-04	9.76E-04
1.86E+00	6.62E-04	9.93E-04	7.84E-04	7.75E-04	8.69E-04	8.98E-04	9.27E-04	9.51E-04
1.97E+00	6.44E-04	9.66E-04	7.62E-04	7.53E-04	8.45E-04	8.73E-04	9.01E-04	9.25E-04
2.09E+00	6.25E-04	9.38E-04	7.40E-04	7.31E-04	8.20E-04	8.48E-04	8.75E-04	8.98E-04
2.21E+00	6.06E-04	9.09E-04	7.17E-04	7.09E-04	7.95E-04	8.22E-04	8.48E-04	8.70E-04
2.24E+00	5.86E-04	8.79E-04	6.94E-04	6.86E-04	7.69E-04	7.95E-04	8.21E-04	8.42E-04
2.27E+00	5.66E-04	8.49E-04	6.70E-04	6.62E-04	7.43E-04	7.68E-04	7.92E-04	8.13E-04
2.26E+00	5.45E-04	8.18E-04	6.46E-04	6.38E-04	7.16E-04	7.40E-04	7.64E-04	7.84E-04
2.27E+00	5.24E-04	7.87E-04	6.21E-04	6.14E-04	6.88E-04	7.11E-04	7.34E-04	7.53E-04
2.29E+00	5.03E-04	7.55E-04	5.96E-04	5.89E-04	6.61E-04	6.83E-04	7.04E-04	7.23E-04
3.00E+00	4.94E-04	7.42E-04	5.86E-04	5.79E-04	6.50E-04	6.71E-04	6.92E-04	7.10E-04
3.10E+00	4.82E-04	7.22E-04	5.70E-04	5.64E-04	6.33E-04	6.53E-04	6.74E-04	6.92E-04
3.28E+00	4.60E-04	6.90E-04	5.45E-04	5.38E-04	6.05E-04	6.24E-04	6.45E-04	6.71E-04
3.48E+00	4.38E-04	6.92E-04	5.19E-04	5.12E-04	5.76E-04	5.96E-04	6.14E-04	6.39E-04
3.68E+00	4.15E-04	6.99E-04	4.93E-04	4.86E-04	5.47E-04	5.65E-04	5.84E-04	6.07E-04
3.89E+00	3.93E-04	7.04E-04	4.66E-04	4.60E-04	5.18E-04	5.35E-04	5.53E-04	5.80E-04
4.12E+00	3.71E-04	7.03E-04	4.40E-04	4.34E-04	4.88E-04	5.05E-04	5.22E-04	5.47E-04
4.36E+00	3.49E-04	6.87E-04	4.14E-04	4.08E-04	4.60E-04	4.75E-04	4.91E-04	5.14E-04
4.61E+00	3.27E-04	6.61E-04	3.88E-04	3.83E-04	4.31E-04	4.48E-04	4.61E-04	4.82E-04
4.88E+00	3.05E-04	6.22E-04	3.63E-04	3.57E-04	4.02E-04	4.19E-04	4.32E-04	4.55E-04
5.17E+00	2.83E-04	5.79E-04	3.37E-04	3.32E-04	3.74E-04	3.90E-04	4.02E-04	4.25E-04
5.47E+00	2.62E-04	5.35E-04	3.12E-04	3.07E-04	3.46E-04	3.61E-04	3.72E-04	4.00E-04
5.78E+00	2.42E-04	4.93E-04	2.88E-04	2.83E-04	3.19E-04	3.32E-04	3.43E-04	3.86E-04
6.12E+00	2.22E-04	4.52E-04	2.64E-04	2.60E-04	2.92E-04	3.05E-04	3.15E-04	3.71E-04
6.48E+00	2.02E-04	4.13E-04	2.41E-04	2.37E-04	2.67E-04	2.78E-04	2.87E-04	3.55E-04
6.86E+00	1.84E-04	3.75E-04	2.19E-04	2.15E-04	2.42E-04	2.52E-04	2.61E-04	3.38E-04
7.26E+00	1.66E-04	3.38E-04	1.98E-04	1.94E-04	2.19E-04	2.28E-04	2.35E-04	3.21E-04
7.68E+00	1.49E-04	3.10E-04	1.77E-04	1.74E-04	1.96E-04	2.04E-04	2.11E-04	3.00E-04
8.13E+00	1.32E-04	2.81E-04	1.58E-04	1.55E-04	1.75E-04	1.82E-04	1.88E-04	2.68E-04
8.60E+00	1.17E-04	2.53E-04	1.40E-04	1.37E-04	1.55E-04	1.61E-04	1.67E-04	2.37E-04
9.10E+00	1.03E-04	2.23E-04	1.23E-04	1.21E-04	1.37E-04	1.42E-04	1.46E-04	2.08E-04
9.63E+00	9.00E-05	1.94E-04	1.08E-04	1.05E-04	1.19E-04	1.24E-04	1.29E-04	1.82E-04
1.00E+01	8.18E-05	1.77E-04	9.79E-05	9.59E-05	1.08E-04	1.13E-04	1.17E-04	1.66E-04
1.02E+01	7.79E-05	1.68E-04	9.33E-05	9.13E-05	1.03E-04	1.07E-04	1.12E-04	1.58E-04
1.08E+01	6.69E-05	1.44E-04	8.01E-05	7.84E-05	8.86E-05	9.23E-05	9.59E-05	1.36E-04
1.14E+01	5.69E-05	1.23E-04	6.82E-05	6.67E-05	7.58E-05	7.90E-05	8.22E-05	1.16E-04
1.21E+01	4.80E-05	1.04E-04	5.76E-05	5.63E-05	6.39E-05	6.68E-05	6.96E-05	9.76E-05
1.28E+01	4.01E-05	8.65E-05	4.81E-05	4.70E-05	5.33E-05	5.57E-05	5.88E-05	8.14E-05
1.35E+01	3.31E-05	7.14E-05	3.97E-05	3.88E-05	4.40E-05	4.60E-05	4.86E-05	6.73E-05
1.43E+01	2.70E-05	5.83E-05	3.25E-05	3.17E-05	3.60E-05	3.76E-05	3.97E-05	5.52E-05
1.51E+01	2.18E-05	4.71E-05	2.62E-05	2.56E-05	2.91E-05	3.04E-05	3.20E-05	4.45E-05
1.60E+01	1.74E-05	3.75E-05	2.09E-05	2.04E-05	2.32E-05	2.43E-05	2.58E-05	3.55E-05
1.70E+01	1.37E-05	2.95E-05	1.65E-05	1.61E-05	1.83E-05	1.91E-05	2.04E-05	2.81E-05
1.80E+01	1.06E-05	2.29E-05	1.28E-05	1.25E-05	1.42E-05	1.48E-05	1.59E-05	2.22E-05
1.90E+01	8.11E-06	1.75E-05	9.78E-06	9.52E-06	1.08E-05	1.13E-05	1.21E-05	1.70E-05

2.01E+01 6.10E-06 1.32E-05 7.36E-06 7.17E-06 8.16E-06 8.54E-06 9.14E-06 1.28E-05

2.13E+01 4.52E-06 9.75E-06 5.45E-06 5.31E-06 6.04E-06 6.32E-06 7.20E-06 9.45E-06

2.25E+01 3.29E-06 7.09E-06 3.97E-06 3.86E-06 4.39E-06 4.60E-06 5.46E-06 6.87E-06

2.38E+01 2.35E-06 5.06E-06 2.83E-06 2.76E-06 3.14E-06 3.29E-06 3.98E-06 4.90E-06

2.52E+01 1.64E-06 3.55E-06 1.99E-06 1.93E-06 2.20E-06 2.30E-06 2.89E-06 3.43E-06



2.67E+01 1.13E-06 2.43E-06 1.36E-06 1.32E-06 1.51E-06 1.59E-06 2.04E-06 2.35E-06

2.82E+01 7.55E-07 1.63E-06 9.15E-07 8.88E-07 1.01E-06 1.07E-06 1.50E-06 1.58E-06

2.99E+01 4.95E-07 1.07E-06 6.00E-07 5.82E-07 6.64E-07 7.00E-07 9.85E-07 1.03E-06

3.00E+01 4.80E-07 1.04E-06 5.82E-07 5.65E-07 6.44E-07 6.79E-07 9.55E-07 1.00E-06

3.16E+01 3.16E-07 6.83E-07 3.84E-07 3.72E-07 4.24E-07 4.48E-07 6.36E-07 6.60E-07

3.35E+01 1.97E-07 4.26E-07 2.39E-07 2.32E-07 2.64E-07 2.79E-07 3.98E-07 4.12E-07

3.54E+01 1.19E-07 2.63E-07 1.45E-07 1.41E-07 1.60E-07 1.69E-07 2.41E-07 2.49E-07

3.75E+01 7.03E-08 1.54E-07 8.55E-08 8.28E-08 9.43E-08 9.97E-08 1.42E-07 1.47E-07



3.97E+01 4.01E-08 8.81E-08 4.88E-08 4.73E-08 5.39E-08 5.69E-08 8.13E-08 8.35E-08

4.20E+01 2.22E-08 4.86E-08 2.70E-08 2.61E-08 2.98E-08 3.16E-08 4.49E-08 4.61E-08

4.44E+01 1.18E-08 2.59E-08 1.44E-08 1.39E-08 1.59E-08 1.69E-08 2.39E-08 2.45E-08

4.70E+01 6.08E-09 1.33E-08 7.42E-09 7.17E-09 8.18E-09 8.69E-09 1.24E-08 1.26E-08

4.97E+01 3.01E-09 6.57E-09 3.68E-09 3.55E-09 4.07E-09 4.30E-09 6.11E-09 6.23E-09

5.26E+01 1.43E-09 3.12E-09 1.75E-09 1.69E-09 1.93E-09 2.05E-09 2.90E-09 2.96E-09

5.57E+01 6.50E-10 1.42E-09 7.96E-10 7.68E-10 8.84E-10 9.35E-10 1.32E-09 1.34E-09

5.90E+01 2.82E-10 6.14E-10 3.46E-10 3.34E-10 3.84E-10 4.06E-10 5.73E-10 5.83E-10



6.24E+01 1.17E-10 2.54E-10 1.43E-10 1.38E-10 1.59E-10 1.68E-10 2.37E-10 2.41E-10

60E+01 4.59E-11 9.96E-11 5.64E-11 5.44E-11 6.25E-11 6.61E-11 9.30E-11 9.48E-11

99E+01 1.71E-11 3.70E-11 2.10E-11 2.02E-11 2.33E-11 2.46E-11 3.46E-11 3.58E-11

7.39E+01 6.01E-12 1.30E-11 7.39E-12 7.12E-12 8.18E-12 8.66E-12 1.22E-11 1.26E-11

7.82E+01 1.99E-12 4.31E-12 2.45E-12 2.36E-12 2.70E-12 2.87E-12 4.03E-12 4.18E-12

8.28E+01 6.16E-13 1.33E-12 7.59E-13 7.31E-13 8.39E-13 8.90E-13 1.25E-12 1.29E-12

8.76E+01 1.78E-13 3.86E-13 2.20E-13 2.12E-13 2.44E-13 2.64E-13 3.61E-13 3.75E-13

9.27E+01 4.81E-14 1.04E-13 5.93E-14 5.71E-14 6.57E-14 7.11E-14 9.73E-14 1.01E-13



9.81E+01 1.20E-14 2.60E-14 1.48E-14 1.43E-14 1.64E-14 1.78E-14 2.43E-14 2.55E-14

1.00E+02 7.44E-15 1.61E-14 9.18E-15 8.83E-15 1.02E-14 1.10E-14 1.50E-14 1.58E-14

1.04E+02 2.77E-15 5.99E-15 3.42E-15 3.29E-15 3.80E-15 4.10E-15 5.58E-15 5.86E-15

1.10E+02 5.85E-16 1.27E-15 7.24E-16 6.96E-16 8.04E-16 8.80E-16 1.18E-15 1.24E-15

1.16E+02 1.13E-16 2.44E-16 1.40E-16 1.34E-16 1.55E-16 1.70E-16 2.27E-16 2.38E-16

1.23E+02 1.98E-17 4.29E-17 2.46E-17 2.36E-17 2.73E-17 3.04E-17 3.98E-17 4.17E-17

1.30E+02 3.14E-18 6.80E-18 3.91E-18 3.75E-18 4.39E-18 5.04E-18 6.31E-18 6.60E-18

1.38E+02 4.47E-19 9.68E-19 5.58E-19 5.36E-19 6.26E-19 7.53E-19 9.02E-19 9.41E-19



1.46E+02 5.68E-20 1.23E-19 7.12E-20 6.82E-20 8.04E-20 1.00E-19 1.14E-19 1.20E-19

1.54E+02 6.40E-21 1.39E-20 8.06E-21 7.71E-21 9.20E-21 1.15E-20 1.29E-20 1.35E-20

1.63E+02 6.35E-22 1.38E-21 8.05E-22 7.67E-22 9.24E-22 1.15E-21 1.27E-21 1.34E-21

1.73E+02 5.50E-23 1.19E-22 7.05E-23 6.66E-23 8.30E-23 1.03E-22 1.11E-22 1.16E-22

1.83E+02 4.14E-24 8.99E-24 5.37E-24 5.03E-24 6.82E-24 8.07E-24 8.42E-24 8.75E-24

1.94E+02 2.68E-25 5.88E-25 3.52E-25 3.27E-25 4.75E-25 5.38E-25 5.50E-25 5.70E-25

2.05E+02 1.48E-26 3.24E-26 1.97E-26 1.82E-26 2.81E-26 2.98E-26 3.10E-26 3.17E-26

2.17E+02 6.87E-28 1.52E-27 9.31E-28 8.52E-28 1.36E-27 1.40E-27 1.45E-27 1.48E-27



2.29E+02 2.54E-29 6.05E-29 3.57E-29 3.25E-29 5.21E-29 5.43E-29 5.62E-29 5.75E-29

2.43E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.57E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.72E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.88E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.05E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.22E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



3.41E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.61E+02 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

3.82E+02 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

4.04E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.28E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.53E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.79E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.07E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



5.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.68E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

0.01E+02 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

6.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

6.73E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.12E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.53E+02 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

7.97E+02 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



8.44E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.93E+02 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

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA FE-55.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	1.06E-03	1.65E-03	1.26E-03	1.25E-03	1.40E-03	1.45E-03	1.49E-03	1.54E-03
1.00E+00	8.22E-04	1.28E-03	9.78E-04	9.69E-04	1.08E-03	1.12E-03	1.16E-03	1.19E-03
1.06E+00	8.10E-04	1.26E-03	9.64E-04	9.54E-04	1.07E-03	1.10E-03	1.14E-03	1.17E-03
1.12E+00	7.97E-04	1.24E-03	9.48E-04	9.39E-04	1.05E-03	1.08E-03	1.12E-03	1.15E-03
1.19E+00	7.84E-04	1.22E-03	9.33E-04	9.24E-04	1.03E-03	1.07E-03	1.10E-03	1.13E-03
1.25E+00	7.70E-04	1.20E-03	9.16E-04	9.07E-04	1.01E-03	1.05E-03	1.08E-03	1.11E-03
1.33E+00	7.56E-04	1.18E-03	8.99E-04	8.90E-04	9.95E-04	1.03E-03	1.06E-03	1.09E-03
1.40E+00	7.41E-04	1.15E-03	8.82E-04	8.73E-04	9.76E-04	1.01E-03	1.04E-03	1.07E-03
1.49E+00	7.26E-04	1.13E-03	8.63E-04	8.55E-04	9.56E-04	9.87E-04	1.02E-03	1.05E-03
1.57E+00	7.10E-04	1.10E-03	8.44E-04	8.36E-04	9.35E-04	9.65E-04	9.98E-04	1.03E-03
1.66E+00	6.93E-04	1.08E-03	8.25E-04	8.17E-04	9.13E-04	9.43E-04	9.75E-04	1.00E-03
1.76E+00	6.76E-04	1.05E-03	8.04E-04	7.97E-04	8.90E-04	9.19E-04	9.52E-04	9.77E-04
1.86E+00	6.59E-04	1.02E-03	7.83E-04	7.76E-04	8.67E-04	8.96E-04	9.27E-04	9.51E-04
1.97E+00	6.41E-04	9.97E-04	7.62E-04	7.55E-04	8.43E-04	8.71E-04	9.01E-04	9.25E-04
2.09E+00	6.22E-04	9.68E-04	7.40E-04	7.33E-04	8.19E-04	8.46E-04	8.75E-04	8.98E-04
2.21E+00	6.03E-04	9.38E-04	7.17E-04	7.10E-04	7.94E-04	8.20E-04	8.48E-04	8.71E-04
2.24E+00	5.83E-04	9.07E-04	6.94E-04	6.87E-04	7.68E-04	7.93E-04	8.21E-04	8.42E-04
2.27E+00	5.63E-04	8.76E-04	6.70E-04	6.64E-04	7.41E-04	7.66E-04	7.92E-04	8.18E-04
2.26E+00	5.43E-04	8.44E-04	6.46E-04	6.39E-04	7.14E-04	7.38E-04	7.64E-04	7.89E-04
2.27E+00	5.22E-04	8.12E-04	6.21E-04	6.15E-04	6.87E-04	7.10E-04	7.34E-04	7.58E-04
2.93E+00	5.01E-04	7.85E-04	5.96E-04	5.90E-04	6.59E-04	6.81E-04	7.04E-04	7.28E-04
3.00E+00	4.92E-04	7.82E-04	5.86E-04	5.80E-04	6.48E-04	6.69E-04	6.92E-04	7.15E-04
3.10E+00	4.79E-04	7.80E-04	5.70E-04	5.65E-04	6.31E-04	6.52E-04	6.74E-04	6.96E-04
3.28E+00	4.57E-04	7.74E-04	5.44E-04	5.39E-04	6.02E-04	6.22E-04	6.44E-04	6.65E-04
3.48E+00	4.35E-04	7.67E-04	5.18E-04	5.13E-04	5.73E-04	5.92E-04	6.13E-04	6.33E-04
3.68E+00	4.13E-04	7.59E-04	4.92E-04	4.87E-04	5.44E-04	5.62E-04	5.82E-04	6.01E-04
3.89E+00	3.91E-04	7.48E-04	4.66E-04	4.61E-04	5.15E-04	5.32E-04	5.51E-04	5.69E-04
4.12E+00	3.69E-04	7.36E-04	4.40E-04	4.35E-04	4.86E-04	5.02E-04	5.19E-04	5.36E-04
4.36E+00	3.47E-04	7.22E-04	4.13E-04	4.09E-04	4.57E-04	4.72E-04	4.88E-04	5.04E-04
4.61E+00	3.25E-04	7.01E-04	3.87E-04	3.83E-04	4.28E-04	4.42E-04	4.58E-04	4.73E-04
4.88E+00	3.03E-04	6.71E-04	3.62E-04	3.58E-04	4.00E-04	4.14E-04	4.27E-04	4.41E-04
5.17E+00	2.82E-04	6.32E-04	3.37E-04	3.33E-04	3.72E-04	3.85E-04	3.98E-04	4.11E-04
5.47E+00	2.61E-04	5.86E-04	3.12E-04	3.08E-04	3.45E-04	3.56E-04	3.69E-04	4.00E-04
5.78E+00	2.41E-04	5.40E-04	2.87E-04	2.84E-04	3.17E-04	3.28E-04	3.40E-04	3.74E-04
6.12E+00	2.21E-04	4.95E-04	2.64E-04	2.60E-04	2.91E-04	3.01E-04	3.12E-04	3.43E-04
6.48E+00	2.01E-04	4.52E-04	2.41E-04	2.38E-04	2.66E-04	2.75E-04	2.84E-04	3.13E-04
6.86E+00	1.83E-04	4.10E-04	2.19E-04	2.16E-04	2.42E-04	2.50E-04	2.58E-04	2.84E-04
7.26E+00	1.65E-04	3.70E-04	1.97E-04	1.95E-04	2.18E-04	2.26E-04	2.34E-04	2.57E-04
7.68E+00	1.48E-04	3.32E-04	1.77E-04	1.75E-04	1.96E-04	2.02E-04	2.10E-04	2.37E-04
8.13E+00	1.32E-04	2.96E-04	1.58E-04	1.56E-04	1.75E-04	1.81E-04	1.88E-04	2.33E-04
8.60E+00	1.17E-04	2.62E-04	1.40E-04	1.38E-04	1.55E-04	1.60E-04	1.67E-04	2.24E-04
9.10E+00	1.03E-04	2.30E-04	1.23E-04	1.21E-04	1.36E-04	1.41E-04	1.47E-04	2.03E-04
9.63E+00	8.96E-05	2.01E-04	1.08E-04	1.06E-04	1.19E-04	1.23E-04	1.29E-04	1.77E-04
1.00E+01	8.14E-05	1.83E-04	9.80E-05	9.63E-05	1.08E-04	1.12E-04	1.17E-04	1.61E-04
1.02E+01	7.75E-05	1.74E-04	9.33E-05	9.17E-05	1.03E-04	1.07E-04	1.12E-04	1.55E-04
1.08E+01	6.66E-05	1.49E-04	8.01E-05	7.88E-05	8.84E-05	9.21E-05	9.65E-05	1.34E-04
1.14E+01	5.66E-05	1.27E-04	6.82E-05	6.70E-05	7.52E-05	7.87E-05	8.21E-05	1.14E-04
1.21E+01	4.77E-05	1.07E-04	5.76E-05	5.65E-05	6.34E-05	6.64E-05	6.96E-05	9.60E-05
1.28E+01	3.99E-05	8.95E-05	4.81E-05	4.72E-05	5.29E-05	5.54E-05	5.81E-05	8.01E-05
1.35E+01	3.29E-05	7.39E-05	3.97E-05	3.89E-05	4.37E-05	4.58E-05	4.80E-05	6.62E-05
1.43E+01	2.69E-05	6.04E-05	3.25E-05	3.18E-05	3.57E-05	3.74E-05	3.92E-05	5.45E-05
1.51E+01	2.17E-05	4.87E-05	2.62E-05	2.57E-05	2.88E-05	3.02E-05	3.16E-05	4.40E-05
1.60E+01	1.73E-05	3.88E-05	2.09E-05	2.05E-05	2.30E-05	2.41E-05	2.52E-05	3.51E-05
1.70E+01	1.36E-05	3.06E-05	1.65E-05	1.61E-05	1.81E-05	1.89E-05	2.05E-05	2.76E-05
1.80E+01	1.06E-05	2.37E-05	1.28E-05	1.25E-05	1.41E-05	1.48E-05	1.61E-05	2.15E-05
1.90E+01	8.07E-06	1.81E-05	9.77E-06	9.56E-06	1.08E-05	1.13E-05	1.27E-05	1.64E-05

2.01E+01 6.07E-06 1.36E-05 7.36E-06 7.19E-06 8.10E-06 8.55E-06 9.70E-06 1.23E-05



2.13E+01 4.49E-06 1.01E-05 5.45E-06 5.33E-06 5.99E-06 6.33E-06 7.53E-06 9.14E-06

2.25E+01 3.27E-06 7.34E-06 3.97E-06 3.88E-06 4.36E-06 4.60E-06 5.74E-06 6.65E-06

2.38E+01 2.33E-06 5.24E-06 2.83E-06 2.77E-06 3.11E-06 3.29E-06 4.19E-06 4.78E-06

2.52E+01 1.63E-06 3.84E-06 1.99E-06 1.94E-06 2.18E-06 2.31E-06 2.98E-06 3.34E-06

2.67E+01 1.12E-06 2.68E-06 1.36E-06 1.33E-06 1.50E-06 1.58E-06 2.10E-06 2.29E-06

2.82E+01 7.51E-07 1.80E-06 9.15E-07 8.91E-07 1.00E-06 1.06E-06 1.45E-06 1.53E-06

2.99E+01 4.92E-07 1.18E-06 6.00E-07 5.84E-07 6.58E-07 6.96E-07 9.73E-07 1.00E-06

3.00E+01 4.77E-07 1.14E-06 5.82E-07 5.67E-07 6.38E-07 6.75E-07 9.44E-07 9.74E-07



3.16E+01 3.15E-07 7.54E-07 3.84E-07 3.73E-07 4.21E-07 4.45E-07 6.22E-07 6.58E-07

3.35E+01 1.96E-07 4.69E-07 2.39E-07 2.33E-07 2.63E-07 2.77E-07 3.87E-07 4.18E-07

3.54E+01 1.19E-07 2.85E-07 1.45E-07 1.41E-07 1.59E-07 1.68E-07 2.35E-07 2.53E-07

3.75E+01 6.99E-08 1.68E-07 8.54E-08 8.31E-08 9.39E-08 9.90E-08 1.38E-07 1.49E-07

3.97E+01 3.99E-08 9.56E-08 4.88E-08 4.74E-08 5.36E-08 5.65E-08 7.87E-08 8.49E-08

4.20E+01 2.20E-08 5.28E-08 2.70E-08 2.62E-08 2.96E-08 3.12E-08 4.39E-08 4.69E-08

4.44E+01 1.18E-08 2.82E-08 1.44E-08 1.40E-08 1.59E-08 1.67E-08 2.34E-08 2.50E-08

4.70E+01 6.05E-09 1.45E-08 7.41E-09 7.21E-09 8.18E-09 8.58E-09 1.20E-08 1.28E-08



4.97E+01 2.99E-09 7.18E-09 3.67E-09 3.57E-09 4.05E-09 4.25E-09 5.95E-09 6.35E-09

5.26E+01 1.42E-09 3.41E-09 1.74E-09 1.69E-09 1.91E-09 2.02E-09 2.82E-09 3.01E-09

5.57E+01 6.46E-10 1.55E-09 7.94E-10 7.71E-10 8.71E-10 9.19E-10 1.29E-09 1.40E-09

5.90E+01 2.81E-10 6.74E-10 3.45E-10 3.35E-10 3.79E-10 4.00E-10 5.62E-10 6.08E-10

6.24E+01 1.11E-10 2.79E-10 1.43E-10 1.39E-10 1.57E-10 1.65E-10 2.32E-10 2.51E-10

60E+01 7.63E-12 1.10E-10 5.62E-11 5.46E-11 6.19E-11 6.53E-11 9.11E-11 9.85E-11

99E+01 0.00E+00 4.09E-11 2.09E-11 2.03E-11 2.31E-11 2.43E-11 3.40E-11 3.66E-11

7.39E+01 0.00E+00 1.44E-11 7.36E-12 7.14E-12 8.10E-12 8.59E-12 1.20E-11 1.28E-11



7.82E+01 0.00E+00 4.75E-12 2.44E-12 2.37E-12 2.68E-12 2.84E-12 3.97E-12 4.24E-12

8.28E+01 0.00E+00 1.47E-12 7.56E-13 7.35E-13 8.32E-13 8.90E-13 1.24E-12 1.31E-12

8.76E+01 0.00E+00 4.27E-13 2.19E-13 2.13E-13 2.41E-13 2.58E-13 3.58E-13 3.80E-13

9.27E+01 0.00E+00 1.15E-13 5.92E-14 5.74E-14 6.49E-14 6.95E-14 9.62E-14 1.02E-13

9.81E+01 0.00E+00 2.87E-14 1.48E-14 1.43E-14 1.62E-14 1.74E-14 2.40E-14 2.55E-14

1.00E+02 0.00E+00 1.78E-14 9.15E-15 8.87E-15 1.00E-14 1.07E-14 1.48E-14 1.58E-14

1.04E+02 0.00E+00 6.62E-15 3.41E-15 3.30E-15 3.75E-15 4.03E-15 5.55E-15 5.87E-15

1.10E+02 0.00E+00 1.40E-15 7.21E-16 6.99E-16 7.93E-16 8.51E-16 1.17E-15 1.24E-15



1.16E+02 0.00E+00 2.70E-16 1.39E-16 1.35E-16 1.53E-16 1.66E-16 2.26E-16 2.39E-16

1.23E+02 0.00E+00 4.74E-17 2.45E-17 2.37E-17 2.72E-17 3.03E-17 3.97E-17 4.28E-17

1.30E+02 0.00E+00 7.52E-18 3.90E-18 3.77E-18 4.33E-18 4.89E-18 6.29E-18 6.79E-18

1.38E+02 0.00E+00 1.07E-18 5.56E-19 5.37E-19 6.19E-19 7.37E-19 8.95E-19 9.67E-19

1.46E+02 0.00E+00 1.36E-19 7.10E-20 6.84E-20 7.98E-20 9.84E-20 1.14E-19 1.23E-19

1.54E+02 0.00E+00 1.54E-20 8.04E-21 7.75E-21 9.12E-21 1.16E-20 1.28E-20 1.39E-20

1.63E+02 0.00E+00 1.53E-21 8.03E-22 7.71E-22 9.28E-22 1.17E-21 1.27E-21 1.37E-21

1.73E+02 0.00E+00 1.32E-22 7.03E-23 6.70E-23 8.50E-23 1.03E-22 1.10E-22 1.19E-22



1.83E+02 0.00E+00 9.97E-24 5.35E-24 5.05E-24 6.97E-24 7.99E-24 8.32E-24 8.96E-24

1.94E+02 0.00E+00 6.45E-25 3.50E-25 3.28E-25 4.84E-25 5.35E-25 5.60E-25 5.79E-25

2.05E+02 0.00E+00 3.56E-26 1.96E-26 1.82E-26 2.81E-26 2.97E-26 3.10E-26 3.23E-26

2.17E+02 0.00E+00 1.66E-27 9.25E-28 8.50E-28 1.34E-27 1.40E-27 1.47E-27 1.50E-27

2.29E+02 0.00E+00 6.38E-29 3.55E-29 3.23E-29 5.18E-29 5.44E-29 5.67E-29 5.74E-29

2.43E+02 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

2.57E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.72E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



2.88E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.05E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.22E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.41E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.61E+02 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

3.82E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.04E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



4.28E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.53E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.79E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.07E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.68E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

0.01E+02 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

6.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



6.73E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.12E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.53E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.97E+02 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

8.44E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.93E+02 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

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA FE-55.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	1.06E-03	1.56E-03	1.26E-03	1.26E-03	1.39E-03	1.44E-03	1.47E-03	1.51E-03
1.00E+00	8.17E-04	1.21E-03	9.78E-04	9.73E-04	1.08E-03	1.12E-03	1.14E-03	1.17E-03
1.06E+00	8.05E-04	1.19E-03	9.63E-04	9.58E-04	1.06E-03	1.10E-03	1.12E-03	1.15E-03
1.12E+00	7.92E-04	1.17E-03	9.48E-04	9.43E-04	1.05E-03	1.08E-03	1.10E-03	1.13E-03
1.19E+00	7.79E-04	1.15E-03	9.32E-04	9.28E-04	1.03E-03	1.06E-03	1.08E-03	1.12E-03
1.25E+00	7.66E-04	1.13E-03	9.16E-04	9.11E-04	1.01E-03	1.05E-03	1.07E-03	1.10E-03
1.33E+00	7.51E-04	1.11E-03	8.99E-04	8.94E-04	9.92E-04	1.03E-03	1.05E-03	1.08E-03
1.40E+00	7.37E-04	1.09E-03	8.81E-04	8.77E-04	9.73E-04	1.01E-03	1.03E-03	1.05E-03
1.49E+00	7.21E-04	1.06E-03	8.63E-04	8.59E-04	9.52E-04	9.85E-04	1.00E-03	1.03E-03
1.57E+00	7.05E-04	1.04E-03	8.44E-04	8.40E-04	9.31E-04	9.63E-04	9.82E-04	1.01E-03
1.66E+00	6.89E-04	1.02E-03	8.24E-04	8.20E-04	9.10E-04	9.41E-04	9.59E-04	9.86E-04
1.76E+00	6.72E-04	9.91E-04	8.04E-04	8.00E-04	8.87E-04	9.18E-04	9.35E-04	9.62E-04
1.86E+00	6.54E-04	9.65E-04	7.83E-04	7.79E-04	8.64E-04	8.94E-04	9.11E-04	9.37E-04
1.97E+00	6.36E-04	9.39E-04	7.62E-04	7.58E-04	8.41E-04	8.69E-04	8.86E-04	9.11E-04
2.09E+00	6.18E-04	9.12E-04	7.40E-04	7.36E-04	8.16E-04	8.44E-04	8.60E-04	8.84E-04
2.21E+00	5.99E-04	8.84E-04	7.17E-04	7.13E-04	7.91E-04	8.18E-04	8.34E-04	8.57E-04
2.24E+00	5.79E-04	8.55E-04	6.94E-04	6.90E-04	7.65E-04	7.91E-04	8.07E-04	8.29E-04
2.27E+00	5.59E-04	8.25E-04	6.70E-04	6.66E-04	7.39E-04	7.64E-04	7.79E-04	8.01E-04
2.26E+00	5.39E-04	7.95E-04	6.46E-04	6.42E-04	7.12E-04	7.36E-04	7.51E-04	7.72E-04
2.27E+00	5.18E-04	7.65E-04	6.21E-04	6.17E-04	6.85E-04	7.08E-04	7.22E-04	7.42E-04
2.29E+00	4.97E-04	7.34E-04	5.96E-04	5.92E-04	6.57E-04	6.79E-04	6.92E-04	7.12E-04
3.00E+00	4.89E-04	7.21E-04	5.85E-04	5.82E-04	6.46E-04	6.68E-04	6.80E-04	7.00E-04
3.10E+00	4.76E-04	7.02E-04	5.70E-04	5.67E-04	6.29E-04	6.50E-04	6.63E-04	6.81E-04
3.28E+00	4.54E-04	6.71E-04	5.44E-04	5.42E-04	6.01E-04	6.21E-04	6.33E-04	6.50E-04
3.48E+00	4.33E-04	6.38E-04	5.18E-04	5.16E-04	5.73E-04	5.91E-04	6.02E-04	6.19E-04
3.68E+00	4.11E-04	6.06E-04	4.92E-04	4.89E-04	5.45E-04	5.61E-04	5.72E-04	5.88E-04
3.89E+00	3.89E-04	5.74E-04	4.66E-04	4.63E-04	5.16E-04	5.31E-04	5.44E-04	5.60E-04
4.12E+00	3.67E-04	5.02E-04	4.40E-04	4.37E-04	4.86E-04	5.01E-04	5.13E-04	5.28E-04
4.36E+00	3.45E-04	6.27E-04	4.14E-04	4.11E-04	4.57E-04	4.71E-04	4.82E-04	4.97E-04
4.61E+00	3.23E-04	6.28E-04	3.88E-04	3.85E-04	4.29E-04	4.43E-04	4.52E-04	4.65E-04
4.88E+00	3.01E-04	6.10E-04	3.62E-04	3.60E-04	4.01E-04	4.14E-04	4.25E-04	4.39E-04
5.17E+00	2.80E-04	5.72E-04	3.37E-04	3.35E-04	3.73E-04	3.85E-04	3.95E-04	4.09E-04
5.47E+00	2.59E-04	5.29E-04	3.12E-04	3.10E-04	3.45E-04	3.56E-04	3.66E-04	3.78E-04
5.78E+00	2.39E-04	5.04E-04	2.88E-04	2.85E-04	3.19E-04	3.28E-04	3.37E-04	3.49E-04
6.12E+00	2.19E-04	4.70E-04	2.64E-04	2.62E-04	2.93E-04	3.02E-04	3.10E-04	3.20E-04
6.48E+00	2.00E-04	4.28E-04	2.41E-04	2.39E-04	2.67E-04	2.75E-04	2.84E-04	2.95E-04
6.86E+00	1.81E-04	3.89E-04	2.19E-04	2.17E-04	2.43E-04	2.50E-04	2.57E-04	2.73E-04
7.26E+00	1.64E-04	3.51E-04	1.98E-04	1.96E-04	2.19E-04	2.26E-04	2.34E-04	2.56E-04
7.68E+00	1.47E-04	3.15E-04	1.77E-04	1.76E-04	1.97E-04	2.02E-04	2.10E-04	2.71E-04
8.13E+00	1.31E-04	2.80E-04	1.58E-04	1.57E-04	1.75E-04	1.80E-04	1.87E-04	2.57E-04
8.60E+00	1.16E-04	2.48E-04	1.40E-04	1.39E-04	1.55E-04	1.60E-04	1.65E-04	2.36E-04
9.10E+00	1.02E-04	2.18E-04	1.23E-04	1.22E-04	1.37E-04	1.41E-04	1.45E-04	2.08E-04
9.63E+00	8.89E-05	1.90E-04	1.08E-04	1.06E-04	1.19E-04	1.23E-04	1.27E-04	1.81E-04
1.00E+01	8.09E-05	1.73E-04	9.79E-05	9.67E-05	1.08E-04	1.12E-04	1.16E-04	1.65E-04
1.02E+01	7.70E-05	1.65E-04	9.33E-05	9.21E-05	1.03E-04	1.06E-04	1.10E-04	1.57E-04
1.08E+01	6.61E-05	1.41E-04	8.01E-05	7.91E-05	8.86E-05	9.15E-05	9.51E-05	1.35E-04
1.14E+01	5.62E-05	1.20E-04	6.82E-05	6.73E-05	7.54E-05	7.78E-05	8.09E-05	1.15E-04
1.21E+01	4.74E-05	1.01E-04	5.76E-05	5.67E-05	6.36E-05	6.56E-05	6.82E-05	9.68E-05
1.28E+01	3.96E-05	8.59E-05	4.81E-05	4.74E-05	5.31E-05	5.48E-05	5.69E-05	8.22E-05
1.35E+01	3.27E-05	7.21E-05	3.97E-05	3.91E-05	4.39E-05	4.52E-05	4.70E-05	6.79E-05
1.43E+01	2.67E-05	5.89E-05	3.24E-05	3.20E-05	3.59E-05	3.70E-05	3.84E-05	5.55E-05
1.51E+01	2.15E-05	4.75E-05	2.62E-05	2.58E-05	2.90E-05	3.00E-05	3.14E-05	4.48E-05
1.60E+01	1.72E-05	3.79E-05	2.09E-05	2.06E-05	2.31E-05	2.39E-05	2.53E-05	3.57E-05
1.70E+01	1.35E-05	2.98E-05	1.65E-05	1.62E-05	1.82E-05	1.88E-05	1.99E-05	2.81E-05
1.80E+01	1.05E-05	2.31E-05	1.28E-05	1.26E-05	1.41E-05	1.46E-05	1.54E-05	2.18E-05
1.90E+01	8.01E-06	1.76E-05	9.77E-06	9.60E-06	1.08E-05	1.12E-05	1.18E-05	1.67E-05

2.01E+01 6.02E-06 1.33E-05 7.36E-06 7.23E-06 8.13E-06 8.40E-06 8.87E-06 1.25E-05

2.13E+01 4.46E-06 9.82E-06 5.45E-06 5.35E-06 6.02E-06 6.24E-06 6.57E-06 9.28E-06

2.25E+01 3.24E-06 7.14E-06 3.97E-06 3.89E-06 4.38E-06 4.54E-06 5.36E-06 6.75E-06

2.38E+01 2.31E-06 5.10E-06 2.83E-06 2.78E-06 3.13E-06 3.24E-06 3.91E-06 4.82E-06

2.52E+01 1.62E-06 3.57E-06 1.99E-06 1.95E-06 2.19E-06 2.27E-06 2.92E-06 3.37E-06



2.67E+01 1.11E-06 2.44E-06 1.36E-06 1.34E-06 1.50E-06 1.56E-06 2.19E-06 2.31E-06

2.82E+01 7.45E-07 1.64E-06 9.15E-07 8.96E-07 1.01E-06 1.05E-06 1.49E-06 1.55E-06

2.99E+01 4.88E-07 1.07E-06 6.00E-07 5.87E-07 6.62E-07 6.90E-07 9.74E-07 1.02E-06

3.00E+01 4.73E-07 1.04E-06 5.82E-07 5.70E-07 6.42E-07 6.69E-07 9.45E-07 9.86E-07

3.16E+01 3.12E-07 6.86E-07 3.84E-07 3.76E-07 4.24E-07 4.41E-07 6.22E-07 6.50E-07

3.35E+01 1.94E-07 4.27E-07 2.39E-07 2.34E-07 2.64E-07 2.75E-07 3.88E-07 4.05E-07

3.54E+01 1.18E-07 2.59E-07 1.45E-07 1.42E-07 1.60E-07 1.67E-07 2.39E-07 2.46E-07

3.75E+01 6.93E-08 1.52E-07 8.55E-08 8.35E-08 9.43E-08 9.85E-08 1.41E-07 1.45E-07



3.97E+01 3.95E-08 8.67E-08 4.88E-08 4.77E-08 5.40E-08 5.62E-08 8.02E-08 8.26E-08

4.20E+01 2.18E-08 4.79E-08 2.70E-08 2.63E-08 2.98E-08 3.11E-08 4.43E-08 4.56E-08

4.44E+01 1.16E-08 2.55E-08 1.44E-08 1.41E-08 1.59E-08 1.66E-08 2.38E-08 2.43E-08

4.70E+01 5.98E-09 1.31E-08 7.42E-09 7.23E-09 8.19E-09 8.53E-09 1.22E-08 1.25E-08

4.97E+01 2.96E-09 6.48E-09 3.67E-09 3.58E-09 4.06E-09 4.22E-09 6.09E-09 6.39E-09

5.26E+01 1.41E-09 3.15E-09 1.75E-09 1.70E-09 1.93E-09 2.01E-09 2.89E-09 3.04E-09

5.57E+01 6.39E-10 1.43E-09 7.95E-10 7.74E-10 8.77E-10 9.13E-10 1.31E-09 1.38E-09

5.90E+01 2.78E-10 6.21E-10 3.45E-10 3.36E-10 3.81E-10 3.97E-10 5.72E-10 6.00E-10



6.24E+01 1.15E-10 2.57E-10 1.43E-10 1.39E-10 1.58E-10 1.66E-10 2.36E-10 2.50E-10

60E+01 4.51E-11 1.01E-10 5.63E-11 5.47E-11 6.21E-11 6.55E-11 9.28E-11 9.84E-11

99E+01 1.68E-11 3.74E-11 2.10E-11 2.04E-11 2.32E-11 2.44E-11 3.45E-11 3.66E-11

7.39E+01 5.90E-12 1.31E-11 7.39E-12 7.17E-12 8.15E-12 8.64E-12 1.22E-11 1.28E-11

7.82E+01 1.95E-12 4.40E-12 2.44E-12 2.37E-12 2.70E-12 2.86E-12 4.03E-12 4.25E-12

8.28E+01 6.04E-13 1.36E-12 7.59E-13 7.36E-13 8.37E-13 8.87E-13 1.25E-12 1.32E-12

8.76E+01 1.75E-13 3.94E-13 2.20E-13 2.13E-13 2.43E-13 2.57E-13 3.61E-13 3.81E-13

9.27E+01 4.71E-14 1.06E-13 5.93E-14 5.75E-14 6.54E-14 6.93E-14 9.81E-14 1.03E-13



9.81E+01 1.17E-14 2.64E-14 1.48E-14 1.44E-14 1.64E-14 1.73E-14 2.45E-14 2.56E-14

1.00E+02 7.26E-15 1.63E-14 9.17E-15 8.89E-15 1.01E-14 1.07E-14 1.51E-14 1.58E-14

1.04E+02 2.70E-15 6.08E-15 3.42E-15 3.31E-15 3.77E-15 4.01E-15 5.64E-15 5.89E-15

1.10E+02 5.71E-16 1.28E-15 7.23E-16 7.00E-16 7.97E-16 8.50E-16 1.19E-15 1.24E-15

1.16E+02 1.10E-16 2.47E-16 1.40E-16 1.35E-16 1.54E-16 1.64E-16 2.30E-16 2.40E-16

1.23E+02 1.93E-17 4.33E-17 2.46E-17 2.38E-17 2.71E-17 2.96E-17 4.03E-17 4.20E-17

1.30E+02 3.06E-18 6.84E-18 3.91E-18 3.78E-18 4.33E-18 4.74E-18 6.38E-18 6.65E-18

1.38E+02 4.35E-19 9.72E-19 5.58E-19 5.39E-19 6.19E-19 7.26E-19 9.07E-19 9.47E-19



1.46E+02 5.52E-20 1.23E-19 7.12E-20 6.86E-20 7.92E-20 9.61E-20 1.15E-19 1.20E-19

1.54E+02 6.22E-21 1.39E-20 8.06E-21 7.75E-21 9.00E-21 1.13E-20 1.30E-20 1.35E-20

1.63E+02 6.18E-22 1.38E-21 8.06E-22 7.73E-22 9.16E-22 1.17E-21 1.29E-21 1.34E-21

1.73E+02 5.36E-23 1.20E-22 7.06E-23 6.73E-23 8.61E-23 1.04E-22 1.11E-22 1.16E-22

1.83E+02 4.04E-24 8.99E-24 5.38E-24 5.08E-24 7.04E-24 8.04E-24 8.43E-24 8.72E-24

1.94E+02 2.61E-25 5.83E-25 3.53E-25 3.30E-25 4.91E-25 5.36E-25 5.50E-25 5.68E-25

2.05E+02 1.44E-26 3.21E-26 1.98E-26 1.83E-26 2.86E-26 3.01E-26 3.08E-26 3.18E-26

2.17E+02 6.72E-28 1.59E-27 9.32E-28 8.53E-28 1.35E-27 1.40E-27 1.44E-27 1.48E-27



2.29E+02 2.51E-29 6.09E-29 3.57E-29 3.24E-29 5.22E-29 5.40E-29 5.52E-29 5.64E-29

2.43E+02 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

2.57E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.72E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

2.88E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.00E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.05E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

3.22E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



3.41E+02 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

3.61E+02 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

3.82E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.04E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.28E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.53E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

4.79E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.07E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00



5.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

5.68E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

0.01E+02 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

6.36E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

6.73E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.12E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.53E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

7.97E+02 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



8.44E+02 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

9.93E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA FE-55.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	1.264E-03
2	0.000E+00	1.264E-03
3	0.000E+00	1.264E-03

Title : RESRAD Default Parameters  
 Input File : FCS BFM INSITU UA FE-55.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	12	-0.02	12	-0.01	13	0.04	13	0.01
Contaminated zone b parameter	13	0.02	13	0.01	17	0.00	17	0.00
Evapotranspiration coefficient	8	0.05	8	0.02	15	-0.01	15	0.00
Wind Speed	11	-0.02	11	-0.01	5	0.07	5	0.02
Runoff coefficient	16	-0.01	16	0.00	8	-0.06	8	-0.02
b Parameter of Unsaturated zone 1	5	-0.09	5	-0.03	7	-0.06	7	-0.02
Mass loading for inhalation	17	-0.01	17	0.00	6	0.06	6	0.02
Indoor dust filtration factor	6	0.06	6	0.02	10	0.04	10	0.01
Depth of soil mixing layer	7	-0.05	7	-0.02	16	-0.01	16	0.00
Depth of roots	2	0.81	2	0.52	2	0.91	2	0.54
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	-0.34	4	-0.14	4	-0.45	4	-0.13
Weathering removal constant of all vegetation	1	-0.89	1	-0.74	1	-0.95	1	-0.77
Wet foliar interception fraction of leafy vegetables	3	0.38	3	0.15	3	0.50	3	0.14
Humidity in air	15	-0.01	15	0.00	12	-0.04	12	-0.01
Cover erosion rate	9	-0.04	9	-0.01	11	-0.04	11	-0.01
Kd of Fe-55 in Contaminated Zone	10	0.02	10	0.01	9	0.05	9	0.01
Kd of Fe-55 in Saturated Zone	14	0.01	14	0.01	14	0.03	14	0.01
R-SQUARE		0.86		0.86		0.94		0.94

-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 FE-55.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	13	-0.04	13	-0.01	13	-0.02	13	-0.01
Contaminated zone b parameter	7	0.06	7	0.02	7	0.06	7	0.01
Evapotranspiration coefficient	8	0.06	8	0.02	12	0.03	12	0.01
Wind Speed	5	-0.14	5	-0.05	5	-0.09	5	-0.02
Runoff coefficient	17	0.00	17	0.00	11	0.04	11	0.01
b Parameter of Unsaturated zone 1	15	0.02	15	0.01	8	0.06	8	0.01
Mass loading for inhalation	10	0.05	10	0.02	6	0.07	6	0.02
Indoor dust filtration factor	14	0.03	14	0.01	16	0.01	16	0.00
Depth of soil mixing layer	16	0.01	16	0.00	10	-0.04	10	-0.01
Depth of roots	2	0.80	2	0.50	2	0.90	2	0.53
Wet weight crop yield of fruit, grain and non-leafy vegetables	3	-0.33	3	-0.13	4	-0.39	4	-0.11
Weathering removal constant of all vegetation	1	-0.89	1	-0.75	1	-0.95	1	-0.79
Wet foliar interception fraction of leafy vegetables	4	0.32	4	0.13	3	0.45	3	0.13
Humidity in air	12	0.05	12	0.02	15	0.02	15	0.00
Cover erosion rate	9	0.06	9	0.02	9	-0.04	9	-0.01
Kd of Fe-55 in Contaminated Zone	6	-0.09	6	-0.03	17	-0.01	17	0.00
Kd of Fe-55 in Saturated Zone	11	-0.05	11	-0.02	14	-0.02	14	-0.01
R-SQUARE		0.86		0.86		0.94		0.94

-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 FE-55.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	10	-0.05	10	-0.02	10	-0.05	10	-0.01
Contaminated zone b parameter	16	0.00	16	0.00	11	0.05	11	0.01
Evapotranspiration coefficient	8	-0.07	8	-0.03	7	-0.07	7	-0.02
Wind Speed	11	-0.04	11	-0.01	16	-0.01	16	0.00
Runoff coefficient	12	-0.03	12	-0.01	17	0.01	17	0.00
b Parameter of Unsaturated zone 1	5	0.10	5	0.04	5	0.09	5	0.02
Mass loading for inhalation	9	0.06	9	0.02	12	0.05	12	0.01
Indoor dust filtration factor	15	0.01	15	0.00	15	-0.01	15	0.00
Depth of soil mixing layer	13	-0.03	13	-0.01	8	-0.06	8	-0.02
Depth of roots	2	0.81	2	0.51	2	0.91	2	0.52
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	-0.26	4	-0.10	4	-0.40	4	-0.11
Weathering removal constant of all vegetation	1	-0.90	1	-0.76	1	-0.96	1	-0.80
Wet foliar interception fraction of leafy vegetables	3	0.37	3	0.15	3	0.55	3	0.16
Humidity in air	6	-0.09	6	-0.03	6	-0.07	6	-0.02
Cover erosion rate	7	-0.07	7	-0.03	14	-0.01	14	0.00
Kd of Fe-55 in Contaminated Zone	17	0.00	17	0.00	13	-0.02	13	-0.01
Kd of Fe-55 in Saturated Zone	14	-0.01	14	0.00	9	0.06	9	0.01
R-SQUARE		0.86		0.86		0.94		0.94

-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.