

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-63										
Min	0.00E+00	1.13E-02	1.13E-02	1.07E-02	7.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.58E-02	3.58E-02	3.55E-02	3.50E-02	3.33E-02	2.88E-02	1.87E-02	4.09E-03	2.60E-05
Avg	0.00E+00	2.15E-02	2.15E-02	2.13E-02	2.08E-02	1.92E-02	1.56E-02	7.93E-03	1.10E-03	2.29E-06
Std	0.00E+00	8.84E-03	8.84E-03	8.77E-03	8.68E-03	8.47E-03	7.47E-03	4.49E-03	1.04E-03	4.67E-06
ALL										
Min	0.00E+00	1.13E-02	1.13E-02	1.07E-02	7.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.58E-02	3.58E-02	3.55E-02	3.50E-02	3.33E-02	2.88E-02	1.87E-02	4.09E-03	2.60E-05
Avg	0.00E+00	2.15E-02	2.15E-02	2.13E-02	2.08E-02	1.92E-02	1.56E-02	7.93E-03	1.10E-03	2.29E-06
Std	0.00E+00	8.84E-03	8.84E-03	8.77E-03	8.68E-03	8.47E-03	7.47E-03	4.49E-03	1.04E-03	4.67E-06

ALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide	RISK(j,t)							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Ni-63								
Min	5.65E-07	5.47E-07	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.78E-06	1.76E-06	1.74E-06	1.65E-06	1.43E-06	9.10E-07	2.03E-07	1.29E-09
Avg	1.07E-06	1.06E-06	1.03E-06	9.53E-07	7.75E-07	3.94E-07	5.46E-08	1.13E-10
Std	4.39E-07	4.35E-07	4.30E-07	4.20E-07	3.71E-07	2.23E-07	5.14E-08	2.32E-10
ALL								
Min	5.65E-07	5.47E-07	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.78E-06	1.76E-06	1.74E-06	1.65E-06	1.43E-06	9.10E-07	2.03E-07	1.29E-09
Avg	1.07E-06	1.06E-06	1.03E-06	9.53E-07	7.75E-07	3.94E-07	5.46E-08	1.13E-10
Std	4.39E-07	4.35E-07	4.30E-07	4.20E-07	3.71E-07	2.23E-07	5.14E-08	2.32E-10

ALL is total risk summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Ground External

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
Ni-63								
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.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide (j)	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-63								
Min	2.39E-10	2.37E-10	2.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.29E-07	5.25E-07	5.18E-07	4.92E-07	4.24E-07	2.53E-07	5.80E-08	3.33E-10
Avg	8.53E-08	8.45E-08	8.30E-08	7.70E-08	6.36E-08	3.48E-08	5.50E-09	1.12E-11
Std	5.18E-08	5.14E-08	5.05E-08	4.81E-08	4.15E-08	2.49E-08	5.77E-09	2.58E-11
TOTAL								
Min	2.39E-10	2.37E-10	2.34E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.29E-07	5.25E-07	5.18E-07	4.92E-07	4.24E-07	2.53E-07	5.80E-08	3.33E-10
Avg	8.53E-08	8.45E-08	8.30E-08	7.70E-08	6.36E-08	3.48E-08	5.50E-09	1.12E-11
Std	5.18E-08	5.14E-08	5.05E-08	4.81E-08	4.15E-08	2.49E-08	5.77E-09	2.58E-11

TOTAL 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-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>								
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>								

ALL is total pathway dose summed for all nuclides.

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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-63								
Min	1.74E-03	1.60E-03	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.00E-03	6.95E-03	6.85E-03	6.51E-03	5.64E-03	3.40E-03	8.01E-04	5.09E-06
Avg	3.94E-03	3.89E-03	3.79E-03	3.49E-03	2.83E-03	1.40E-03	1.85E-04	3.75E-07
Std	1.90E-03	1.89E-03	1.87E-03	1.80E-03	1.57E-03	9.27E-04	2.02E-04	8.71E-07
ALL								
Min	1.74E-03	1.60E-03	9.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	7.00E-03	6.95E-03	6.85E-03	6.51E-03	5.64E-03	3.40E-03	8.01E-04	5.09E-06
Avg	3.94E-03	3.89E-03	3.79E-03	3.49E-03	2.83E-03	1.40E-03	1.85E-04	3.75E-07
Std	1.90E-03	1.89E-03	1.87E-03	1.80E-03	1.57E-03	9.27E-04	2.02E-04	8.71E-07

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-63								
Min	4.53E-04	4.36E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.10E-03	1.09E-03	1.08E-03	1.02E-03	8.86E-04	5.34E-04	1.26E-04	8.00E-07
Avg	7.25E-04	7.17E-04	7.01E-04	6.47E-04	5.28E-04	2.71E-04	3.83E-05	7.58E-08
Std	2.33E-04	2.31E-04	2.29E-04	2.29E-04	2.08E-04	1.30E-04	3.30E-05	1.54E-07
ALL								
Min	4.53E-04	4.36E-04	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.10E-03	1.09E-03	1.08E-03	1.02E-03	8.86E-04	5.34E-04	1.26E-04	8.00E-07
Avg	7.25E-04	7.17E-04	7.01E-04	6.47E-04	5.28E-04	2.71E-04	3.83E-05	7.58E-08
Std	2.33E-04	2.31E-04	2.29E-04	2.29E-04	2.08E-04	1.30E-04	3.30E-05	1.54E-07

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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-63								
Min	9.08E-03	8.66E-03	6.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.77E-02	2.75E-02	2.71E-02	2.57E-02	2.23E-02	1.34E-02	3.16E-03	2.01E-05
Avg	1.69E-02	1.67E-02	1.63E-02	1.50E-02	1.22E-02	6.16E-03	8.44E-04	1.69E-06
Std	6.70E-03	6.65E-03	6.58E-03	6.44E-03	5.70E-03	3.45E-03	8.07E-04	3.63E-06
ALL								
Min	9.08E-03	8.66E-03	6.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.77E-02	2.75E-02	2.71E-02	2.57E-02	2.23E-02	1.34E-02	3.16E-03	2.01E-05
Avg	1.69E-02	1.67E-02	1.63E-02	1.50E-02	1.22E-02	6.16E-03	8.44E-04	1.69E-06
Std	6.70E-03	6.65E-03	6.58E-03	6.44E-03	5.70E-03	3.45E-03	8.07E-04	3.63E-06

ALL is total pathway dose summed for all nuclides.

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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-63								
Min	6.75E-06	4.47E-06	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.21E-06	8.15E-06	8.03E-06	7.63E-06	6.61E-06	3.99E-06	9.40E-07	5.99E-09
Avg	8.20E-06	8.12E-06	7.97E-06	7.40E-06	6.12E-06	3.34E-06	5.29E-07	1.01E-09
Std	4.31E-08	1.13E-07	2.09E-07	8.86E-07	1.20E-06	1.03E-06	3.68E-07	1.84E-09
ALL								
Min	6.75E-06	4.47E-06	1.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.21E-06	8.15E-06	8.03E-06	7.63E-06	6.61E-06	3.99E-06	9.40E-07	5.99E-09
Avg	8.20E-06	8.12E-06	7.97E-06	7.40E-06	6.12E-06	3.34E-06	5.29E-07	1.01E-09
Std	4.31E-08	1.13E-07	2.09E-07	8.86E-07	1.20E-06	1.03E-06	3.68E-07	1.84E-09

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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-63								
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	1.15E-07	1.72E-06	2.97E-05	1.70E-04	2.41E-03	3.58E-03	6.24E-04	2.13E-06
Avg	1.81E-10	3.55E-09	5.46E-08	8.63E-07	8.70E-06	2.92E-05	1.13E-05	4.84E-08
Std	3.71E-09	6.16E-08	8.92E-07	7.79E-06	8.58E-05	2.00E-04	3.97E-05	1.42E-07
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	1.15E-07	1.72E-06	2.97E-05	1.70E-04	2.41E-03	3.58E-03	6.24E-04	2.13E-06
Avg	1.81E-10	3.55E-09	5.46E-08	8.63E-07	8.70E-06	2.92E-05	1.13E-05	4.84E-08
Std	3.71E-09	6.16E-08	8.92E-07	7.79E-06	8.58E-05	2.00E-04	3.97E-05	1.42E-07

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-63								
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
Ni-63								
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.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS NI-63.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-63								
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	1.18E-08	1.00E-07	1.91E-06	5.07E-05	7.52E-04	8.13E-04	6.90E-05	1.57E-07
Avg	1.27E-11	2.25E-10	4.30E-09	1.01E-07	1.18E-06	3.53E-06	1.06E-06	4.14E-09
Std	3.20E-10	3.84E-09	6.88E-08	1.43E-06	2.05E-05	3.29E-05	4.02E-06	1.13E-08
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	1.18E-08	1.00E-07	1.91E-06	5.07E-05	7.52E-04	8.13E-04	6.90E-05	1.57E-07
Avg	1.27E-11	2.25E-10	4.30E-09	1.01E-07	1.18E-06	3.53E-06	1.06E-06	4.14E-09
Std	3.20E-10	3.84E-09	6.88E-08	1.43E-06	2.05E-05	3.29E-05	4.02E-06	1.13E-08

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-63.RAD

Probabilistic Dose vs Pathway(i): Meat (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
Ni-63								
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	7.67E-09	1.22E-07	2.79E-06	1.99E-05	3.23E-04	3.90E-04	5.13E-05	1.83E-07
Avg	1.05E-11	2.78E-10	5.04E-09	8.79E-08	9.34E-07	3.08E-06	1.13E-06	4.75E-09
Std	2.26E-10	4.71E-09	8.43E-08	8.37E-07	1.04E-05	2.18E-05	3.86E-06	1.34E-08
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	7.67E-09	1.22E-07	2.79E-06	1.99E-05	3.23E-04	3.90E-04	5.13E-05	1.83E-07
Avg	1.05E-11	2.78E-10	5.04E-09	8.79E-08	9.34E-07	3.08E-06	1.13E-06	4.75E-09
Std	2.26E-10	4.71E-09	8.43E-08	8.37E-07	1.04E-05	2.18E-05	3.86E-06	1.34E-08

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-63.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-63								
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	1.74E-07	2.25E-06	5.70E-05	4.53E-04	7.15E-03	8.25E-03	9.12E-04	3.41E-06
Avg	2.41E-10	5.56E-09	1.02E-07	1.79E-06	1.91E-05	6.21E-05	2.22E-05	9.30E-08
Std	5.16E-09	9.29E-08	1.73E-06	1.77E-05	2.24E-04	4.50E-04	7.57E-05	2.58E-07
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	1.74E-07	2.25E-06	5.70E-05	4.53E-04	7.15E-03	8.25E-03	9.12E-04	3.41E-06
Avg	2.41E-10	5.56E-09	1.02E-07	1.79E-06	1.91E-05	6.21E-05	2.22E-05	9.30E-08
Std	5.16E-09	9.29E-08	1.73E-06	1.77E-05	2.24E-04	4.50E-04	7.57E-05	2.58E-07

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-63.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose(t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	1.16E-02	1.14E-02	1.11E-02	8.79E-03	1.70E-04	4.86E-08	0.00E+00	0.00E+00
0.050	1.18E-02	1.16E-02	1.13E-02	1.04E-02	6.69E-03	5.38E-04	8.34E-09	0.00E+00
0.075	1.20E-02	1.18E-02	1.15E-02	1.06E-02	8.30E-03	2.48E-03	9.29E-08	0.00E+00
0.100	1.22E-02	1.20E-02	1.17E-02	1.08E-02	8.70E-03	3.51E-03	5.33E-07	0.00E+00
0.125	1.24E-02	1.23E-02	1.19E-02	1.10E-02	8.93E-03	3.93E-03	1.49E-06	1.88E-30
0.150	1.27E-02	1.25E-02	1.21E-02	1.12E-02	9.14E-03	4.20E-03	4.01E-06	7.82E-11
0.175	1.29E-02	1.27E-02	1.24E-02	1.14E-02	9.27E-03	4.43E-03	1.39E-05	2.60E-10
0.200	1.32E-02	1.30E-02	1.26E-02	1.17E-02	9.49E-03	4.68E-03	4.54E-05	5.95E-10
0.225	1.35E-02	1.33E-02	1.29E-02	1.19E-02	9.72E-03	4.87E-03	1.14E-04	1.27E-09
0.250	1.38E-02	1.36E-02	1.32E-02	1.22E-02	9.92E-03	5.02E-03	1.84E-04	1.95E-09
0.275	1.41E-02	1.39E-02	1.35E-02	1.25E-02	1.02E-02	5.16E-03	2.76E-04	3.29E-09
0.300	1.45E-02	1.43E-02	1.38E-02	1.28E-02	1.04E-02	5.32E-03	3.67E-04	5.07E-09
0.325	1.48E-02	1.46E-02	1.42E-02	1.32E-02	1.07E-02	5.49E-03	4.48E-04	6.98E-09
0.350	1.52E-02	1.50E-02	1.46E-02	1.35E-02	1.10E-02	5.63E-03	5.27E-04	9.52E-09
0.375	1.56E-02	1.54E-02	1.50E-02	1.38E-02	1.13E-02	5.78E-03	6.07E-04	1.29E-08
0.400	1.61E-02	1.59E-02	1.55E-02	1.43E-02	1.16E-02	5.97E-03	6.70E-04	1.70E-08
0.425	1.66E-02	1.64E-02	1.60E-02	1.47E-02	1.21E-02	6.13E-03	7.53E-04	2.13E-08
0.450	1.71E-02	1.69E-02	1.64E-02	1.52E-02	1.24E-02	6.32E-03	8.12E-04	3.40E-08
0.475	1.77E-02	1.75E-02	1.69E-02	1.57E-02	1.29E-02	6.51E-03	8.67E-04	4.18E-08
0.500	1.83E-02	1.80E-02	1.75E-02	1.63E-02	1.33E-02	6.71E-03	9.20E-04	5.61E-08
0.525	1.90E-02	1.87E-02	1.82E-02	1.69E-02	1.38E-02	6.93E-03	9.92E-04	7.45E-08
0.550	1.97E-02	1.94E-02	1.90E-02	1.75E-02	1.42E-02	7.17E-03	1.05E-03	9.95E-08
0.575	2.06E-02	2.03E-02	1.98E-02	1.84E-02	1.50E-02	7.47E-03	1.10E-03	1.41E-07
0.600	2.14E-02	2.12E-02	2.07E-02	1.92E-02	1.56E-02	7.68E-03	1.15E-03	1.92E-07
0.625	2.25E-02	2.22E-02	2.16E-02	1.99E-02	1.63E-02	8.15E-03	1.20E-03	3.01E-07
0.650	2.36E-02	2.34E-02	2.29E-02	2.12E-02	1.70E-02	8.60E-03	1.26E-03	4.22E-07
0.675	2.49E-02	2.46E-02	2.40E-02	2.23E-02	1.81E-02	9.06E-03	1.35E-03	6.36E-07
0.700	2.63E-02	2.60E-02	2.54E-02	2.35E-02	1.92E-02	9.52E-03	1.43E-03	9.36E-07
0.725	2.78E-02	2.75E-02	2.68E-02	2.49E-02	2.02E-02	1.00E-02	1.49E-03	1.38E-06
0.750	2.98E-02	2.94E-02	2.87E-02	2.63E-02	2.13E-02	1.06E-02	1.59E-03	1.95E-06
0.775	3.18E-02	3.14E-02	3.05E-02	2.81E-02	2.25E-02	1.12E-02	1.67E-03	2.69E-06
0.800	3.44E-02	3.40E-02	3.31E-02	3.02E-02	2.42E-02	1.19E-02	1.81E-03	3.54E-06
0.825	3.57E-02	3.52E-02	3.44E-02	3.17E-02	2.56E-02	1.27E-02	1.93E-03	4.68E-06
0.850	3.57E-02	3.54E-02	3.48E-02	3.26E-02	2.71E-02	1.38E-02	2.15E-03	5.86E-06
0.875	3.58E-02	3.55E-02	3.49E-02	3.29E-02	2.77E-02	1.47E-02	2.39E-03	7.23E-06
0.900	3.58E-02	3.55E-02	3.49E-02	3.30E-02	2.81E-02	1.57E-02	2.67E-03	8.54E-06
0.925	3.58E-02	3.55E-02	3.50E-02	3.31E-02	2.84E-02	1.64E-02	2.93E-03	9.47E-06
0.950	3.58E-02	3.55E-02	3.50E-02	3.32E-02	2.86E-02	1.69E-02	3.42E-03	1.34E-05
0.975	3.58E-02	3.55E-02	3.50E-02	3.33E-02	2.87E-02	1.72E-02	3.90E-03	1.71E-05
1.000	3.58E-02	3.55E-02	3.50E-02	3.33E-02	2.88E-02	1.87E-02	4.09E-03	2.60E-05

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS NI-63.RAD

Summary of dose at graphical times, reptition 1

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.14E-02	3.58E-02	2.15E-02	1.83E-02	3.58E-02	3.58E-02	3.58E-02	3.58E-02
1.00E+00	1.12E-02	3.55E-02	2.13E-02	1.79E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.06E+00	1.12E-02	3.55E-02	2.13E-02	1.79E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.12E+00	1.12E-02	3.55E-02	2.13E-02	1.79E-02	3.54E-02	3.55E-02	3.55E-02	3.55E-02
1.19E+00	1.11E-02	3.55E-02	2.12E-02	1.79E-02	3.54E-02	3.55E-02	3.55E-02	3.55E-02
1.25E+00	1.11E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.33E+00	1.11E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.40E+00	1.11E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.49E+00	1.11E-02	3.54E-02	2.12E-02	1.78E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02
1.57E+00	1.11E-02	3.54E-02	2.12E-02	1.78E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02
1.66E+00	1.10E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.76E+00	1.10E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.86E+00	1.09E-02	3.53E-02	2.11E-02	1.78E-02	3.52E-02	3.53E-02	3.53E-02	3.53E-02
1.97E+00	1.08E-02	3.53E-02	2.11E-02	1.78E-02	3.52E-02	3.52E-02	3.53E-02	3.53E-02
2.09E+00	1.07E-02	3.52E-02	2.10E-02	1.77E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02
2.21E+00	1.05E-02	3.52E-02	2.10E-02	1.77E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
2.24E+00	1.04E-02	3.52E-02	2.10E-02	1.77E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
2.27E+00	1.02E-02	3.51E-02	2.09E-02	1.77E-02	3.51E-02	3.51E-02	3.51E-02	3.51E-02
2.26E+00	1.00E-02	3.51E-02	2.09E-02	1.77E-02	3.50E-02	3.51E-02	3.51E-02	3.51E-02
2.27E+00	9.84E-03	3.51E-02	2.09E-02	1.76E-02	3.50E-02	3.50E-02	3.51E-02	3.51E-02
2.29E+00	9.64E-03	3.50E-02	2.08E-02	1.76E-02	3.50E-02	3.50E-02	3.50E-02	3.50E-02
3.00E+00	9.55E-03	3.50E-02	2.08E-02	1.76E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.10E+00	9.25E-03	3.50E-02	2.08E-02	1.76E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.28E+00	8.73E-03	3.49E-02	2.07E-02	1.75E-02	3.49E-02	3.49E-02	3.49E-02	3.49E-02
3.48E+00	8.17E-03	3.49E-02	2.07E-02	1.75E-02	3.48E-02	3.49E-02	3.49E-02	3.49E-02
3.68E+00	7.50E-03	3.48E-02	2.06E-02	1.75E-02	3.48E-02	3.48E-02	3.48E-02	3.48E-02
3.89E+00	6.69E-03	3.48E-02	2.06E-02	1.74E-02	3.47E-02	3.48E-02	3.48E-02	3.48E-02
4.12E+00	5.71E-03	3.47E-02	2.05E-02	1.74E-02	3.46E-02	3.47E-02	3.47E-02	3.47E-02
4.36E+00	4.55E-03	3.47E-02	2.05E-02	1.73E-02	3.46E-02	3.46E-02	3.46E-02	3.47E-02
4.61E+00	3.24E-03	3.46E-02	2.04E-02	1.73E-02	3.45E-02	3.46E-02	3.46E-02	3.46E-02
4.88E+00	1.92E-03	3.45E-02	2.04E-02	1.72E-02	3.44E-02	3.45E-02	3.45E-02	3.45E-02
5.17E+00	8.77E-04	3.45E-02	2.03E-02	1.72E-02	3.44E-02	3.44E-02	3.44E-02	3.45E-02
5.47E+00	2.26E-04	3.44E-02	2.02E-02	1.71E-02	3.43E-02	3.44E-02	3.44E-02	3.44E-02
5.78E+00	2.86E-05	3.43E-02	2.01E-02	1.71E-02	3.42E-02	3.43E-02	3.43E-02	3.43E-02
6.12E+00	2.83E-05	3.42E-02	2.01E-02	1.70E-02	3.41E-02	3.42E-02	3.42E-02	3.42E-02
6.48E+00	0.00E+00	3.41E-02	2.00E-02	1.70E-02	3.40E-02	3.41E-02	3.41E-02	3.41E-02
6.86E+00	0.00E+00	3.40E-02	1.99E-02	1.69E-02	3.39E-02	3.40E-02	3.40E-02	3.40E-02
7.26E+00	0.00E+00	3.39E-02	1.98E-02	1.68E-02	3.38E-02	3.39E-02	3.39E-02	3.39E-02
7.68E+00	0.00E+00	3.38E-02	1.97E-02	1.68E-02	3.37E-02	3.38E-02	3.38E-02	3.38E-02
8.13E+00	0.00E+00	3.37E-02	1.96E-02	1.67E-02	3.36E-02	3.37E-02	3.37E-02	3.37E-02
8.60E+00	0.00E+00	3.36E-02	1.95E-02	1.66E-02	3.34E-02	3.36E-02	3.36E-02	3.36E-02
9.10E+00	0.00E+00	3.35E-02	1.94E-02	1.65E-02	3.33E-02	3.35E-02	3.35E-02	3.35E-02
9.63E+00	0.00E+00	3.34E-02	1.93E-02	1.65E-02	3.32E-02	3.33E-02	3.33E-02	3.34E-02
1.00E+01	0.00E+00	3.33E-02	1.92E-02	1.64E-02	3.31E-02	3.32E-02	3.33E-02	3.33E-02
1.02E+01	0.00E+00	3.32E-02	1.92E-02	1.64E-02	3.30E-02	3.32E-02	3.32E-02	3.32E-02
1.08E+01	0.00E+00	3.31E-02	1.90E-02	1.63E-02	3.29E-02	3.30E-02	3.31E-02	3.31E-02
1.14E+01	0.00E+00	3.29E-02	1.89E-02	1.62E-02	3.27E-02	3.29E-02	3.29E-02	3.29E-02
1.21E+01	0.00E+00	3.28E-02	1.88E-02	1.61E-02	3.25E-02	3.27E-02	3.28E-02	3.28E-02
1.28E+01	0.00E+00	3.26E-02	1.86E-02	1.59E-02	3.24E-02	3.26E-02	3.26E-02	3.26E-02
1.35E+01	0.00E+00	3.24E-02	1.85E-02	1.58E-02	3.22E-02	3.24E-02	3.24E-02	3.24E-02
1.43E+01	0.00E+00	3.22E-02	1.83E-02	1.57E-02	3.20E-02	3.22E-02	3.22E-02	3.22E-02
1.51E+01	0.00E+00	3.21E-02	1.82E-02	1.56E-02	3.18E-02	3.20E-02	3.20E-02	3.20E-02
1.60E+01	0.00E+00	3.18E-02	1.80E-02	1.54E-02	3.15E-02	3.18E-02	3.18E-02	3.18E-02
1.70E+01	0.00E+00	3.16E-02	1.78E-02	1.52E-02	3.13E-02	3.16E-02	3.16E-02	3.16E-02
1.80E+01	0.00E+00	3.14E-02	1.77E-02	1.51E-02	3.11E-02	3.13E-02	3.14E-02	3.14E-02
1.90E+01	0.00E+00	3.12E-02	1.75E-02	1.49E-02	3.08E-02	3.11E-02	3.12E-02	3.12E-02

2.01E+01 0.00E+00 3.09E-02 1.73E-02 1.48E-02 3.06E-02 3.09E-02 3.09E-02 3.09E-02

2.13E+01 0.00E+00 3.07E-02 1.71E-02 1.46E-02 3.03E-02 3.06E-02 3.06E-02 3.07E-02

2.25E+01 0.00E+00 3.04E-02 1.69E-02 1.44E-02 3.00E-02 3.03E-02 3.04E-02 3.04E-02

2.38E+01 0.00E+00 3.01E-02 1.66E-02 1.42E-02 2.97E-02 3.00E-02 3.01E-02 3.01E-02

2.52E+01 0.00E+00 2.98E-02 1.64E-02 1.40E-02 2.94E-02 2.97E-02 2.98E-02 2.98E-02



2.67E+01 0.00E+00 2.95E-02 1.62E-02 1.38E-02 2.90E-02 2.94E-02 2.95E-02 2.95E-02

2.82E+01 0.00E+00 2.92E-02 1.59E-02 1.36E-02 2.86E-02 2.91E-02 2.91E-02 2.91E-02

2.99E+01 0.00E+00 2.88E-02 1.57E-02 1.34E-02 2.82E-02 2.87E-02 2.88E-02 2.88E-02

3.00E+01 0.00E+00 2.88E-02 1.56E-02 1.33E-02 2.82E-02 2.87E-02 2.88E-02 2.88E-02

3.16E+01 0.00E+00 2.84E-02 1.54E-02 1.32E-02 2.78E-02 2.84E-02 2.84E-02 2.84E-02

3.35E+01 0.00E+00 2.81E-02 1.51E-02 1.29E-02 2.75E-02 2.80E-02 2.80E-02 2.81E-02

3.54E+01 0.00E+00 2.79E-02 1.48E-02 1.27E-02 2.71E-02 2.76E-02 2.76E-02 2.77E-02

3.75E+01 0.00E+00 2.80E-02 1.45E-02 1.25E-02 2.66E-02 2.72E-02 2.72E-02 2.73E-02



3.97E+01 0.00E+00 2.80E-02 1.42E-02 1.22E-02 2.62E-02 2.67E-02 2.68E-02 2.68E-02

4.20E+01 0.00E+00 2.81E-02 1.39E-02 1.18E-02 2.57E-02 2.63E-02 2.64E-02 2.64E-02

4.44E+01 0.00E+00 2.82E-02 1.36E-02 1.16E-02 2.52E-02 2.58E-02 2.59E-02 2.59E-02

4.70E+01 0.00E+00 2.82E-02 1.32E-02 1.13E-02 2.47E-02 2.53E-02 2.54E-02 2.54E-02

4.97E+01 0.00E+00 2.83E-02 1.29E-02 1.09E-02 2.41E-02 2.48E-02 2.49E-02 2.49E-02

5.26E+01 0.00E+00 2.83E-02 1.25E-02 1.06E-02 2.33E-02 2.43E-02 2.44E-02 2.44E-02

5.57E+01 0.00E+00 2.83E-02 1.21E-02 1.04E-02 2.28E-02 2.37E-02 2.39E-02 2.39E-02

5.90E+01 0.00E+00 2.75E-02 1.17E-02 1.00E-02 2.22E-02 2.32E-02 2.33E-02 2.33E-02



6.24E+01 0.00E+00 2.67E-02 1.14E-02 9.69E-03 2.15E-02 2.26E-02 2.27E-02 2.28E-02

60E+01 0.00E+00 2.58E-02 1.10E-02 9.36E-03 2.09E-02 2.19E-02 2.21E-02 2.22E-02

99E+01 0.00E+00 2.48E-02 1.06E-02 9.03E-03 2.03E-02 2.13E-02 2.15E-02 2.16E-02

7.39E+01 0.00E+00 2.39E-02 1.02E-02 8.67E-03 1.96E-02 2.07E-02 2.09E-02 2.09E-02

7.82E+01 0.00E+00 2.30E-02 9.74E-03 8.33E-03 1.88E-02 2.01E-02 2.03E-02 2.03E-02

8.28E+01 0.00E+00 2.20E-02 9.32E-03 7.95E-03 1.82E-02 1.94E-02 1.96E-02 1.96E-02

8.76E+01 0.00E+00 2.10E-02 8.90E-03 7.57E-03 1.75E-02 1.87E-02 1.89E-02 1.90E-02

9.27E+01 0.00E+00 2.00E-02 8.47E-03 7.19E-03 1.68E-02 1.80E-02 1.82E-02 1.83E-02



9.81E+01 0.00E+00 1.91E-02 8.04E-03 6.81E-03 1.61E-02 1.73E-02 1.75E-02 1.76E-02

1.00E+02 0.00E+00 1.87E-02 7.90E-03 6.65E-03 1.59E-02 1.70E-02 1.73E-02 1.73E-02

1.04E+02 0.00E+00 1.81E-02 7.62E-03 6.41E-03 1.54E-02 1.65E-02 1.68E-02 1.69E-02

1.10E+02 0.00E+00 1.71E-02 7.19E-03 5.98E-03 1.45E-02 1.57E-02 1.61E-02 1.61E-02

1.16E+02 0.00E+00 1.61E-02 6.76E-03 5.63E-03 1.38E-02 1.50E-02 1.53E-02 1.54E-02

1.23E+02 0.00E+00 1.51E-02 6.33E-03 5.29E-03 1.31E-02 1.43E-02 1.46E-02 1.47E-02

1.30E+02 0.00E+00 1.48E-02 5.91E-03 4.92E-03 1.23E-02 1.35E-02 1.38E-02 1.39E-02

1.38E+02 0.00E+00 1.48E-02 5.49E-03 4.60E-03 1.15E-02 1.26E-02 1.31E-02 1.32E-02



1.46E+02 0.00E+00 1.47E-02 5.08E-03 4.23E-03 1.06E-02 1.18E-02 1.23E-02 1.24E-02

1.54E+02 0.00E+00 1.44E-02 4.67E-03 3.92E-03 9.74E-03 1.11E-02 1.16E-02 1.17E-02

1.63E+02 0.00E+00 1.41E-02 4.27E-03 3.59E-03 8.97E-03 1.03E-02 1.09E-02 1.10E-02

1.73E+02 0.00E+00 1.36E-02 3.89E-03 3.32E-03 8.21E-03 9.56E-03 1.01E-02 1.02E-02

1.83E+02 0.00E+00 1.24E-02 3.51E-03 3.03E-03 7.54E-03 8.75E-03 9.42E-03 9.51E-03

1.94E+02 0.00E+00 9.82E-03 3.15E-03 2.70E-03 6.89E-03 8.08E-03 8.71E-03 8.80E-03

2.05E+02 0.00E+00 8.12E-03 2.80E-03 2.38E-03 6.30E-03 7.43E-03 7.98E-03 8.10E-03

2.17E+02 0.00E+00 7.45E-03 2.47E-03 2.16E-03 5.71E-03 6.64E-03 7.28E-03 7.43E-03



2.29E+02 0.00E+00 6.80E-03 2.18E-03 1.88E-03 5.04E-03 6.01E-03 6.64E-03 6.78E-03

2.43E+02 0.00E+00 6.17E-03 1.90E-03 1.63E-03 4.44E-03 5.37E-03 6.02E-03 6.15E-03

2.57E+02 0.00E+00 5.57E-03 1.65E-03 1.40E-03 3.97E-03 4.81E-03 5.42E-03 5.55E-03

2.72E+02 0.00E+00 5.00E-03 1.43E-03 1.19E-03 3.43E-03 4.30E-03 4.86E-03 4.98E-03

2.88E+02 0.00E+00 4.45E-03 1.22E-03 9.96E-04 3.01E-03 3.75E-03 4.33E-03 4.44E-03

3.00E+02 0.00E+00 4.07E-03 1.09E-03 8.87E-04 2.70E-03 3.35E-03 3.92E-03 4.06E-03

3.05E+02 0.00E+00 3.94E-03 1.04E-03 8.34E-04 2.60E-03 3.21E-03 3.77E-03 3.92E-03

3.22E+02 0.00E+00 3.47E-03 8.76E-04 6.63E-04 2.23E-03 2.77E-03 3.23E-03 3.44E-03



3.41E+02 0.00E+00 3.03E-03 7.32E-04 5.37E-04 1.88E-03 2.39E-03 2.73E-03 2.99E-03

3.61E+02 0.00E+00 2.62E-03 6.06E-04 4.30E-04 1.61E-03 2.07E-03 2.34E-03 2.59E-03

3.82E+02 0.00E+00 2.25E-03 4.98E-04 3.41E-04 1.35E-03 1.71E-03 1.98E-03 2.22E-03

4.04E+02 0.00E+00 1.92E-03 4.06E-04 2.57E-04 1.15E-03 1.45E-03 1.68E-03 1.89E-03

4.28E+02 0.00E+00 1.62E-03 3.27E-04 1.95E-04 9.61E-04 1.20E-03 1.40E-03 1.59E-03

4.53E+02 0.00E+00 1.35E-03 2.61E-04 1.38E-04 7.66E-04 9.70E-04 1.15E-03 1.33E-03

4.79E+02 0.00E+00 1.11E-03 2.06E-04 9.15E-05 5.88E-04 7.96E-04 9.47E-04 1.09E-03

5.07E+02 0.00E+00 9.10E-04 1.60E-04 5.89E-05 4.77E-04 6.40E-04 7.69E-04 8.93E-04



5.36E+02 0.00E+00 7.35E-04 1.23E-04 3.69E-05 3.73E-04 5.06E-04 6.07E-04 7.20E-04

5.68E+02 0.00E+00 5.86E-04 9.38E-05 2.28E-05 2.78E-04 3.96E-04 4.78E-04 5.74E-04

0.01E+02 0.00E+00 4.62E-04 7.04E-05 1.21E-05 2.01E-04 3.08E-04 3.72E-04 4.51E-04

6.36E+02 0.00E+00 3.58E-04 5.21E-05 6.12E-06 1.52E-04 2.37E-04 2.85E-04 3.50E-04

6.73E+02 0.00E+00 2.74E-04 3.80E-05 3.74E-06 1.10E-04 1.81E-04 2.16E-04 2.67E-04

7.12E+02 0.00E+00 2.06E-04 2.72E-05 1.83E-06 8.26E-05 1.34E-04 1.62E-04 2.01E-04

7.53E+02 0.00E+00 1.53E-04 1.92E-05 9.58E-07 5.87E-05 9.89E-05 1.19E-04 1.48E-04

7.97E+02 0.00E+00 1.11E-04 1.33E-05 6.03E-07 4.19E-05 7.11E-05 8.57E-05 1.07E-04



8.44E+02 0.00E+00 7.95E-05 8.98E-06 2.27E-07 2.94E-05 5.01E-05 6.11E-05 7.60E-05

93E+02 0.00E+00 5.57E-05 5.95E-06 1.39E-07 2.04E-05 3.42E-05 4.17E-05 5.31E-05

9.45E+02 0.00E+00 3.82E-05 3.87E-06 8.23E-08 1.36E-05 2.26E-05 2.86E-05 3.63E-05

1.00E+03 0.00E+00 2.57E-05 2.47E-06 4.77E-08 9.09E-06 1.50E-05 1.92E-05 2.43E-05

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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	1.13E-02	3.58E-02	2.15E-02	1.84E-02	3.58E-02	3.58E-02	3.58E-02	3.58E-02
1.00E+00	1.09E-02	3.55E-02	2.13E-02	1.80E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.06E+00	1.08E-02	3.55E-02	2.12E-02	1.80E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.12E+00	1.08E-02	3.55E-02	2.12E-02	1.80E-02	3.54E-02	3.55E-02	3.55E-02	3.55E-02
1.19E+00	1.08E-02	3.55E-02	2.12E-02	1.80E-02	3.54E-02	3.54E-02	3.55E-02	3.55E-02
1.25E+00	1.07E-02	3.54E-02	2.12E-02	1.80E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.33E+00	1.07E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.40E+00	1.07E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.49E+00	1.06E-02	3.54E-02	2.11E-02	1.78E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02
1.57E+00	1.06E-02	3.54E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.54E-02	3.54E-02
1.66E+00	1.06E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.76E+00	1.05E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.86E+00	1.05E-02	3.53E-02	2.10E-02	1.78E-02	3.52E-02	3.53E-02	3.53E-02	3.53E-02
1.97E+00	1.04E-02	3.53E-02	2.10E-02	1.78E-02	3.52E-02	3.52E-02	3.53E-02	3.53E-02
2.09E+00	1.02E-02	3.52E-02	2.10E-02	1.77E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02
2.21E+00	9.86E-03	3.52E-02	2.09E-02	1.77E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
2.24E+00	9.53E-03	3.52E-02	2.09E-02	1.77E-02	3.51E-02	3.51E-02	3.52E-02	3.52E-02
2.27E+00	9.18E-03	3.51E-02	2.09E-02	1.76E-02	3.51E-02	3.51E-02	3.51E-02	3.51E-02
2.26E+00	8.79E-03	3.51E-02	2.08E-02	1.76E-02	3.50E-02	3.51E-02	3.51E-02	3.51E-02
2.27E+00	8.36E-03	3.51E-02	2.08E-02	1.76E-02	3.50E-02	3.50E-02	3.50E-02	3.51E-02
2.29E+00	7.84E-03	3.50E-02	2.07E-02	1.75E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.00E+00	7.61E-03	3.50E-02	2.07E-02	1.75E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.310E+00	7.25E-03	3.50E-02	2.07E-02	1.75E-02	3.49E-02	3.49E-02	3.50E-02	3.50E-02
3.328E+00	6.57E-03	3.49E-02	2.07E-02	1.75E-02	3.48E-02	3.49E-02	3.49E-02	3.49E-02
3.48E+00	5.80E-03	3.49E-02	2.06E-02	1.74E-02	3.48E-02	3.48E-02	3.49E-02	3.49E-02
3.68E+00	4.95E-03	3.48E-02	2.06E-02	1.74E-02	3.47E-02	3.48E-02	3.48E-02	3.48E-02
3.89E+00	4.05E-03	3.48E-02	2.05E-02	1.73E-02	3.47E-02	3.47E-02	3.48E-02	3.48E-02
4.12E+00	3.10E-03	3.47E-02	2.04E-02	1.72E-02	3.46E-02	3.47E-02	3.47E-02	3.47E-02
4.36E+00	2.10E-03	3.47E-02	2.04E-02	1.72E-02	3.45E-02	3.46E-02	3.46E-02	3.47E-02
4.61E+00	1.18E-03	3.46E-02	2.03E-02	1.71E-02	3.45E-02	3.46E-02	3.46E-02	3.46E-02
4.88E+00	4.91E-04	3.45E-02	2.02E-02	1.71E-02	3.44E-02	3.45E-02	3.45E-02	3.45E-02
5.17E+00	9.01E-05	3.45E-02	2.02E-02	1.70E-02	3.43E-02	3.44E-02	3.44E-02	3.45E-02
5.547E+00	2.35E-08	3.44E-02	2.01E-02	1.69E-02	3.42E-02	3.43E-02	3.44E-02	3.44E-02
5.578E+00	0.00E+00	3.43E-02	2.00E-02	1.69E-02	3.41E-02	3.43E-02	3.43E-02	3.43E-02
6.12E+00	0.00E+00	3.42E-02	1.99E-02	1.68E-02	3.41E-02	3.42E-02	3.42E-02	3.42E-02
6.48E+00	0.00E+00	3.41E-02	1.99E-02	1.68E-02	3.40E-02	3.41E-02	3.41E-02	3.41E-02
6.86E+00	0.00E+00	3.40E-02	1.98E-02	1.67E-02	3.39E-02	3.40E-02	3.40E-02	3.40E-02
7.26E+00	0.00E+00	3.39E-02	1.97E-02	1.66E-02	3.37E-02	3.39E-02	3.39E-02	3.39E-02
7.68E+00	0.00E+00	3.38E-02	1.96E-02	1.66E-02	3.36E-02	3.38E-02	3.38E-02	3.38E-02
8.13E+00	0.00E+00	3.37E-02	1.95E-02	1.65E-02	3.35E-02	3.37E-02	3.37E-02	3.37E-02
8.60E+00	0.00E+00	3.36E-02	1.94E-02	1.64E-02	3.34E-02	3.35E-02	3.36E-02	3.36E-02
9.10E+00	0.00E+00	3.35E-02	1.93E-02	1.63E-02	3.32E-02	3.34E-02	3.35E-02	3.35E-02
9.63E+00	0.00E+00	3.34E-02	1.92E-02	1.62E-02	3.31E-02	3.33E-02	3.33E-02	3.34E-02
1.00E+01	0.00E+00	3.33E-02	1.91E-02	1.62E-02	3.30E-02	3.32E-02	3.32E-02	3.33E-02
1.02E+01	0.00E+00	3.32E-02	1.90E-02	1.62E-02	3.30E-02	3.31E-02	3.32E-02	3.32E-02
1.08E+01	0.00E+00	3.31E-02	1.89E-02	1.61E-02	3.28E-02	3.30E-02	3.31E-02	3.31E-02
1.14E+01	0.00E+00	3.29E-02	1.88E-02	1.59E-02	3.26E-02	3.28E-02	3.29E-02	3.29E-02
1.21E+01	0.00E+00	3.28E-02	1.87E-02	1.58E-02	3.25E-02	3.27E-02	3.27E-02	3.28E-02
1.28E+01	0.00E+00	3.26E-02	1.85E-02	1.57E-02	3.23E-02	3.25E-02	3.26E-02	3.26E-02
1.35E+01	0.00E+00	3.24E-02	1.84E-02	1.56E-02	3.21E-02	3.23E-02	3.24E-02	3.24E-02
1.43E+01	0.00E+00	3.23E-02	1.82E-02	1.54E-02	3.19E-02	3.21E-02	3.22E-02	3.22E-02
1.51E+01	0.00E+00	3.21E-02	1.81E-02	1.53E-02	3.17E-02	3.19E-02	3.20E-02	3.20E-02
1.60E+01	0.00E+00	3.19E-02	1.79E-02	1.51E-02	3.14E-02	3.17E-02	3.18E-02	3.18E-02
1.70E+01	0.00E+00	3.16E-02	1.77E-02	1.50E-02	3.12E-02	3.15E-02	3.16E-02	3.16E-02
1.80E+01	0.00E+00	3.14E-02	1.75E-02	1.48E-02	3.10E-02	3.13E-02	3.14E-02	3.14E-02
1.90E+01	0.00E+00	3.12E-02	1.74E-02	1.47E-02	3.07E-02	3.10E-02	3.11E-02	3.12E-02

2.01E+01 0.00E+00 3.09E-02 1.72E-02 1.45E-02 3.04E-02 3.08E-02 3.09E-02 3.09E-02



2.13E+01 0.00E+00 3.07E-02 1.70E-02 1.44E-02 3.02E-02 3.05E-02 3.06E-02 3.07E-02

2.25E+01 0.00E+00 3.04E-02 1.67E-02 1.42E-02 2.98E-02 3.02E-02 3.03E-02 3.04E-02

2.38E+01 0.00E+00 3.01E-02 1.65E-02 1.40E-02 2.95E-02 2.99E-02 3.01E-02 3.01E-02

2.52E+01 0.00E+00 2.98E-02 1.63E-02 1.38E-02 2.92E-02 2.96E-02 2.97E-02 2.98E-02

2.67E+01 0.00E+00 2.95E-02 1.61E-02 1.37E-02 2.88E-02 2.93E-02 2.94E-02 2.95E-02

2.82E+01 0.00E+00 2.92E-02 1.58E-02 1.34E-02 2.85E-02 2.89E-02 2.91E-02 2.91E-02

2.99E+01 0.00E+00 2.88E-02 1.56E-02 1.32E-02 2.81E-02 2.86E-02 2.88E-02 2.88E-02

3.00E+01 0.00E+00 2.88E-02 1.55E-02 1.32E-02 2.81E-02 2.86E-02 2.87E-02 2.88E-02



3.16E+01 0.00E+00 2.85E-02 1.53E-02 1.30E-02 2.77E-02 2.82E-02 2.84E-02 2.84E-02

3.35E+01 0.00E+00 2.81E-02 1.50E-02 1.27E-02 2.73E-02 2.78E-02 2.80E-02 2.81E-02

3.54E+01 0.00E+00 2.77E-02 1.47E-02 1.25E-02 2.69E-02 2.74E-02 2.76E-02 2.77E-02

3.75E+01 0.00E+00 2.73E-02 1.44E-02 1.22E-02 2.64E-02 2.70E-02 2.72E-02 2.73E-02

3.97E+01 0.00E+00 2.69E-02 1.41E-02 1.20E-02 2.60E-02 2.65E-02 2.68E-02 2.68E-02

4.20E+01 0.00E+00 2.64E-02 1.38E-02 1.17E-02 2.55E-02 2.61E-02 2.63E-02 2.64E-02

4.44E+01 0.00E+00 2.60E-02 1.35E-02 1.14E-02 2.49E-02 2.56E-02 2.58E-02 2.59E-02

4.70E+01 0.00E+00 2.55E-02 1.32E-02 1.11E-02 2.45E-02 2.51E-02 2.54E-02 2.54E-02



4.97E+01 0.00E+00 2.50E-02 1.28E-02 1.08E-02 2.39E-02 2.46E-02 2.49E-02 2.49E-02

5.26E+01 0.00E+00 2.47E-02 1.25E-02 1.05E-02 2.33E-02 2.41E-02 2.44E-02 2.44E-02

5.57E+01 0.00E+00 2.46E-02 1.21E-02 1.02E-02 2.27E-02 2.35E-02 2.38E-02 2.39E-02

5.90E+01 0.00E+00 2.45E-02 1.17E-02 9.93E-03 2.21E-02 2.30E-02 2.33E-02 2.33E-02

2.24E+01 0.00E+00 2.43E-02 1.13E-02 9.58E-03 2.15E-02 2.24E-02 2.27E-02 2.28E-02

60E+01 0.00E+00 2.41E-02 1.09E-02 9.30E-03 2.09E-02 2.18E-02 2.21E-02 2.22E-02

99E+01 0.00E+00 2.39E-02 1.06E-02 9.00E-03 2.03E-02 2.11E-02 2.15E-02 2.16E-02

7.39E+01 0.00E+00 2.36E-02 1.02E-02 8.60E-03 1.96E-02 2.05E-02 2.09E-02 2.09E-02



7.82E+01 0.00E+00 2.31E-02 9.75E-03 8.19E-03 1.89E-02 1.99E-02 2.02E-02 2.03E-02

8.28E+01 0.00E+00 2.10E-02 9.33E-03 7.80E-03 1.82E-02 1.92E-02 1.96E-02 1.96E-02

8.76E+01 0.00E+00 1.90E-02 8.91E-03 7.51E-03 1.75E-02 1.85E-02 1.89E-02 1.90E-02

9.27E+01 0.00E+00 1.83E-02 8.49E-03 7.13E-03 1.67E-02 1.78E-02 1.82E-02 1.83E-02

9.81E+01 0.00E+00 1.76E-02 8.06E-03 6.80E-03 1.58E-02 1.71E-02 1.75E-02 1.76E-02

1.00E+02 0.00E+00 1.74E-02 7.92E-03 6.66E-03 1.56E-02 1.69E-02 1.72E-02 1.73E-02

1.04E+02 0.00E+00 1.69E-02 7.64E-03 6.43E-03 1.52E-02 1.64E-02 1.67E-02 1.69E-02

1.10E+02 0.00E+00 1.62E-02 7.21E-03 6.06E-03 1.45E-02 1.56E-02 1.60E-02 1.61E-02



1.16E+02 0.00E+00 1.54E-02 6.79E-03 5.68E-03 1.37E-02 1.49E-02 1.53E-02 1.54E-02

1.23E+02 0.00E+00 1.47E-02 6.36E-03 5.34E-03 1.27E-02 1.42E-02 1.45E-02 1.47E-02

1.30E+02 0.00E+00 1.40E-02 5.94E-03 5.01E-03 1.20E-02 1.34E-02 1.38E-02 1.39E-02

1.38E+02 0.00E+00 1.32E-02 5.53E-03 4.70E-03 1.13E-02 1.27E-02 1.30E-02 1.32E-02

1.46E+02 0.00E+00 1.25E-02 5.11E-03 4.36E-03 1.05E-02 1.19E-02 1.23E-02 1.24E-02

1.54E+02 0.00E+00 1.17E-02 4.71E-03 4.03E-03 9.74E-03 1.11E-02 1.15E-02 1.17E-02

1.63E+02 0.00E+00 1.10E-02 4.32E-03 3.69E-03 8.91E-03 1.03E-02 1.08E-02 1.09E-02

1.73E+02 0.00E+00 1.03E-02 3.93E-03 3.38E-03 8.09E-03 9.60E-03 1.01E-02 1.02E-02



1.83E+02 0.00E+00 9.54E-03 3.56E-03 3.07E-03 7.41E-03 8.85E-03 9.34E-03 9.49E-03

1.94E+02 0.00E+00 8.84E-03 3.20E-03 2.79E-03 6.69E-03 8.16E-03 8.63E-03 8.79E-03

2.05E+02 0.00E+00 8.13E-03 2.86E-03 2.49E-03 6.07E-03 7.49E-03 7.95E-03 8.09E-03

2.17E+02 0.00E+00 7.46E-03 2.53E-03 2.18E-03 5.43E-03 6.83E-03 7.23E-03 7.42E-03

2.29E+02 0.00E+00 6.81E-03 2.23E-03 1.92E-03 4.82E-03 6.20E-03 6.56E-03 6.77E-03

2.43E+02 0.00E+00 6.18E-03 1.95E-03 1.69E-03 4.31E-03 5.59E-03 5.95E-03 6.14E-03

2.57E+02 0.00E+00 5.58E-03 1.69E-03 1.46E-03 3.79E-03 4.99E-03 5.37E-03 5.54E-03

2.72E+02 0.00E+00 5.01E-03 1.45E-03 1.27E-03 3.32E-03 4.44E-03 4.81E-03 4.97E-03



2.88E+02 0.00E+00 4.46E-03 1.24E-03 1.07E-03 2.83E-03 3.76E-03 4.24E-03 4.43E-03

3.00E+02 0.00E+00 4.09E-03 1.11E-03 9.42E-04 2.57E-03 3.38E-03 3.88E-03 4.05E-03

3.05E+02 0.00E+00 3.95E-03 1.06E-03 8.99E-04 2.49E-03 3.26E-03 3.75E-03 3.92E-03

3.22E+02 0.00E+00 3.47E-03 8.94E-04 7.37E-04 2.16E-03 2.85E-03 3.28E-03 3.43E-03

3.41E+02 0.00E+00 3.03E-03 7.48E-04 6.08E-04 1.82E-03 2.47E-03 2.86E-03 2.99E-03

3.61E+02 0.00E+00 2.63E-03 6.19E-04 4.99E-04 1.56E-03 2.07E-03 2.44E-03 2.59E-03

3.82E+02 0.00E+00 2.26E-03 5.08E-04 4.00E-04 1.30E-03 1.71E-03 2.07E-03 2.23E-03

4.04E+02 0.00E+00 1.92E-03 4.13E-04 3.01E-04 1.08E-03 1.38E-03 1.75E-03 1.89E-03



4.28E+02 0.00E+00 1.62E-03 3.32E-04 2.35E-04 8.87E-04 1.14E-03 1.47E-03 1.60E-03

4.53E+02 0.00E+00 1.35E-03 2.64E-04 1.82E-04 7.15E-04 9.31E-04 1.22E-03 1.33E-03

4.79E+02 0.00E+00 1.12E-03 2.08E-04 1.24E-04 5.68E-04 7.60E-04 1.00E-03 1.10E-03

5.07E+02 0.00E+00 9.13E-04 1.61E-04 8.51E-05 4.36E-04 6.20E-04 8.13E-04 8.98E-04

5.36E+02 0.00E+00 7.37E-04 1.23E-04 4.93E-05 3.43E-04 4.99E-04 6.52E-04 7.25E-04

5.68E+02 0.00E+00 5.88E-04 9.33E-05 2.46E-05 2.66E-04 3.80E-04 5.16E-04 5.70E-04

0.01E+02 0.00E+00 4.63E-04 6.97E-05 1.52E-05 2.00E-04 2.98E-04 4.03E-04 4.41E-04

6.36E+02 0.00E+00 3.59E-04 5.12E-05 7.21E-06 1.52E-04 2.25E-04 3.03E-04 3.42E-04



6.73E+02 0.00E+00 2.75E-04 3.70E-05 3.94E-06 1.10E-04 1.69E-04 2.28E-04 2.61E-04

7.12E+02 0.00E+00 2.07E-04 2.64E-05 2.18E-06 8.10E-05 1.23E-04 1.69E-04 1.96E-04

7.53E+02 0.00E+00 1.53E-04 1.84E-05 1.44E-06 5.88E-05 8.90E-05 1.23E-04 1.44E-04

7.97E+02 0.00E+00 1.12E-04 1.26E-05 7.47E-07 4.11E-05 6.28E-05 8.70E-05 1.05E-04

8.44E+02 0.00E+00 7.97E-05 8.42E-06 3.67E-07 2.85E-05 4.29E-05 6.02E-05 7.46E-05

93E+02 0.00E+00 5.59E-05 5.54E-06 1.77E-07 1.95E-05 2.98E-05 3.98E-05 5.22E-05

9.45E+02 0.00E+00 3.83E-05 3.59E-06 9.23E-08 1.31E-05 2.04E-05 2.66E-05 3.57E-05

1.00E+03 0.00E+00 2.57E-05 2.28E-06 5.20E-08 8.21E-06 1.35E-05 1.73E-05 2.39E-05



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Probabilistic results summary : RESRAD Default Parameters

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Summary of dose at graphical times, reptition 3

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.14E-02	3.58E-02	2.15E-02	1.83E-02	3.58E-02	3.58E-02	3.58E-02	3.58E-02
1.00E+00	1.07E-02	3.55E-02	2.13E-02	1.81E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.06E+00	1.07E-02	3.55E-02	2.13E-02	1.80E-02	3.55E-02	3.55E-02	3.55E-02	3.55E-02
1.12E+00	1.06E-02	3.55E-02	2.13E-02	1.80E-02	3.54E-02	3.55E-02	3.55E-02	3.55E-02
1.19E+00	1.05E-02	3.55E-02	2.12E-02	1.80E-02	3.54E-02	3.55E-02	3.55E-02	3.55E-02
1.25E+00	1.05E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.33E+00	1.04E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.40E+00	1.03E-02	3.54E-02	2.12E-02	1.79E-02	3.54E-02	3.54E-02	3.54E-02	3.54E-02
1.49E+00	1.03E-02	3.54E-02	2.12E-02	1.79E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02
1.57E+00	1.02E-02	3.54E-02	2.11E-02	1.78E-02	3.53E-02	3.54E-02	3.54E-02	3.54E-02
1.66E+00	1.01E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.76E+00	1.00E-02	3.53E-02	2.11E-02	1.78E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
1.86E+00	9.90E-03	3.53E-02	2.11E-02	1.78E-02	3.52E-02	3.53E-02	3.53E-02	3.53E-02
1.97E+00	9.80E-03	3.53E-02	2.10E-02	1.78E-02	3.52E-02	3.53E-02	3.53E-02	3.53E-02
2.09E+00	9.70E-03	3.52E-02	2.10E-02	1.77E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02
2.21E+00	9.59E-03	3.52E-02	2.10E-02	1.77E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
2.24E+00	9.47E-03	3.52E-02	2.10E-02	1.76E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
2.27E+00	9.34E-03	3.51E-02	2.09E-02	1.76E-02	3.51E-02	3.51E-02	3.51E-02	3.51E-02
2.26E+00	9.21E-03	3.51E-02	2.09E-02	1.76E-02	3.50E-02	3.51E-02	3.51E-02	3.51E-02
2.27E+00	9.07E-03	3.51E-02	2.09E-02	1.76E-02	3.50E-02	3.51E-02	3.51E-02	3.51E-02
2.29E+00	8.92E-03	3.50E-02	2.08E-02	1.75E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.00E+00	8.86E-03	3.50E-02	2.08E-02	1.75E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.10E+00	8.77E-03	3.50E-02	2.08E-02	1.74E-02	3.49E-02	3.50E-02	3.50E-02	3.50E-02
3.28E+00	8.60E-03	3.49E-02	2.07E-02	1.74E-02	3.48E-02	3.49E-02	3.49E-02	3.49E-02
3.48E+00	8.43E-03	3.49E-02	2.07E-02	1.73E-02	3.48E-02	3.49E-02	3.49E-02	3.49E-02
3.68E+00	8.25E-03	3.48E-02	2.06E-02	1.73E-02	3.47E-02	3.48E-02	3.48E-02	3.48E-02
3.89E+00	7.92E-03	3.48E-02	2.06E-02	1.72E-02	3.47E-02	3.48E-02	3.48E-02	3.48E-02
4.12E+00	6.43E-03	3.47E-02	2.05E-02	1.72E-02	3.46E-02	3.47E-02	3.47E-02	3.47E-02
4.36E+00	4.67E-03	3.47E-02	2.05E-02	1.72E-02	3.46E-02	3.47E-02	3.47E-02	3.47E-02
4.61E+00	2.81E-03	3.46E-02	2.04E-02	1.71E-02	3.45E-02	3.46E-02	3.46E-02	3.46E-02
4.88E+00	1.32E-03	3.45E-02	2.03E-02	1.71E-02	3.44E-02	3.45E-02	3.45E-02	3.45E-02
5.17E+00	3.57E-04	3.45E-02	2.03E-02	1.71E-02	3.43E-02	3.44E-02	3.44E-02	3.45E-02
5.47E+00	4.84E-06	3.44E-02	2.02E-02	1.70E-02	3.42E-02	3.44E-02	3.44E-02	3.44E-02
5.78E+00	0.00E+00	3.43E-02	2.01E-02	1.70E-02	3.42E-02	3.43E-02	3.43E-02	3.43E-02
6.12E+00	0.00E+00	3.42E-02	2.00E-02	1.69E-02	3.41E-02	3.42E-02	3.42E-02	3.42E-02
6.48E+00	0.00E+00	3.41E-02	1.99E-02	1.69E-02	3.40E-02	3.41E-02	3.41E-02	3.41E-02
6.86E+00	0.00E+00	3.40E-02	1.99E-02	1.68E-02	3.39E-02	3.40E-02	3.40E-02	3.40E-02
7.26E+00	0.00E+00	3.39E-02	1.98E-02	1.67E-02	3.38E-02	3.39E-02	3.39E-02	3.39E-02
7.68E+00	0.00E+00	3.38E-02	1.97E-02	1.66E-02	3.37E-02	3.38E-02	3.38E-02	3.38E-02
8.13E+00	0.00E+00	3.37E-02	1.96E-02	1.66E-02	3.35E-02	3.37E-02	3.37E-02	3.37E-02
8.60E+00	0.00E+00	3.36E-02	1.95E-02	1.65E-02	3.34E-02	3.36E-02	3.36E-02	3.36E-02
9.10E+00	0.00E+00	3.35E-02	1.94E-02	1.64E-02	3.33E-02	3.34E-02	3.35E-02	3.35E-02
9.63E+00	0.00E+00	3.34E-02	1.93E-02	1.63E-02	3.31E-02	3.33E-02	3.34E-02	3.34E-02
1.00E+01	0.00E+00	3.33E-02	1.92E-02	1.62E-02	3.30E-02	3.32E-02	3.33E-02	3.33E-02
1.02E+01	0.00E+00	3.32E-02	1.92E-02	1.62E-02	3.30E-02	3.32E-02	3.32E-02	3.32E-02
1.08E+01	0.00E+00	3.31E-02	1.90E-02	1.61E-02	3.28E-02	3.30E-02	3.31E-02	3.31E-02
1.14E+01	0.00E+00	3.29E-02	1.89E-02	1.60E-02	3.27E-02	3.29E-02	3.29E-02	3.29E-02
1.21E+01	0.00E+00	3.28E-02	1.88E-02	1.59E-02	3.25E-02	3.27E-02	3.28E-02	3.28E-02
1.28E+01	0.00E+00	3.26E-02	1.86E-02	1.58E-02	3.23E-02	3.25E-02	3.26E-02	3.26E-02
1.35E+01	0.00E+00	3.24E-02	1.85E-02	1.57E-02	3.21E-02	3.24E-02	3.24E-02	3.24E-02
1.43E+01	0.00E+00	3.23E-02	1.83E-02	1.56E-02	3.19E-02	3.22E-02	3.22E-02	3.22E-02
1.51E+01	0.00E+00	3.21E-02	1.82E-02	1.53E-02	3.17E-02	3.20E-02	3.20E-02	3.21E-02
1.60E+01	0.00E+00	3.19E-02	1.80E-02	1.52E-02	3.15E-02	3.18E-02	3.18E-02	3.18E-02
1.70E+01	0.00E+00	3.16E-02	1.78E-02	1.50E-02	3.13E-02	3.15E-02	3.16E-02	3.16E-02
1.80E+01	0.00E+00	3.14E-02	1.76E-02	1.49E-02	3.10E-02	3.13E-02	3.14E-02	3.14E-02
1.90E+01	0.00E+00	3.12E-02	1.75E-02	1.47E-02	3.07E-02	3.11E-02	3.11E-02	3.12E-02

2.01E+01 0.00E+00 3.09E-02 1.73E-02 1.46E-02 3.05E-02 3.08E-02 3.09E-02 3.09E-02

2.13E+01 0.00E+00 3.07E-02 1.70E-02 1.44E-02 3.02E-02 3.05E-02 3.06E-02 3.07E-02

2.25E+01 0.00E+00 3.04E-02 1.68E-02 1.42E-02 2.99E-02 3.03E-02 3.04E-02 3.04E-02

2.38E+01 0.00E+00 3.01E-02 1.66E-02 1.40E-02 2.96E-02 3.00E-02 3.01E-02 3.01E-02

2.52E+01 0.00E+00 2.98E-02 1.64E-02 1.38E-02 2.92E-02 2.97E-02 2.98E-02 2.98E-02



2.67E+01 0.00E+00 2.95E-02 1.61E-02 1.37E-02 2.89E-02 2.93E-02 2.95E-02 2.95E-02

2.82E+01 0.00E+00 2.92E-02 1.59E-02 1.35E-02 2.85E-02 2.90E-02 2.91E-02 2.92E-02

2.99E+01 0.00E+00 2.88E-02 1.56E-02 1.32E-02 2.82E-02 2.86E-02 2.88E-02 2.88E-02

3.00E+01 0.00E+00 2.88E-02 1.56E-02 1.32E-02 2.81E-02 2.86E-02 2.87E-02 2.88E-02

3.16E+01 0.00E+00 2.85E-02 1.54E-02 1.30E-02 2.78E-02 2.82E-02 2.84E-02 2.84E-02

3.35E+01 0.00E+00 2.81E-02 1.51E-02 1.28E-02 2.73E-02 2.79E-02 2.80E-02 2.81E-02

3.54E+01 0.00E+00 2.77E-02 1.48E-02 1.25E-02 2.69E-02 2.75E-02 2.76E-02 2.77E-02

3.75E+01 0.00E+00 2.73E-02 1.45E-02 1.23E-02 2.64E-02 2.70E-02 2.72E-02 2.73E-02



3.97E+01 0.00E+00 2.69E-02 1.42E-02 1.20E-02 2.59E-02 2.66E-02 2.68E-02 2.68E-02

4.20E+01 0.00E+00 2.64E-02 1.39E-02 1.18E-02 2.55E-02 2.61E-02 2.63E-02 2.64E-02

4.44E+01 0.00E+00 2.60E-02 1.36E-02 1.15E-02 2.50E-02 2.57E-02 2.59E-02 2.59E-02

4.70E+01 0.00E+00 2.55E-02 1.32E-02 1.12E-02 2.44E-02 2.52E-02 2.54E-02 2.54E-02

4.97E+01 0.00E+00 2.50E-02 1.29E-02 1.09E-02 2.39E-02 2.47E-02 2.49E-02 2.49E-02

5.26E+01 0.00E+00 2.45E-02 1.25E-02 1.06E-02 2.34E-02 2.42E-02 2.44E-02 2.44E-02

5.57E+01 0.00E+00 2.39E-02 1.22E-02 1.03E-02 2.28E-02 2.36E-02 2.38E-02 2.39E-02

5.90E+01 0.00E+00 2.34E-02 1.18E-02 1.00E-02 2.22E-02 2.30E-02 2.33E-02 2.33E-02



6.24E+01 0.00E+00 2.28E-02 1.14E-02 9.71E-03 2.16E-02 2.25E-02 2.27E-02 2.27E-02

60E+01 0.00E+00 2.22E-02 1.10E-02 9.37E-03 2.10E-02 2.19E-02 2.21E-02 2.22E-02

99E+01 0.00E+00 2.16E-02 1.06E-02 9.04E-03 2.03E-02 2.13E-02 2.15E-02 2.15E-02

7.39E+01 0.00E+00 2.10E-02 1.02E-02 8.69E-03 1.96E-02 2.06E-02 2.09E-02 2.09E-02

7.82E+01 0.00E+00 2.03E-02 9.81E-03 8.36E-03 1.90E-02 2.00E-02 2.02E-02 2.03E-02

8.28E+01 0.00E+00 1.97E-02 9.40E-03 8.02E-03 1.83E-02 1.93E-02 1.96E-02 1.96E-02

8.76E+01 0.00E+00 1.90E-02 8.98E-03 7.63E-03 1.74E-02 1.86E-02 1.89E-02 1.89E-02

9.27E+01 0.00E+00 1.83E-02 8.55E-03 7.26E-03 1.66E-02 1.79E-02 1.82E-02 1.83E-02



9.81E+01 0.00E+00 1.76E-02 8.11E-03 6.89E-03 1.58E-02 1.72E-02 1.75E-02 1.76E-02

1.00E+02 0.00E+00 1.74E-02 7.97E-03 6.78E-03 1.56E-02 1.70E-02 1.73E-02 1.73E-02

1.04E+02 0.00E+00 1.69E-02 7.68E-03 6.54E-03 1.51E-02 1.65E-02 1.68E-02 1.68E-02

1.10E+02 0.00E+00 1.62E-02 7.25E-03 6.20E-03 1.43E-02 1.58E-02 1.61E-02 1.61E-02

1.16E+02 0.00E+00 1.54E-02 6.81E-03 5.80E-03 1.36E-02 1.50E-02 1.53E-02 1.54E-02

1.23E+02 0.00E+00 1.47E-02 6.39E-03 5.39E-03 1.27E-02 1.43E-02 1.46E-02 1.47E-02

1.30E+02 0.00E+00 1.40E-02 5.96E-03 5.06E-03 1.21E-02 1.35E-02 1.38E-02 1.39E-02

1.38E+02 0.00E+00 1.32E-02 5.54E-03 4.73E-03 1.13E-02 1.27E-02 1.31E-02 1.32E-02



1.46E+02 0.00E+00 1.25E-02 5.12E-03 4.33E-03 1.06E-02 1.20E-02 1.24E-02 1.24E-02

1.54E+02 0.00E+00 1.17E-02 4.71E-03 3.95E-03 9.75E-03 1.12E-02 1.16E-02 1.17E-02

1.63E+02 0.00E+00 1.10E-02 4.32E-03 3.60E-03 8.96E-03 1.05E-02 1.09E-02 1.09E-02

1.73E+02 0.00E+00 1.04E-02 3.93E-03 3.29E-03 8.28E-03 9.73E-03 1.02E-02 1.02E-02

1.83E+02 0.00E+00 9.81E-03 3.56E-03 2.99E-03 7.58E-03 9.02E-03 9.43E-03 9.49E-03

1.94E+02 0.00E+00 9.18E-03 3.20E-03 2.72E-03 6.84E-03 8.25E-03 8.73E-03 8.79E-03

2.05E+02 0.00E+00 8.54E-03 2.86E-03 2.46E-03 6.16E-03 7.57E-03 8.04E-03 8.10E-03

2.17E+02 0.00E+00 7.47E-03 2.53E-03 2.19E-03 5.55E-03 6.85E-03 7.33E-03 7.42E-03



2.29E+02 0.00E+00 6.82E-03 2.23E-03 1.96E-03 4.89E-03 6.15E-03 6.67E-03 6.77E-03

2.43E+02 0.00E+00 6.19E-03 1.95E-03 1.71E-03 4.36E-03 5.55E-03 6.00E-03 6.15E-03

2.57E+02 0.00E+00 5.59E-03 1.70E-03 1.49E-03 3.85E-03 4.99E-03 5.40E-03 5.55E-03

2.72E+02 0.00E+00 5.02E-03 1.46E-03 1.27E-03 3.38E-03 4.44E-03 4.84E-03 4.98E-03

2.88E+02 0.00E+00 4.48E-03 1.26E-03 1.09E-03 2.94E-03 3.91E-03 4.31E-03 4.44E-03

3.00E+02 0.00E+00 4.09E-03 1.12E-03 9.31E-04 2.65E-03 3.54E-03 3.94E-03 4.06E-03

3.05E+02 0.00E+00 3.96E-03 1.07E-03 8.86E-04 2.56E-03 3.41E-03 3.81E-03 3.93E-03

3.22E+02 0.00E+00 3.48E-03 9.03E-04 7.43E-04 2.21E-03 2.97E-03 3.28E-03 3.44E-03



3.41E+02 0.00E+00 3.04E-03 7.55E-04 6.16E-04 1.89E-03 2.57E-03 2.81E-03 3.00E-03

3.61E+02 0.00E+00 2.63E-03 6.26E-04 5.06E-04 1.57E-03 2.09E-03 2.38E-03 2.60E-03

3.82E+02 0.00E+00 2.26E-03 5.14E-04 4.08E-04 1.30E-03 1.75E-03 1.97E-03 2.23E-03

4.04E+02 0.00E+00 1.93E-03 4.17E-04 3.23E-04 1.08E-03 1.42E-03 1.67E-03 1.90E-03

4.28E+02 0.00E+00 1.63E-03 3.35E-04 2.47E-04 8.62E-04 1.18E-03 1.40E-03 1.60E-03

4.53E+02 0.00E+00 1.36E-03 2.66E-04 1.69E-04 6.75E-04 9.69E-04 1.16E-03 1.33E-03

4.79E+02 0.00E+00 1.12E-03 2.09E-04 1.18E-04 5.31E-04 7.73E-04 9.57E-04 1.09E-03

5.07E+02 0.00E+00 9.17E-04 1.61E-04 7.98E-05 4.16E-04 6.08E-04 7.74E-04 8.86E-04



5.36E+02 0.00E+00 7.41E-04 1.23E-04 5.38E-05 3.24E-04 4.87E-04 6.07E-04 6.99E-04

5.68E+02 0.00E+00 5.91E-04 9.26E-05 3.20E-05 2.52E-04 3.86E-04 4.72E-04 5.55E-04

0.01E+02 0.00E+00 4.66E-04 6.86E-05 1.61E-05 1.92E-04 2.98E-04 3.52E-04 4.31E-04

3.36E+02 0.00E+00 3.61E-04 5.00E-05 8.62E-06 1.43E-04 2.25E-04 2.69E-04 3.18E-04

6.73E+02 0.00E+00 2.77E-04 3.59E-05 4.46E-06 1.06E-04 1.68E-04 2.02E-04 2.37E-04

7.12E+02 0.00E+00 2.08E-04 2.53E-05 2.35E-06 7.77E-05 1.22E-04 1.44E-04 1.78E-04

7.53E+02 0.00E+00 1.54E-04 1.75E-05 1.31E-06 5.52E-05 8.81E-05 1.03E-04 1.28E-04

7.97E+02 0.00E+00 1.12E-04 1.19E-05 7.67E-07 3.90E-05 6.02E-05 7.35E-05 9.20E-05



8.44E+02 0.00E+00 8.04E-05 7.95E-06 4.09E-07 2.74E-05 4.29E-05 5.12E-05 6.47E-05

93E+02 0.00E+00 5.63E-05 5.23E-06 2.15E-07 1.89E-05 2.91E-05 3.38E-05 4.45E-05

9.45E+02 0.00E+00 3.87E-05 3.37E-06 1.35E-07 1.28E-05 1.92E-05 2.30E-05 3.00E-05

1.00E+03 0.00E+00 2.60E-05 2.13E-06 7.96E-08 8.19E-06 1.20E-05 1.53E-05 1.98E-05

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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-63.RAD

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

Repetition	Time of peak mean dose		Peak mean dose mrem/yr
	Years		
1	0.000E+00		2.154E-02
2	0.000E+00		2.153E-02
3	0.000E+00		2.154E-02

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS NI-63.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	-0.12	2	-0.04	18	0.01	18	0.00
Contaminated zone b parameter	15	-0.01	15	0.00	7	0.04	7	0.00
Evapotranspiration coefficient	10	-0.02	10	-0.01	3	0.14	3	0.01
Wind Speed	14	-0.01	14	0.00	11	0.02	11	0.00
Runoff coefficient	4	-0.06	4	-0.02	4	0.07	4	0.01
Well pump intake depth	8	-0.04	8	-0.01	9	0.03	9	0.00
b Parameter of Unsaturated zone 1	3	-0.08	3	-0.02	16	-0.01	16	0.00
Mass loading for inhalation	5	0.06	5	0.02	10	-0.02	10	0.00
Indoor dust filtration factor	11	0.02	11	0.00	15	0.02	15	0.00
Depth of soil mixing layer	9	0.03	9	0.01	14	-0.02	14	0.00
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	16	-0.01	16	0.00	12	-0.02	12	0.00
Weathering removal constant of all vegetation	17	0.01	17	0.00	13	-0.02	13	0.00
Wet foliar interception fraction of leafy vegetables	13	-0.01	13	0.00	17	-0.01	17	0.00
Humidity in air	12	0.01	12	0.00	6	0.05	6	0.01
Kd of Ni-63 in Contaminated Zone	7	0.04	7	0.01	2	0.22	2	0.02
Kd of Ni-63 in Unsaturated Zone 1	6	0.04	6	0.01	5	0.05	5	0.01
Kd of Ni-63 in Saturated Zone	18	0.00	18	0.00	8	0.03	8	0.00
R-SQUARE		0.92		0.92		0.99		0.99

-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-63.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	3	-0.11	3	-0.03	14	-0.03	14	0.00
Contaminated zone b parameter	10	-0.03	10	-0.01	17	-0.01	17	0.00
Evapotranspiration coefficient	11	0.03	11	0.01	3	0.12	3	0.01
Wind Speed	14	-0.02	14	0.00	16	0.01	16	0.00
Runoff coefficient	8	0.05	8	0.01	9	0.05	9	0.00
Well pump intake depth	4	-0.10	4	-0.03	11	-0.04	11	0.00
b Parameter of Unsaturated zone 1	6	-0.09	6	-0.03	12	0.04	12	0.00
Mass loading for inhalation	2	0.12	2	0.03	6	0.07	6	0.01
Indoor dust filtration factor	5	0.10	5	0.03	7	0.06	7	0.01
Depth of soil mixing layer	15	-0.01	15	0.00	5	-0.09	5	-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	18	0.00	18	0.00	4	0.11	4	0.01
Weathering removal constant of all vegetation	7	0.07	7	0.02	15	0.03	15	0.00
Wet foliar interception fraction of leafy vegetables	9	0.04	9	0.01	8	0.05	8	0.01
Humidity in air	13	0.02	13	0.01	10	-0.05	10	0.00
Kd of Ni-63 in Contaminated Zone	17	0.00	17	0.00	2	0.28	2	0.03
Kd of Ni-63 in Unsaturated Zone 1	12	-0.03	12	-0.01	18	0.00	18	0.00
Kd of Ni-63 in Saturated Zone	16	0.01	16	0.00	13	0.03	13	0.00
R-SQUARE		0.92		0.92		0.99		0.99

-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-63.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	9	-0.04	9	-0.01	10	0.03	10	0.00
Contaminated zone b parameter	6	-0.05	6	-0.02	13	-0.02	13	0.00
Evapotranspiration coefficient	17	-0.01	17	0.00	4	0.11	4	0.01
Wind Speed	8	-0.05	8	-0.01	3	-0.12	3	-0.01
Runoff coefficient	2	-0.09	2	-0.03	17	0.01	17	0.00
Well pump intake depth	3	0.08	3	0.02	7	0.06	7	0.01
b Parameter of Unsaturated zone 1	14	0.03	14	0.01	11	0.03	11	0.00
Mass loading for inhalation	15	0.02	15	0.01	16	0.01	16	0.00
Indoor dust filtration factor	13	0.03	13	0.01	6	0.07	6	0.01
Depth of soil mixing layer	11	-0.03	10	-0.01	8	-0.04	8	0.00
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	18	0.01	18	0.00	15	-0.01	15	0.00
Weathering removal constant of all vegetation	7	-0.05	7	-0.01	12	-0.03	12	0.00
Wet foliar interception fraction of leafy vegetables	10	-0.03	11	-0.01	9	0.03	9	0.00
Humidity in air	16	0.02	16	0.00	5	-0.08	5	-0.01
Kd of Ni-63 in Contaminated Zone	4	0.07	4	0.02	2	0.27	2	0.03
Kd of Ni-63 in Unsaturated Zone 1	5	-0.06	5	-0.02	18	0.00	18	0.00
Kd of Ni-63 in Saturated Zone	12	0.03	12	0.01	14	0.02	14	0.00

R-SQUARE	0.92	0.92	0.99	0.99
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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.