

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	2.15E+00	2.15E+00	8.42E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.23E+00	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.42E-07	2.88E-15	
Avg	0.00E+00	3.22E+00	3.22E+00	3.04E+00	2.71E+00	1.82E+00	6.14E-01	1.49E-02	3.35E-07	4.24E-16	
Std	0.00E+00	5.50E-02	5.50E-02	1.32E-01	2.08E-01	3.12E-01	1.61E-01	5.48E-03	2.30E-07	6.69E-16	
ALL											
Min	0.00E+00	2.15E+00	2.15E+00	8.42E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.23E+00	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.42E-07	2.88E-15	
Avg	0.00E+00	3.22E+00	3.22E+00	3.04E+00	2.71E+00	1.82E+00	6.14E-01	1.49E-02	3.35E-07	4.24E-16	
Std	0.00E+00	5.50E-02	5.50E-02	1.32E-01	2.08E-01	3.12E-01	1.61E-01	5.48E-03	2.30E-07	6.69E-16	

ALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide	RISK(j,t)								
	(j)	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-152									
Min		7.51E-05	2.95E-05	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.53E-05	7.14E-05	6.44E-05	4.47E-05	1.58E-05	4.15E-07	1.26E-11	1.79E-20
Avg		7.52E-05	7.09E-05	6.33E-05	4.26E-05	1.43E-05	3.47E-07	7.81E-12	2.82E-21
Std		4.24E-08	2.28E-06	4.43E-06	7.10E-06	3.73E-06	1.28E-07	5.35E-12	4.53E-21
<hr/>									
ALL									
Min		7.51E-05	2.95E-05	4.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.53E-05	7.14E-05	6.44E-05	4.47E-05	1.58E-05	4.15E-07	1.26E-11	1.79E-20
Avg		7.52E-05	7.09E-05	6.33E-05	4.26E-05	1.43E-05	3.47E-07	7.81E-12	2.82E-21
Std		4.24E-08	2.28E-06	4.43E-06	7.10E-06	3.73E-06	1.28E-07	5.35E-12	4.53E-21
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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	2.15E+00	8.41E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.22E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.78E-02	5.41E-07	8.42E-23
Avg	3.21E+00	3.03E+00	2.71E+00	1.82E+00	6.13E-01	1.49E-02	3.35E-07	1.94E-23
Std	5.49E-02	1.32E-01	2.07E-01	3.11E-01	1.61E-01	5.47E-03	2.29E-07	3.19E-23
ALL								
Min	2.15E+00	8.41E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.22E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.78E-02	5.41E-07	8.42E-23
Avg	3.21E+00	3.03E+00	2.71E+00	1.82E+00	6.13E-01	1.49E-02	3.35E-07	1.94E-23
Std	5.49E-02	1.32E-01	2.07E-01	3.11E-01	1.61E-01	5.47E-03	2.29E-07	3.19E-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	8.20E-09	7.79E-09	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.82E-05	1.73E-05	1.56E-05	1.08E-05	3.82E-06	1.00E-07	3.05E-12	6.31E-16
Avg	2.92E-06	2.76E-06	2.47E-06	1.66E-06	5.58E-07	1.36E-08	2.96E-13	3.03E-17
Std	1.78E-06	1.69E-06	1.52E-06	1.07E-06	3.83E-07	1.02E-08	3.15E-13	5.68E-17
ALL								
Min	8.20E-09	7.79E-09	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.82E-05	1.73E-05	1.56E-05	1.08E-05	3.82E-06	1.00E-07	3.05E-12	6.31E-16
Avg	2.92E-06	2.76E-06	2.47E-06	1.66E-06	5.58E-07	1.36E-08	2.96E-13	3.03E-17
Std	1.78E-06	1.69E-06	1.52E-06	1.07E-06	3.83E-07	1.02E-08	3.15E-13	5.68E-17

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
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	8.37E-04	5.21E-04	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.55E-03	3.37E-03	3.04E-03	2.11E-03	7.46E-04	1.96E-05	5.96E-10	1.83E-15
Avg	1.99E-03	1.88E-03	1.67E-03	1.11E-03	3.66E-04	8.04E-06	1.47E-10	2.10E-16
Std	9.63E-04	9.15E-04	8.30E-04	5.93E-04	2.15E-04	5.66E-06	1.64E-10	4.11E-16
ALL								
Min	8.37E-04	5.21E-04	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.55E-03	3.37E-03	3.04E-03	2.11E-03	7.46E-04	1.96E-05	5.96E-10	1.83E-15
Avg	1.99E-03	1.88E-03	1.67E-03	1.11E-03	3.66E-04	8.04E-06	1.47E-10	2.10E-16
Std	9.63E-04	9.15E-04	8.30E-04	5.93E-04	2.15E-04	5.66E-06	1.64E-10	4.11E-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	9.43E-04	3.75E-04	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.35E-03	1.28E-03	1.15E-03	8.00E-04	2.83E-04	7.43E-06	2.26E-10	5.48E-16
Avg	1.26E-03	1.19E-03	1.06E-03	7.13E-04	2.40E-04	5.76E-06	1.24E-10	1.35E-16
Std	5.49E-05	7.02E-05	9.21E-05	1.27E-04	6.40E-05	2.14E-06	8.93E-11	2.01E-16
ALL								
Min	9.43E-04	3.75E-04	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.35E-03	1.28E-03	1.15E-03	8.00E-04	2.83E-04	7.43E-06	2.26E-10	5.48E-16
Avg	1.26E-03	1.19E-03	1.06E-03	7.13E-04	2.40E-04	5.76E-06	1.24E-10	1.35E-16
Std	5.49E-05	7.02E-05	9.21E-05	1.27E-04	6.40E-05	2.14E-06	8.93E-11	2.01E-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	1.02E-04	4.30E-05	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.59E-04	1.51E-04	1.36E-04	9.48E-05	3.35E-05	8.80E-07	2.68E-11	2.19E-17
Avg	1.40E-04	1.32E-04	1.18E-04	7.90E-05	2.65E-05	6.32E-07	1.34E-11	5.10E-18
Std	1.22E-05	1.27E-05	1.36E-05	1.54E-05	7.37E-06	2.41E-07	9.77E-12	7.64E-18
ALL								
Min	1.02E-04	4.30E-05	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.59E-04	1.51E-04	1.36E-04	9.48E-05	3.35E-05	8.80E-07	2.68E-11	2.19E-17
Avg	1.40E-04	1.32E-04	1.18E-04	7.90E-05	2.65E-05	6.32E-07	1.34E-11	5.10E-18
Std	1.22E-05	1.27E-05	1.36E-05	1.54E-05	7.37E-06	2.41E-07	9.77E-12	7.64E-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	6.00E-05	2.35E-05	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	9.01E-05	8.56E-05	7.71E-05	5.36E-05	1.89E-05	4.97E-07	1.51E-11	7.87E-17
Avg	8.99E-05	8.48E-05	7.58E-05	5.09E-05	1.71E-05	4.16E-07	9.07E-12	2.03E-17
Std	1.54E-06	3.68E-06	5.81E-06	8.83E-06	4.52E-06	1.53E-07	6.48E-12	3.02E-17
ALL								
Min	6.00E-05	2.35E-05	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	9.01E-05	8.56E-05	7.71E-05	5.36E-05	1.89E-05	4.97E-07	1.51E-11	7.87E-17
Avg	8.99E-05	8.48E-05	7.58E-05	5.09E-05	1.71E-05	4.16E-07	9.07E-12	2.03E-17
Std	1.54E-06	3.68E-06	5.81E-06	8.83E-06	4.52E-06	1.53E-07	6.48E-12	3.02E-17

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
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	1.88E-05	3.31E-04	9.46E-04	1.59E-03	1.63E-02	2.75E-04	1.49E-08	9.13E-16
Avg	2.89E-08	3.62E-07	1.27E-06	5.44E-06	1.87E-05	8.44E-07	5.53E-11	2.11E-17
Std	5.65E-07	8.93E-06	2.60E-05	6.30E-05	4.34E-04	1.02E-05	5.32E-10	5.18E-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	1.88E-05	3.31E-04	9.46E-04	1.59E-03	1.63E-02	2.75E-04	1.49E-08	9.13E-16
Avg	2.89E-08	3.62E-07	1.27E-06	5.44E-06	1.87E-05	8.44E-07	5.53E-11	2.11E-17
Std	5.65E-07	8.93E-06	2.60E-05	6.30E-05	4.34E-04	1.02E-05	5.32E-10	5.18E-17

ALL is total pathway dose summed for all nuclides.

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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
TOTAL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

TOTAL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-152.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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	1.10E-06	2.02E-05	5.87E-05	1.79E-04	5.03E-03	8.53E-05	3.34E-09	5.77E-17
Avg	2.25E-09	2.78E-08	9.65E-08	5.09E-07	4.17E-06	1.18E-07	6.51E-12	1.85E-18
Std	4.13E-08	6.05E-07	1.78E-06	6.17E-06	1.31E-04	2.31E-06	9.38E-11	4.44E-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	1.10E-06	2.02E-05	5.87E-05	1.79E-04	5.03E-03	8.53E-05	3.34E-09	5.77E-17
Avg	2.25E-09	2.78E-08	9.65E-08	5.09E-07	4.17E-06	1.18E-07	6.51E-12	1.85E-18
Std	4.13E-08	6.05E-07	1.78E-06	6.17E-06	1.31E-04	2.31E-06	9.38E-11	4.44E-18

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	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	3.90E-07	1.28E-05	4.05E-05	7.00E-05	9.48E-04	1.62E-05	7.63E-10	1.67E-17
Avg	7.44E-10	1.42E-08	5.33E-08	2.29E-07	9.88E-07	4.00E-08	2.50E-12	4.50E-19
Std	1.32E-08	3.49E-07	1.12E-06	2.64E-06	2.50E-05	5.29E-07	2.53E-11	1.06E-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	3.90E-07	1.28E-05	4.05E-05	7.00E-05	9.48E-04	1.62E-05	7.63E-10	1.67E-17
Avg	7.44E-10	1.42E-08	5.33E-08	2.29E-07	9.88E-07	4.00E-08	2.50E-12	4.50E-19
Std	1.32E-08	3.49E-07	1.12E-06	2.64E-06	2.50E-05	5.29E-07	2.53E-11	1.06E-18

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	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	8.33E-08	2.15E-06	6.59E-06	1.13E-05	1.69E-04	2.88E-06	1.30E-10	8.78E-19
Avg	1.46E-10	2.40E-09	8.65E-09	3.76E-08	1.71E-07	6.63E-09	4.06E-13	2.56E-20
Std	2.71E-09	5.88E-08	1.82E-07	4.42E-07	4.46E-06	9.12E-08	4.22E-12	5.96E-20
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	8.33E-08	2.15E-06	6.59E-06	1.13E-05	1.69E-04	2.88E-06	1.30E-10	8.78E-19
Avg	1.46E-10	2.40E-09	8.65E-09	3.76E-08	1.71E-07	6.63E-09	4.06E-13	2.56E-20
Std	2.71E-09	5.88E-08	1.82E-07	4.42E-07	4.46E-06	9.12E-08	4.22E-12	5.96E-20

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	3.13E+00	2.79E+00	2.23E+00	5.69E-01	1.74E-06	0.00E+00	0.00E+00	0.00E+00
0.050	3.19E+00	2.95E+00	2.54E+00	1.36E+00	1.04E-01	1.63E-07	0.00E+00	0.00E+00
0.075	3.21E+00	3.01E+00	2.65E+00	1.64E+00	3.27E-01	3.41E-04	8.91E-19	3.64E-27
0.100	3.22E+00	3.03E+00	2.70E+00	1.75E+00	4.81E-01	3.23E-03	1.25E-17	1.59E-19
0.125	3.22E+00	3.04E+00	2.72E+00	1.82E+00	5.60E-01	7.13E-03	8.59E-16	7.14E-19
0.150	3.22E+00	3.05E+00	2.73E+00	1.85E+00	5.97E-01	1.05E-02	4.63E-14	1.33E-18
0.175	3.22E+00	3.05E+00	2.74E+00	1.87E+00	6.23E-01	1.24E-02	6.30E-13	1.77E-18
0.200	3.22E+00	3.06E+00	2.74E+00	1.88E+00	6.37E-01	1.40E-02	1.15E-11	2.22E-18
0.225	3.22E+00	3.06E+00	2.75E+00	1.89E+00	6.48E-01	1.50E-02	2.28E-10	2.78E-18
0.250	3.22E+00	3.06E+00	2.75E+00	1.90E+00	6.56E-01	1.57E-02	7.63E-09	3.43E-18
0.275	3.22E+00	3.06E+00	2.75E+00	1.90E+00	6.61E-01	1.62E-02	5.69E-08	3.77E-18
0.300	3.22E+00	3.06E+00	2.75E+00	1.91E+00	6.64E-01	1.66E-02	1.20E-07	4.53E-18
0.325	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.67E-01	1.68E-02	1.97E-07	5.57E-18
0.350	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.69E-01	1.70E-02	2.63E-07	6.40E-18
0.375	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.71E-01	1.71E-02	3.33E-07	7.46E-18
0.400	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.72E-01	1.73E-02	3.72E-07	8.94E-18
0.425	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.73E-01	1.74E-02	4.12E-07	1.04E-17
0.450	3.22E+00	3.06E+00	2.76E+00	1.91E+00	6.74E-01	1.75E-02	4.36E-07	1.18E-17
0.475	3.22E+00	3.06E+00	2.76E+00	1.92E+00	6.75E-01	1.75E-02	4.53E-07	1.38E-17
0.500	3.22E+00	3.06E+00	2.76E+00	1.92E+00	6.76E-01	1.76E-02	4.68E-07	1.63E-17
0.525	3.22E+00	3.06E+00	2.76E+00	1.92E+00	6.76E-01	1.76E-02	4.80E-07	2.02E-17
0.550	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.76E-01	1.77E-02	4.93E-07	2.53E-17
0.575	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.77E-02	5.04E-07	3.36E-17
0.600	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.77E-02	5.10E-07	4.65E-17
0.625	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.77E-02	5.19E-07	7.41E-17
0.650	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.77E-02	5.25E-07	1.48E-16
0.675	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.77E-02	5.29E-07	3.04E-16
0.700	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.78E-02	5.32E-07	4.59E-16
0.725	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.77E-01	1.78E-02	5.34E-07	6.63E-16
0.750	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.36E-07	8.07E-16
0.775	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.37E-07	9.34E-16
0.800	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.38E-07	1.06E-15
0.825	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.39E-07	1.14E-15
0.850	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.40E-07	1.22E-15
0.875	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.41E-07	1.31E-15
0.900	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.41E-07	1.43E-15
0.925	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.41E-07	1.68E-15
0.950	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.41E-07	1.96E-15
0.975	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.42E-07	2.24E-15
1.000	3.23E+00	3.06E+00	2.76E+00	1.92E+00	6.78E-01	1.78E-02	5.42E-07	2.88E-15

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	2.49E+00	3.23E+00	3.22E+00	3.22E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
1.00E+00	1.38E+00	3.06E+00	3.04E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.06E+00	1.33E+00	3.05E+00	3.03E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00
1.12E+00	1.28E+00	3.04E+00	3.02E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.19E+00	1.23E+00	3.03E+00	3.00E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00
1.25E+00	1.18E+00	3.02E+00	2.99E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
1.33E+00	1.13E+00	3.01E+00	2.98E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.40E+00	1.08E+00	3.00E+00	2.97E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00
1.49E+00	1.03E+00	2.99E+00	2.95E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
1.57E+00	9.78E-01	2.97E+00	2.94E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00
1.66E+00	9.26E-01	2.96E+00	2.92E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
1.76E+00	8.74E-01	2.94E+00	2.91E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00
1.86E+00	8.22E-01	2.93E+00	2.89E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
1.97E+00	7.71E-01	2.91E+00	2.87E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
2.09E+00	7.20E-01	2.90E+00	2.85E+00	2.89E+00	2.89E+00	2.90E+00	2.90E+00	2.90E+00
2.21E+00	6.69E-01	2.88E+00	2.84E+00	2.87E+00	2.88E+00	2.88E+00	2.88E+00	2.88E+00
2.24E+00	6.20E-01	2.86E+00	2.81E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00
2.27E+00	5.72E-01	2.84E+00	2.79E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.26E+00	5.25E-01	2.82E+00	2.77E+00	2.81E+00	2.82E+00	2.82E+00	2.82E+00	2.82E+00
2.27E+00	4.79E-01	2.79E+00	2.75E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00
2.29E+00	4.35E-01	2.77E+00	2.72E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	4.18E-01	2.76E+00	2.71E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
3.310E+00	3.93E-01	2.75E+00	2.70E+00	2.74E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.328E+00	3.53E-01	2.72E+00	2.67E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
3.48E+00	3.15E-01	2.69E+00	2.64E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.68E+00	2.79E-01	2.67E+00	2.61E+00	2.66E+00	2.67E+00	2.67E+00	2.67E+00	2.67E+00
3.89E+00	2.46E-01	2.64E+00	2.58E+00	2.63E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00
4.12E+00	2.15E-01	2.61E+00	2.55E+00	2.60E+00	2.60E+00	2.61E+00	2.61E+00	2.61E+00
4.36E+00	1.86E-01	2.57E+00	2.51E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.61E+00	1.60E-01	2.54E+00	2.48E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00
4.88E+00	1.36E-01	2.50E+00	2.44E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00
5.17E+00	1.15E-01	2.47E+00	2.40E+00	2.46E+00	2.47E+00	2.47E+00	2.47E+00	2.47E+00
5.47E+00	9.63E-02	2.43E+00	2.36E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
5.578E+00	4.10E-05	2.39E+00	2.31E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00
6.12E+00	4.02E-05	2.35E+00	2.27E+00	2.34E+00	2.35E+00	2.35E+00	2.35E+00	2.35E+00
6.48E+00	0.00E+00	2.30E+00	2.22E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00
6.86E+00	0.00E+00	2.26E+00	2.18E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00
7.26E+00	0.00E+00	2.21E+00	2.13E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
7.68E+00	0.00E+00	2.17E+00	2.08E+00	2.16E+00	2.16E+00	2.16E+00	2.16E+00	2.17E+00
8.13E+00	0.00E+00	2.12E+00	2.02E+00	2.11E+00	2.11E+00	2.12E+00	2.12E+00	2.12E+00
8.60E+00	0.00E+00	2.06E+00	1.97E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00
9.10E+00	0.00E+00	2.01E+00	1.92E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
9.63E+00	0.00E+00	1.96E+00	1.86E+00	1.95E+00	1.96E+00	1.96E+00	1.96E+00	1.96E+00
1.00E+01	0.00E+00	1.92E+00	1.82E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00
1.02E+01	0.00E+00	1.90E+00	1.80E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00
1.08E+01	0.00E+00	1.84E+00	1.74E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
1.14E+01	0.00E+00	1.78E+00	1.68E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00
1.21E+01	0.00E+00	1.72E+00	1.62E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00
1.28E+01	0.00E+00	1.66E+00	1.56E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00
1.35E+01	0.00E+00	1.60E+00	1.50E+00	1.59E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00
1.43E+01	0.00E+00	1.53E+00	1.44E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00
1.51E+01	0.00E+00	1.47E+00	1.37E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00
1.60E+01	0.00E+00	1.40E+00	1.31E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
1.70E+01	0.00E+00	1.34E+00	1.24E+00	1.33E+00	1.34E+00	1.34E+00	1.34E+00	1.34E+00
1.80E+01	0.00E+00	1.27E+00	1.18E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.90E+01	0.00E+00	1.20E+00	1.11E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00

2.01E+01 0.00E+00 1.13E+00 1.05E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00

2.13E+01 0.00E+00 1.07E+00 9.81E-01 1.06E+00 1.07E+00 1.07E+00 1.07E+00 1.07E+00

2.25E+01 0.00E+00 1.00E+00 9.18E-01 9.98E-01 1.00E+00 1.00E+00 1.00E+00 1.00E+00

2.38E+01 0.00E+00 9.35E-01 8.54E-01 9.32E-01 9.34E-01 9.35E-01 9.35E-01 9.35E-01

2.52E+01 0.00E+00 8.70E-01 7.93E-01 8.67E-01 8.69E-01 8.70E-01 8.70E-01 8.70E-01

2.67E+01 0.00E+00 8.06E-01 7.33E-01 8.03E-01 8.05E-01 8.06E-01 8.06E-01 8.06E-01

2.82E+01 0.00E+00 7.43E-01 6.74E-01 7.41E-01 7.43E-01 7.43E-01 7.43E-01 7.43E-01

2.99E+01 0.00E+00 6.82E-01 6.17E-01 6.80E-01 6.82E-01 6.82E-01 6.82E-01 6.82E-01

3.00E+01 0.00E+00 6.78E-01 6.13E-01 6.76E-01 6.78E-01 6.78E-01 6.78E-01 6.78E-01

3.16E+01 0.00E+00 6.23E-01 5.62E-01 6.21E-01 6.23E-01 6.23E-01 6.23E-01 6.23E-01

3.35E+01 0.00E+00 5.66E-01 5.08E-01 5.64E-01 5.66E-01 5.66E-01 5.66E-01 5.66E-01

3.54E+01 0.00E+00 5.12E-01 4.58E-01 5.09E-01 5.12E-01 5.12E-01 5.12E-01 5.12E-01

3.75E+01 0.00E+00 4.60E-01 4.10E-01 4.58E-01 4.59E-01 4.60E-01 4.60E-01 4.60E-01

3.97E+01 0.00E+00 4.10E-01 3.65E-01 4.08E-01 4.10E-01 4.10E-01 4.10E-01 4.10E-01

4.20E+01 0.00E+00 3.64E-01 3.22E-01 3.62E-01 3.64E-01 3.64E-01 3.64E-01 3.64E-01

4.44E+01 0.00E+00 3.20E-01 2.83E-01 3.19E-01 3.20E-01 3.20E-01 3.20E-01 3.20E-01

4.70E+01 0.00E+00 2.80E-01 2.46E-01 2.78E-01 2.80E-01 2.80E-01 2.80E-01 2.80E-01

4.97E+01 0.00E+00 2.43E-01 2.13E-01 2.41E-01 2.43E-01 2.43E-01 2.43E-01 2.43E-01

5.26E+01 0.00E+00 2.09E-01 1.82E-01 2.08E-01 2.09E-01 2.09E-01 2.09E-01 2.09E-01

5.57E+01 0.00E+00 1.78E-01 1.55E-01 1.77E-01 1.78E-01 1.78E-01 1.78E-01 1.78E-01 1.78E-01

1.90E+01 0.00E+00 1.51E-01 1.30E-01 1.49E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01

6.24E+01 0.00E+00 1.26E-01 1.09E-01 1.25E-01 1.26E-01 1.26E-01 1.26E-01 1.26E-01

6.0E+01 0.00E+00 1.04E-01 8.96E-02 1.03E-01 1.04E-01 1.04E-01 1.04E-01 1.04E-01

99E+01 0.00E+00 8.53E-02 7.31E-02 8.46E-02 8.53E-02 8.53E-02 8.53E-02 8.53E-02

7.39E+01 0.00E+00 6.91E-02 5.89E-02 6.84E-02 6.90E-02 6.90E-02 6.90E-02 6.90E-02

7.82E+01 0.00E+00 5.52E-02 4.69E-02 5.47E-02 5.52E-02 5.52E-02 5.52E-02 5.52E-02

8.28E+01 0.00E+00 4.35E-02 3.68E-02 4.31E-02 4.35E-02 4.35E-02 4.35E-02 4.35E-02

8.76E+01 0.00E+00 3.39E-02 2.85E-02 3.35E-02 3.39E-02 3.39E-02 3.39E-02 3.39E-02 3.39E-02

9.27E+01 0.00E+00 2.60E-02 2.18E-02 2.57E-02 2.60E-02 2.60E-02 2.60E-02 2.60E-02

9.81E+01 0.00E+00 1.96E-02 1.64E-02 1.94E-02 1.96E-02 1.96E-02 1.96E-02 1.96E-02

1.00E+02 0.00E+00 1.78E-02 1.48E-02 1.76E-02 1.78E-02 1.78E-02 1.78E-02 1.78E-02

1.04E+02 0.00E+00 1.46E-02 1.21E-02 1.44E-02 1.46E-02 1.46E-02 1.46E-02 1.46E-02

1.10E+02 0.00E+00 1.06E-02 8.81E-03 1.05E-02 1.06E-02 1.06E-02 1.06E-02 1.06E-02

1.16E+02 0.00E+00 7.63E-03 6.28E-03 7.51E-03 7.62E-03 7.62E-03 7.63E-03 7.63E-03

1.23E+02 0.00E+00 5.36E-03 4.40E-03 5.28E-03 5.36E-03 5.36E-03 5.36E-03 5.36E-03

1.30E+02 0.00E+00 3.69E-03 3.01E-03 3.63E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03

1.38E+02 0.00E+00 2.49E-03 2.02E-03 2.44E-03 2.49E-03 2.49E-03 2.49E-03 2.49E-03

1.46E+02 0.00E+00 1.64E-03 1.32E-03 1.61E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03

1.54E+02 0.00E+00 1.05E-03 8.46E-04 1.03E-03 1.05E-03 1.05E-03 1.05E-03 1.05E-03

1.63E+02 0.00E+00 6.61E-04 5.26E-04 6.42E-04 6.60E-04 6.60E-04 6.60E-04 6.61E-04

1.73E+02 0.00E+00 4.03E-04 3.18E-04 3.90E-04 4.02E-04 4.02E-04 4.03E-04 4.03E-04

1.83E+02 0.00E+00 2.39E-04 1.87E-04 2.30E-04 2.38E-04 2.38E-04 2.38E-04 2.39E-04

1.94E+02 0.00E+00 1.37E-04 1.06E-04 1.31E-04 1.37E-04 1.37E-04 1.37E-04 1.37E-04

2.05E+02 0.00E+00 7.63E-05 5.73E-05 7.27E-05 7.62E-05 7.62E-05 7.62E-05 7.62E-05

2.17E+02 0.00E+00 4.10E-05 2.99E-05 3.87E-05 4.09E-05 4.10E-05 4.10E-05 4.10E-05

2.29E+02 0.00E+00 2.13E-05 1.51E-05 1.99E-05 2.12E-05 2.12E-05 2.12E-05 2.13E-05

2.43E+02 0.00E+00 1.06E-05 7.30E-06 9.78E-06 1.06E-05 1.06E-05 1.06E-05 1.06E-05

2.57E+02 0.00E+00 5.09E-06 3.40E-06 4.62E-06 5.08E-06 5.08E-06 5.08E-06 5.08E-06

2.72E+02 0.00E+00 2.34E-06 1.51E-06 2.08E-06 2.33E-06 2.33E-06 2.33E-06 2.33E-06

2.88E+02 0.00E+00 1.02E-06 6.40E-07 8.98E-07 1.02E-06 1.02E-06 1.02E-06 1.02E-06

3.00E+02 0.00E+00 5.42E-07 3.30E-07 4.65E-07 5.41E-07 5.41E-07 5.42E-07 5.42E-07

3.05E+02 0.00E+00 4.29E-07 2.58E-07 3.66E-07 4.28E-07 4.28E-07 4.28E-07 4.28E-07

3.22E+02 0.00E+00 1.70E-07 9.91E-08 1.40E-07 1.70E-07 1.70E-07 1.70E-07 1.70E-07

3.41E+02 0.00E+00 6.42E-08 3.60E-08 5.07E-08 6.41E-08 6.41E-08 6.41E-08 6.42E-08

3.61E+02 0.00E+00 2.28E-08 1.23E-08 1.71E-08 2.28E-08 2.28E-08 2.28E-08 2.28E-08

3.82E+02 0.00E+00 7.66E-09 3.98E-09 5.40E-09 7.64E-09 7.65E-09 7.65E-09 7.65E-09

4.04E+02 0.00E+00 2.41E-09 1.21E-09 1.57E-09 2.40E-09 2.40E-09 2.41E-09 2.41E-09

4.28E+02 0.00E+00 7.08E-10 3.43E-10 3.87E-10 7.06E-10 7.07E-10 7.07E-10 7.07E-10

4.53E+02 0.00E+00 1.94E-10 9.04E-11 8.48E-11 1.93E-10 1.93E-10 1.94E-10 1.94E-10

4.79E+02 0.00E+00 4.92E-11 2.21E-11 1.55E-11 4.90E-11 4.91E-11 4.91E-11 4.91E-11

5.07E+02 0.00E+00 1.15E-11 4.96E-12 2.14E-12 1.15E-11 1.15E-11 1.15E-11 1.15E-11

5.36E+02 0.00E+00 2.48E-12 1.02E-12 2.18E-13 2.47E-12 2.48E-12 2.48E-12 2.48E-12

5.68E+02 0.00E+00 4.91E-13 1.95E-13 1.20E-14 4.88E-13 4.89E-13 4.90E-13 4.91E-13

0.01E+02 0.00E+00 9.01E-14 3.41E-14 1.21E-15 8.84E-14 8.89E-14 8.94E-14 8.98E-14

3.36E+02 0.00E+00 1.68E-14 5.80E-15 6.61E-16 1.54E-14 1.60E-14 1.63E-14 1.66E-14

6.73E+02 0.00E+00 4.68E-15 1.32E-15 2.18E-16 3.54E-15 3.99E-15 4.34E-15 4.56E-15

7.12E+02 0.00E+00 2.88E-15 6.62E-16 6.89E-17 1.92E-15 2.32E-15 2.61E-15 2.76E-15

7.53E+02 0.00E+00 2.64E-15 5.57E-16 4.13E-17 1.73E-15 2.14E-15 2.34E-15 2.51E-15

7.97E+02 0.00E+00 2.60E-15 5.22E-16 3.24E-17 1.68E-15 2.10E-15 2.29E-15 2.48E-15

8.44E+02 0.00E+00 2.60E-15 4.97E-16 2.59E-17 1.63E-15 2.05E-15 2.27E-15 2.47E-15

93E+02 0.00E+00 2.59E-15 4.72E-16 2.33E-17 1.56E-15 2.04E-15 2.26E-15 2.46E-15

9.45E+02 0.00E+00 2.59E-15 4.49E-16 2.00E-17 1.50E-15 2.01E-15 2.25E-15 2.45E-15

1.00E+03 0.00E+00 2.58E-15 4.27E-16 1.66E-17 1.50E-15 1.96E-15 2.24E-15 2.44E-15

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	2.15E+00	3.23E+00	3.21E+00	3.22E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
1.00E+00	8.42E-01	3.06E+00	3.03E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.06E+00	7.98E-01	3.05E+00	3.02E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00
1.12E+00	7.53E-01	3.04E+00	3.01E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.19E+00	7.08E-01	3.03E+00	3.00E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00
1.25E+00	6.64E-01	3.02E+00	2.99E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
1.33E+00	6.20E-01	3.01E+00	2.98E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.40E+00	5.77E-01	3.00E+00	2.96E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00
1.49E+00	5.34E-01	2.99E+00	2.95E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
1.57E+00	4.92E-01	2.97E+00	2.93E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00
1.66E+00	4.52E-01	2.96E+00	2.92E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
1.76E+00	4.13E-01	2.94E+00	2.90E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00
1.86E+00	3.75E-01	2.93E+00	2.89E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
1.97E+00	3.39E-01	2.91E+00	2.87E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
2.09E+00	3.04E-01	2.90E+00	2.85E+00	2.89E+00	2.89E+00	2.90E+00	2.90E+00	2.90E+00
2.21E+00	2.71E-01	2.88E+00	2.83E+00	2.87E+00	2.88E+00	2.88E+00	2.88E+00	2.88E+00
2.24E+00	2.40E-01	2.86E+00	2.81E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00
2.47E+00	2.12E-01	2.84E+00	2.79E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.62E+00	1.85E-01	2.82E+00	2.77E+00	2.81E+00	2.82E+00	2.82E+00	2.82E+00	2.82E+00
2.77E+00	1.60E-01	2.79E+00	2.74E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00
2.93E+00	1.38E-01	2.77E+00	2.72E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	1.29E-01	2.76E+00	2.71E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
3.10E+00	1.17E-01	2.75E+00	2.69E+00	2.74E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.28E+00	9.91E-02	2.72E+00	2.66E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
3.48E+00	8.28E-02	2.69E+00	2.64E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.68E+00	6.85E-02	2.67E+00	2.61E+00	2.66E+00	2.67E+00	2.67E+00	2.67E+00	2.67E+00
3.89E+00	5.61E-02	2.64E+00	2.58E+00	2.63E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00
4.12E+00	4.53E-02	2.61E+00	2.54E+00	2.60E+00	2.60E+00	2.61E+00	2.61E+00	2.61E+00
4.36E+00	3.62E-02	2.57E+00	2.51E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.61E+00	2.85E-02	2.54E+00	2.47E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00
4.88E+00	2.22E-02	2.50E+00	2.43E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00
5.17E+00	1.70E-02	2.47E+00	2.39E+00	2.46E+00	2.47E+00	2.47E+00	2.47E+00	2.47E+00
5.47E+00	5.60E-03	2.43E+00	2.35E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
5.78E+00	0.00E+00	2.39E+00	2.31E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00
6.12E+00	0.00E+00	2.35E+00	2.27E+00	2.34E+00	2.35E+00	2.35E+00	2.35E+00	2.35E+00
6.48E+00	0.00E+00	2.30E+00	2.22E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00
6.86E+00	0.00E+00	2.26E+00	2.17E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00
7.26E+00	0.00E+00	2.21E+00	2.12E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
7.68E+00	0.00E+00	2.17E+00	2.07E+00	2.16E+00	2.16E+00	2.16E+00	2.16E+00	2.17E+00
8.13E+00	0.00E+00	2.12E+00	2.02E+00	2.11E+00	2.11E+00	2.12E+00	2.12E+00	2.12E+00
8.60E+00	0.00E+00	2.06E+00	1.97E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00
9.10E+00	0.00E+00	2.01E+00	1.92E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
9.63E+00	0.00E+00	1.96E+00	1.86E+00	1.95E+00	1.96E+00	1.96E+00	1.96E+00	1.96E+00
1.00E+01	0.00E+00	1.92E+00	1.82E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00
1.02E+01	0.00E+00	1.90E+00	1.80E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00
1.08E+01	0.00E+00	1.84E+00	1.74E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
1.14E+01	0.00E+00	1.78E+00	1.69E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00
1.21E+01	0.00E+00	1.72E+00	1.63E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00
1.28E+01	0.00E+00	1.66E+00	1.56E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00
1.35E+01	0.00E+00	1.60E+00	1.50E+00	1.59E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00
1.43E+01	0.00E+00	1.53E+00	1.44E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00
1.51E+01	0.00E+00	1.47E+00	1.37E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00
1.60E+01	0.00E+00	1.40E+00	1.31E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
1.70E+01	0.00E+00	1.34E+00	1.24E+00	1.33E+00	1.34E+00	1.34E+00	1.34E+00	1.34E+00
1.80E+01	0.00E+00	1.27E+00	1.18E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.90E+01	0.00E+00	1.20E+00	1.11E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00

2.01E+01 0.00E+00 1.13E+00 1.05E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00

2.13E+01 0.00E+00 1.07E+00 9.83E-01 1.06E+00 1.07E+00 1.07E+00 1.07E+00 1.07E+00

2.25E+01 0.00E+00 1.00E+00 9.19E-01 9.98E-01 1.00E+00 1.00E+00 1.00E+00 1.00E+00

2.38E+01 0.00E+00 9.35E-01 8.56E-01 9.32E-01 9.34E-01 9.35E-01 9.35E-01 9.35E-01

2.52E+01 0.00E+00 8.70E-01 7.94E-01 8.67E-01 8.69E-01 8.70E-01 8.70E-01 8.70E-01

2.67E+01 0.00E+00 8.06E-01 7.34E-01 8.03E-01 8.05E-01 8.06E-01 8.06E-01 8.06E-01

2.82E+01 0.00E+00 7.43E-01 6.75E-01 7.41E-01 7.43E-01 7.43E-01 7.43E-01 7.43E-01

2.99E+01 0.00E+00 6.82E-01 6.18E-01 6.80E-01 6.82E-01 6.82E-01 6.82E-01 6.82E-01

3.00E+01 0.00E+00 6.78E-01 6.14E-01 6.76E-01 6.78E-01 6.78E-01 6.78E-01 6.78E-01

3.16E+01 0.00E+00 6.23E-01 5.63E-01 6.21E-01 6.23E-01 6.23E-01 6.23E-01 6.23E-01

3.35E+01 0.00E+00 5.66E-01 5.10E-01 5.64E-01 5.66E-01 5.66E-01 5.66E-01 5.66E-01

3.54E+01 0.00E+00 5.12E-01 4.60E-01 5.10E-01 5.11E-01 5.12E-01 5.12E-01 5.12E-01

3.75E+01 0.00E+00 4.60E-01 4.11E-01 4.58E-01 4.59E-01 4.60E-01 4.60E-01 4.60E-01

3.97E+01 0.00E+00 4.10E-01 3.66E-01 4.08E-01 4.10E-01 4.10E-01 4.10E-01 4.10E-01

4.20E+01 0.00E+00 3.64E-01 3.23E-01 3.62E-01 3.64E-01 3.64E-01 3.64E-01 3.64E-01 3.64E-01

4.44E+01 0.00E+00 3.20E-01 2.84E-01 3.19E-01 3.20E-01 3.20E-01 3.20E-01 3.20E-01

4.70E+01 0.00E+00 2.80E-01 2.48E-01 2.79E-01 2.80E-01 2.80E-01 2.80E-01 2.80E-01

4.97E+01 0.00E+00 2.43E-01 2.14E-01 2.42E-01 2.43E-01 2.43E-01 2.43E-01 2.43E-01 2.43E-01

5.26E+01 0.00E+00 2.09E-01 1.83E-01 2.08E-01 2.09E-01 2.09E-01 2.09E-01 2.09E-01

5.57E+01 0.00E+00 1.78E-01 1.56E-01 1.77E-01 1.78E-01 1.78E-01 1.78E-01 1.78E-01

1.90E+01 0.00E+00 1.51E-01 1.31E-01 1.49E-01 1.50E-01 1.50E-01 1.50E-01 1.51E-01

6.24E+01 0.00E+00 1.26E-01 1.09E-01 1.25E-01 1.26E-01 1.26E-01 1.26E-01 1.26E-01

60E+01 0.00E+00 1.04E-01 9.00E-02 1.03E-01 1.04E-01 1.04E-01 1.04E-01 1.04E-01

99E+01 0.00E+00 8.53E-02 7.34E-02 8.46E-02 8.53E-02 8.53E-02 8.53E-02 8.53E-02

7.39E+01 0.00E+00 6.91E-02 5.92E-02 6.85E-02 6.90E-02 6.90E-02 6.90E-02 6.90E-02

7.82E+01 0.00E+00 5.52E-02 4.71E-02 5.47E-02 5.52E-02 5.52E-02 5.52E-02 5.52E-02

8.28E+01 0.00E+00 4.35E-02 3.70E-02 4.31E-02 4.35E-02 4.35E-02 4.35E-02 4.35E-02

8.76E+01 0.00E+00 3.39E-02 2.87E-02 3.36E-02 3.39E-02 3.39E-02 3.39E-02 3.39E-02

9.27E+01 0.00E+00 2.60E-02 2.19E-02 2.57E-02 2.60E-02 2.60E-02 2.60E-02 2.60E-02

9.81E+01 0.00E+00 1.96E-02 1.65E-02 1.94E-02 1.96E-02 1.96E-02 1.96E-02 1.96E-02

1.00E+02 0.00E+00 1.78E-02 1.49E-02 1.76E-02 1.78E-02 1.78E-02 1.78E-02 1.78E-02 1.78E-02

1.04E+02 0.00E+00 1.46E-02 1.22E-02 1.44E-02 1.46E-02 1.46E-02 1.46E-02 1.46E-02

1.10E+02 0.00E+00 1.06E-02 8.85E-03 1.05E-02 1.06E-02 1.06E-02 1.06E-02 1.06E-02

1.16E+02 0.00E+00 7.63E-03 6.32E-03 7.53E-03 7.62E-03 7.62E-03 7.63E-03 7.63E-03

1.23E+02 0.00E+00 5.36E-03 4.42E-03 5.29E-03 5.36E-03 5.36E-03 5.36E-03 5.36E-03

1.30E+02 0.00E+00 3.69E-03 3.03E-03 3.64E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03

1.38E+02 0.00E+00 2.49E-03 2.03E-03 2.45E-03 2.49E-03 2.49E-03 2.49E-03 2.49E-03

1.46E+02 0.00E+00 1.64E-03 1.33E-03 1.61E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03

1.54E+02 0.00E+00 1.05E-03 8.50E-04 1.03E-03 1.05E-03 1.05E-03 1.05E-03 1.05E-03

1.63E+02 0.00E+00 6.61E-04 5.29E-04 6.43E-04 6.60E-04 6.60E-04 6.60E-04 6.61E-04

1.73E+02 0.00E+00 4.03E-04 3.20E-04 3.91E-04 4.02E-04 4.02E-04 4.03E-04 4.03E-04

1.83E+02 0.00E+00 2.39E-04 1.88E-04 2.31E-04 2.38E-04 2.38E-04 2.38E-04 2.39E-04

1.94E+02 0.00E+00 1.37E-04 1.06E-04 1.32E-04 1.37E-04 1.37E-04 1.37E-04 1.37E-04

2.05E+02 0.00E+00 7.63E-05 5.78E-05 7.29E-05 7.62E-05 7.62E-05 7.62E-05 7.63E-05

2.17E+02 0.00E+00 4.10E-05 3.03E-05 3.88E-05 4.09E-05 4.10E-05 4.10E-05 4.10E-05

2.29E+02 0.00E+00 2.13E-05 1.53E-05 2.00E-05 2.12E-05 2.12E-05 2.12E-05 2.13E-05

2.43E+02 0.00E+00 1.06E-05 7.43E-06 9.85E-06 1.06E-05 1.06E-05 1.06E-05 1.06E-05

2.57E+02 0.00E+00 5.09E-06 3.47E-06 4.64E-06 5.08E-06 5.08E-06 5.08E-06 5.08E-06

2.72E+02 0.00E+00 2.34E-06 1.54E-06 2.09E-06 2.33E-06 2.33E-06 2.33E-06 2.33E-06

2.88E+02 0.00E+00 1.02E-06 6.57E-07 9.05E-07 1.02E-06 1.02E-06 1.02E-06 1.02E-06

3.00E+02 0.00E+00 5.42E-07 3.39E-07 4.70E-07 5.41E-07 5.41E-07 5.42E-07 5.42E-07

3.05E+02 0.00E+00 4.29E-07 2.66E-07 3.68E-07 4.28E-07 4.28E-07 4.28E-07 4.28E-07

3.22E+02 0.00E+00 1.70E-07 1.02E-07 1.42E-07 1.70E-07 1.70E-07 1.70E-07 1.70E-07

3.41E+02 0.00E+00 6.42E-08 3.74E-08 5.22E-08 6.40E-08 6.41E-08 6.41E-08 6.42E-08

3.61E+02 0.00E+00 2.28E-08 1.29E-08 1.80E-08 2.28E-08 2.28E-08 2.28E-08 2.28E-08

3.82E+02 0.00E+00 7.66E-09 4.16E-09 5.74E-09 7.63E-09 7.65E-09 7.65E-09 7.65E-09

4.04E+02 0.00E+00 2.41E-09 1.27E-09 1.73E-09 2.40E-09 2.40E-09 2.41E-09 2.41E-09

4.28E+02 0.00E+00 7.08E-10 3.59E-10 4.78E-10 7.05E-10 7.06E-10 7.07E-10 7.07E-10

4.53E+02 0.00E+00 1.94E-10 9.45E-11 1.17E-10 1.93E-10 1.93E-10 1.94E-10 1.94E-10

4.79E+02 0.00E+00 4.92E-11 2.30E-11 2.67E-11 4.90E-11 4.91E-11 4.91E-11 4.92E-11

5.07E+02 0.00E+00 1.15E-11 5.15E-12 4.50E-12 1.15E-11 1.15E-11 1.15E-11 1.15E-11

5.36E+02 0.00E+00 2.48E-12 1.06E-12 6.40E-13 2.47E-12 2.48E-12 2.48E-12 2.48E-12

5.68E+02 0.00E+00 4.91E-13 2.00E-13 4.05E-14 4.86E-13 4.89E-13 4.90E-13 4.90E-13

0.01E+02 0.00E+00 9.02E-14 3.48E-14 2.01E-15 8.80E-14 8.85E-14 8.93E-14 8.98E-14

6.36E+02 0.00E+00 1.71E-14 5.88E-15 8.11E-16 1.53E-14 1.58E-14 1.63E-14 1.67E-14

6.73E+02 0.00E+00 5.04E-15 1.33E-15 2.28E-16 3.47E-15 3.95E-15 4.49E-15 4.58E-15

7.12E+02 0.00E+00 3.24E-15 6.68E-16 8.34E-17 1.85E-15 2.44E-15 2.70E-15 2.80E-15

7.53E+02 0.00E+00 2.99E-15 5.61E-16 3.89E-17 1.59E-15 2.28E-15 2.47E-15 2.56E-15

7.97E+02 0.00E+00 2.95E-15 5.24E-16 2.94E-17 1.54E-15 2.20E-15 2.42E-15 2.51E-15

8.44E+02 0.00E+00 2.93E-15 4.98E-16 2.38E-17 1.52E-15 2.15E-15 2.39E-15 2.50E-15

93E+02 0.00E+00 2.92E-15 4.73E-16 1.94E-17 1.50E-15 2.12E-15 2.38E-15 2.49E-15

9.45E+02 0.00E+00 2.90E-15 4.52E-16 1.58E-17 1.47E-15 2.05E-15 2.37E-15 2.49E-15

1.00E+03 0.00E+00 2.88E-15 4.29E-16 1.54E-17 1.43E-15 2.01E-15 2.36E-15 2.47E-15

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS 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	2.49E+00	3.23E+00	3.22E+00	3.22E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
1.00E+00	1.37E+00	3.06E+00	3.04E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.06E+00	1.33E+00	3.05E+00	3.03E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00	3.05E+00
1.12E+00	1.28E+00	3.04E+00	3.02E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.19E+00	1.23E+00	3.03E+00	3.01E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00	3.03E+00
1.25E+00	1.18E+00	3.02E+00	3.00E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
1.33E+00	1.13E+00	3.01E+00	2.98E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.40E+00	1.08E+00	3.00E+00	2.97E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00	3.00E+00
1.49E+00	1.03E+00	2.99E+00	2.96E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
1.57E+00	9.76E-01	2.97E+00	2.94E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00	2.97E+00
1.66E+00	9.24E-01	2.96E+00	2.93E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
1.76E+00	8.72E-01	2.94E+00	2.91E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00	2.94E+00
1.86E+00	8.20E-01	2.93E+00	2.89E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
1.97E+00	7.69E-01	2.91E+00	2.88E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
2.09E+00	7.18E-01	2.90E+00	2.86E+00	2.89E+00	2.89E+00	2.90E+00	2.90E+00	2.90E+00
2.21E+00	6.68E-01	2.88E+00	2.84E+00	2.87E+00	2.88E+00	2.88E+00	2.88E+00	2.88E+00
2.24E+00	6.18E-01	2.86E+00	2.82E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00	2.86E+00
2.27E+00	5.70E-01	2.84E+00	2.80E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.26E+00	5.23E-01	2.82E+00	2.77E+00	2.81E+00	2.82E+00	2.82E+00	2.82E+00	2.82E+00
2.27E+00	4.78E-01	2.79E+00	2.75E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00	2.79E+00
2.29E+00	4.34E-01	2.77E+00	2.73E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	4.17E-01	2.76E+00	2.72E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
3.310E+00	3.92E-01	2.75E+00	2.70E+00	2.74E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.328E+00	3.52E-01	2.72E+00	2.67E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
3.48E+00	3.14E-01	2.69E+00	2.65E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.68E+00	2.78E-01	2.67E+00	2.62E+00	2.66E+00	2.66E+00	2.67E+00	2.67E+00	2.67E+00
3.89E+00	2.45E-01	2.64E+00	2.58E+00	2.63E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00
4.12E+00	2.14E-01	2.61E+00	2.55E+00	2.60E+00	2.60E+00	2.61E+00	2.61E+00	2.61E+00
4.36E+00	1.85E-01	2.57E+00	2.52E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.61E+00	1.59E-01	2.54E+00	2.48E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00	2.54E+00
4.88E+00	1.36E-01	2.50E+00	2.44E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00	2.50E+00
5.17E+00	1.15E-01	2.47E+00	2.40E+00	2.46E+00	2.47E+00	2.47E+00	2.47E+00	2.47E+00
5.47E+00	1.49E-07	2.43E+00	2.36E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
5.578E+00	0.00E+00	2.39E+00	2.32E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00	2.39E+00
6.12E+00	0.00E+00	2.35E+00	2.27E+00	2.34E+00	2.35E+00	2.35E+00	2.35E+00	2.35E+00
6.48E+00	0.00E+00	2.30E+00	2.23E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00	2.30E+00
6.86E+00	0.00E+00	2.26E+00	2.18E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00	2.26E+00
7.26E+00	0.00E+00	2.21E+00	2.13E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
7.68E+00	0.00E+00	2.17E+00	2.08E+00	2.16E+00	2.16E+00	2.16E+00	2.16E+00	2.17E+00
8.13E+00	0.00E+00	2.12E+00	2.03E+00	2.11E+00	2.11E+00	2.12E+00	2.12E+00	2.12E+00
8.60E+00	0.00E+00	2.06E+00	1.98E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00	2.06E+00
9.10E+00	0.00E+00	2.01E+00	1.92E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
9.63E+00	0.00E+00	1.96E+00	1.87E+00	1.95E+00	1.96E+00	1.96E+00	1.96E+00	1.96E+00
1.00E+01	0.00E+00	1.92E+00	1.83E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00	1.92E+00
1.02E+01	0.00E+00	1.90E+00	1.81E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00	1.90E+00
1.08E+01	0.00E+00	1.84E+00	1.75E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
1.14E+01	0.00E+00	1.78E+00	1.69E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00	1.78E+00
1.21E+01	0.00E+00	1.72E+00	1.63E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00	1.72E+00
1.28E+01	0.00E+00	1.66E+00	1.57E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00	1.66E+00
1.35E+01	0.00E+00	1.60E+00	1.51E+00	1.59E+00	1.60E+00	1.60E+00	1.60E+00	1.60E+00
1.43E+01	0.00E+00	1.53E+00	1.44E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00	1.53E+00
1.51E+01	0.00E+00	1.47E+00	1.38E+00	1.46E+00	1.47E+00	1.47E+00	1.47E+00	1.47E+00
1.60E+01	0.00E+00	1.40E+00	1.31E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
1.70E+01	0.00E+00	1.34E+00	1.25E+00	1.33E+00	1.34E+00	1.34E+00	1.34E+00	1.34E+00
1.80E+01	0.00E+00	1.27E+00	1.18E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.90E+01	0.00E+00	1.20E+00	1.12E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00

2.01E+01 0.00E+00 1.13E+00 1.05E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00 1.13E+00

2.13E+01 0.00E+00 1.07E+00 9.86E-01 1.06E+00 1.07E+00 1.07E+00 1.07E+00 1.07E+00

2.25E+01 0.00E+00 1.00E+00 9.22E-01 9.98E-01 1.00E+00 1.00E+00 1.00E+00 1.00E+00

2.38E+01 0.00E+00 9.35E-01 8.58E-01 9.32E-01 9.34E-01 9.35E-01 9.35E-01 9.35E-01

2.52E+01 0.00E+00 8.70E-01 7.96E-01 8.67E-01 8.69E-01 8.70E-01 8.70E-01 8.70E-01

2.67E+01 0.00E+00 8.06E-01 7.36E-01 8.03E-01 8.05E-01 8.06E-01 8.06E-01 8.06E-01

2.82E+01 0.00E+00 7.43E-01 6.77E-01 7.40E-01 7.43E-01 7.43E-01 7.43E-01 7.43E-01

2.99E+01 0.00E+00 6.82E-01 6.19E-01 6.79E-01 6.82E-01 6.82E-01 6.82E-01 6.82E-01

3.00E+01 0.00E+00 6.78E-01 6.15E-01 6.75E-01 6.78E-01 6.78E-01 6.78E-01 6.78E-01

3.16E+01 0.00E+00 6.23E-01 5.64E-01 6.21E-01 6.23E-01 6.23E-01 6.23E-01 6.23E-01

3.35E+01 0.00E+00 5.66E-01 5.11E-01 5.64E-01 5.66E-01 5.66E-01 5.66E-01 5.66E-01

3.54E+01 0.00E+00 5.12E-01 4.61E-01 5.09E-01 5.11E-01 5.12E-01 5.12E-01 5.12E-01

3.75E+01 0.00E+00 4.60E-01 4.12E-01 4.57E-01 4.59E-01 4.60E-01 4.60E-01 4.60E-01

3.97E+01 0.00E+00 4.10E-01 3.66E-01 4.08E-01 4.10E-01 4.10E-01 4.10E-01 4.10E-01

4.20E+01 0.00E+00 3.64E-01 3.24E-01 3.62E-01 3.64E-01 3.64E-01 3.64E-01 3.64E-01

4.44E+01 0.00E+00 3.20E-01 2.84E-01 3.19E-01 3.20E-01 3.20E-01 3.20E-01 3.20E-01

4.70E+01 0.00E+00 2.80E-01 2.48E-01 2.78E-01 2.80E-01 2.80E-01 2.80E-01 2.80E-01

4.97E+01 0.00E+00 2.43E-01 2.14E-01 2.41E-01 2.43E-01 2.43E-01 2.43E-01 2.43E-01

5.26E+01 0.00E+00 2.09E-01 1.83E-01 2.07E-01 2.09E-01 2.09E-01 2.09E-01 2.09E-01

5.57E+01 0.00E+00 1.78E-01 1.56E-01 1.77E-01 1.78E-01 1.78E-01 1.78E-01 1.78E-01

5.90E+01 0.00E+00 1.51E-01 1.31E-01 1.49E-01 1.50E-01 1.50E-01 1.50E-01 1.51E-01

6.24E+01 0.00E+00 1.26E-01 1.09E-01 1.25E-01 1.26E-01 1.26E-01 1.26E-01 1.26E-01

6.0E+01 0.00E+00 1.04E-01 9.01E-02 1.03E-01 1.04E-01 1.04E-01 1.04E-01 1.04E-01

99E+01 0.00E+00 8.53E-02 7.35E-02 8.45E-02 8.53E-02 8.53E-02 8.53E-02 8.53E-02

7.39E+01 0.00E+00 6.91E-02 5.92E-02 6.83E-02 6.90E-02 6.90E-02 6.90E-02 6.90E-02

7.82E+01 0.00E+00 5.52E-02 4.71E-02 5.46E-02 5.52E-02 5.52E-02 5.52E-02 5.52E-02

8.28E+01 0.00E+00 4.35E-02 3.70E-02 4.30E-02 4.35E-02 4.35E-02 4.35E-02 4.35E-02

8.76E+01 0.00E+00 3.39E-02 2.87E-02 3.35E-02 3.39E-02 3.39E-02 3.39E-02 3.39E-02

9.27E+01 0.00E+00 2.60E-02 2.19E-02 2.57E-02 2.60E-02 2.60E-02 2.60E-02 2.60E-02

9.81E+01 0.00E+00 1.96E-02 1.64E-02 1.94E-02 1.96E-02 1.96E-02 1.96E-02 1.96E-02

1.00E+02 0.00E+00 1.78E-02 1.49E-02 1.76E-02 1.78E-02 1.78E-02 1.78E-02 1.78E-02

1.04E+02 0.00E+00 1.46E-02 1.22E-02 1.44E-02 1.46E-02 1.46E-02 1.46E-02 1.46E-02

1.10E+02 0.00E+00 1.06E-02 8.84E-03 1.05E-02 1.06E-02 1.06E-02 1.06E-02 1.06E-02

1.16E+02 0.00E+00 7.63E-03 6.31E-03 7.51E-03 7.62E-03 7.62E-03 7.63E-03 7.63E-03

1.23E+02 0.00E+00 5.36E-03 4.41E-03 5.27E-03 5.36E-03 5.36E-03 5.36E-03 5.36E-03

1.30E+02 0.00E+00 3.69E-03 3.03E-03 3.63E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03

1.38E+02 0.00E+00 2.49E-03 2.03E-03 2.44E-03 2.49E-03 2.49E-03 2.49E-03 2.49E-03

1.46E+02 0.00E+00 1.64E-03 1.33E-03 1.61E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03 1.64E-03

1.54E+02 0.00E+00 1.05E-03 8.51E-04 1.03E-03 1.05E-03 1.05E-03 1.05E-03 1.05E-03

1.63E+02 0.00E+00 6.61E-04 5.29E-04 6.43E-04 6.60E-04 6.60E-04 6.60E-04 6.61E-04

1.73E+02 0.00E+00 4.03E-04 3.20E-04 3.91E-04 4.02E-04 4.02E-04 4.03E-04 4.03E-04

1.83E+02 0.00E+00 2.39E-04 1.88E-04 2.30E-04 2.38E-04 2.38E-04 2.39E-04

1.94E+02 0.00E+00 1.37E-04 1.06E-04 1.32E-04 1.37E-04 1.37E-04 1.37E-04 1.37E-04

2.05E+02 0.00E+00 7.63E-05 5.78E-05 7.27E-05 7.62E-05 7.62E-05 7.62E-05 7.63E-05

2.17E+02 0.00E+00 4.10E-05 3.03E-05 3.88E-05 4.09E-05 4.10E-05 4.10E-05 4.10E-05

2.29E+02 0.00E+00 2.13E-05 1.53E-05 1.99E-05 2.12E-05 2.12E-05 2.12E-05 2.13E-05

2.43E+02 0.00E+00 1.06E-05 7.40E-06 9.80E-06 1.06E-05 1.06E-05 1.06E-05 1.06E-05

2.57E+02 0.00E+00 5.09E-06 3.44E-06 4.64E-06 5.08E-06 5.08E-06 5.08E-06 5.08E-06

2.72E+02 0.00E+00 2.34E-06 1.53E-06 2.09E-06 2.33E-06 2.33E-06 2.33E-06 2.33E-06

2.88E+02 0.00E+00 1.02E-06 6.50E-07 8.99E-07 1.02E-06 1.02E-06 1.02E-06 1.02E-06

3.00E+02 0.00E+00 5.42E-07 3.36E-07 4.67E-07 5.41E-07 5.41E-07 5.41E-07 5.42E-07

3.05E+02 0.00E+00 4.29E-07 2.64E-07 3.68E-07 4.28E-07 4.28E-07 4.28E-07 4.28E-07

3.22E+02 0.00E+00 1.70E-07 1.01E-07 1.44E-07 1.70E-07 1.70E-07 1.70E-07 1.70E-07

3.41E+02 0.00E+00 6.42E-08 3.68E-08 5.25E-08 6.40E-08 6.41E-08 6.41E-08 6.42E-08

3.61E+02 0.00E+00 2.28E-08 1.27E-08 1.80E-08 2.28E-08 2.28E-08 2.28E-08 2.28E-08

3.82E+02 0.00E+00 7.66E-09 4.10E-09 5.79E-09 7.64E-09 7.64E-09 7.65E-09 7.65E-09

4.04E+02 0.00E+00 2.41E-09 1.25E-09 1.75E-09 2.40E-09 2.40E-09 2.41E-09 2.41E-09

4.28E+02 0.00E+00 7.08E-10 3.55E-10 4.64E-10 7.06E-10 7.06E-10 7.07E-10 7.07E-10

4.53E+02 0.00E+00 1.94E-10 9.37E-11 1.14E-10 1.93E-10 1.93E-10 1.94E-10 1.94E-10

4.79E+02 0.00E+00 4.92E-11 2.30E-11 2.53E-11 4.90E-11 4.91E-11 4.91E-11 4.91E-11

5.07E+02 0.00E+00 1.15E-11 5.16E-12 4.50E-12 1.15E-11 1.15E-11 1.15E-11 1.15E-11

5.36E+02 0.00E+00 2.48E-12 1.06E-12 4.38E-13 2.47E-12 2.48E-12 2.48E-12 2.48E-12

5.68E+02 0.00E+00 4.91E-13 2.00E-13 2.80E-14 4.87E-13 4.89E-13 4.89E-13 4.90E-13

0.01E+02 0.00E+00 9.01E-14 3.48E-14 2.21E-15 8.81E-14 8.85E-14 8.89E-14 8.95E-14

6.36E+02 0.00E+00 1.69E-14 5.88E-15 7.38E-16 1.53E-14 1.57E-14 1.60E-14 1.66E-14

6.73E+02 0.00E+00 4.80E-15 1.32E-15 1.96E-16 3.41E-15 3.86E-15 4.29E-15 4.45E-15

7.12E+02 0.00E+00 3.00E-15 6.54E-16 5.16E-17 1.76E-15 2.30E-15 2.49E-15 2.70E-15

7.53E+02 0.00E+00 2.76E-15 5.47E-16 3.68E-17 1.55E-15 2.10E-15 2.27E-15 2.47E-15

7.97E+02 0.00E+00 2.73E-15 5.11E-16 2.88E-17 1.50E-15 2.00E-15 2.23E-15 2.44E-15

8.44E+02 0.00E+00 2.72E-15 4.85E-16 2.33E-17 1.48E-15 1.96E-15 2.21E-15 2.42E-15

93E+02 0.00E+00 2.72E-15 4.61E-16 2.02E-17 1.44E-15 1.95E-15 2.19E-15 2.42E-15

9.45E+02 0.00E+00 2.71E-15 4.38E-16 1.83E-17 1.43E-15 1.93E-15 2.18E-15 2.41E-15

1.00E+03 0.00E+00 2.68E-15 4.16E-16 1.72E-17 1.38E-15 1.91E-15 2.17E-15 2.40E-15

Probabilistic results summary : RESRAD Default Parameters

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

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

Repetition	Time of peak mean dose		Peak mean dose
	Years	mrem/yr	
1	0.000E+00	3.216E+00	
2	0.000E+00	3.214E+00	
3	0.000E+00	3.217E+00	

Title : RESRAD Default Parameters
 Input File : FCS SOIL UNCERTAINTY ANALYSIS 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	12 0.02	11 0.02	15 -0.03	15 -0.01
Contaminated zone b parameter	8 -0.03	8 -0.03	17 0.01	17 0.01
Evapotranspiration coefficient	4 0.04	4 0.04	3 0.25	3 0.13
Wind Speed	3 0.07	3 0.07	14 0.03	14 0.02
Runoff coefficient	1 0.11	1 0.11	4 0.09	4 0.05
Well pump intake depth	17 -0.01	17 -0.01	11 -0.04	11 -0.02
b Parameter of Unsaturated zone 1	13 0.01	13 0.01	8 -0.08	8 -0.04
Mass loading for inhalation	10 -0.03	10 -0.03	12 0.03	12 0.02
Indoor dust filtration factor	18 0.00	18 0.00	18 -0.01	18 0.00
Depth of soil mixing layer	7 0.04	7 0.04	10 0.04	10 0.02
Depth of roots	2 -0.09	2 -0.09	2 -0.73	2 -0.54
Wet weight crop yield of fruit, grain and non-leafy vegetables	14 0.01	14 0.01	6 -0.08	6 -0.04
Weathering removal constant of all vegetation	9 0.03	9 0.03	13 0.03	13 0.02
Wet foliar interception fraction of leafy vegetables	5 -0.04	5 -0.04	7 -0.08	7 -0.04
Humidity in air	16 0.01	16 0.01	16 0.02	16 0.01
Kd of Eu-152 in Contaminated Zone	6 0.04	6 0.04	1 0.77	1 0.63
Kd of Eu-152 in Unsaturated Zone 1	11 0.02	12 0.02	5 0.09	5 0.04
Kd of Eu-152 in Saturated Zone	15 -0.01	15 -0.01	9 -0.05	9 -0.03

R-SQUARE	0.03	0.03	0.74	0.74
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.
 -R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS 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	17	0.01	16	0.01	7	-0.07	7	-0.04
Contaminated zone b parameter	2	-0.09	2	-0.09	4	-0.09	4	-0.05
Evapotranspiration coefficient	1	0.14	1	0.13	3	0.24	3	0.13
Wind Speed	14	-0.02	14	-0.02	9	-0.05	9	-0.03
Runoff coefficient	7	0.05	7	0.05	5	0.09	5	0.05
Well pump intake depth	3	0.07	3	0.07	13	-0.04	13	-0.02
b Parameter of Unsaturated zone 1	8	-0.04	8	-0.03	15	-0.02	15	-0.01
Mass loading for inhalation	6	-0.05	6	-0.05	11	0.05	11	0.03
Indoor dust filtration factor	11	0.02	11	0.02	8	0.06	8	0.03
Depth of soil mixing layer	5	-0.06	5	-0.06	16	0.01	16	0.01
Depth of roots	10	0.03	10	0.03	2	-0.69	2	-0.52
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.01	17	-0.01	18	-0.01	18	0.00
Weathering removal constant of all vegetation	4	-0.07	4	-0.07	6	0.07	6	0.04
Wet foliar interception fraction of leafy vegetables	13	0.02	13	0.02	10	0.05	10	0.03
Humidity in air	9	-0.03	9	-0.03	17	0.01	17	0.01
Kd of Eu-152 in Contaminated Zone	15	0.01	15	0.01	1	0.75	1	0.62
Kd of Eu-152 in Unsaturated Zone 1	18	0.00	18	0.00	12	-0.04	12	-0.02
Kd of Eu-152 in Saturated Zone	12	0.02	12	0.02	14	-0.03	14	-0.02

R-SQUARE	0.05	0.05	0.70	0.70
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.

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

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS 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	0.02	14	0.02	15	-0.01	15	0.00
Contaminated zone b parameter	10	0.04	10	0.04	9	-0.03	9	-0.02
Evapotranspiration coefficient	1	0.10	1	0.10	3	0.14	3	0.07
Wind Speed	6	-0.06	6	-0.06	12	0.02	12	0.01
Runoff coefficient	7	0.06	7	0.06	11	0.03	11	0.01
Well pump intake depth	18	0.01	18	0.01	16	0.01	16	0.00
b Parameter of Unsaturated zone 1	15	-0.01	15	-0.01	13	-0.01	13	-0.01
Mass loading for inhalation	3	-0.07	3	-0.07	8	-0.03	8	-0.02
Indoor dust filtration factor	13	-0.03	13	-0.03	4	0.09	4	0.05
Depth of soil mixing layer	5	0.06	5	0.06	18	0.00	18	0.00
Depth of roots	2	-0.09	2	-0.09	2	-0.72	2	-0.55
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	0.01	16	0.01	17	0.00	17	0.00
Weathering removal constant of all vegetation	4	-0.07	4	-0.06	5	-0.06	5	-0.03
Wet foliar interception fraction of leafy vegetables	9	-0.04	9	-0.04	10	-0.03	10	-0.02
Humidity in air	8	0.06	8	0.06	14	0.01	14	0.01
Kd of Eu-152 in Contaminated Zone	11	0.04	11	0.04	1	0.78	1	0.64
Kd of Eu-152 in Unsaturated Zone 1	12	-0.03	12	-0.03	7	-0.04	7	-0.02
Kd of Eu-152 in Saturated Zone	17	0.01	17	0.01	6	0.05	6	0.03
R-SQUARE		0.05		0.05		0.73		0.73

-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.