

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	
Ni-59											
Min	0.00E+00	4.12E-03	4.12E-03	3.94E-03	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.11E+02	1.77E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.41E-02	1.30E-02	1.29E-02	1.29E-02
Avg	1.68E+00	7.89E-03	7.87E-03	7.83E-03	7.76E-03	7.52E-03	7.07E-03	5.96E-03	3.51E-03	1.13E-03	1.13E-03
Std	1.75E+01	3.24E-03	3.23E-03	3.23E-03	3.24E-03	3.32E-03	3.39E-03	3.37E-03	3.29E-03	2.31E-03	2.31E-03
ALL											
Min	0.00E+00	4.12E-03	4.12E-03	3.94E-03	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.11E+02	1.77E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.41E-02	1.30E-02	1.29E-02	1.29E-02
Avg	1.68E+00	7.89E-03	7.87E-03	7.83E-03	7.76E-03	7.52E-03	7.07E-03	5.96E-03	3.51E-03	1.13E-03	1.13E-03
Std	1.75E+01	3.24E-03	3.23E-03	3.23E-03	3.24E-03	3.32E-03	3.39E-03	3.37E-03	3.29E-03	2.31E-03	2.31E-03

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
Ni-59									
Min		2.31E-07	2.25E-07	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.26E-07	7.26E-07	7.26E-07	7.26E-07	7.26E-07	7.65E-07	7.23E-07	7.15E-07
Avg		4.38E-07	4.36E-07	4.32E-07	4.19E-07	3.94E-07	3.31E-07	1.94E-07	6.26E-08
Std		1.80E-07	1.79E-07	1.80E-07	1.85E-07	1.88E-07	1.87E-07	1.83E-07	1.28E-07
ALL									
Min		2.31E-07	2.25E-07	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.26E-07	7.26E-07	7.26E-07	7.26E-07	7.26E-07	7.65E-07	7.23E-07	7.15E-07
Avg		4.38E-07	4.36E-07	4.32E-07	4.19E-07	3.94E-07	3.31E-07	1.94E-07	6.26E-08
Std		1.80E-07	1.79E-07	1.80E-07	1.85E-07	1.88E-07	1.87E-07	1.83E-07	1.28E-07

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/>								
Ni-59								
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.

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
Ni-59								
Min	1.03E-10	1.03E-10	1.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.28E-07	2.28E-07	2.28E-07	2.28E-07	2.27E-07	2.24E-07	2.17E-07	1.94E-07
Avg	3.67E-08	3.67E-08	3.65E-08	3.57E-08	3.40E-08	3.09E-08	2.06E-08	6.51E-09
Std	2.23E-08	2.23E-08	2.22E-08	2.23E-08	2.22E-08	2.20E-08	2.16E-08	1.50E-08
ALL								
Min	1.03E-10	1.03E-10	1.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.28E-07	2.28E-07	2.28E-07	2.28E-07	2.27E-07	2.24E-07	2.17E-07	1.94E-07
Avg	3.67E-08	3.67E-08	3.65E-08	3.57E-08	3.40E-08	3.09E-08	2.06E-08	6.51E-09
Std	2.23E-08	2.23E-08	2.22E-08	2.23E-08	2.22E-08	2.20E-08	2.16E-08	1.50E-08

ALL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Ni-59								
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
Ni-59								
Min	6.34E-04	5.88E-04	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.56E-03	2.56E-03	2.56E-03	2.56E-03	2.56E-03	2.55E-03	2.55E-03	2.52E-03
Avg	1.44E-03	1.43E-03	1.42E-03	1.37E-03	1.28E-03	1.05E-03	5.87E-04	1.85E-04
Std	6.95E-04	6.95E-04	6.97E-04	7.08E-04	7.12E-04	6.96E-04	6.43E-04	4.31E-04
ALL								
Min	6.34E-04	5.88E-04	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.56E-03	2.56E-03	2.56E-03	2.56E-03	2.56E-03	2.55E-03	2.55E-03	2.52E-03
Avg	1.44E-03	1.43E-03	1.42E-03	1.37E-03	1.28E-03	1.05E-03	5.87E-04	1.85E-04
Std	6.95E-04	6.95E-04	6.97E-04	7.08E-04	7.12E-04	6.96E-04	6.43E-04	4.31E-04

ALL is total pathway dose summed for all nuclides.



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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
Ni-59								
Min	1.66E-04	1.61E-04	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.02E-04	4.02E-04	4.02E-04	4.02E-04	4.02E-04	4.01E-04	4.00E-04	3.96E-04
Avg	2.65E-04	2.64E-04	2.62E-04	2.54E-04	2.39E-04	2.03E-04	1.22E-04	3.75E-05
Std	8.51E-05	8.51E-05	8.55E-05	8.98E-05	9.42E-05	9.79E-05	1.05E-04	7.62E-05
ALL								
Min	1.66E-04	1.61E-04	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.02E-04	4.02E-04	4.02E-04	4.02E-04	4.02E-04	4.01E-04	4.00E-04	3.96E-04
Avg	2.65E-04	2.64E-04	2.62E-04	2.54E-04	2.39E-04	2.03E-04	1.22E-04	3.75E-05
Std	8.51E-05	8.51E-05	8.55E-05	8.98E-05	9.42E-05	9.79E-05	1.05E-04	7.62E-05

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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
Ni-59								
Min	3.32E-03	3.19E-03	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	9.94E-03
Avg	6.16E-03	6.13E-03	6.07E-03	5.89E-03	5.53E-03	4.63E-03	2.68E-03	8.35E-04
Std	2.45E-03	2.45E-03	2.46E-03	2.53E-03	2.59E-03	2.59E-03	2.56E-03	1.80E-03
ALL								
Min	3.32E-03	3.19E-03	2.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	9.94E-03
Avg	6.16E-03	6.13E-03	6.07E-03	5.89E-03	5.53E-03	4.63E-03	2.68E-03	8.35E-04
Std	2.45E-03	2.45E-03	2.46E-03	2.53E-03	2.59E-03	2.59E-03	2.56E-03	1.80E-03

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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
Ni-59								
Min	2.46E-06	1.64E-06	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	2.99E-06	2.99E-06	2.97E-06
Avg	2.99E-06	2.99E-06	2.98E-06	2.90E-06	2.77E-06	2.51E-06	1.68E-06	5.01E-07
Std	1.58E-08	4.17E-08	7.78E-08	3.48E-07	5.44E-07	7.71E-07	1.17E-06	9.11E-07
ALL								
Min	2.46E-06	1.64E-06	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	2.99E-06	2.99E-06	2.97E-06
Avg	2.99E-06	2.99E-06	2.98E-06	2.90E-06	2.77E-06	2.51E-06	1.68E-06	5.01E-07
Std	1.58E-08	4.17E-08	7.78E-08	3.48E-07	5.44E-07	7.71E-07	1.17E-06	9.11E-07

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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
Ni-59								
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	4.21E-08	6.33E-07	1.11E-05	6.68E-05	1.09E-03	2.69E-03	1.98E-03	1.05E-03
Avg	6.62E-11	1.31E-09	2.04E-08	3.39E-07	3.94E-06	2.19E-05	3.59E-05	2.40E-05
Std	1.36E-09	2.27E-08	3.33E-07	3.06E-06	3.89E-05	1.51E-04	1.26E-04	7.00E-05
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	4.21E-08	6.33E-07	1.11E-05	6.68E-05	1.09E-03	2.69E-03	1.98E-03	1.05E-03
Avg	6.62E-11	1.31E-09	2.04E-08	3.39E-07	3.94E-06	2.19E-05	3.59E-05	2.40E-05
Std	1.36E-09	2.27E-08	3.33E-07	3.06E-06	3.89E-05	1.51E-04	1.26E-04	7.00E-05

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							
	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
Ni-59								
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							
	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
Ni-59								
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 NI-59.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
Ni-59								
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	4.31E-09	3.70E-08	7.14E-07	1.99E-05	3.41E-04	6.10E-04	2.19E-04	7.78E-05
Avg	4.64E-12	8.30E-11	1.60E-09	3.97E-08	5.35E-07	2.65E-06	3.36E-06	2.05E-06
Std	1.17E-10	1.41E-09	2.57E-08	5.62E-07	9.30E-06	2.47E-05	1.28E-05	5.61E-06
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	4.31E-09	3.70E-08	7.14E-07	1.99E-05	3.41E-04	6.10E-04	2.19E-04	7.78E-05
Avg	4.64E-12	8.30E-11	1.60E-09	3.97E-08	5.35E-07	2.65E-06	3.36E-06	2.05E-06
Std	1.17E-10	1.41E-09	2.57E-08	5.62E-07	9.30E-06	2.47E-05	1.28E-05	5.61E-06

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 NI-59.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
Ni-59								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.81E-09	4.50E-08	1.04E-06	7.80E-06	1.47E-04	2.93E-04	1.63E-04	9.06E-05
Avg	3.84E-12	1.02E-10	1.88E-09	3.45E-08	4.24E-07	2.31E-06	3.58E-06	2.35E-06
Std	8.28E-11	1.74E-09	3.15E-08	3.29E-07	4.73E-06	1.64E-05	1.23E-05	6.61E-06
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.81E-09	4.50E-08	1.04E-06	7.80E-06	1.47E-04	2.93E-04	1.63E-04	9.06E-05
Avg	3.84E-12	1.02E-10	1.88E-09	3.45E-08	4.24E-07	2.31E-06	3.58E-06	2.35E-06
Std	8.28E-11	1.74E-09	3.15E-08	3.29E-07	4.73E-06	1.64E-05	1.23E-05	6.61E-06

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 NI-59.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
Ni-59								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	6.36E-08	8.28E-07	2.13E-05	1.78E-04	3.24E-03	6.20E-03	2.90E-03	1.69E-03
Avg	8.84E-11	2.05E-09	3.82E-08	7.04E-07	8.68E-06	4.67E-05	7.06E-05	4.60E-05
Std	1.89E-09	3.42E-08	6.46E-07	6.96E-06	1.02E-04	3.38E-04	2.40E-04	1.28E-04
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	6.36E-08	8.28E-07	2.13E-05	1.78E-04	3.24E-03	6.20E-03	2.90E-03	1.69E-03
Avg	8.84E-11	2.05E-09	3.82E-08	7.04E-07	8.68E-06	4.67E-05	7.06E-05	4.60E-05
Std	1.89E-09	3.42E-08	6.46E-07	6.96E-06	1.02E-04	3.38E-04	2.40E-04	1.28E-04

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	4.22E-03	4.21E-03	4.14E-03	3.45E-03	7.71E-05	3.65E-08	0.00E+00	0.00E+00
0.050	4.29E-03	4.27E-03	4.22E-03	4.07E-03	3.03E-03	4.04E-04	2.65E-08	0.00E+00
0.075	4.36E-03	4.35E-03	4.28E-03	4.17E-03	3.77E-03	1.86E-03	2.95E-07	0.00E+00
0.100	4.45E-03	4.43E-03	4.36E-03	4.24E-03	3.94E-03	2.64E-03	1.69E-06	0.00E+00
0.125	4.53E-03	4.51E-03	4.45E-03	4.30E-03	4.05E-03	2.96E-03	4.74E-06	1.42E-27
0.150	4.63E-03	4.59E-03	4.53E-03	4.39E-03	4.14E-03	3.16E-03	1.28E-05	3.87E-08
0.175	4.72E-03	4.69E-03	4.62E-03	4.49E-03	4.20E-03	3.33E-03	4.42E-05	1.29E-07
0.200	4.82E-03	4.78E-03	4.71E-03	4.58E-03	4.30E-03	3.51E-03	1.44E-04	2.94E-07
0.225	4.92E-03	4.89E-03	4.81E-03	4.67E-03	4.41E-03	3.66E-03	3.62E-04	6.28E-07
0.250	5.03E-03	4.99E-03	4.92E-03	4.78E-03	4.50E-03	3.77E-03	5.84E-04	9.63E-07
0.275	5.15E-03	5.11E-03	5.05E-03	4.92E-03	4.61E-03	3.88E-03	8.77E-04	1.63E-06
0.300	5.28E-03	5.25E-03	5.17E-03	5.04E-03	4.73E-03	4.00E-03	1.17E-03	2.51E-06
0.325	5.42E-03	5.38E-03	5.31E-03	5.17E-03	4.86E-03	4.12E-03	1.42E-03	3.45E-06
0.350	5.56E-03	5.53E-03	5.46E-03	5.30E-03	4.97E-03	4.23E-03	1.67E-03	4.71E-06
0.375	5.72E-03	5.68E-03	5.59E-03	5.43E-03	5.13E-03	4.34E-03	1.93E-03	6.37E-06
0.400	5.87E-03	5.84E-03	5.77E-03	5.60E-03	5.27E-03	4.48E-03	2.13E-03	8.42E-06
0.425	6.06E-03	6.03E-03	5.96E-03	5.78E-03	5.47E-03	4.61E-03	2.39E-03	1.06E-05
0.450	6.26E-03	6.22E-03	6.13E-03	5.97E-03	5.64E-03	4.75E-03	2.58E-03	1.68E-05
0.475	6.47E-03	6.42E-03	6.31E-03	6.15E-03	5.83E-03	4.89E-03	2.75E-03	2.07E-05
0.500	6.70E-03	6.62E-03	6.55E-03	6.38E-03	6.02E-03	5.04E-03	2.92E-03	2.77E-05
0.525	6.94E-03	6.87E-03	6.80E-03	6.62E-03	6.25E-03	5.21E-03	3.15E-03	3.69E-05
0.550	7.19E-03	7.15E-03	7.09E-03	6.88E-03	6.46E-03	5.39E-03	3.33E-03	4.92E-05
0.575	7.52E-03	7.46E-03	7.41E-03	7.24E-03	6.80E-03	5.62E-03	3.51E-03	6.97E-05
0.600	7.83E-03	7.79E-03	7.72E-03	7.54E-03	7.09E-03	5.77E-03	3.67E-03	9.52E-05
0.625	8.20E-03	8.18E-03	8.07E-03	7.82E-03	7.37E-03	6.12E-03	3.82E-03	1.49E-04
0.650	8.64E-03	8.59E-03	8.54E-03	8.31E-03	7.72E-03	6.46E-03	4.01E-03	2.09E-04
0.675	9.09E-03	9.03E-03	8.97E-03	8.76E-03	8.23E-03	6.81E-03	4.30E-03	3.15E-04
0.700	9.60E-03	9.55E-03	9.49E-03	9.23E-03	8.71E-03	7.16E-03	4.55E-03	4.63E-04
0.725	1.02E-02	1.01E-02	9.99E-03	9.78E-03	9.14E-03	7.54E-03	4.75E-03	6.85E-04
0.750	1.09E-02	1.08E-02	1.07E-02	1.03E-02	9.65E-03	7.98E-03	5.06E-03	9.63E-04
0.775	1.16E-02	1.15E-02	1.14E-02	1.10E-02	1.02E-02	8.42E-03	5.30E-03	1.33E-03
0.800	1.26E-02	1.25E-02	1.24E-02	1.18E-02	1.10E-02	8.95E-03	5.74E-03	1.75E-03
0.825	1.30E-02	1.30E-02	1.28E-02	1.24E-02	1.16E-02	9.54E-03	6.12E-03	2.31E-03
0.850	1.31E-02	1.30E-02	1.30E-02	1.28E-02	1.23E-02	1.03E-02	6.84E-03	2.90E-03
0.875	1.31E-02	1.30E-02	1.30E-02	1.29E-02	1.26E-02	1.11E-02	7.58E-03	3.57E-03
0.900	1.31E-02	1.31E-02	1.30E-02	1.30E-02	1.27E-02	1.18E-02	8.50E-03	4.22E-03
0.925	1.31E-02	1.31E-02	1.30E-02	1.30E-02	1.29E-02	1.24E-02	9.32E-03	4.68E-03
0.950	1.31E-02	1.31E-02	1.31E-02	1.30E-02	1.30E-02	1.27E-02	1.09E-02	6.61E-03
0.975	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.30E-02	1.30E-02	1.24E-02	8.46E-03
1.000	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.41E-02	1.30E-02	1.29E-02

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	4.15E-03	1.31E-02	7.87E-03	6.70E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.00E+00	4.11E-03	1.31E-02	7.83E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.06E+00	4.11E-03	1.31E-02	7.83E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.12E+00	4.11E-03	1.31E-02	7.83E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.19E+00	4.10E-03	1.31E-02	7.83E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.25E+00	4.10E-03	1.31E-02	7.83E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.33E+00	4.10E-03	1.31E-02	7.82E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.40E+00	4.09E-03	1.31E-02	7.82E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.49E+00	4.09E-03	1.31E-02	7.82E-03	6.59E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.57E+00	4.09E-03	1.31E-02	7.82E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.66E+00	4.08E-03	1.31E-02	7.81E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.76E+00	4.08E-03	1.31E-02	7.81E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.86E+00	4.05E-03	1.31E-02	7.81E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.97E+00	4.01E-03	1.31E-02	7.80E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.09E+00	3.96E-03	1.31E-02	7.80E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.21E+00	3.91E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.24E+00	3.85E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.27E+00	3.79E-03	1.31E-02	7.78E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.62E+00	3.73E-03	1.31E-02	7.78E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.77E+00	3.67E-03	1.31E-02	7.77E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.93E+00	3.60E-03	1.31E-02	7.77E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.00E+00	3.56E-03	1.31E-02	7.77E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.10E+00	3.45E-03	1.31E-02	7.76E-03	6.56E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.28E+00	3.27E-03	1.31E-02	7.76E-03	6.56E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.48E+00	3.06E-03	1.31E-02	7.75E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.68E+00	2.81E-03	1.31E-02	7.74E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.89E+00	2.51E-03	1.31E-02	7.74E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.12E+00	2.15E-03	1.31E-02	7.73E-03	6.53E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.36E+00	1.71E-03	1.31E-02	7.72E-03	6.53E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.61E+00	1.22E-03	1.31E-02	7.71E-03	6.52E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.88E+00	7.25E-04	1.31E-02	7.70E-03	6.51E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.17E+00	3.32E-04	1.31E-02	7.69E-03	6.51E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.47E+00	8.59E-05	1.31E-02	7.68E-03	6.50E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.78E+00	1.09E-05	1.31E-02	7.67E-03	6.50E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
6.12E+00	1.08E-05	1.31E-02	7.66E-03	6.49E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
6.48E+00	0.00E+00	1.31E-02	7.65E-03	6.49E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
6.86E+00	0.00E+00	1.31E-02	7.64E-03	6.49E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
7.26E+00	0.00E+00	1.31E-02	7.62E-03	6.48E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
7.68E+00	0.00E+00	1.31E-02	7.61E-03	6.48E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
8.13E+00	0.00E+00	1.31E-02	7.60E-03	6.47E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
8.60E+00	0.00E+00	1.31E-02	7.58E-03	6.46E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.10E+00	0.00E+00	1.31E-02	7.57E-03	6.45E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.63E+00	0.00E+00	1.31E-02	7.55E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.00E+01	0.00E+00	1.31E-02	7.54E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.02E+01	0.00E+00	1.31E-02	7.53E-03	6.43E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.08E+01	0.00E+00	1.31E-02	7.52E-03	6.42E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.14E+01	0.00E+00	1.31E-02	7.50E-03	6.41E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.21E+01	0.00E+00	1.31E-02	7.49E-03	6.40E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.28E+01	0.00E+00	1.31E-02	7.47E-03	6.37E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.35E+01	0.00E+00	1.31E-02	7.45E-03	6.36E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.43E+01	0.00E+00	1.31E-02	7.43E-03	6.35E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.51E+01	0.00E+00	1.31E-02	7.40E-03	6.34E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.60E+01	0.00E+00	1.31E-02	7.38E-03	6.32E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.70E+01	0.00E+00	1.31E-02	7.36E-03	6.29E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.80E+01	0.00E+00	1.31E-02	7.34E-03	6.27E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.90E+01	0.00E+00	1.31E-02	7.32E-03	6.25E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02

2.01E+01 0.00E+00 1.31E-02 7.29E-03 6.23E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02

2.13E+01 0.00E+00 1.31E-02 7.27E-03 6.20E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02

2.25E+01 0.00E+00 1.31E-02 7.24E-03 6.17E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02

2.38E+01 0.00E+00 1.31E-02 7.22E-03 6.16E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02

2.52E+01 0.00E+00 1.31E-02 7.19E-03 6.13E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02



2.67E+01 0.00E+00 1.31E-02 7.16E-03 6.10E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.82E+01 0.00E+00 1.31E-02 7.13E-03 6.08E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.99E+01 0.00E+00 1.31E-02 7.10E-03 6.05E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.00E+01 0.00E+00 1.31E-02 7.09E-03 6.05E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.16E+01 0.00E+00 1.31E-02 7.06E-03 6.03E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.35E+01 0.00E+00 1.31E-02 7.03E-03 6.01E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.54E+01 0.00E+00 1.31E-02 6.99E-03 5.99E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.75E+01 0.00E+00 1.34E-02 6.95E-03 5.97E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02



3.97E+01 0.00E+00 1.36E-02 6.91E-03 5.92E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

4.20E+01 0.00E+00 1.39E-02 6.86E-03 5.85E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

4.44E+01 0.00E+00 1.42E-02 6.82E-03 5.83E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

4.70E+01 0.00E+00 1.45E-02 6.77E-03 5.79E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

4.97E+01 0.00E+00 1.48E-02 6.72E-03 5.71E-03 1.26E-02 1.30E-02 1.30E-02 1.30E-02

5.26E+01 0.00E+00 1.51E-02 6.67E-03 5.68E-03 1.25E-02 1.30E-02 1.30E-02 1.30E-02

5.7E+01 0.00E+00 1.55E-02 6.62E-03 5.65E-03 1.24E-02 1.30E-02 1.30E-02 1.30E-02

90E+01 0.00E+00 1.54E-02 6.57E-03 5.60E-03 1.24E-02 1.30E-02 1.30E-02 1.30E-02



6.24E+01 0.00E+00 1.53E-02 6.51E-03 5.55E-03 1.23E-02 1.29E-02 1.30E-02 1.30E-02

60E+01 0.00E+00 1.51E-02 6.45E-03 5.51E-03 1.23E-02 1.29E-02 1.30E-02 1.30E-02

99E+01 0.00E+00 1.50E-02 6.39E-03 5.46E-03 1.22E-02 1.29E-02 1.30E-02 1.30E-02

7.39E+01 0.00E+00 1.49E-02 6.32E-03 5.40E-03 1.22E-02 1.29E-02 1.30E-02 1.30E-02

7.82E+01 0.00E+00 1.47E-02 6.25E-03 5.35E-03 1.21E-02 1.29E-02 1.30E-02 1.30E-02

8.28E+01 0.00E+00 1.46E-02 6.19E-03 5.28E-03 1.21E-02 1.29E-02 1.30E-02 1.30E-02

8.76E+01 0.00E+00 1.45E-02 6.11E-03 5.20E-03 1.20E-02 1.29E-02 1.30E-02 1.30E-02

9.27E+01 0.00E+00 1.43E-02 6.04E-03 5.13E-03 1.20E-02 1.28E-02 1.30E-02 1.30E-02



9.81E+01 0.00E+00 1.41E-02 5.96E-03 5.05E-03 1.19E-02 1.28E-02 1.30E-02 1.30E-02

1.00E+02 0.00E+00 1.41E-02 5.94E-03 4.99E-03 1.19E-02 1.28E-02 1.30E-02 1.30E-02

1.04E+02 0.00E+00 1.39E-02 5.88E-03 4.95E-03 1.19E-02 1.28E-02 1.30E-02 1.30E-02

1.10E+02 0.00E+00 1.38E-02 5.80E-03 4.83E-03 1.17E-02 1.27E-02 1.30E-02 1.30E-02

1.16E+02 0.00E+00 1.36E-02 5.71E-03 4.75E-03 1.17E-02 1.27E-02 1.30E-02 1.30E-02

1.23E+02 0.00E+00 1.34E-02 5.62E-03 4.69E-03 1.16E-02 1.27E-02 1.30E-02 1.30E-02

1.30E+02 0.00E+00 1.38E-02 5.52E-03 4.60E-03 1.15E-02 1.26E-02 1.29E-02 1.30E-02

1.38E+02 0.00E+00 1.46E-02 5.42E-03 4.54E-03 1.13E-02 1.25E-02 1.29E-02 1.30E-02



1.46E+02 0.00E+00 1.54E-02 5.31E-03 4.42E-03 1.11E-02 1.24E-02 1.29E-02 1.30E-02

1.54E+02 0.00E+00 1.61E-02 5.20E-03 4.35E-03 1.08E-02 1.23E-02 1.29E-02 1.30E-02

1.63E+02 0.00E+00 1.67E-02 5.07E-03 4.26E-03 1.06E-02 1.22E-02 1.29E-02 1.30E-02

1.73E+02 0.00E+00 1.73E-02 4.94E-03 4.21E-03 1.04E-02 1.22E-02 1.29E-02 1.30E-02

1.83E+02 0.00E+00 1.69E-02 4.80E-03 4.14E-03 1.03E-02 1.20E-02 1.29E-02 1.30E-02

1.94E+02 0.00E+00 1.45E-02 4.65E-03 3.98E-03 1.02E-02 1.19E-02 1.29E-02 1.30E-02

2.05E+02 0.00E+00 1.30E-02 4.48E-03 3.81E-03 1.01E-02 1.19E-02 1.28E-02 1.30E-02

2.17E+02 0.00E+00 1.30E-02 4.32E-03 3.78E-03 9.95E-03 1.16E-02 1.27E-02 1.30E-02



2.29E+02 0.00E+00 1.30E-02 4.16E-03 3.60E-03 9.63E-03 1.15E-02 1.27E-02 1.29E-02

2.43E+02 0.00E+00 1.30E-02 4.00E-03 3.43E-03 9.34E-03 1.13E-02 1.27E-02 1.29E-02

2.57E+02 0.00E+00 1.30E-02 3.85E-03 3.27E-03 9.25E-03 1.12E-02 1.26E-02 1.29E-02

2.72E+02 0.00E+00 1.30E-02 3.70E-03 3.08E-03 8.90E-03 1.12E-02 1.26E-02 1.29E-02

2.88E+02 0.00E+00 1.29E-02 3.56E-03 2.90E-03 8.75E-03 1.09E-02 1.26E-02 1.29E-02

3.00E+02 0.00E+00 1.29E-02 3.45E-03 2.82E-03 8.59E-03 1.06E-02 1.24E-02 1.29E-02

3.05E+02 0.00E+00 1.29E-02 3.41E-03 2.74E-03 8.54E-03 1.05E-02 1.24E-02 1.29E-02

3.22E+02 0.00E+00 1.29E-02 3.27E-03 2.47E-03 8.33E-03 1.03E-02 1.20E-02 1.28E-02



3.41E+02 0.00E+00 1.29E-02 3.13E-03 2.30E-03 8.04E-03 1.02E-02 1.17E-02 1.28E-02

3.61E+02 0.00E+00 1.29E-02 2.99E-03 2.12E-03 7.94E-03 1.02E-02 1.16E-02 1.27E-02

3.82E+02 0.00E+00 1.29E-02 2.85E-03 1.96E-03 7.76E-03 9.83E-03 1.14E-02 1.27E-02

4.04E+02 0.00E+00 1.29E-02 2.73E-03 1.73E-03 7.74E-03 9.75E-03 1.13E-02 1.27E-02

4.28E+02 0.00E+00 1.29E-02 2.61E-03 1.56E-03 7.67E-03 9.57E-03 1.12E-02 1.27E-02

4.53E+02 0.00E+00 1.29E-02 2.49E-03 1.32E-03 7.32E-03 9.27E-03 1.10E-02 1.27E-02

4.79E+02 0.00E+00 1.29E-02 2.37E-03 1.06E-03 6.79E-03 9.20E-03 1.09E-02 1.26E-02

5.07E+02 0.00E+00 1.29E-02 2.26E-03 8.32E-04 6.74E-03 9.04E-03 1.09E-02 1.26E-02



5.36E+02 0.00E+00 1.29E-02 2.15E-03 6.44E-04 6.53E-03 8.85E-03 1.06E-02 1.26E-02

5.68E+02 0.00E+00 1.28E-02 2.05E-03 5.00E-04 6.09E-03 8.66E-03 1.05E-02 1.26E-02

0.01E+02 0.00E+00 1.28E-02 1.96E-03 3.37E-04 5.59E-03 8.57E-03 1.03E-02 1.25E-02

6.36E+02 0.00E+00 1.28E-02 1.87E-03 2.19E-04 5.43E-03 8.48E-03 1.02E-02 1.25E-02

6.73E+02 0.00E+00 1.28E-02 1.77E-03 1.75E-04 5.14E-03 8.44E-03 1.01E-02 1.25E-02

7.12E+02 0.00E+00 1.28E-02 1.69E-03 1.14E-04 5.12E-03 8.29E-03 1.00E-02 1.24E-02

7.53E+02 0.00E+00 1.28E-02 1.60E-03 8.01E-05 4.91E-03 8.27E-03 9.93E-03 1.24E-02

7.97E+02 0.00E+00 1.28E-02 1.52E-03 6.91E-05 4.81E-03 8.16E-03 9.83E-03 1.22E-02



8.44E+02 0.00E+00 1.27E-02 1.44E-03 3.64E-05 4.72E-03 8.03E-03 9.80E-03 1.22E-02

9.93E+02 0.00E+00 1.27E-02 1.36E-03 3.18E-05 4.67E-03 7.83E-03 9.53E-03 1.21E-02

9.45E+02 0.00E+00 1.27E-02 1.29E-03 2.74E-05 4.52E-03 7.52E-03 9.50E-03 1.21E-02

1.00E+03 0.00E+00 1.27E-02 1.22E-03 2.36E-05 4.50E-03 7.43E-03 9.47E-03 1.20E-02

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Probabilistic results summary : RESRAD Default Parameters

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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	4.12E-03	1.31E-02	7.87E-03	6.71E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.00E+00	3.99E-03	1.31E-02	7.82E-03	6.63E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.06E+00	3.98E-03	1.31E-02	7.82E-03	6.63E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.12E+00	3.98E-03	1.31E-02	7.82E-03	6.63E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.19E+00	3.97E-03	1.31E-02	7.81E-03	6.63E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.25E+00	3.96E-03	1.31E-02	7.81E-03	6.63E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.33E+00	3.95E-03	1.31E-02	7.81E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.40E+00	3.94E-03	1.31E-02	7.80E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.49E+00	3.93E-03	1.31E-02	7.80E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.57E+00	3.92E-03	1.31E-02	7.80E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.66E+00	3.91E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.76E+00	3.90E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.86E+00	3.88E-03	1.31E-02	7.78E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.97E+00	3.87E-03	1.31E-02	7.78E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.09E+00	3.77E-03	1.31E-02	7.78E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.21E+00	3.66E-03	1.31E-02	7.77E-03	6.57E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.24E+00	3.54E-03	1.31E-02	7.76E-03	6.56E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.47E+00	3.41E-03	1.31E-02	7.76E-03	6.56E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.62E+00	3.27E-03	1.31E-02	7.75E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.77E+00	3.11E-03	1.31E-02	7.75E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.93E+00	2.92E-03	1.31E-02	7.74E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.00E+00	2.84E-03	1.31E-02	7.74E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.10E+00	2.71E-03	1.31E-02	7.73E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.28E+00	2.46E-03	1.31E-02	7.73E-03	6.53E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.48E+00	2.17E-03	1.31E-02	7.72E-03	6.52E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.68E+00	1.85E-03	1.31E-02	7.71E-03	6.52E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.89E+00	1.52E-03	1.31E-02	7.70E-03	6.51E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.12E+00	1.16E-03	1.31E-02	7.69E-03	6.49E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.36E+00	7.92E-04	1.31E-02	7.68E-03	6.48E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
4.61E+00	4.44E-04	1.31E-02	7.67E-03	6.47E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
4.88E+00	1.85E-04	1.31E-02	7.66E-03	6.47E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
5.17E+00	3.41E-05	1.31E-02	7.65E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
5.47E+00	8.89E-09	1.31E-02	7.64E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
5.78E+00	0.00E+00	1.31E-02	7.63E-03	6.43E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
6.12E+00	0.00E+00	1.31E-02	7.61E-03	6.42E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
6.48E+00	0.00E+00	1.31E-02	7.60E-03	6.42E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
6.86E+00	0.00E+00	1.31E-02	7.59E-03	6.41E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
7.26E+00	0.00E+00	1.31E-02	7.57E-03	6.41E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
7.68E+00	0.00E+00	1.31E-02	7.56E-03	6.40E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
8.13E+00	0.00E+00	1.31E-02	7.55E-03	6.39E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
8.60E+00	0.00E+00	1.31E-02	7.53E-03	6.38E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.10E+00	0.00E+00	1.31E-02	7.52E-03	6.36E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.63E+00	0.00E+00	1.31E-02	7.50E-03	6.36E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.00E+01	0.00E+00	1.31E-02	7.49E-03	6.35E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.02E+01	0.00E+00	1.31E-02	7.49E-03	6.35E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.08E+01	0.00E+00	1.31E-02	7.47E-03	6.34E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.14E+01	0.00E+00	1.31E-02	7.45E-03	6.31E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.21E+01	0.00E+00	1.31E-02	7.44E-03	6.30E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.28E+01	0.00E+00	1.31E-02	7.42E-03	6.29E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.35E+01	0.00E+00	1.31E-02	7.40E-03	6.27E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.43E+01	0.00E+00	1.31E-02	7.38E-03	6.25E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.51E+01	0.00E+00	1.31E-02	7.36E-03	6.24E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.60E+01	0.00E+00	1.31E-02	7.34E-03	6.21E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.70E+01	0.00E+00	1.31E-02	7.32E-03	6.20E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.80E+01	0.00E+00	1.31E-02	7.29E-03	6.15E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.90E+01	0.00E+00	1.31E-02	7.27E-03	6.14E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02

2.01E+01 0.00E+00 1.31E-02 7.25E-03 6.13E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02



2.13E+01 0.00E+00 1.31E-02 7.22E-03 6.11E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.25E+01 0.00E+00 1.31E-02 7.19E-03 6.09E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.38E+01 0.00E+00 1.31E-02 7.17E-03 6.08E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.52E+01 0.00E+00 1.31E-02 7.14E-03 6.07E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.67E+01 0.00E+00 1.31E-02 7.11E-03 6.05E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.82E+01 0.00E+00 1.31E-02 7.08E-03 6.02E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.99E+01 0.00E+00 1.31E-02 7.05E-03 6.00E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

3.00E+01 0.00E+00 1.31E-02 7.05E-03 6.00E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02



3.16E+01 0.00E+00 1.31E-02 7.02E-03 5.95E-03 1.27E-02 1.29E-02 1.30E-02 1.30E-02

3.35E+01 0.00E+00 1.31E-02 6.98E-03 5.92E-03 1.27E-02 1.29E-02 1.30E-02 1.30E-02

3.54E+01 0.00E+00 1.31E-02 6.95E-03 5.90E-03 1.27E-02 1.29E-02 1.30E-02 1.30E-02

3.75E+01 0.00E+00 1.31E-02 6.91E-03 5.86E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

3.97E+01 0.00E+00 1.31E-02 6.87E-03 5.83E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

4.20E+01 0.00E+00 1.31E-02 6.83E-03 5.80E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

4.44E+01 0.00E+00 1.31E-02 6.79E-03 5.75E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02

4.70E+01 0.00E+00 1.31E-02 6.74E-03 5.70E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02



4.97E+01 0.00E+00 1.31E-02 6.70E-03 5.67E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02

5.26E+01 0.00E+00 1.32E-02 6.65E-03 5.62E-03 1.24E-02 1.29E-02 1.30E-02 1.30E-02

5.7E+01 0.00E+00 1.34E-02 6.60E-03 5.58E-03 1.24E-02 1.28E-02 1.30E-02 1.30E-02

5.90E+01 0.00E+00 1.37E-02 6.55E-03 5.55E-03 1.24E-02 1.28E-02 1.30E-02 1.30E-02

6.24E+01 0.00E+00 1.39E-02 6.49E-03 5.49E-03 1.23E-02 1.28E-02 1.30E-02 1.30E-02

60E+01 0.00E+00 1.42E-02 6.44E-03 5.47E-03 1.23E-02 1.28E-02 1.30E-02 1.30E-02

99E+01 0.00E+00 1.44E-02 6.38E-03 5.44E-03 1.23E-02 1.28E-02 1.30E-02 1.30E-02

7.39E+01 0.00E+00 1.47E-02 6.32E-03 5.35E-03 1.22E-02 1.28E-02 1.30E-02 1.30E-02



7.82E+01 0.00E+00 1.49E-02 6.26E-03 5.26E-03 1.21E-02 1.28E-02 1.30E-02 1.30E-02

8.28E+01 0.00E+00 1.40E-02 6.19E-03 5.18E-03 1.21E-02 1.27E-02 1.30E-02 1.30E-02

8.76E+01 0.00E+00 1.31E-02 6.12E-03 5.16E-03 1.20E-02 1.27E-02 1.30E-02 1.30E-02

9.27E+01 0.00E+00 1.31E-02 6.05E-03 5.08E-03 1.19E-02 1.27E-02 1.30E-02 1.30E-02

9.81E+01 0.00E+00 1.30E-02 5.98E-03 5.04E-03 1.17E-02 1.27E-02 1.29E-02 1.30E-02

1.00E+02 0.00E+00 1.30E-02 5.95E-03 5.00E-03 1.17E-02 1.27E-02 1.29E-02 1.30E-02

1.04E+02 0.00E+00 1.30E-02 5.90E-03 4.97E-03 1.17E-02 1.26E-02 1.29E-02 1.30E-02

1.10E+02 0.00E+00 1.30E-02 5.82E-03 4.89E-03 1.17E-02 1.26E-02 1.29E-02 1.30E-02



1.16E+02 0.00E+00 1.30E-02 5.73E-03 4.80E-03 1.16E-02 1.26E-02 1.29E-02 1.30E-02

1.23E+02 0.00E+00 1.30E-02 5.65E-03 4.74E-03 1.13E-02 1.26E-02 1.29E-02 1.30E-02

1.30E+02 0.00E+00 1.30E-02 5.55E-03 4.68E-03 1.12E-02 1.25E-02 1.29E-02 1.30E-02

1.38E+02 0.00E+00 1.30E-02 5.45E-03 4.64E-03 1.11E-02 1.25E-02 1.29E-02 1.30E-02

1.46E+02 0.00E+00 1.30E-02 5.35E-03 4.56E-03 1.10E-02 1.25E-02 1.28E-02 1.30E-02

1.54E+02 0.00E+00 1.30E-02 5.24E-03 4.48E-03 1.08E-02 1.23E-02 1.28E-02 1.30E-02

1.63E+02 0.00E+00 1.30E-02 5.12E-03 4.38E-03 1.06E-02 1.23E-02 1.28E-02 1.30E-02

1.73E+02 0.00E+00 1.30E-02 5.00E-03 4.29E-03 1.03E-02 1.22E-02 1.28E-02 1.30E-02



1.83E+02 0.00E+00 1.30E-02 4.86E-03 4.20E-03 1.01E-02 1.21E-02 1.28E-02 1.30E-02

1.94E+02 0.00E+00 1.30E-02 4.72E-03 4.12E-03 9.87E-03 1.20E-02 1.27E-02 1.30E-02

2.05E+02 0.00E+00 1.30E-02 4.57E-03 3.98E-03 9.72E-03 1.20E-02 1.27E-02 1.29E-02

2.17E+02 0.00E+00 1.30E-02 4.41E-03 3.81E-03 9.47E-03 1.19E-02 1.26E-02 1.29E-02

2.29E+02 0.00E+00 1.30E-02 4.25E-03 3.67E-03 9.21E-03 1.18E-02 1.25E-02 1.29E-02

2.43E+02 0.00E+00 1.30E-02 4.09E-03 3.56E-03 9.07E-03 1.18E-02 1.25E-02 1.29E-02

2.57E+02 0.00E+00 1.30E-02 3.93E-03 3.41E-03 8.82E-03 1.16E-02 1.25E-02 1.29E-02

2.72E+02 0.00E+00 1.30E-02 3.77E-03 3.28E-03 8.61E-03 1.15E-02 1.25E-02 1.29E-02



2.88E+02 0.00E+00 1.30E-02 3.62E-03 3.11E-03 8.22E-03 1.09E-02 1.23E-02 1.29E-02

3.00E+02 0.00E+00 1.30E-02 3.52E-03 2.99E-03 8.17E-03 1.07E-02 1.23E-02 1.29E-02

3.05E+02 0.00E+00 1.30E-02 3.48E-03 2.95E-03 8.17E-03 1.07E-02 1.23E-02 1.29E-02

3.22E+02 0.00E+00 1.30E-02 3.34E-03 2.75E-03 8.07E-03 1.06E-02 1.22E-02 1.28E-02

3.41E+02 0.00E+00 1.30E-02 3.19E-03 2.60E-03 7.78E-03 1.05E-02 1.22E-02 1.28E-02

3.61E+02 0.00E+00 1.29E-02 3.05E-03 2.46E-03 7.69E-03 1.02E-02 1.20E-02 1.28E-02

3.82E+02 0.00E+00 1.29E-02 2.91E-03 2.30E-03 7.46E-03 9.81E-03 1.19E-02 1.28E-02

4.04E+02 0.00E+00 1.29E-02 2.78E-03 2.03E-03 7.27E-03 9.26E-03 1.18E-02 1.28E-02



4.28E+02 0.00E+00 1.29E-02 2.65E-03 1.87E-03 7.08E-03 9.08E-03 1.17E-02 1.27E-02

4.53E+02 0.00E+00 1.29E-02 2.52E-03 1.74E-03 6.83E-03 8.89E-03 1.16E-02 1.27E-02

4.79E+02 0.00E+00 1.29E-02 2.40E-03 1.43E-03 6.56E-03 8.78E-03 1.16E-02 1.27E-02

5.07E+02 0.00E+00 1.29E-02 2.28E-03 1.20E-03 6.16E-03 8.75E-03 1.15E-02 1.27E-02

5.36E+02 0.00E+00 1.29E-02 2.16E-03 8.62E-04 6.00E-03 8.72E-03 1.14E-02 1.27E-02

5.68E+02 0.00E+00 1.29E-02 2.04E-03 5.39E-04 5.83E-03 8.33E-03 1.13E-02 1.25E-02

0.01E+02 0.00E+00 1.29E-02 1.94E-03 4.23E-04 5.55E-03 8.28E-03 1.12E-02 1.23E-02

6.36E+02 0.00E+00 1.29E-02 1.83E-03 2.58E-04 5.42E-03 8.05E-03 1.09E-02 1.22E-02



6.73E+02 0.00E+00 1.28E-02 1.73E-03 1.84E-04 5.16E-03 7.91E-03 1.07E-02 1.22E-02

7.12E+02 0.00E+00 1.28E-02 1.63E-03 1.35E-04 5.02E-03 7.60E-03 1.05E-02 1.22E-02

7.53E+02 0.00E+00 1.28E-02 1.54E-03 1.21E-04 4.92E-03 7.44E-03 1.03E-02 1.21E-02

7.97E+02 0.00E+00 1.28E-02 1.44E-03 8.57E-05 4.71E-03 7.21E-03 9.98E-03 1.20E-02

8.44E+02 0.00E+00 1.28E-02 1.35E-03 5.88E-05 4.57E-03 6.89E-03 9.65E-03 1.20E-02

9.93E+02 0.00E+00 1.28E-02 1.27E-03 4.05E-05 4.46E-03 6.80E-03 9.09E-03 1.19E-02

9.45E+02 0.00E+00 1.28E-02 1.20E-03 3.07E-05 4.34E-03 6.78E-03 8.84E-03 1.19E-02

1.00E+03 0.00E+00 1.27E-02 1.13E-03 2.57E-05 4.06E-03 6.68E-03 8.54E-03 1.18E-02



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Probabilistic results summary : RESRAD Default Parameters

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Summary of dose at graphical times, reptition 3

Time		Dose statistics at graphical times, mrem/yr						
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	4.15E-03	1.31E-02	7.87E-03	6.69E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.00E+00	3.94E-03	1.31E-02	7.83E-03	6.64E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.06E+00	3.92E-03	1.31E-02	7.83E-03	6.64E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.12E+00	3.90E-03	1.31E-02	7.83E-03	6.64E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.19E+00	3.88E-03	1.31E-02	7.83E-03	6.62E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.25E+00	3.86E-03	1.31E-02	7.82E-03	6.61E-03	1.31E-02	1.31E-02	1.31E-02	1.31E-02
1.33E+00	3.84E-03	1.31E-02	7.82E-03	6.60E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.40E+00	3.81E-03	1.31E-02	7.82E-03	6.60E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.49E+00	3.79E-03	1.31E-02	7.82E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.57E+00	3.76E-03	1.31E-02	7.81E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.66E+00	3.73E-03	1.31E-02	7.81E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.76E+00	3.70E-03	1.31E-02	7.81E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.86E+00	3.67E-03	1.31E-02	7.80E-03	6.59E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
1.97E+00	3.63E-03	1.31E-02	7.80E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.09E+00	3.60E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.21E+00	3.56E-03	1.31E-02	7.79E-03	6.58E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.24E+00	3.52E-03	1.31E-02	7.79E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.27E+00	3.47E-03	1.31E-02	7.78E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.26E+00	3.43E-03	1.31E-02	7.78E-03	6.55E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.27E+00	3.38E-03	1.31E-02	7.77E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
2.29E+00	3.33E-03	1.31E-02	7.76E-03	6.54E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.00E+00	3.31E-03	1.31E-02	7.76E-03	6.53E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.10E+00	3.27E-03	1.31E-02	7.76E-03	6.51E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.28E+00	3.22E-03	1.31E-02	7.75E-03	6.50E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.48E+00	3.16E-03	1.31E-02	7.74E-03	6.49E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.68E+00	3.09E-03	1.31E-02	7.74E-03	6.48E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
3.89E+00	2.97E-03	1.31E-02	7.73E-03	6.48E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.12E+00	2.42E-03	1.31E-02	7.72E-03	6.48E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.36E+00	1.76E-03	1.31E-02	7.71E-03	6.47E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.61E+00	1.06E-03	1.31E-02	7.70E-03	6.47E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
4.88E+00	4.99E-04	1.31E-02	7.69E-03	6.47E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.17E+00	1.35E-04	1.31E-02	7.68E-03	6.47E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.47E+00	1.83E-06	1.31E-02	7.67E-03	6.47E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
5.78E+00	0.00E+00	1.31E-02	7.66E-03	6.46E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
6.12E+00	0.00E+00	1.31E-02	7.65E-03	6.46E-03	1.30E-02	1.31E-02	1.31E-02	1.31E-02
6.48E+00	0.00E+00	1.31E-02	7.64E-03	6.45E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
6.86E+00	0.00E+00	1.31E-02	7.62E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
7.26E+00	0.00E+00	1.31E-02	7.61E-03	6.44E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
7.68E+00	0.00E+00	1.31E-02	7.60E-03	6.42E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
8.13E+00	0.00E+00	1.31E-02	7.59E-03	6.41E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
8.60E+00	0.00E+00	1.31E-02	7.57E-03	6.41E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.10E+00	0.00E+00	1.31E-02	7.56E-03	6.39E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
9.63E+00	0.00E+00	1.31E-02	7.54E-03	6.38E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.00E+01	0.00E+00	1.31E-02	7.53E-03	6.37E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.02E+01	0.00E+00	1.31E-02	7.53E-03	6.37E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.08E+01	0.00E+00	1.31E-02	7.51E-03	6.36E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.14E+01	0.00E+00	1.31E-02	7.49E-03	6.36E-03	1.30E-02	1.30E-02	1.31E-02	1.31E-02
1.21E+01	0.00E+00	1.31E-02	7.48E-03	6.35E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.28E+01	0.00E+00	1.31E-02	7.46E-03	6.34E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.35E+01	0.00E+00	1.31E-02	7.44E-03	6.33E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.43E+01	0.00E+00	1.31E-02	7.42E-03	6.32E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.51E+01	0.00E+00	1.31E-02	7.40E-03	6.23E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.60E+01	0.00E+00	1.31E-02	7.38E-03	6.22E-03	1.29E-02	1.30E-02	1.31E-02	1.31E-02
1.70E+01	0.00E+00	1.31E-02	7.36E-03	6.21E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.80E+01	0.00E+00	1.31E-02	7.33E-03	6.19E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02
1.90E+01	0.00E+00	1.31E-02	7.31E-03	6.18E-03	1.29E-02	1.30E-02	1.30E-02	1.31E-02

2.01E+01 0.00E+00 1.31E-02 7.28E-03 6.16E-03 1.29E-02 1.30E-02 1.30E-02 1.31E-02

2.13E+01 0.00E+00 1.31E-02 7.26E-03 6.14E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.25E+01 0.00E+00 1.31E-02 7.23E-03 6.09E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.38E+01 0.00E+00 1.31E-02 7.20E-03 6.08E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.52E+01 0.00E+00 1.31E-02 7.17E-03 6.06E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02



2.67E+01 0.00E+00 1.31E-02 7.14E-03 6.05E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.82E+01 0.00E+00 1.31E-02 7.11E-03 6.03E-03 1.28E-02 1.30E-02 1.30E-02 1.31E-02

2.99E+01 0.00E+00 1.31E-02 7.08E-03 6.00E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.00E+01 0.00E+00 1.31E-02 7.08E-03 6.00E-03 1.28E-02 1.30E-02 1.30E-02 1.30E-02

3.16E+01 0.00E+00 1.31E-02 7.05E-03 5.98E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

3.35E+01 0.00E+00 1.31E-02 7.02E-03 5.95E-03 1.27E-02 1.30E-02 1.30E-02 1.30E-02

3.54E+01 0.00E+00 1.31E-02 6.98E-03 5.91E-03 1.27E-02 1.29E-02 1.30E-02 1.30E-02

3.75E+01 0.00E+00 1.31E-02 6.94E-03 5.88E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02



3.97E+01 0.00E+00 1.31E-02 6.90E-03 5.85E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

4.20E+01 0.00E+00 1.31E-02 6.86E-03 5.82E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

4.44E+01 0.00E+00 1.31E-02 6.82E-03 5.77E-03 1.26E-02 1.29E-02 1.30E-02 1.30E-02

4.70E+01 0.00E+00 1.31E-02 6.78E-03 5.74E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02

4.97E+01 0.00E+00 1.31E-02 6.73E-03 5.71E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02

5.26E+01 0.00E+00 1.31E-02 6.69E-03 5.67E-03 1.25E-02 1.29E-02 1.30E-02 1.30E-02

5.57E+01 0.00E+00 1.31E-02 6.64E-03 5.62E-03 1.24E-02 1.29E-02 1.30E-02 1.30E-02

90E+01 0.00E+00 1.31E-02 6.59E-03 5.60E-03 1.24E-02 1.29E-02 1.30E-02 1.30E-02



6.24E+01 0.00E+00 1.31E-02 6.54E-03 5.56E-03 1.24E-02 1.29E-02 1.30E-02 1.30E-02

60E+01 0.00E+00 1.31E-02 6.48E-03 5.51E-03 1.23E-02 1.29E-02 1.30E-02 1.30E-02

99E+01 0.00E+00 1.31E-02 6.42E-03 5.47E-03 1.23E-02 1.29E-02 1.30E-02 1.30E-02

7.39E+01 0.00E+00 1.31E-02 6.36E-03 5.41E-03 1.22E-02 1.28E-02 1.30E-02 1.30E-02

7.82E+01 0.00E+00 1.31E-02 6.30E-03 5.37E-03 1.22E-02 1.28E-02 1.30E-02 1.30E-02

8.28E+01 0.00E+00 1.31E-02 6.24E-03 5.32E-03 1.21E-02 1.28E-02 1.30E-02 1.30E-02

8.76E+01 0.00E+00 1.31E-02 6.17E-03 5.24E-03 1.20E-02 1.28E-02 1.30E-02 1.30E-02

9.27E+01 0.00E+00 1.31E-02 6.09E-03 5.18E-03 1.18E-02 1.28E-02 1.30E-02 1.30E-02



9.81E+01 0.00E+00 1.30E-02 6.01E-03 5.10E-03 1.17E-02 1.28E-02 1.30E-02 1.30E-02

1.00E+02 0.00E+00 1.30E-02 5.99E-03 5.09E-03 1.17E-02 1.27E-02 1.30E-02 1.30E-02

1.04E+02 0.00E+00 1.30E-02 5.93E-03 5.05E-03 1.16E-02 1.27E-02 1.30E-02 1.30E-02

1.10E+02 0.00E+00 1.30E-02 5.85E-03 5.00E-03 1.15E-02 1.27E-02 1.30E-02 1.30E-02

1.16E+02 0.00E+00 1.30E-02 5.76E-03 4.90E-03 1.15E-02 1.27E-02 1.30E-02 1.30E-02

1.23E+02 0.00E+00 1.30E-02 5.67E-03 4.79E-03 1.13E-02 1.27E-02 1.29E-02 1.30E-02

1.30E+02 0.00E+00 1.30E-02 5.57E-03 4.73E-03 1.13E-02 1.26E-02 1.29E-02 1.30E-02

1.38E+02 0.00E+00 1.30E-02 5.46E-03 4.66E-03 1.12E-02 1.25E-02 1.29E-02 1.30E-02



1.46E+02 0.00E+00 1.30E-02 5.35E-03 4.53E-03 1.11E-02 1.25E-02 1.29E-02 1.30E-02

1.54E+02 0.00E+00 1.30E-02 5.24E-03 4.40E-03 1.08E-02 1.24E-02 1.29E-02 1.30E-02

1.63E+02 0.00E+00 1.31E-02 5.12E-03 4.28E-03 1.06E-02 1.24E-02 1.29E-02 1.30E-02

1.73E+02 0.00E+00 1.32E-02 5.00E-03 4.18E-03 1.05E-02 1.24E-02 1.29E-02 1.30E-02

1.83E+02 0.00E+00 1.34E-02 4.86E-03 4.08E-03 1.03E-02 1.23E-02 1.29E-02 1.30E-02

1.94E+02 0.00E+00 1.35E-02 4.72E-03 4.01E-03 1.01E-02 1.22E-02 1.29E-02 1.30E-02

2.05E+02 0.00E+00 1.37E-02 4.57E-03 3.94E-03 9.86E-03 1.21E-02 1.29E-02 1.30E-02

2.17E+02 0.00E+00 1.30E-02 4.41E-03 3.83E-03 9.69E-03 1.19E-02 1.28E-02 1.29E-02



2.29E+02 0.00E+00 1.30E-02 4.26E-03 3.74E-03 9.34E-03 1.17E-02 1.27E-02 1.29E-02

2.43E+02 0.00E+00 1.30E-02 4.11E-03 3.60E-03 9.17E-03 1.17E-02 1.26E-02 1.29E-02

2.57E+02 0.00E+00 1.30E-02 3.95E-03 3.47E-03 8.98E-03 1.16E-02 1.26E-02 1.29E-02

2.72E+02 0.00E+00 1.30E-02 3.80E-03 3.29E-03 8.78E-03 1.15E-02 1.26E-02 1.29E-02

2.88E+02 0.00E+00 1.30E-02 3.65E-03 3.17E-03 8.57E-03 1.14E-02 1.25E-02 1.29E-02

3.00E+02 0.00E+00 1.30E-02 3.55E-03 2.96E-03 8.44E-03 1.12E-02 1.25E-02 1.29E-02

3.05E+02 0.00E+00 1.30E-02 3.51E-03 2.91E-03 8.40E-03 1.12E-02 1.25E-02 1.29E-02

3.22E+02 0.00E+00 1.30E-02 3.37E-03 2.77E-03 8.25E-03 1.11E-02 1.22E-02 1.28E-02



3.41E+02 0.00E+00 1.30E-02 3.23E-03 2.63E-03 8.06E-03 1.10E-02 1.20E-02 1.28E-02

3.61E+02 0.00E+00 1.30E-02 3.09E-03 2.49E-03 7.72E-03 1.03E-02 1.17E-02 1.28E-02

3.82E+02 0.00E+00 1.30E-02 2.95E-03 2.34E-03 7.49E-03 1.00E-02 1.13E-02 1.28E-02

4.04E+02 0.00E+00 1.30E-02 2.81E-03 2.17E-03 7.25E-03 9.60E-03 1.12E-02 1.28E-02

4.28E+02 0.00E+00 1.30E-02 2.68E-03 1.97E-03 6.88E-03 9.43E-03 1.12E-02 1.28E-02

4.53E+02 0.00E+00 1.30E-02 2.54E-03 1.61E-03 6.45E-03 9.25E-03 1.11E-02 1.27E-02

4.79E+02 0.00E+00 1.30E-02 2.41E-03 1.36E-03 6.13E-03 8.93E-03 1.11E-02 1.26E-02

5.07E+02 0.00E+00 1.30E-02 2.28E-03 1.13E-03 5.87E-03 8.58E-03 1.09E-02 1.25E-02



5.36E+02 0.00E+00 1.30E-02 2.15E-03 9.40E-04 5.67E-03 8.52E-03 1.06E-02 1.22E-02

5.68E+02 0.00E+00 1.29E-02 2.03E-03 7.00E-04 5.52E-03 8.46E-03 1.03E-02 1.22E-02

0.01E+02 0.00E+00 1.29E-02 1.91E-03 4.47E-04 5.34E-03 8.28E-03 9.78E-03 1.20E-02

6.36E+02 0.00E+00 1.29E-02 1.79E-03 3.08E-04 5.11E-03 8.04E-03 9.62E-03 1.14E-02

6.73E+02 0.00E+00 1.29E-02 1.68E-03 2.08E-04 4.93E-03 7.84E-03 9.45E-03 1.11E-02

7.12E+02 0.00E+00 1.29E-02 1.57E-03 1.46E-04 4.82E-03 7.59E-03 8.95E-03 1.10E-02

7.53E+02 0.00E+00 1.29E-02 1.46E-03 1.09E-04 4.62E-03 7.36E-03 8.64E-03 1.07E-02

7.97E+02 0.00E+00 1.29E-02 1.37E-03 8.80E-05 4.48E-03 6.90E-03 8.43E-03 1.06E-02



8.44E+02 0.00E+00 1.29E-02 1.27E-03 6.55E-05 4.39E-03 6.88E-03 8.21E-03 1.04E-02

93E+02 0.00E+00 1.29E-02 1.20E-03 4.91E-05 4.32E-03 6.65E-03 7.72E-03 1.02E-02

9.45E+02 0.00E+00 1.29E-02 1.12E-03 4.49E-05 4.24E-03 6.39E-03 7.64E-03 9.98E-03

1.00E+03 0.00E+00 1.29E-02 1.05E-03 3.94E-05 4.05E-03 5.95E-03 7.56E-03 9.77E-03

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	7.869E-03
2	0.000E+00	7.865E-03
3	0.000E+00	7.869E-03

Title : RESRAD Default Parameters  
 Input File : FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	2	-0.11	2	-0.04	8	-0.04	8	0.00
Contaminated zone b parameter	16	-0.01	16	0.00	7	0.05	7	0.01
Evapotranspiration coefficient	8	-0.03	8	-0.01	6	0.06	6	0.01
Wind Speed	18	0.00	18	0.00	12	0.03	12	0.00
Runoff coefficient	3	-0.08	3	-0.02	13	-0.02	13	0.00
Well pump intake depth	4	-0.07	4	-0.02	4	-0.07	4	-0.01
b Parameter of Unsaturated zone 1	7	-0.05	7	-0.01	17	0.00	17	0.00
Mass loading for inhalation	6	0.05	6	0.02	15	-0.01	15	0.00
Indoor dust filtration factor	14	0.01	14	0.00	18	0.00	18	0.00
Depth of soil mixing layer	5	0.06	5	0.02	9	0.04	9	0.00
Depth of roots	1	-0.95	1	-0.95	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	15	-0.01	15	0.00	16	0.01	16	0.00
Weathering removal constant of all vegetation	11	-0.01	11	0.00	14	0.01	14	0.00
Wet foliar interception fraction of leafy vegetables	12	-0.01	12	0.00	10	-0.04	10	0.00
Humidity in air	17	0.00	17	0.00	11	0.03	11	0.00
Kd of Ni-59 in Contaminated Zone	10	0.03	10	0.01	2	0.10	2	0.01
Kd of Ni-59 in Unsaturated Zone 1	9	0.03	9	0.01	5	0.07	5	0.01
Kd of Ni-59 in Saturated Zone	13	-0.01	13	0.00	3	-0.07	3	-0.01
R-SQUARE		0.91		0.91		0.98		0.98

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



Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	4	-0.11	4	-0.03	16	-0.01	16	0.00
Contaminated zone b parameter	9	-0.04	9	-0.01	10	-0.05	10	-0.01
Evapotranspiration coefficient	16	0.01	16	0.00	18	-0.01	18	0.00
Wind Speed	14	-0.01	14	0.00	15	0.01	15	0.00
Runoff coefficient	10	0.04	10	0.01	17	-0.01	17	0.00
Well pump intake depth	3	-0.11	3	-0.03	14	-0.03	14	0.00
b Parameter of Unsaturated zone 1	6	-0.08	6	-0.02	8	0.05	8	0.01
Mass loading for inhalation	2	0.12	2	0.03	5	0.09	5	0.01
Indoor dust filtration factor	5	0.09	5	0.02	12	0.04	12	0.00
Depth of soil mixing layer	12	-0.02	12	-0.01	9	-0.05	9	-0.01
Depth of roots	1	-0.96	1	-0.96	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	17	0.00	17	0.00	3	0.10	3	0.01
Weathering removal constant of all vegetation	8	0.05	8	0.01	11	0.04	11	0.01
Wet foliar interception fraction of leafy vegetables	7	0.06	7	0.02	2	0.13	2	0.02
Humidity in air	13	0.02	13	0.01	13	-0.03	13	0.00
Kd of Ni-59 in Contaminated Zone	15	-0.01	15	0.00	4	0.09	4	0.01
Kd of Ni-59 in Unsaturated Zone 1	11	-0.03	11	-0.01	7	-0.06	7	-0.01
Kd of Ni-59 in Saturated Zone	18	0.00	18	0.00	6	-0.07	6	-0.01
R-SQUARE		0.92		0.92		0.98		0.98

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

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

Title : RESRAD Default Parameters  
 Input File : FCS SOIL UNCERTAINTY ANALYSIS NI-59.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	8	-0.04	8	-0.01	11	-0.03	11	0.00
Contaminated zone b parameter	7	-0.04	7	-0.01	12	-0.03	12	0.00
Evapotranspiration coefficient	9	-0.03	9	-0.01	13	-0.03	13	0.00
Wind Speed	10	-0.03	10	-0.01	14	-0.03	14	0.00
Runoff coefficient	2	-0.09	2	-0.03	7	-0.04	7	-0.01
Well pump intake depth	6	0.05	6	0.02	15	0.01	15	0.00
b Parameter of Unsaturated zone 1	15	0.02	15	0.01	16	0.00	16	0.00
Mass loading for inhalation	11	0.03	11	0.01	10	0.03	10	0.00
Indoor dust filtration factor	17	0.01	17	0.00	18	0.00	18	0.00
Depth of soil mixing layer	18	0.00	18	0.00	4	0.06	4	0.01
Depth of roots	1	-0.96	1	-0.95	1	-0.99	1	-0.99
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.01	16	0.00	3	-0.07	3	-0.01
Weathering removal constant of all vegetation	3	-0.07	3	-0.02	6	-0.05	6	-0.01
Wet foliar interception fraction of leafy vegetables	12	-0.02	12	-0.01	9	0.03	9	0.00
Humidity in air	13	0.02	13	0.01	8	-0.03	8	0.00
Kd of Ni-59 in Contaminated Zone	4	0.07	4	0.02	2	0.09	2	0.01
Kd of Ni-59 in Unsaturated Zone 1	5	-0.06	5	-0.02	17	0.00	17	0.00
Kd of Ni-59 in Saturated Zone	14	0.02	14	0.01	5	-0.05	5	-0.01

R-SQUARE	0.91	0.91	0.98	0.98
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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.