

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
<hr/>										
Ni-63										
Min	0.00E+00	7.37E-05	2.82E-05	2.80E-05	2.76E-05	2.63E-05	2.27E-05	0.00E+00	0.00E+00	0.00E+00
Max	4.29E+02	1.89E+00	1.89E+00	1.62E+00	1.19E+00	6.54E-01	2.15E-01	5.25E-02	4.85E-03	2.27E-05
Avg	1.14E+01	6.36E-02	6.31E-02	6.05E-02	5.61E-02	4.50E-02	2.95E-02	1.25E-02	2.40E-03	1.09E-05
Std	4.72E+01	1.54E-01	1.54E-01	1.40E-01	1.17E-01	7.18E-02	3.06E-02	7.46E-03	1.15E-03	8.10E-06
ALL										
Min	0.00E+00	7.37E-05	2.82E-05	2.80E-05	2.76E-05	2.63E-05	2.27E-05	0.00E+00	0.00E+00	0.00E+00
Max	4.29E+02	1.89E+00	1.89E+00	1.62E+00	1.19E+00	6.54E-01	2.15E-01	5.25E-02	4.85E-03	2.27E-05
Avg	1.14E+01	6.36E-02	6.31E-02	6.05E-02	5.61E-02	4.50E-02	2.95E-02	1.25E-02	2.40E-03	1.09E-05
Std	4.72E+01	1.54E-01	1.54E-01	1.40E-01	1.17E-01	7.18E-02	3.06E-02	7.46E-03	1.15E-03	8.10E-06
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ALL is total dose summed for all nuclides.

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-63									
Min		1.27E-09	1.26E-09	1.25E-09	1.18E-09	1.02E-09	0.00E+00	0.00E+00	0.00E+00
Max		8.93E-05	7.70E-05	5.65E-05	3.02E-05	9.97E-06	2.43E-06	2.26E-07	1.13E-09
Avg		2.92E-06	2.80E-06	2.60E-06	2.09E-06	1.37E-06	5.90E-07	1.16E-07	5.37E-10
Std		7.13E-06	6.49E-06	5.42E-06	3.29E-06	1.38E-06	3.39E-07	5.61E-08	4.01E-10
ΣALL									
Min		1.27E-09	1.26E-09	1.25E-09	1.18E-09	1.02E-09	0.00E+00	0.00E+00	0.00E+00
Max		8.93E-05	7.70E-05	5.65E-05	3.02E-05	9.97E-06	2.43E-06	2.26E-07	1.13E-09
Avg		2.92E-06	2.80E-06	2.60E-06	2.09E-06	1.37E-06	5.90E-07	1.16E-07	5.37E-10
Std		7.13E-06	6.49E-06	5.42E-06	3.29E-06	1.38E-06	3.39E-07	5.61E-08	4.01E-10

ΣALL is total risk summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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	3.71E-08	1.65E-07	1.47E-07	8.15E-08	3.52E-08	2.37E-10
Avg		0.00E+00	0.00E+00	3.45E-11	8.32E-10	1.47E-09	1.24E-09	1.77E-09	2.01E-11
Std		0.00E+00	0.00E+00	9.99E-10	7.91E-09	9.80E-09	6.74E-09	3.71E-09	2.76E-11
ΣALL									
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	3.71E-08	1.65E-07	1.47E-07	8.15E-08	3.52E-08	2.37E-10
Avg		0.00E+00	0.00E+00	3.45E-11	8.32E-10	1.47E-09	1.24E-09	1.77E-09	2.01E-11
Std		0.00E+00	0.00E+00	9.99E-10	7.91E-09	9.80E-09	6.74E-09	3.71E-09	2.76E-11
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ΣALL is total pathway dose summed for all nuclides.

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
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 Dose vs Pathway(i): Plant (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
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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		5.48E-03	5.68E-03	6.13E-03	6.51E-03	5.64E-03	3.40E-03	8.02E-04	5.12E-06
Avg		3.27E-03	3.25E-03	3.20E-03	3.06E-03	2.63E-03	1.60E-03	4.14E-04	2.21E-06
Std		1.91E-03	1.89E-03	1.86E-03	1.79E-03	1.57E-03	9.75E-04	2.64E-04	1.83E-06
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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		5.48E-03	5.68E-03	6.13E-03	6.51E-03	5.64E-03	3.40E-03	8.02E-04	5.12E-06
Avg		3.27E-03	3.25E-03	3.20E-03	3.06E-03	2.63E-03	1.60E-03	4.14E-04	2.21E-06
Std		1.91E-03	1.89E-03	1.86E-03	1.79E-03	1.57E-03	9.75E-04	2.64E-04	1.83E-06
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ALL is total pathway dose summed for all nuclides.



Probabilistic Dose vs Pathway(i): Meat (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
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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		5.57E-04	5.78E-04	6.49E-04	8.55E-04	7.40E-04	4.46E-04	1.05E-04	6.71E-07
Avg		3.34E-04	3.32E-04	3.28E-04	3.15E-04	2.73E-04	1.68E-04	4.72E-05	2.82E-07
Std		1.96E-04	1.94E-04	1.90E-04	1.88E-04	1.69E-04	1.06E-04	3.26E-05	2.37E-07
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ΣALL									
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		5.57E-04	5.78E-04	6.49E-04	8.55E-04	7.40E-04	4.46E-04	1.05E-04	6.71E-07
Avg		3.34E-04	3.32E-04	3.28E-04	3.15E-04	2.73E-04	1.68E-04	4.72E-05	2.82E-07
Std		1.96E-04	1.94E-04	1.90E-04	1.88E-04	1.69E-04	1.06E-04	3.26E-05	2.37E-07
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Milk (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
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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		1.60E-02	1.67E-02	1.82E-02	2.15E-02	1.86E-02	1.12E-02	2.65E-03	1.69E-05
Avg		9.61E-03	9.54E-03	9.42E-03	9.02E-03	7.79E-03	4.76E-03	1.28E-03	7.19E-06
Std		5.63E-03	5.57E-03	5.47E-03	5.31E-03	4.72E-03	2.94E-03	8.42E-04	5.97E-06
<hr/>									
ΣALL									
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		1.60E-02	1.67E-02	1.82E-02	2.15E-02	1.86E-02	1.12E-02	2.65E-03	1.69E-05
Avg		9.61E-03	9.54E-03	9.42E-03	9.02E-03	7.79E-03	4.76E-03	1.28E-03	7.19E-06
Std		5.63E-03	5.57E-03	5.47E-03	5.31E-03	4.72E-03	2.94E-03	8.42E-04	5.97E-06
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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	1.92E-06	7.63E-06	6.61E-06	3.99E-06	9.40E-07	6.00E-09
Avg		0.00E+00	0.00E+00	2.85E-09	9.55E-08	1.68E-07	1.43E-07	1.97E-07	2.26E-09
Std		0.00E+00	0.00E+00	6.81E-08	8.12E-07	1.00E-06	6.95E-07	3.34E-07	2.34E-09
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	1.92E-06	7.63E-06	6.61E-06	3.99E-06	9.40E-07	6.00E-09
Avg		0.00E+00	0.00E+00	2.85E-09	9.55E-08	1.68E-07	1.43E-07	1.97E-07	2.26E-09
Std		0.00E+00	0.00E+00	6.81E-08	8.12E-07	1.00E-06	6.95E-07	3.34E-07	2.34E-09
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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Ni-63									
Min		4.99E-07	4.96E-07	4.89E-07	4.65E-07	4.02E-07	0.00E+00	0.00E+00	0.00E+00
Max		7.08E-01	6.07E-01	4.45E-01	1.98E-01	7.15E-02	1.31E-02	1.01E-03	2.01E-06
Avg		1.76E-02	1.67E-02	1.52E-02	1.15E-02	6.65E-03	2.11E-03	2.31E-04	4.39E-07
Std		5.49E-02	4.95E-02	4.10E-02	2.48E-02	1.10E-02	2.67E-03	2.37E-04	4.51E-07
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ΣALL									
Min		4.99E-07	4.96E-07	4.89E-07	4.65E-07	4.02E-07	0.00E+00	0.00E+00	0.00E+00
Max		7.08E-01	6.07E-01	4.45E-01	1.98E-01	7.15E-02	1.31E-02	1.01E-03	2.01E-06
Avg		1.76E-02	1.67E-02	1.52E-02	1.15E-02	6.65E-03	2.11E-03	2.31E-04	4.39E-07
Std		5.49E-02	4.95E-02	4.10E-02	2.48E-02	1.10E-02	2.67E-03	2.37E-04	4.51E-07
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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<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
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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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
<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
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

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

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Ni-63									
Min		7.22E-08	7.17E-08	7.07E-08	6.72E-08	5.81E-08	0.00E+00	0.00E+00	0.00E+00
Max		7.67E-02	7.20E-02	6.35E-02	4.09E-02	1.16E-02	3.66E-03	2.76E-04	4.85E-07
Avg		1.62E-03	1.55E-03	1.41E-03	1.08E-03	6.21E-04	1.97E-04	2.20E-05	4.24E-08
Std		5.41E-03	4.99E-03	4.30E-03	2.79E-03	1.22E-03	3.10E-04	2.95E-05	5.67E-08
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ALL									
Min		7.22E-08	7.17E-08	7.07E-08	6.72E-08	5.81E-08	0.00E+00	0.00E+00	0.00E+00
Max		7.67E-02	7.20E-02	6.35E-02	4.09E-02	1.16E-02	3.66E-03	2.76E-04	4.85E-07
Avg		1.62E-03	1.55E-03	1.41E-03	1.08E-03	6.21E-04	1.97E-04	2.20E-05	4.24E-08
Std		5.41E-03	4.99E-03	4.30E-03	2.79E-03	1.22E-03	3.10E-04	2.95E-05	5.67E-08
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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
<hr/>									
Ni-63									
Min		4.52E-08	4.49E-08	4.43E-08	4.21E-08	3.64E-08	0.00E+00	0.00E+00	0.00E+00
Max		5.52E-02	4.74E-02	3.48E-02	1.97E-02	6.48E-03	1.42E-03	9.92E-05	1.94E-07
Avg		1.48E-03	1.41E-03	1.28E-03	9.67E-04	5.57E-04	1.76E-04	1.94E-05	3.70E-08
Std		4.56E-03	4.15E-03	3.48E-03	2.15E-03	9.34E-04	2.24E-04	2.03E-05	3.90E-08
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ΣALL									
Min		4.52E-08	4.49E-08	4.43E-08	4.21E-08	3.64E-08	0.00E+00	0.00E+00	0.00E+00
Max		5.52E-02	4.74E-02	3.48E-02	1.97E-02	6.48E-03	1.42E-03	9.92E-05	1.94E-07
Avg		1.48E-03	1.41E-03	1.28E-03	9.67E-04	5.57E-04	1.76E-04	1.94E-05	3.70E-08
Std		4.56E-03	4.15E-03	3.48E-03	2.15E-03	9.34E-04	2.24E-04	2.03E-05	3.90E-08
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ΣALL is total pathway dose summed for all nuclides.



Probabilistic results summary : RESRAD Default Parameters

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

Probabilistic Dose vs Pathway(i): Milk (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
<hr/>									
Ni-63									
Min		9.24E-07	9.18E-07	9.05E-07	8.60E-07	7.44E-07	0.00E+00	0.00E+00	0.00E+00
Max		1.04E+00	8.95E-01	6.57E-01	4.15E-01	1.37E-01	3.13E-02	2.11E-03	4.17E-06
Avg		2.91E-02	2.77E-02	2.52E-02	1.91E-02	1.10E-02	3.47E-03	3.83E-04	7.32E-07
Std		9.00E-02	8.21E-02	6.94E-02	4.33E-02	1.87E-02	4.48E-03	4.10E-04	7.90E-07
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ΣALL									
Min		9.24E-07	9.18E-07	9.05E-07	8.60E-07	7.44E-07	0.00E+00	0.00E+00	0.00E+00
Max		1.04E+00	8.95E-01	6.57E-01	4.15E-01	1.37E-01	3.13E-02	2.11E-03	4.17E-06
Avg		2.91E-02	2.77E-02	2.52E-02	1.91E-02	1.10E-02	3.47E-03	3.83E-04	7.32E-07
Std		9.00E-02	8.21E-02	6.94E-02	4.33E-02	1.87E-02	4.48E-03	4.10E-04	7.90E-07
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA 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	4.98E-04	4.95E-04	4.88E-04	4.80E-04	4.42E-04	1.99E-04	2.55E-07	0.00E+00
0.050	1.33E-03	1.33E-03	1.31E-03	1.40E-03	1.32E-03	9.16E-04	2.78E-05	1.70E-21
0.075	2.90E-03	3.06E-03	3.02E-03	3.02E-03	3.06E-03	1.81E-03	1.08E-04	5.29E-13
0.100	4.89E-03	4.90E-03	5.03E-03	5.10E-03	4.92E-03	2.80E-03	2.90E-04	4.62E-10
0.125	7.20E-03	7.26E-03	7.43E-03	7.44E-03	7.08E-03	4.35E-03	6.30E-04	2.32E-08
0.150	9.25E-03	9.18E-03	9.42E-03	9.36E-03	8.53E-03	5.27E-03	9.03E-04	1.13E-07
0.175	1.13E-02	1.13E-02	1.16E-02	1.13E-02	1.02E-02	6.19E-03	1.15E-03	2.78E-07
0.200	1.28E-02	1.27E-02	1.28E-02	1.24E-02	1.12E-02	7.12E-03	1.39E-03	5.80E-07
0.225	1.42E-02	1.42E-02	1.43E-02	1.40E-02	1.27E-02	7.77E-03	1.58E-03	1.09E-06
0.250	1.60E-02	1.59E-02	1.60E-02	1.54E-02	1.36E-02	8.45E-03	1.80E-03	2.01E-06
0.275	1.71E-02	1.70E-02	1.69E-02	1.64E-02	1.44E-02	8.86E-03	1.93E-03	2.94E-06
0.300	1.80E-02	1.79E-02	1.76E-02	1.71E-02	1.51E-02	9.27E-03	2.05E-03	3.73E-06
0.325	1.87E-02	1.86E-02	1.84E-02	1.77E-02	1.57E-02	9.63E-03	2.17E-03	5.15E-06
0.350	1.94E-02	1.92E-02	1.90E-02	1.83E-02	1.61E-02	9.89E-03	2.27E-03	6.53E-06
0.375	2.00E-02	1.99E-02	1.97E-02	1.90E-02	1.66E-02	1.01E-02	2.35E-03	7.57E-06
0.400	2.07E-02	2.06E-02	2.04E-02	1.95E-02	1.71E-02	1.05E-02	2.40E-03	8.46E-06
0.425	2.11E-02	2.10E-02	2.07E-02	1.99E-02	1.74E-02	1.07E-02	2.46E-03	9.31E-06
0.450	2.15E-02	2.13E-02	2.11E-02	2.01E-02	1.77E-02	1.09E-02	2.52E-03	1.03E-05
0.475	2.17E-02	2.16E-02	2.14E-02	2.05E-02	1.81E-02	1.12E-02	2.57E-03	1.09E-05
0.500	2.22E-02	2.21E-02	2.19E-02	2.11E-02	1.85E-02	1.14E-02	2.62E-03	1.18E-05
0.525	2.28E-02	2.26E-02	2.24E-02	2.16E-02	1.90E-02	1.16E-02	2.69E-03	1.25E-05
0.550	2.37E-02	2.35E-02	2.33E-02	2.26E-02	1.97E-02	1.19E-02	2.74E-03	1.30E-05
0.575	2.47E-02	2.46E-02	2.42E-02	2.34E-02	2.04E-02	1.22E-02	2.79E-03	1.37E-05
0.600	2.60E-02	2.58E-02	2.55E-02	2.48E-02	2.17E-02	1.25E-02	2.86E-03	1.43E-05
0.625	2.81E-02	2.79E-02	2.76E-02	2.66E-02	2.32E-02	1.30E-02	2.92E-03	1.50E-05
0.650	2.97E-02	2.96E-02	2.92E-02	2.83E-02	2.45E-02	1.36E-02	2.99E-03	1.58E-05
0.675	3.27E-02	3.24E-02	3.18E-02	3.04E-02	2.63E-02	1.43E-02	3.08E-03	1.66E-05
0.700	3.55E-02	3.52E-02	3.48E-02	3.31E-02	2.78E-02	1.49E-02	3.15E-03	1.75E-05
0.725	3.95E-02	3.93E-02	3.86E-02	3.66E-02	3.05E-02	1.54E-02	3.23E-03	1.81E-05
0.750	4.24E-02	4.21E-02	4.15E-02	3.92E-02	3.25E-02	1.60E-02	3.32E-03	1.87E-05
0.775	4.84E-02	4.79E-02	4.72E-02	4.44E-02	3.66E-02	1.68E-02	3.42E-03	1.92E-05
0.800	5.56E-02	5.49E-02	5.39E-02	5.04E-02	4.03E-02	1.75E-02	3.50E-03	1.99E-05
0.825	6.28E-02	6.22E-02	6.11E-02	5.69E-02	4.43E-02	1.86E-02	3.55E-03	2.04E-05
0.850	7.71E-02	7.64E-02	7.48E-02	6.95E-02	5.24E-02	1.94E-02	3.56E-03	2.08E-05
0.875	9.49E-02	9.36E-02	9.09E-02	8.21E-02	6.15E-02	2.07E-02	3.58E-03	2.13E-05
0.900	1.20E-01	1.18E-01	1.14E-01	1.03E-01	7.17E-02	2.24E-02	3.61E-03	2.17E-05
0.925	1.67E-01	1.64E-01	1.57E-01	1.35E-01	8.11E-02	2.43E-02	3.66E-03	2.20E-05
0.950	2.39E-01	2.35E-01	2.24E-01	1.90E-01	1.00E-01	2.66E-02	3.77E-03	2.23E-05
0.975	4.51E-01	4.25E-01	3.84E-01	2.84E-01	1.20E-01	3.05E-02	3.99E-03	2.25E-05
1.000	1.89E+00	1.62E+00	1.19E+00	6.54E-01	2.15E-01	5.25E-02	4.85E-03	2.27E-05

Probabilistic results summary : RESRAD Default Parameters

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

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	5.74E-05	1.56E+00	6.21E-02	2.20E-02	1.16E-01	2.39E-01	4.77E-01	8.32E-01
1.00E+00	5.69E-05	1.37E+00	5.96E-02	2.19E-02	1.14E-01	2.35E-01	4.55E-01	7.42E-01
1.06E+00	5.69E-05	1.36E+00	5.95E-02	2.19E-02	1.14E-01	2.34E-01	4.54E-01	7.37E-01
1.12E+00	5.69E-05	1.35E+00	5.93E-02	2.19E-02	1.14E-01	2.34E-01	4.52E-01	7.32E-01
1.19E+00	5.69E-05	1.34E+00	5.92E-02	2.19E-02	1.14E-01	2.34E-01	4.51E-01	7.27E-01
1.25E+00	5.68E-05	1.32E+00	5.90E-02	2.19E-02	1.14E-01	2.33E-01	4.49E-01	7.21E-01
1.33E+00	5.68E-05	1.31E+00	5.88E-02	2.19E-02	1.14E-01	2.33E-01	4.48E-01	7.15E-01
1.40E+00	5.68E-05	1.30E+00	5.87E-02	2.19E-02	1.14E-01	2.33E-01	4.46E-01	7.09E-01
1.49E+00	5.67E-05	1.28E+00	5.85E-02	2.19E-02	1.14E-01	2.32E-01	4.45E-01	7.02E-01
1.57E+00	5.67E-05	1.27E+00	5.83E-02	2.19E-02	1.14E-01	2.32E-01	4.43E-01	6.95E-01
1.66E+00	5.67E-05	1.25E+00	5.81E-02	2.18E-02	1.13E-01	2.32E-01	4.41E-01	6.88E-01
1.76E+00	5.66E-05	1.24E+00	5.79E-02	2.18E-02	1.13E-01	2.31E-01	4.39E-01	6.80E-01
1.86E+00	5.66E-05	1.22E+00	5.76E-02	2.18E-02	1.13E-01	2.31E-01	4.37E-01	6.72E-01
1.97E+00	5.65E-05	1.21E+00	5.74E-02	2.18E-02	1.13E-01	2.30E-01	4.34E-01	6.64E-01
2.09E+00	5.65E-05	1.19E+00	5.72E-02	2.18E-02	1.13E-01	2.30E-01	4.32E-01	6.55E-01
2.21E+00	5.64E-05	1.17E+00	5.69E-02	2.18E-02	1.13E-01	2.29E-01	4.30E-01	6.46E-01
2.34E+00	5.64E-05	1.15E+00	5.66E-02	2.18E-02	1.13E-01	2.28E-01	4.27E-01	6.37E-01
2.47E+00	5.63E-05	1.13E+00	5.63E-02	2.17E-02	1.12E-01	2.28E-01	4.24E-01	6.27E-01
2.62E+00	5.63E-05	1.11E+00	5.60E-02	2.17E-02	1.12E-01	2.27E-01	4.21E-01	6.21E-01
2.77E+00	5.62E-05	1.09E+00	5.57E-02	2.17E-02	1.12E-01	2.26E-01	4.18E-01	6.15E-01
2.93E+00	5.61E-05	1.06E+00	5.54E-02	2.17E-02	1.12E-01	2.26E-01	4.15E-01	6.08E-01
3.00E+00	5.61E-05	1.05E+00	5.53E-02	2.17E-02	1.12E-01	2.25E-01	4.14E-01	6.06E-01
3.10E+00	5.61E-05	1.04E+00	5.51E-02	2.16E-02	1.11E-01	2.25E-01	4.12E-01	6.01E-01
3.28E+00	5.60E-05	1.02E+00	5.47E-02	2.16E-02	1.11E-01	2.24E-01	4.08E-01	5.94E-01
3.48E+00	5.59E-05	9.91E-01	5.43E-02	2.16E-02	1.11E-01	2.23E-01	4.04E-01	5.87E-01
3.68E+00	5.58E-05	9.65E-01	5.40E-02	2.16E-02	1.11E-01	2.22E-01	4.01E-01	5.79E-01
3.89E+00	5.58E-05	9.38E-01	5.36E-02	2.15E-02	1.10E-01	2.21E-01	3.97E-01	5.71E-01
4.12E+00	5.57E-05	9.11E-01	5.31E-02	2.15E-02	1.10E-01	2.20E-01	3.92E-01	5.63E-01
4.36E+00	5.56E-05	8.83E-01	5.27E-02	2.15E-02	1.10E-01	2.19E-01	3.88E-01	5.47E-01
4.61E+00	5.55E-05	8.54E-01	5.23E-02	2.15E-02	1.09E-01	2.18E-01	3.83E-01	5.24E-01
4.88E+00	5.54E-05	8.25E-01	5.18E-02	2.15E-02	1.09E-01	2.17E-01	3.78E-01	5.03E-01
5.17E+00	5.52E-05	7.95E-01	5.13E-02	2.14E-02	1.09E-01	2.15E-01	3.73E-01	4.93E-01
5.47E+00	5.51E-05	7.64E-01	5.08E-02	2.14E-02	1.08E-01	2.14E-01	3.68E-01	4.82E-01
5.78E+00	5.50E-05	7.33E-01	5.03E-02	2.13E-02	1.08E-01	2.12E-01	3.63E-01	4.71E-01
6.12E+00	5.49E-05	7.02E-01	4.98E-02	2.13E-02	1.07E-01	2.10E-01	3.57E-01	4.60E-01
6.48E+00	5.47E-05	6.78E-01	4.92E-02	2.12E-02	1.07E-01	2.09E-01	3.51E-01	4.48E-01
6.86E+00	5.46E-05	6.63E-01	4.86E-02	2.12E-02	1.06E-01	2.07E-01	3.38E-01	4.36E-01
7.26E+00	5.44E-05	6.46E-01	4.80E-02	2.11E-02	1.06E-01	2.05E-01	3.24E-01	4.23E-01
7.68E+00	5.43E-05	6.29E-01	4.74E-02	2.11E-02	1.05E-01	2.02E-01	3.11E-01	4.11E-01
8.13E+00	5.41E-05	6.12E-01	4.68E-02	2.10E-02	1.05E-01	2.00E-01	3.03E-01	3.98E-01
8.60E+00	5.39E-05	5.94E-01	4.62E-02	2.09E-02	1.04E-01	1.98E-01	2.96E-01	3.84E-01
9.10E+00	5.37E-05	5.75E-01	4.55E-02	2.09E-02	1.03E-01	1.96E-01	2.89E-01	3.71E-01
9.63E+00	5.35E-05	5.57E-01	4.48E-02	2.09E-02	1.03E-01	1.93E-01	2.77E-01	3.59E-01
1.00E+01	5.34E-05	5.44E-01	4.44E-02	2.09E-02	1.02E-01	1.90E-01	2.71E-01	3.54E-01
1.02E+01	5.33E-05	5.37E-01	4.42E-02	2.09E-02	1.02E-01	1.88E-01	2.69E-01	3.52E-01
1.08E+01	5.31E-05	5.18E-01	4.35E-02	2.08E-02	1.01E-01	1.83E-01	2.62E-01	3.44E-01
1.14E+01	5.28E-05	4.98E-01	4.27E-02	2.07E-02	1.00E-01	1.77E-01	2.55E-01	3.37E-01
1.21E+01	5.26E-05	4.77E-01	4.20E-02	2.06E-02	9.94E-02	1.72E-01	2.45E-01	3.23E-01
1.28E+01	5.23E-05	4.57E-01	4.13E-02	2.06E-02	9.85E-02	1.67E-01	2.35E-01	3.04E-01
1.35E+01	5.20E-05	4.36E-01	4.05E-02	2.05E-02	9.76E-02	1.63E-01	2.26E-01	2.95E-01
1.43E+01	5.17E-05	4.15E-01	3.97E-02	2.04E-02	9.66E-02	1.61E-01	2.17E-01	2.86E-01
1.51E+01	5.14E-05	3.93E-01	3.90E-02	2.03E-02	8.87E-02	1.56E-01	2.09E-01	2.73E-01
1.60E+01	5.11E-05	3.72E-01	3.82E-02	2.02E-02	8.76E-02	1.54E-01	1.92E-01	2.61E-01
1.70E+01	5.07E-05	3.51E-01	3.74E-02	2.01E-02	8.64E-02	1.51E-01	1.82E-01	2.51E-01
1.80E+01	5.04E-05	3.30E-01	3.66E-02	2.00E-02	8.52E-02	1.45E-01	1.73E-01	2.31E-01
1.90E+01	5.00E-05	3.09E-01	3.58E-02	1.99E-02	8.40E-02	1.39E-01	1.66E-01	2.12E-01

2.01E+01 4.96E-05 2.88E-01 3.50E-02 1.97E-02 8.27E-02 1.36E-01 1.61E-01 1.99E-01

2.13E+01 4.92E-05 2.68E-01 3.41E-02 1.95E-02 8.09E-02 1.32E-01 1.54E-01 1.90E-01

2.25E+01 4.87E-05 2.48E-01 3.33E-02 1.94E-02 7.98E-02 1.28E-01 1.47E-01 1.82E-01

2.38E+01 4.83E-05 2.28E-01 3.25E-02 1.92E-02 7.77E-02 1.24E-01 1.40E-01 1.73E-01

2.52E+01 4.78E-05 2.09E-01 3.17E-02 1.89E-02 7.62E-02 1.19E-01 1.36E-01 1.65E-01



2.67E+01 4.73E-05 1.96E-01 3.08E-02 1.88E-02 7.46E-02 1.13E-01 1.30E-01 1.56E-01

2.82E+01 4.68E-05 1.85E-01 3.00E-02 1.86E-02 7.16E-02 1.09E-01 1.24E-01 1.48E-01

2.99E+01 4.62E-05 1.75E-01 2.92E-02 1.84E-02 6.96E-02 1.01E-01 1.18E-01 1.39E-01

3.00E+01 4.62E-05 1.74E-01 2.91E-02 1.84E-02 6.95E-02 1.01E-01 1.18E-01 1.39E-01

3.16E+01 4.56E-05 1.64E-01 2.83E-02 1.82E-02 6.62E-02 9.36E-02 1.12E-01 1.31E-01

3.35E+01 4.50E-05 1.54E-01 2.75E-02 1.80E-02 6.29E-02 9.03E-02 1.08E-01 1.23E-01

3.54E+01 4.44E-05 1.44E-01 2.67E-02 1.78E-02 5.96E-02 8.64E-02 1.03E-01 1.17E-01

3.75E+01 4.37E-05 1.34E-01 2.59E-02 1.75E-02 5.80E-02 8.22E-02 9.65E-02 1.13E-01



3.97E+01 4.31E-05 1.24E-01 2.50E-02 1.72E-02 5.54E-02 7.58E-02 9.19E-02 1.04E-01

4.20E+01 4.23E-05 1.14E-01 2.42E-02 1.70E-02 5.40E-02 7.29E-02 8.71E-02 9.66E-02

4.44E+01 4.16E-05 1.04E-01 2.34E-02 1.67E-02 5.23E-02 6.91E-02 8.18E-02 9.24E-02

4.70E+01 4.08E-05 9.79E-02 2.26E-02 1.64E-02 4.96E-02 6.58E-02 7.58E-02 8.91E-02

4.97E+01 4.00E-05 9.39E-02 2.18E-02 1.61E-02 4.76E-02 6.23E-02 7.07E-02 8.57E-02

5.26E+01 3.92E-05 8.98E-02 2.10E-02 1.58E-02 4.45E-02 5.94E-02 6.56E-02 7.80E-02

5.57E+01 3.83E-05 8.57E-02 2.02E-02 1.55E-02 4.26E-02 5.46E-02 6.11E-02 7.35E-02

5.90E+01    3.75E-05    8.16E-02    1.95E-02    1.51E-02    4.07E-02    5.11E-02    5.74E-02    7.01E-02



6.24E+01 2.68E-05 7.74E-02 1.87E-02 1.48E-02 3.84E-02 4.72E-02 5.41E-02 6.66E-02

6.60E+01 1.44E-05 7.32E-02 1.79E-02 1.44E-02 3.63E-02 4.44E-02 5.02E-02 6.31E-02

6.99E+01 7.45E-06 6.91E-02 1.71E-02 1.41E-02 3.42E-02 4.13E-02 4.77E-02 5.92E-02

7.39E+01    3.71E-06    6.49E-02    1.64E-02    1.37E-02    3.22E-02    3.90E-02    4.44E-02    5.45E-02

7.82E+01 1.78E-06 6.09E-02 1.56E-02 1.33E-02 3.00E-02 3.64E-02 4.20E-02 5.00E-02

8.28E+01 8.15E-07 5.74E-02 1.49E-02 1.28E-02 2.81E-02 3.42E-02 3.96E-02 4.57E-02

8.76E+01 3.57E-07 5.39E-02 1.42E-02 1.24E-02 2.64E-02 3.18E-02 3.72E-02 4.24E-02

9.27E+01 1.49E-07 5.04E-02 1.35E-02 1.20E-02 2.47E-02 2.96E-02 3.45E-02 3.96E-02



9.81E+01 5.92E-08 4.70E-02 1.28E-02 1.15E-02 2.31E-02 2.75E-02 3.21E-02 3.67E-02

1.00E+02 4.30E-08 4.59E-02 1.25E-02 1.13E-02 2.25E-02 2.67E-02 3.14E-02 3.58E-02

1.04E+02 2.23E-08 4.36E-02 1.21E-02 1.11E-02 2.17E-02 2.55E-02 2.95E-02 3.40E-02

1.10E+02 7.92E-09 4.03E-02 1.14E-02 1.06E-02 2.03E-02 2.37E-02 2.69E-02 3.13E-02

1.16E+02 2.65E-09 3.71E-02 1.07E-02 1.01E-02 1.89E-02 2.17E-02 2.50E-02 2.86E-02

1.23E+02 8.32E-10 3.40E-02 1.01E-02 9.64E-03 1.76E-02 2.02E-02 2.31E-02 2.61E-02

1.30E+02 2.44E-10 3.09E-02 9.47E-03 9.19E-03 1.60E-02 1.86E-02 2.12E-02 2.45E-02

1.38E+02 6.67E-11 2.80E-02 8.85E-03 8.67E-03 1.49E-02 1.69E-02 1.94E-02 2.19E-02



1.46E+02 1.69E-11 2.53E-02 8.26E-03 8.16E-03 1.36E-02 1.55E-02 1.77E-02 1.94E-02

1.54E+02 3.95E-12 2.26E-02 7.68E-03 7.69E-03 1.22E-02 1.40E-02 1.61E-02 1.76E-02

1.63E+02    8.48E-13    2.01E-02    7.12E-03    7.23E-03    1.10E-02    1.28E-02    1.48E-02    1.58E-02

1.73E+02 1.67E-13 1.78E-02 6.59E-03 6.72E-03 1.02E-02 1.17E-02 1.32E-02 1.42E-02

1.83E+02    2.98E-14    1.56E-02    6.08E-03    6.28E-03    9.34E-03    1.06E-02    1.17E-02    1.26E-02

1.94E+02 4.81E-15 1.36E-02 5.59E-03 5.85E-03 8.57E-03 9.59E-03 1.05E-02 1.12E-02

2.05E+02 6.99E-16 1.18E-02 5.11E-03 5.41E-03 7.68E-03 8.57E-03 9.38E-03 9.85E-03

2.17E+02    9.07E-17    1.01E-02    4.66E-03    4.95E-03    6.91E-03    7.68E-03    8.29E-03    8.69E-03



2.29E+02 1.05E-17 8.85E-03 4.22E-03 4.52E-03 6.21E-03 6.91E-03 7.25E-03 7.78E-03

2.43E+02 1.06E-18 7.81E-03 3.80E-03 4.11E-03 5.58E-03 6.17E-03 6.38E-03 6.92E-03

2.57E+02    9.47E-20    6.82E-03    3.39E-03    3.71E-03    5.02E-03    5.33E-03    5.65E-03    6.09E-03

2.72E+02    0.00E+00    5.91E-03    3.01E-03    3.31E-03    4.46E-03    4.70E-03    4.98E-03    5.37E-03

2.88E+02    0.00E+00    5.08E-03    2.65E-03    2.90E-03    3.95E-03    4.14E-03    4.40E-03    4.67E-03

3.00E+02    0.00E+00    4.57E-03    2.41E-03    2.61E-03    3.60E-03    3.78E-03    4.00E-03    4.20E-03

3.05E+02    0.00E+00    4.41E-03    2.33E-03    2.52E-03    3.47E-03    3.65E-03    3.86E-03    4.04E-03

3.22E+02 0.00E+00 3.83E-03 2.03E-03 2.19E-03 3.05E-03 3.16E-03 3.36E-03 3.54E-03



3.41E+02    0.00E+00    3.29E-03    1.75E-03    1.90E-03    2.66E-03    2.74E-03    2.89E-03    3.05E-03

3.61E+02 0.00E+00 2.81E-03 1.50E-03 1.62E-03 2.30E-03 2.36E-03 2.47E-03 2.61E-03

3.82E+02    0.00E+00    2.37E-03    1.27E-03    1.39E-03    1.97E-03    2.01E-03    2.07E-03    2.20E-03

4.04E+02 0.00E+00 1.99E-03 1.07E-03 1.16E-03 1.68E-03 1.70E-03 1.74E-03 1.83E-03

4.28E+02 0.00E+00 1.65E-03 8.93E-04 9.77E-04 1.41E-03 1.43E-03 1.45E-03 1.52E-03

4.53E+02 0.00E+00 1.35E-03 7.37E-04 8.11E-04 1.18E-03 1.19E-03 1.21E-03 1.24E-03

4.79E+02 0.00E+00 1.09E-03 6.01E-04 6.64E-04 9.74E-04 9.80E-04 9.91E-04 1.01E-03

5.07E+02    0.00E+00    8.73E-04    4.84E-04    5.42E-04    7.95E-04    7.98E-04    8.04E-04    8.09E-04



5.36E+02	0.00E+00	6.89E-04	3.85E-04	4.34E-04	6.40E-04	6.45E-04	6.46E-04	6.51E-04
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5.68E+02	0.00E+00	5.37E-04	3.03E-04	3.44E-04	5.10E-04	5.14E-04	5.15E-04	5.16E-04
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6.01E+02    0.00E+00    4.12E-04    2.35E-04    2.69E-04    4.01E-04    4.05E-04    4.05E-04    4.07E-04

6.36E+02	0.00E+00	3.17E-04	1.80E-04	2.06E-04	3.11E-04	3.13E-04	3.15E-04	3.15E-04
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6.73E+02	0.00E+00	2.42E-04	1.35E-04	1.55E-04	2.37E-04	2.40E-04	2.40E-04	2.41E-04
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7.12E+02    0.00E+00    1.82E-04    1.00E-04    1.15E-04    1.78E-04    1.80E-04    1.81E-04    1.81E-04

7.53E+02	0.00E+00	1.35E-04	7.27E-05	8.26E-05	1.31E-04	1.33E-04	1.34E-04	1.34E-04
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7.97E+02	0.00E+00	9.80E-05	5.19E-05	5.88E-05	9.54E-05	9.70E-05	9.76E-05	9.79E-05
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8.44E+02 0.00E+00 7.01E-05 3.63E-05 4.13E-05 6.81E-05 6.93E-05 6.98E-05 7.00E-05

8.93E+02	0.00E+00	4.91E-05	2.49E-05	2.74E-05	4.77E-05	4.85E-05	4.89E-05	4.90E-05
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9.45E+02    0.00E+00    3.38E-05    1.67E-05    1.80E-05    3.27E-05    3.33E-05    3.35E-05    3.37E-05

1.00E+03	0.00E+00	2.27E-05	1.09E-05	1.16E-05	2.19E-05	2.23E-05	2.25E-05	2.26E-05
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Probabilistic results summary : RESRAD Default Parameters

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

Summary of dose at graphical times, reptition 2								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	6.23E-05	1.89E+00	6.35E-02	2.21E-02	1.25E-01	2.67E-01	4.58E-01	7.82E-01
1.00E+00	6.18E-05	1.62E+00	6.09E-02	2.20E-02	1.23E-01	2.61E-01	4.39E-01	7.44E-01
1.06E+00	6.18E-05	1.61E+00	6.08E-02	2.20E-02	1.23E-01	2.61E-01	4.38E-01	7.42E-01
1.12E+00	6.18E-05	1.59E+00	6.06E-02	2.20E-02	1.23E-01	2.61E-01	4.36E-01	7.40E-01
1.19E+00	6.17E-05	1.58E+00	6.05E-02	2.20E-02	1.22E-01	2.60E-01	4.35E-01	7.38E-01
1.25E+00	6.17E-05	1.56E+00	6.03E-02	2.20E-02	1.22E-01	2.60E-01	4.34E-01	7.35E-01
1.33E+00	6.17E-05	1.54E+00	6.01E-02	2.20E-02	1.22E-01	2.59E-01	4.32E-01	7.33E-01
1.40E+00	6.16E-05	1.52E+00	5.99E-02	2.20E-02	1.22E-01	2.59E-01	4.31E-01	7.30E-01
1.49E+00	6.16E-05	1.50E+00	5.97E-02	2.20E-02	1.22E-01	2.58E-01	4.29E-01	7.27E-01
1.57E+00	6.16E-05	1.48E+00	5.95E-02	2.20E-02	1.22E-01	2.58E-01	4.28E-01	7.24E-01
1.66E+00	6.15E-05	1.46E+00	5.93E-02	2.20E-02	1.22E-01	2.57E-01	4.26E-01	7.21E-01
1.76E+00	6.15E-05	1.44E+00	5.91E-02	2.20E-02	1.21E-01	2.57E-01	4.24E-01	7.18E-01
1.86E+00	6.14E-05	1.42E+00	5.89E-02	2.20E-02	1.21E-01	2.56E-01	4.22E-01	7.14E-01
1.97E+00	6.14E-05	1.40E+00	5.86E-02	2.20E-02	1.21E-01	2.56E-01	4.20E-01	7.11E-01
2.09E+00	6.13E-05	1.37E+00	5.84E-02	2.20E-02	1.21E-01	2.55E-01	4.18E-01	7.07E-01
2.21E+00	6.13E-05	1.34E+00	5.81E-02	2.20E-02	1.20E-01	2.54E-01	4.16E-01	7.03E-01
2.34E+00	6.12E-05	1.32E+00	5.78E-02	2.20E-02	1.20E-01	2.54E-01	4.14E-01	6.98E-01
2.47E+00	6.12E-05	1.29E+00	5.75E-02	2.19E-02	1.20E-01	2.53E-01	4.11E-01	6.94E-01
2.62E+00	6.11E-05	1.26E+00	5.72E-02	2.20E-02	1.20E-01	2.52E-01	4.09E-01	6.89E-01
2.77E+00	6.10E-05	1.23E+00	5.69E-02	2.19E-02	1.19E-01	2.51E-01	4.06E-01	6.84E-01
2.93E+00	6.10E-05	1.20E+00	5.66E-02	2.19E-02	1.19E-01	2.50E-01	4.03E-01	6.79E-01
3.00E+00	6.09E-05	1.19E+00	5.64E-02	2.19E-02	1.19E-01	2.50E-01	4.02E-01	6.76E-01
3.10E+00	6.09E-05	1.17E+00	5.62E-02	2.19E-02	1.19E-01	2.49E-01	4.00E-01	6.73E-01
3.28E+00	6.08E-05	1.14E+00	5.59E-02	2.19E-02	1.18E-01	2.48E-01	3.97E-01	6.67E-01
3.48E+00	6.07E-05	1.11E+00	5.55E-02	2.18E-02	1.18E-01	2.47E-01	3.94E-01	6.61E-01
3.68E+00	6.06E-05	1.07E+00	5.51E-02	2.18E-02	1.18E-01	2.46E-01	3.90E-01	6.55E-01
3.89E+00	6.05E-05	1.04E+00	5.47E-02	2.18E-02	1.17E-01	2.45E-01	3.87E-01	6.48E-01
4.12E+00	6.04E-05	1.00E+00	5.43E-02	2.18E-02	1.17E-01	2.44E-01	3.83E-01	6.35E-01
4.36E+00	6.03E-05	9.65E-01	5.38E-02	2.17E-02	1.16E-01	2.42E-01	3.79E-01	6.08E-01
4.61E+00	6.02E-05	9.27E-01	5.34E-02	2.17E-02	1.16E-01	2.40E-01	3.75E-01	5.91E-01
4.88E+00	6.01E-05	8.90E-01	5.29E-02	2.17E-02	1.16E-01	2.38E-01	3.72E-01	5.81E-01
5.17E+00	6.00E-05	8.55E-01	5.24E-02	2.16E-02	1.15E-01	2.36E-01	3.68E-01	5.71E-01
5.47E+00	5.99E-05	8.40E-01	5.19E-02	2.16E-02	1.14E-01	2.34E-01	3.64E-01	5.61E-01
5.78E+00	5.97E-05	8.26E-01	5.14E-02	2.15E-02	1.14E-01	2.32E-01	3.61E-01	5.50E-01
6.12E+00	5.96E-05	8.10E-01	5.08E-02	2.15E-02	1.13E-01	2.30E-01	3.57E-01	5.39E-01
6.48E+00	5.94E-05	7.95E-01	5.03E-02	2.14E-02	1.13E-01	2.27E-01	3.53E-01	5.27E-01
6.86E+00	5.93E-05	7.78E-01	4.97E-02	2.14E-02	1.12E-01	2.25E-01	3.48E-01	5.15E-01
7.26E+00	5.91E-05	7.61E-01	4.91E-02	2.13E-02	1.11E-01	2.22E-01	3.44E-01	5.03E-01
7.68E+00	5.89E-05	7.43E-01	4.85E-02	2.13E-02	1.11E-01	2.19E-01	3.31E-01	4.90E-01
8.13E+00	5.87E-05	7.25E-01	4.79E-02	2.12E-02	1.10E-01	2.16E-01	3.17E-01	4.77E-01
8.60E+00	5.85E-05	7.06E-01	4.72E-02	2.11E-02	1.09E-01	2.13E-01	3.13E-01	4.54E-01
9.10E+00	5.83E-05	6.87E-01	4.66E-02	2.11E-02	1.08E-01	2.10E-01	3.08E-01	4.29E-01
9.63E+00	5.81E-05	6.67E-01	4.59E-02	2.10E-02	1.07E-01	2.07E-01	3.04E-01	4.04E-01
1.00E+01	5.79E-05	6.54E-01	4.55E-02	2.10E-02	1.07E-01	2.05E-01	3.00E-01	3.97E-01
1.02E+01	5.78E-05	6.47E-01	4.52E-02	2.09E-02	1.06E-01	2.03E-01	2.99E-01	3.91E-01
1.08E+01	5.76E-05	6.26E-01	4.45E-02	2.08E-02	1.05E-01	1.93E-01	2.90E-01	3.57E-01
1.14E+01	5.73E-05	6.04E-01	4.38E-02	2.08E-02	1.04E-01	1.89E-01	2.80E-01	3.30E-01
1.21E+01	5.71E-05	5.82E-01	4.31E-02	2.07E-02	1.03E-01	1.87E-01	2.72E-01	3.11E-01
1.28E+01	5.68E-05	5.60E-01	4.24E-02	2.06E-02	1.03E-01	1.85E-01	2.63E-01	3.01E-01
1.35E+01	5.65E-05	5.37E-01	4.16E-02	2.05E-02	1.02E-01	1.83E-01	2.53E-01	2.91E-01
1.43E+01	5.61E-05	5.14E-01	4.09E-02	2.04E-02	1.00E-01	1.79E-01	2.37E-01	2.81E-01
1.51E+01	5.58E-05	4.91E-01	4.01E-02	2.03E-02	9.79E-02	1.74E-01	2.24E-01	2.72E-01
1.60E+01	5.55E-05	4.68E-01	3.93E-02	2.02E-02	9.66E-02	1.58E-01	2.17E-01	2.66E-01
1.70E+01	5.51E-05	4.44E-01	3.85E-02	2.01E-02	9.52E-02	1.53E-01	2.11E-01	2.60E-01
1.80E+01	5.47E-05	4.20E-01	3.77E-02	2.00E-02	9.37E-02	1.50E-01	2.06E-01	2.54E-01
1.90E+01	5.43E-05	3.97E-01	3.69E-02	1.99E-02	9.22E-02	1.42E-01	1.98E-01	2.46E-01

2.01E+01 5.38E-05 3.73E-01 3.60E-02 1.98E-02 8.90E-02 1.41E-01 1.88E-01 2.31E-01



2.13E+01 5.34E-05 3.50E-01 3.52E-02 1.96E-02 8.73E-02 1.34E-01 1.79E-01 2.15E-01

2.25E+01 5.29E-05 3.26E-01 3.44E-02 1.95E-02 8.57E-02 1.26E-01 1.73E-01 2.09E-01

2.38E+01 5.24E-05 3.03E-01 3.35E-02 1.92E-02 8.35E-02 1.21E-01 1.67E-01 2.02E-01

2.52E+01 5.19E-05 2.81E-01 3.27E-02 1.90E-02 8.20E-02 1.17E-01 1.62E-01 1.95E-01

2.67E+01 5.13E-05 2.59E-01 3.18E-02 1.89E-02 8.02E-02 1.12E-01 1.53E-01 1.88E-01

2.82E+01 5.08E-05 2.38E-01 3.10E-02 1.87E-02 7.81E-02 1.07E-01 1.45E-01 1.76E-01

2.99E+01 5.02E-05 2.17E-01 3.01E-02 1.85E-02 7.46E-02 1.02E-01 1.37E-01 1.67E-01

3.00E+01 5.01E-05 2.15E-01 3.00E-02 1.84E-02 7.45E-02 1.02E-01 1.37E-01 1.66E-01



3.16E+01 4.95E-05 1.97E-01 2.92E-02 1.83E-02 7.05E-02 9.78E-02 1.30E-01 1.59E-01

3.35E+01 4.89E-05 1.78E-01 2.84E-02 1.80E-02 6.87E-02 9.35E-02 1.23E-01 1.52E-01

3.54E+01 4.82E-05 1.66E-01 2.75E-02 1.78E-02 6.63E-02 8.91E-02 1.18E-01 1.44E-01

3.75E+01 4.75E-05 1.58E-01 2.66E-02 1.75E-02 6.32E-02 8.43E-02 1.13E-01 1.30E-01

3.97E+01 4.68E-05 1.50E-01 2.58E-02 1.73E-02 6.01E-02 8.03E-02 1.06E-01 1.26E-01

4.20E+01 4.60E-05 1.41E-01 2.49E-02 1.70E-02 5.76E-02 7.60E-02 9.74E-02 1.12E-01

4.44E+01 4.52E-05 1.33E-01 2.40E-02 1.68E-02 5.47E-02 7.11E-02 9.21E-02 1.05E-01

4.70E+01 4.43E-05 1.25E-01 2.32E-02 1.65E-02 5.20E-02 6.71E-02 8.26E-02 1.02E-01



4.97E+01 4.35E-05 1.17E-01 2.23E-02 1.62E-02 4.98E-02 6.30E-02 7.49E-02 9.81E-02

5.26E+01    4.26E-05    1.09E-01    2.15E-02    1.58E-02    4.73E-02    5.96E-02    7.14E-02    9.21E-02

5.57E+01 4.16E-05 1.01E-01 2.06E-02 1.55E-02 4.56E-02 5.45E-02 6.73E-02 8.50E-02

5.90E+01 3.52E-05 9.53E-02 1.98E-02 1.51E-02 4.32E-02 5.17E-02 6.36E-02 7.81E-02

6.24E+01 1.91E-05 9.06E-02 1.90E-02 1.48E-02 3.98E-02 4.86E-02 5.92E-02 7.14E-02

6.60E+01 9.96E-06 8.60E-02 1.81E-02 1.44E-02 3.73E-02 4.63E-02 5.59E-02 6.50E-02

6.99E+01 0.00E+00 8.13E-02 1.73E-02 1.40E-02 3.52E-02 4.20E-02 5.25E-02 5.88E-02

7.39E+01 0.00E+00 7.66E-02 1.66E-02 1.37E-02 3.25E-02 4.01E-02 4.93E-02 5.33E-02



7.82E+01	0.00E+00	7.20E-02	1.58E-02	1.33E-02	3.05E-02	3.71E-02	4.53E-02	5.04E-02
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8.28E+01 0.00E+00 6.74E-02 1.50E-02 1.28E-02 2.82E-02 3.46E-02 4.14E-02 4.75E-02

8.76E+01 0.00E+00 6.28E-02 1.43E-02 1.24E-02 2.63E-02 3.23E-02 3.82E-02 4.23E-02

9.27E+01 0.00E+00 5.83E-02 1.35E-02 1.20E-02 2.48E-02 3.01E-02 3.51E-02 3.98E-02

9.81E+01 0.00E+00 5.39E-02 1.28E-02 1.16E-02 2.29E-02 2.81E-02 3.21E-02 3.67E-02

1.00E+02 0.00E+00 5.25E-02 1.26E-02 1.14E-02 2.24E-02 2.73E-02 3.10E-02 3.58E-02

1.04E+02 0.00E+00 4.96E-02 1.21E-02 1.12E-02 2.16E-02 2.62E-02 2.92E-02 3.40E-02

1.10E+02 0.00E+00 4.54E-02 1.14E-02 1.07E-02 2.02E-02 2.44E-02 2.68E-02 3.11E-02



1.16E+02 0.00E+00 4.15E-02 1.07E-02 1.02E-02 1.83E-02 2.24E-02 2.43E-02 2.88E-02

1.23E+02 0.00E+00 3.80E-02 1.01E-02 9.65E-03 1.70E-02 2.04E-02 2.25E-02 2.69E-02

1.30E+02    0.00E+00    3.46E-02    9.41E-03    9.14E-03    1.57E-02    1.84E-02    2.08E-02    2.50E-02

1.38E+02    0.00E+00    3.14E-02    8.80E-03    8.67E-03    1.46E-02    1.67E-02    1.92E-02    2.32E-02

1.46E+02 0.00E+00 2.83E-02 8.20E-03 8.21E-03 1.35E-02 1.54E-02 1.76E-02 2.14E-02

1.54E+02    0.00E+00    2.54E-02    7.62E-03    7.73E-03    1.24E-02    1.41E-02    1.59E-02    1.93E-02

1.63E+02    0.00E+00    2.26E-02    7.07E-03    7.20E-03    1.12E-02    1.29E-02    1.45E-02    1.73E-02

1.73E+02    0.00E+00    2.00E-02    6.54E-03    6.74E-03    1.02E-02    1.17E-02    1.31E-02    1.53E-02



1.83E+02 0.00E+00 1.75E-02 6.02E-03 6.26E-03 9.35E-03 1.05E-02 1.17E-02 1.35E-02

1.94E+02 0.00E+00 1.53E-02 5.52E-03 5.80E-03 8.54E-03 9.54E-03 1.04E-02 1.19E-02

2.05E+02    0.00E+00    1.32E-02    5.05E-03    5.33E-03    7.73E-03    8.63E-03    9.35E-03    1.08E-02

2.17E+02    0.00E+00    1.13E-02    4.60E-03    4.90E-03    7.03E-03    7.74E-03    8.39E-03    9.59E-03

2.29E+02    0.00E+00    9.60E-03    4.16E-03    4.47E-03    6.38E-03    6.90E-03    7.48E-03    8.34E-03

2.43E+02    0.00E+00    8.08E-03    3.75E-03    4.05E-03    5.70E-03    6.12E-03    6.51E-03    7.16E-03

2.57E+02 0.00E+00 6.88E-03 3.36E-03 3.68E-03 5.06E-03 5.35E-03 5.75E-03 6.16E-03

2.72E+02    0.00E+00    6.11E-03    2.99E-03    3.28E-03    4.49E-03    4.71E-03    5.10E-03    5.46E-03



2.88E+02    0.00E+00    5.34E-03    2.64E-03    2.89E-03    3.96E-03    4.15E-03    4.40E-03    4.76E-03

3.00E+02    0.00E+00    4.76E-03    2.40E-03    2.64E-03    3.61E-03    3.77E-03    4.00E-03    4.24E-03

3.05E+02    0.00E+00    4.56E-03    2.32E-03    2.55E-03    3.49E-03    3.62E-03    3.86E-03    4.07E-03

3.22E+02	0.00E+00	3.86E-03	2.02E-03	2.23E-03	3.05E-03	3.16E-03	3.34E-03	3.54E-03
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3.41E+02 0.00E+00 3.24E-03 1.75E-03 1.95E-03 2.66E-03 2.74E-03 2.87E-03 2.98E-03

3.61E+02	0.00E+00	2.72E-03	1.50E-03	1.69E-03	2.30E-03	2.35E-03	2.45E-03	2.52E-03
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3.82E+02 0.00E+00 2.31E-03 1.27E-03 1.43E-03 1.97E-03 2.01E-03 2.08E-03 2.15E-03

4.04E+02    0.00E+00    1.94E-03    1.07E-03    1.21E-03    1.68E-03    1.69E-03    1.75E-03    1.81E-03



4.28E+02 0.00E+00 1.61E-03 8.93E-04 1.01E-03 1.41E-03 1.43E-03 1.45E-03 1.49E-03

4.53E+02 0.00E+00 1.33E-03 7.35E-04 8.38E-04 1.18E-03 1.19E-03 1.20E-03 1.22E-03

4.79E+02	0.00E+00	1.08E-03	6.00E-04	6.86E-04	9.74E-04	9.78E-04	9.84E-04	1.02E-03
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5.07E+02    0.00E+00    8.68E-04    4.85E-04    5.51E-04    7.93E-04    7.98E-04    8.03E-04    8.21E-04

5.36E+02    0.00E+00    6.89E-04    3.86E-04    4.37E-04    6.39E-04    6.44E-04    6.47E-04    6.68E-04

5.68E+02	0.00E+00	5.39E-04	3.03E-04	3.46E-04	5.09E-04	5.14E-04	5.15E-04	5.28E-04
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6.01E+02    0.00E+00    4.16E-04    2.35E-04    2.68E-04    3.99E-04    4.04E-04    4.05E-04    4.10E-04

6.36E+02	0.00E+00	3.18E-04	1.79E-04	2.04E-04	3.09E-04	3.13E-04	3.15E-04	3.15E-04
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6.73E+02	0.00E+00	2.43E-04	1.35E-04	1.53E-04	2.36E-04	2.39E-04	2.40E-04	2.41E-04
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7.12E+02	0.00E+00	1.83E-04	9.99E-05	1.14E-04	1.77E-04	1.80E-04	1.81E-04	1.81E-04
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7.53E+02	0.00E+00	1.35E-04	7.27E-05	8.24E-05	1.30E-04	1.33E-04	1.34E-04	1.35E-04
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7.97E+02    0.00E+00    9.81E-05    5.19E-05    5.85E-05    9.48E-05    9.69E-05    9.75E-05    9.80E-05

8.44E+02    0.00E+00    7.01E-05    3.62E-05    4.06E-05    6.75E-05    6.92E-05    6.97E-05    7.00E-05

8.93E+02    0.00E+00    4.92E-05    2.48E-05    2.73E-05    4.70E-05    4.85E-05    4.88E-05    4.91E-05

9.45E+02    0.00E+00    3.38E-05    1.66E-05    1.80E-05    3.22E-05    3.33E-05    3.35E-05    3.37E-05

1.00E+03	0.00E+00	2.27E-05	1.09E-05	1.17E-05	2.16E-05	2.23E-05	2.25E-05	2.26E-05
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Probabilistic results summary : RESRAD Default Parameters

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

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	2.82E-05	1.61E+00	6.37E-02	2.25E-02	1.18E-01	2.40E-01	4.57E-01	1.03E+00
1.00E+00	2.80E-05	1.36E+00	6.11E-02	2.23E-02	1.17E-01	2.36E-01	4.36E-01	9.52E-01
1.06E+00	2.80E-05	1.35E+00	6.09E-02	2.23E-02	1.17E-01	2.35E-01	4.35E-01	9.48E-01
1.12E+00	2.80E-05	1.34E+00	6.08E-02	2.23E-02	1.16E-01	2.35E-01	4.34E-01	9.43E-01
1.19E+00	2.80E-05	1.32E+00	6.06E-02	2.23E-02	1.16E-01	2.35E-01	4.33E-01	9.38E-01
1.25E+00	2.80E-05	1.31E+00	6.05E-02	2.23E-02	1.16E-01	2.34E-01	4.31E-01	9.33E-01
1.33E+00	2.80E-05	1.29E+00	6.03E-02	2.23E-02	1.16E-01	2.34E-01	4.30E-01	9.27E-01
1.40E+00	2.80E-05	1.28E+00	6.01E-02	2.23E-02	1.16E-01	2.33E-01	4.29E-01	9.22E-01
1.49E+00	2.79E-05	1.26E+00	5.99E-02	2.23E-02	1.16E-01	2.33E-01	4.28E-01	9.16E-01
1.57E+00	2.79E-05	1.24E+00	5.97E-02	2.23E-02	1.16E-01	2.32E-01	4.26E-01	9.03E-01
1.66E+00	2.79E-05	1.22E+00	5.95E-02	2.22E-02	1.15E-01	2.32E-01	4.25E-01	8.88E-01
1.76E+00	2.79E-05	1.20E+00	5.92E-02	2.22E-02	1.15E-01	2.31E-01	4.23E-01	8.72E-01
1.86E+00	2.79E-05	1.18E+00	5.90E-02	2.22E-02	1.15E-01	2.30E-01	4.22E-01	8.59E-01
1.97E+00	2.78E-05	1.16E+00	5.88E-02	2.22E-02	1.15E-01	2.29E-01	4.20E-01	8.52E-01
2.09E+00	2.78E-05	1.14E+00	5.85E-02	2.22E-02	1.15E-01	2.28E-01	4.18E-01	8.44E-01
2.21E+00	2.78E-05	1.12E+00	5.82E-02	2.22E-02	1.14E-01	2.27E-01	4.17E-01	8.36E-01
2.34E+00	2.78E-05	1.10E+00	5.79E-02	2.21E-02	1.14E-01	2.26E-01	4.15E-01	8.27E-01
2.47E+00	2.77E-05	1.09E+00	5.77E-02	2.21E-02	1.14E-01	2.26E-01	4.13E-01	8.18E-01
2.62E+00	2.77E-05	1.08E+00	5.73E-02	2.21E-02	1.14E-01	2.25E-01	4.10E-01	8.09E-01
2.77E+00	2.77E-05	1.07E+00	5.70E-02	2.21E-02	1.13E-01	2.25E-01	4.08E-01	7.99E-01
2.93E+00	2.77E-05	1.05E+00	5.67E-02	2.21E-02	1.13E-01	2.24E-01	4.06E-01	7.89E-01
3.00E+00	2.76E-05	1.05E+00	5.65E-02	2.21E-02	1.13E-01	2.24E-01	4.05E-01	7.84E-01
3.10E+00	2.76E-05	1.04E+00	5.63E-02	2.21E-02	1.13E-01	2.23E-01	4.03E-01	7.78E-01
3.28E+00	2.76E-05	1.02E+00	5.60E-02	2.21E-02	1.13E-01	2.22E-01	4.01E-01	7.67E-01
3.48E+00	2.75E-05	1.01E+00	5.56E-02	2.20E-02	1.12E-01	2.21E-01	3.98E-01	7.55E-01
3.68E+00	2.75E-05	9.92E-01	5.52E-02	2.21E-02	1.12E-01	2.20E-01	3.95E-01	7.43E-01
3.89E+00	2.75E-05	9.75E-01	5.48E-02	2.20E-02	1.12E-01	2.18E-01	3.92E-01	7.31E-01
4.12E+00	2.74E-05	9.57E-01	5.43E-02	2.20E-02	1.11E-01	2.17E-01	3.89E-01	7.18E-01
4.36E+00	2.74E-05	9.39E-01	5.39E-02	2.20E-02	1.11E-01	2.16E-01	3.85E-01	7.04E-01
4.61E+00	2.73E-05	9.20E-01	5.34E-02	2.19E-02	1.10E-01	2.14E-01	3.82E-01	6.90E-01
4.88E+00	2.73E-05	9.01E-01	5.29E-02	2.19E-02	1.10E-01	2.13E-01	3.78E-01	6.76E-01
5.17E+00	2.72E-05	8.81E-01	5.24E-02	2.19E-02	1.09E-01	2.11E-01	3.74E-01	6.61E-01
5.47E+00	2.72E-05	8.60E-01	5.19E-02	2.18E-02	1.09E-01	2.09E-01	3.70E-01	6.45E-01
5.78E+00	2.71E-05	8.38E-01	5.14E-02	2.18E-02	1.08E-01	2.08E-01	3.66E-01	6.27E-01
6.12E+00	2.70E-05	8.16E-01	5.08E-02	2.18E-02	1.08E-01	2.06E-01	3.62E-01	6.12E-01
6.48E+00	2.70E-05	7.93E-01	5.02E-02	2.17E-02	1.07E-01	2.04E-01	3.56E-01	5.95E-01
6.86E+00	2.69E-05	7.70E-01	4.96E-02	2.17E-02	1.07E-01	2.02E-01	3.43E-01	5.77E-01
7.26E+00	2.68E-05	7.45E-01	4.90E-02	2.16E-02	1.06E-01	2.00E-01	3.29E-01	5.59E-01
7.68E+00	2.67E-05	7.21E-01	4.84E-02	2.16E-02	1.05E-01	1.98E-01	3.25E-01	5.40E-01
8.13E+00	2.66E-05	6.95E-01	4.78E-02	2.15E-02	1.04E-01	1.96E-01	3.20E-01	5.21E-01
8.60E+00	2.65E-05	6.70E-01	4.71E-02	2.14E-02	1.03E-01	1.94E-01	3.15E-01	5.02E-01
9.10E+00	2.64E-05	6.43E-01	4.64E-02	2.13E-02	1.03E-01	1.92E-01	3.10E-01	4.83E-01
9.63E+00	2.63E-05	6.17E-01	4.57E-02	2.13E-02	1.02E-01	1.90E-01	3.05E-01	4.63E-01
1.00E+01	2.63E-05	5.99E-01	4.52E-02	2.12E-02	1.01E-01	1.88E-01	3.01E-01	4.49E-01
1.02E+01	2.62E-05	5.90E-01	4.50E-02	2.12E-02	1.01E-01	1.85E-01	2.95E-01	4.43E-01
1.08E+01	2.61E-05	5.62E-01	4.43E-02	2.12E-02	9.98E-02	1.81E-01	2.78E-01	4.22E-01
1.14E+01	2.60E-05	5.35E-01	4.35E-02	2.11E-02	9.89E-02	1.78E-01	2.69E-01	4.02E-01
1.21E+01	2.59E-05	5.07E-01	4.28E-02	2.10E-02	9.78E-02	1.75E-01	2.62E-01	3.81E-01
1.28E+01	2.58E-05	4.80E-01	4.20E-02	2.09E-02	9.68E-02	1.72E-01	2.55E-01	3.69E-01
1.35E+01	2.56E-05	4.52E-01	4.12E-02	2.08E-02	9.53E-02	1.68E-01	2.48E-01	3.51E-01
1.43E+01	2.55E-05	4.24E-01	4.04E-02	2.07E-02	9.35E-02	1.55E-01	2.40E-01	3.30E-01
1.51E+01	2.53E-05	3.97E-01	3.96E-02	2.06E-02	9.17E-02	1.51E-01	2.32E-01	3.09E-01
1.60E+01	2.52E-05	3.70E-01	3.88E-02	2.04E-02	9.03E-02	1.49E-01	2.21E-01	2.88E-01
1.70E+01	2.50E-05	3.52E-01	3.80E-02	2.03E-02	8.90E-02	1.47E-01	2.13E-01	2.67E-01
1.80E+01	2.48E-05	3.34E-01	3.72E-02	2.02E-02	8.70E-02	1.44E-01	2.06E-01	2.50E-01
1.90E+01	2.46E-05	3.16E-01	3.63E-02	2.01E-02	8.56E-02	1.41E-01	1.96E-01	2.43E-01

2.01E+01 2.44E-05 2.99E-01 3.55E-02 1.99E-02 8.40E-02 1.36E-01 1.86E-01 2.23E-01

2.13E+01 2.42E-05 2.81E-01 3.46E-02 1.97E-02 8.23E-02 1.30E-01 1.76E-01 2.03E-01

2.25E+01 2.40E-05 2.64E-01 3.38E-02 1.95E-02 8.05E-02 1.25E-01 1.65E-01 1.88E-01

2.38E+01 2.38E-05 2.47E-01 3.29E-02 1.93E-02 7.90E-02 1.21E-01 1.54E-01 1.80E-01

2.52E+01 2.35E-05 2.29E-01 3.21E-02 1.92E-02 7.75E-02 1.15E-01 1.44E-01 1.73E-01



2.67E+01 2.33E-05 2.13E-01 3.12E-02 1.90E-02 7.56E-02 1.11E-01 1.31E-01 1.58E-01

2.82E+01 2.30E-05 2.00E-01 3.03E-02 1.88E-02 7.40E-02 1.07E-01 1.24E-01 1.47E-01

2.99E+01 2.28E-05 1.88E-01 2.95E-02 1.86E-02 7.24E-02 9.99E-02 1.19E-01 1.38E-01

3.00E+01 2.27E-05 1.87E-01 2.94E-02 1.86E-02 7.22E-02 9.96E-02 1.18E-01 1.38E-01

3.16E+01 2.25E-05 1.75E-01 2.86E-02 1.84E-02 7.06E-02 9.57E-02 1.09E-01 1.34E-01

3.35E+01 2.22E-05 1.63E-01 2.78E-02 1.82E-02 6.80E-02 9.15E-02 1.02E-01 1.30E-01

3.54E+01 2.19E-05 1.52E-01 2.69E-02 1.79E-02 6.47E-02 8.57E-02 9.65E-02 1.25E-01

3.75E+01 2.15E-05 1.43E-01 2.60E-02 1.77E-02 6.18E-02 8.22E-02 9.08E-02 1.21E-01



3.97E+01 2.12E-05 1.34E-01 2.52E-02 1.74E-02 5.85E-02 7.78E-02 8.57E-02 1.10E-01

4.20E+01 2.09E-05 1.26E-01 2.43E-02 1.72E-02 5.54E-02 7.42E-02 8.10E-02 1.05E-01

4.44E+01 2.05E-05 1.17E-01 2.35E-02 1.69E-02 5.15E-02 6.91E-02 7.62E-02 9.97E-02

4.70E+01    2.01E-05    1.09E-01    2.27E-02    1.66E-02    4.98E-02    6.37E-02    7.29E-02    9.43E-02

4.97E+01 1.97E-05 1.01E-01 2.18E-02 1.63E-02 4.82E-02 5.86E-02 6.67E-02 8.54E-02

5.26E+01 1.93E-05 9.28E-02 2.10E-02 1.60E-02 4.59E-02 5.57E-02 6.32E-02 8.11E-02

5.57E+01 1.89E-05 8.73E-02 2.02E-02 1.56E-02 4.38E-02 5.30E-02 5.97E-02 7.71E-02

5.90E+01 2.34E-05 8.24E-02 1.94E-02 1.53E-02 4.18E-02 4.91E-02 5.64E-02 7.14E-02



6.24E+01 1.25E-05 7.75E-02 1.86E-02 1.49E-02 3.95E-02 4.60E-02 5.24E-02 6.53E-02

6.60E+01 6.38E-06 7.27E-02 1.78E-02 1.46E-02 3.73E-02 4.33E-02 4.91E-02 5.94E-02

6.99E+01    3.14E-06    6.78E-02    1.70E-02    1.42E-02    3.45E-02    4.06E-02    4.62E-02    5.63E-02

7.39E+01 1.49E-06 6.31E-02 1.63E-02 1.39E-02 3.23E-02 3.79E-02 4.40E-02 5.09E-02

7.82E+01 6.73E-07 5.84E-02 1.55E-02 1.34E-02 3.02E-02 3.55E-02 4.14E-02 4.80E-02

8.28E+01 2.91E-07 5.38E-02 1.48E-02 1.30E-02 2.76E-02 3.31E-02 3.82E-02 4.39E-02

8.76E+01	1.20E-07	4.94E-02	1.40E-02	1.25E-02	2.58E-02	3.08E-02	3.51E-02	3.96E-02
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9.27E+01 4.68E-08 4.51E-02 1.33E-02 1.21E-02 2.42E-02 2.88E-02 3.29E-02 3.57E-02



9.81E+01	1.73E-08	4.10E-02	1.26E-02	1.16E-02	2.29E-02	2.65E-02	3.05E-02	3.34E-02
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1.00E+02 1.23E-08 3.96E-02 1.24E-02 1.15E-02 2.24E-02 2.56E-02 2.99E-02 3.27E-02

1.04E+02 6.04E-09 3.70E-02 1.19E-02 1.11E-02 2.12E-02 2.42E-02 2.84E-02 3.13E-02

1.10E+02 1.99E-09 3.33E-02 1.12E-02 1.06E-02 1.92E-02 2.25E-02 2.64E-02 2.92E-02

1.16E+02 6.11E-10 3.06E-02 1.06E-02 1.02E-02 1.79E-02 2.07E-02 2.44E-02 2.72E-02

1.23E+02 1.76E-10 2.80E-02 9.94E-03 9.70E-03 1.65E-02 1.90E-02 2.26E-02 2.52E-02

1.30E+02 4.70E-11 2.54E-02 9.31E-03 9.17E-03 1.54E-02 1.73E-02 2.10E-02 2.31E-02

1.38E+02 1.16E-11 2.30E-02 8.70E-03 8.73E-03 1.39E-02 1.59E-02 1.94E-02 2.12E-02



1.46E+02 2.65E-12 2.07E-02 8.11E-03 8.22E-03 1.28E-02 1.49E-02 1.73E-02 1.95E-02

1.54E+02 5.55E-13 1.85E-02 7.54E-03 7.74E-03 1.18E-02 1.35E-02 1.51E-02 1.77E-02

1.63E+02 1.06E-13 1.69E-02 6.99E-03 7.22E-03 1.08E-02 1.24E-02 1.36E-02 1.60E-02

1.73E+02 1.84E-14 1.55E-02 6.47E-03 6.76E-03 9.99E-03 1.12E-02 1.25E-02 1.44E-02

1.83E+02 2.89E-15 1.42E-02 5.97E-03 6.31E-03 9.12E-03 1.00E-02 1.14E-02 1.28E-02

1.94E+02 4.06E-16 1.29E-02 5.48E-03 5.78E-03 8.21E-03 9.19E-03 1.02E-02 1.14E-02

2.05E+02    5.10E-17    1.17E-02    5.02E-03    5.34E-03    7.48E-03    8.26E-03    9.17E-03    1.00E-02

2.17E+02 5.67E-18 1.05E-02 4.57E-03 4.86E-03 6.84E-03 7.51E-03 8.16E-03 8.84E-03



2.29E+02 5.54E-19 9.38E-03 4.13E-03 4.43E-03 6.12E-03 6.65E-03 7.14E-03 7.91E-03

2.43E+02    4.74E-20    8.33E-03    3.72E-03    4.02E-03    5.56E-03    5.98E-03    6.39E-03    7.04E-03

2.57E+02	0.00E+00	7.34E-03	3.32E-03	3.62E-03	5.00E-03	5.31E-03	5.64E-03	6.21E-03
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2.72E+02    0.00E+00    6.41E-03    2.96E-03    3.22E-03    4.47E-03    4.68E-03    5.02E-03    5.37E-03

2.88E+02    0.00E+00    5.49E-03    2.61E-03    2.86E-03    3.97E-03    4.14E-03    4.36E-03    4.59E-03

3.00E+02    0.00E+00    4.85E-03    2.38E-03    2.62E-03    3.62E-03    3.78E-03    3.94E-03    4.16E-03

3.05E+02	0.00E+00	4.63E-03	2.30E-03	2.54E-03	3.50E-03	3.65E-03	3.82E-03	4.02E-03
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3.22E+02    0.00E+00    4.22E-03    2.00E-03    2.22E-03    3.06E-03    3.18E-03    3.29E-03    3.49E-03



3.41E+02    0.00E+00    3.57E-03    1.73E-03    1.93E-03    2.67E-03    2.73E-03    2.85E-03    2.97E-03

3.61E+02 0.00E+00 2.99E-03 1.48E-03 1.67E-03 2.30E-03 2.33E-03 2.42E-03 2.54E-03

3.82E+02 0.00E+00 2.49E-03 1.26E-03 1.44E-03 1.97E-03 2.00E-03 2.05E-03 2.15E-03

4.04E+02 0.00E+00 2.04E-03 1.07E-03 1.21E-03 1.68E-03 1.69E-03 1.72E-03 1.79E-03

4.28E+02 0.00E+00 1.66E-03 8.91E-04 1.02E-03 1.41E-03 1.42E-03 1.44E-03 1.47E-03

4.53E+02 0.00E+00 1.33E-03 7.37E-04 8.47E-04 1.18E-03 1.19E-03 1.19E-03 1.22E-03

4.79E+02	0.00E+00	1.05E-03	6.01E-04	6.94E-04	9.71E-04	9.77E-04	9.81E-04	1.00E-03
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5.07E+02    0.00E+00    8.43E-04    4.85E-04    5.66E-04    7.92E-04    7.98E-04    8.00E-04    8.10E-04



5.36E+02	0.00E+00	6.75E-04	3.87E-04	4.56E-04	6.38E-04	6.43E-04	6.45E-04	6.47E-04
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5.68E+02	0.00E+00	5.33E-04	3.05E-04	3.57E-04	5.09E-04	5.13E-04	5.14E-04	5.16E-04
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6.01E+02 0.00E+00 4.15E-04 2.37E-04 2.75E-04 3.99E-04 4.04E-04 4.05E-04 4.05E-04

6.36E+02	0.00E+00	3.19E-04	1.81E-04	2.10E-04	3.09E-04	3.13E-04	3.14E-04	3.15E-04
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6.73E+02 0.00E+00 2.41E-04 1.37E-04 1.58E-04 2.36E-04 2.39E-04 2.40E-04 2.41E-04

7.12E+02    0.00E+00    1.82E-04    1.01E-04    1.17E-04    1.77E-04    1.80E-04    1.81E-04    1.81E-04

7.53E+02	0.00E+00	1.35E-04	7.37E-05	8.54E-05	1.31E-04	1.33E-04	1.34E-04	1.34E-04
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7.97E+02    0.00E+00    9.80E-05    5.27E-05    6.00E-05    9.47E-05    9.68E-05    9.75E-05    9.79E-05



8.44E+02 0.00E+00 7.01E-05 3.69E-05 4.13E-05 6.76E-05 6.91E-05 6.97E-05 7.00E-05

8.93E+02	0.00E+00	4.91E-05	2.52E-05	2.80E-05	4.70E-05	4.85E-05	4.88E-05	4.91E-05
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9.45E+02    0.00E+00    3.37E-05    1.69E-05    1.85E-05    3.24E-05    3.32E-05    3.35E-05    3.37E-05

1.00E+03	0.00E+00	2.27E-05	1.10E-05	1.21E-05	2.16E-05	2.23E-05	2.25E-05	2.27E-05
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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA NI-63.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	6.207E-02
2	0.000E+00	6.346E-02
3	0.000E+00	6.369E-02

Title : RESRAD Default Parameters

Input File : FCS BFM INSITU UA 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
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Contaminated zone erosion rate	13	-0.02	13	-0.02	8	-0.05	8	-0.02
Contaminated zone b parameter	3	-0.08	3	-0.07	16	0.01	16	0.00
Evapotranspiration coefficient	7	-0.04	7	-0.04	7	0.06	7	0.02
Wind Speed	8	0.03	8	0.03	5	-0.07	5	-0.03
Runoff coefficient	5	-0.06	5	-0.06	15	-0.01	15	0.00
b Parameter of Unsaturated zone 1	17	0.00	17	0.00	17	0.00	17	0.00
Mass loading for inhalation	15	-0.01	15	-0.01	6	-0.07	6	-0.03
Indoor dust filtration factor	10	0.02	10	0.02	13	-0.01	13	-0.01
Depth of soil mixing layer	12	-0.02	12	-0.02	10	0.04	10	0.02
Depth of roots	16	0.01	16	0.01	2	0.70	2	0.41
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	0.07	4	0.07	11	-0.04	11	-0.01
Weathering removal constant of all vegetation	9	-0.02	9	-0.02	3	-0.10	3	-0.04
Wet foliar interception fraction of leafy vegetables	6	-0.04	6	-0.04	14	-0.01	14	-0.01
Humidity in air	1	0.09	1	0.08	9	0.04	9	0.02
Cover erosion rate	11	-0.02	11	-0.02	4	0.09	4	0.04
Kd of Ni-63 in Contaminated Zone	2	-0.08	2	-0.08	1	-0.89	1	-0.80
Kd of Ni-63 in Saturated Zone	14	-0.01	14	-0.01	12	0.02	12	0.01
R-SQUARE					0.03	0.03	0.83	0.83

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

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



Title : RESRAD Default Parameters  
Input File : FCS BFM INSITU UA 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	8 -0.03	8 -0.03	17 0.00	17 0.00
Contaminated zone b parameter	10 0.02	10 0.02	7 0.06	7 0.02
Evapotranspiration coefficient	17 0.00	17 0.00	14 -0.01	14 0.00
Wind Speed	2 0.06	2 0.06	11 0.02	11 0.01
Runoff coefficient	12 0.01	12 0.01	8 0.06	8 0.02
b Parameter of Unsaturated zone 1	9 -0.02	9 -0.02	16 0.00	16 0.00
Mass loading for inhalation	14 -0.01	14 -0.01	15 0.01	15 0.00
Indoor dust filtration factor	3 -0.05	3 -0.05	9 -0.06	9 -0.02
Depth of soil mixing layer	1 0.06	1 0.06	12 -0.02	12 -0.01
Depth of roots	7 0.04	7 0.04	2 0.73	2 0.42
Wet weight crop yield of fruit, grain and non-leafy vegetables	11 0.02	11 0.02	6 0.06	6 0.03
Weathering removal constant of all vegetation	5 -0.04	5 -0.04	3 -0.16	3 -0.07
Wet foliar interception fraction of leafy vegetables	4 0.04	4 0.04	4 0.09	4 0.04
Humidity in air	15 -0.01	15 -0.01	10 -0.05	10 -0.02
Cover erosion rate	16 -0.01	16 -0.01	13 0.01	13 0.00
Kd of Ni-63 in Contaminated Zone	6 -0.04	6 -0.04	1 -0.90	1 -0.81
Kd of Ni-63 in Saturated Zone	13 0.01	13 0.01	5 0.06	5 0.03
R-SQUARE	0.02	0.02	0.84	0.84

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

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

Title : RESRAD Default Parameters

Input File : FCS BFM INSITU UA 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
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Contaminated zone erosion rate	16	0.00	16	0.00	14	0.02	14	0.01
Contaminated zone b parameter	11	0.02	11	0.02	3	0.14	3	0.05
Evapotranspiration coefficient	17	0.00	17	0.00	10	-0.06	10	-0.02
Wind Speed	5	-0.06	5	-0.06	17	-0.01	17	0.00
Runoff coefficient	6	-0.05	6	-0.05	13	-0.04	13	-0.02
b Parameter of Unsaturated zone 1	14	0.00	14	0.00	15	-0.02	15	-0.01
Mass loading for inhalation	1	0.13	1	0.13	11	-0.06	11	-0.02
Indoor dust filtration factor	10	-0.03	10	-0.02	9	-0.06	9	-0.02
Depth of soil mixing layer	15	0.00	15	0.00	16	0.01	16	0.00
Depth of roots	2	0.10	2	0.09	2	0.73	2	0.42
Wet weight crop yield of fruit, grain and non-leafy vegetables	8	-0.04	8	-0.04	12	0.05	12	0.02
Weathering removal constant of all vegetation	7	-0.05	7	-0.05	5	-0.09	5	-0.04
Wet foliar interception fraction of leafy vegetables	12	0.02	12	0.02	7	0.08	7	0.03
Humidity in air	9	-0.03	9	-0.03	6	-0.09	6	-0.03
Cover erosion rate	3	0.09	3	0.09	4	0.10	4	0.04
Kd of Ni-63 in Contaminated Zone	4	-0.07	4	-0.07	1	-0.90	1	-0.81
Kd of Ni-63 in Saturated Zone	13	-0.01	13	-0.01	8	-0.08	8	-0.03

R-SQUARE	0.05	0.05	0.85	0.85
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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.