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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
Np-237										
Min	0.00E+00	1.17E+01	6.23E+00	6.24E+00	6.26E+00	6.33E+00	6.53E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	5.10E+03	5.10E+03	4.52E+03	3.54E+03	1.78E+03	7.57E+02	2.51E+02	8.90E+01	3.21E+01
Avg	3.00E+01	3.61E+02	3.60E+02	3.50E+02	3.31E+02	2.78E+02	1.94E+02	9.37E+01	3.45E+01	7.11E+00
Std	1.34E+02	5.21E+02	5.21E+02	4.86E+02	4.27E+02	2.94E+02	1.49E+02	5.21E+01	2.22E+01	8.87E+00
ALL										
Min	0.00E+00	1.17E+01	6.23E+00	6.24E+00	6.26E+00	6.33E+00	6.53E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	5.10E+03	5.10E+03	4.52E+03	3.54E+03	1.78E+03	7.57E+02	2.51E+02	8.90E+01	3.21E+01
Avg	3.00E+01	3.61E+02	3.60E+02	3.50E+02	3.31E+02	2.78E+02	1.94E+02	9.37E+01	3.45E+01	7.11E+00
Std	1.34E+02	5.21E+02	5.21E+02	4.86E+02	4.27E+02	2.94E+02	1.49E+02	5.21E+01	2.22E+01	8.87E+00

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
<hr/>									
Np-237									
Min		3.26E-06	3.26E-06	3.26E-06	3.25E-06	3.24E-06	0.00E+00	0.00E+00	0.00E+00
Max		2.55E-03	2.26E-03	1.77E-03	8.49E-04	3.64E-04	1.23E-04	4.77E-05	2.55E-05
Avg		1.73E-04	1.68E-04	1.59E-04	1.34E-04	9.32E-05	4.56E-05	1.81E-05	4.69E-06
Std		2.54E-04	2.37E-04	2.07E-04	1.41E-04	7.10E-05	2.47E-05	1.18E-05	6.29E-06
ALL									
Min		3.26E-06	3.26E-06	3.26E-06	3.25E-06	3.24E-06	0.00E+00	0.00E+00	0.00E+00
Max		2.55E-03	2.26E-03	1.77E-03	8.49E-04	3.64E-04	1.23E-04	4.77E-05	2.55E-05
Avg		1.73E-04	1.68E-04	1.59E-04	1.34E-04	9.32E-05	4.56E-05	1.81E-05	4.69E-06
Std		2.54E-04	2.37E-04	2.07E-04	1.41E-04	7.10E-05	2.47E-05	1.18E-05	6.29E-06
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ALL 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
Np-237									
Min		3.60E-08	3.11E-08	2.33E-08	8.40E-09	4.57E-10	0.00E+00	0.00E+00	0.00E+00
Max		3.23E-07	9.39E-06	8.02E-03	5.06E-01	5.05E-01	5.02E-01	4.93E-01	4.61E-01
Avg		4.11E-08	7.14E-08	1.30E-05	5.48E-03	1.07E-02	1.23E-02	4.61E-02	4.56E-02
Std		1.61E-08	3.85E-07	2.58E-04	4.96E-02	6.69E-02	6.65E-02	1.07E-01	9.37E-02
UALL									
Min		3.60E-08	3.11E-08	2.33E-08	8.40E-09	4.57E-10	0.00E+00	0.00E+00	0.00E+00
Max		3.23E-07	9.39E-06	8.02E-03	5.06E-01	5.05E-01	5.02E-01	4.93E-01	4.61E-01
Avg		4.11E-08	7.14E-08	1.30E-05	5.48E-03	1.07E-02	1.23E-02	4.61E-02	4.56E-02
Std		1.61E-08	3.85E-07	2.58E-04	4.96E-02	6.69E-02	6.65E-02	1.07E-01	9.37E-02

UALL 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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Np-237									
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	3.17E-03	1.39E-02	1.30E-02	8.74E-03	1.55E-02	1.41E-02
Avg		0.00E+00	0.00E+00	2.96E-06	7.29E-05	1.33E-04	1.49E-04	6.52E-04	6.00E-04
Std		0.00E+00	0.00E+00	8.53E-05	6.88E-04	8.89E-04	8.43E-04	1.67E-03	1.46E-03
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	3.17E-03	1.39E-02	1.30E-02	8.74E-03	1.55E-02	1.41E-02
Avg		0.00E+00	0.00E+00	2.96E-06	7.29E-05	1.33E-04	1.49E-04	6.52E-04	6.00E-04
Std		0.00E+00	0.00E+00	8.53E-05	6.88E-04	8.89E-04	8.43E-04	1.67E-03	1.46E-03
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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
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Np-237									
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
Np-237									
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		1.70E+01	1.77E+01	1.95E+01	2.17E+01	2.17E+01	2.15E+01	2.11E+01	1.92E+01
Avg		1.01E+01	1.01E+01	9.99E+00	9.69E+00	8.85E+00	7.23E+00	5.48E+00	2.40E+00
Std		5.93E+00	5.88E+00	5.80E+00	5.73E+00	5.60E+00	5.50E+00	5.62E+00	4.11E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.70E+01	1.77E+01	1.95E+01	2.17E+01	2.17E+01	2.15E+01	2.11E+01	1.92E+01
Avg		1.01E+01	1.01E+01	9.99E+00	9.69E+00	8.85E+00	7.23E+00	5.48E+00	2.40E+00
Std		5.93E+00	5.88E+00	5.80E+00	5.73E+00	5.60E+00	5.50E+00	5.62E+00	4.11E+00

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
Np-237									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.97E-01	3.08E-01	3.84E-01	6.50E-01	6.49E-01	6.44E-01	6.33E-01	5.76E-01
Avg		1.78E-01	1.77E-01	1.76E-01	1.73E-01	1.61E-01	1.34E-01	1.24E-01	6.74E-02
Std		1.04E-01	1.03E-01	1.02E-01	1.10E-01	1.14E-01	1.12E-01	1.44E-01	1.19E-01
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		2.97E-01	3.08E-01	3.84E-01	6.50E-01	6.49E-01	6.44E-01	6.33E-01	5.76E-01
Avg		1.78E-01	1.77E-01	1.76E-01	1.73E-01	1.61E-01	1.34E-01	1.24E-01	6.74E-02
Std		1.04E-01	1.03E-01	1.02E-01	1.10E-01	1.14E-01	1.12E-01	1.44E-01	1.19E-01

ΣALL is total pathway dose summed for all nuclides.

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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Np-237									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.51E-02	2.61E-02	3.00E-02	4.20E-02	4.19E-02	4.16E-02	4.09E-02	3.73E-02
Avg		1.50E-02	1.50E-02	1.48E-02	1.45E-02	1.34E-02	1.10E-02	9.16E-03	4.49E-03
Std		8.81E-03	8.74E-03	8.62E-03	8.76E-03	8.76E-03	8.64E-03	9.87E-03	7.75E-03
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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		2.51E-02	2.61E-02	3.00E-02	4.20E-02	4.19E-02	4.16E-02	4.09E-02	3.73E-02
Avg		1.50E-02	1.50E-02	1.48E-02	1.45E-02	1.34E-02	1.10E-02	9.16E-03	4.49E-03
Std		8.81E-03	8.74E-03	8.62E-03	8.76E-03	8.76E-03	8.64E-03	9.87E-03	7.75E-03
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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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Np-237									
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	1.50E-02	6.34E-02	6.32E-02	6.28E-02	6.17E-02	5.77E-02
Avg		0.00E+00	0.00E+00	2.22E-05	7.58E-04	1.39E-03	1.60E-03	6.58E-03	5.99E-03
Std		0.00E+00	0.00E+00	5.28E-04	6.46E-03	8.44E-03	8.36E-03	1.40E-02	1.19E-02
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	1.50E-02	6.34E-02	6.32E-02	6.28E-02	6.17E-02	5.77E-02
Avg		0.00E+00	0.00E+00	2.22E-05	7.58E-04	1.39E-03	1.60E-03	6.58E-03	5.99E-03
Std		0.00E+00	0.00E+00	5.28E-04	6.46E-03	8.44E-03	8.36E-03	1.40E-02	1.19E-02
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ALL is total pathway dose summed for all nuclides.

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
Np-237									
Min		9.76E-01	9.76E-01	9.76E-01	9.76E-01	9.75E-01	0.00E+00	0.00E+00	0.00E+00
Max		4.59E+03	4.07E+03	3.18E+03	1.65E+03	7.02E+02	2.13E+02	7.15E+01	2.14E+01
Avg		3.16E+02	3.07E+02	2.90E+02	2.42E+02	1.67E+02	7.79E+01	2.60E+01	4.14E+00
Std		4.72E+02	4.40E+02	3.86E+02	2.66E+02	1.36E+02	4.75E+01	1.80E+01	5.07E+00
U-235									
Min		9.76E-01	9.76E-01	9.76E-01	9.76E-01	9.75E-01	0.00E+00	0.00E+00	0.00E+00
Max		4.59E+03	4.07E+03	3.18E+03	1.65E+03	7.02E+02	2.13E+02	7.15E+01	2.14E+01
Avg		3.16E+02	3.07E+02	2.90E+02	2.42E+02	1.67E+02	7.79E+01	2.60E+01	4.14E+00
Std		4.72E+02	4.40E+02	3.86E+02	2.66E+02	1.36E+02	4.75E+01	1.80E+01	5.07E+00

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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
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Np-237									
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): 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
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Np-237									
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 NP-237.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
<hr/>									
Np-237									
Min		5.95E-02	5.95E-02	5.95E-02	5.94E-02	5.93E-02	0.00E+00	0.00E+00	0.00E+00
Max		6.54E+02	6.15E+02	5.43E+02	3.52E+02	1.73E+02	5.92E+01	1.66E+01	5.19E+00
Avg		2.90E+01	2.82E+01	2.66E+01	2.23E+01	1.54E+01	7.22E+00	2.41E+00	3.78E-01
Std		5.10E+01	4.81E+01	4.32E+01	3.13E+01	1.71E+01	6.73E+00	2.32E+00	5.82E-01
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ΣALL									
Min		5.95E-02	5.95E-02	5.95E-02	5.94E-02	5.93E-02	0.00E+00	0.00E+00	0.00E+00
Max		6.54E+02	6.15E+02	5.43E+02	3.52E+02	1.73E+02	5.92E+01	1.66E+01	5.19E+00
Avg		2.90E+01	2.82E+01	2.66E+01	2.23E+01	1.54E+01	7.22E+00	2.41E+00	3.78E-01
Std		5.10E+01	4.81E+01	4.32E+01	3.13E+01	1.71E+01	6.73E+00	2.32E+00	5.82E-01
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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 NP-237.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/>									
Np-237									
Min		1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	0.00E+00	0.00E+00	0.00E+00
Max		6.13E+01	5.43E+01	4.25E+01	2.81E+01	1.12E+01	3.50E+00	1.22E+00	3.57E-01
Avg		4.55E+00	4.42E+00	4.17E+00	3.49E+00	2.39E+00	1.12E+00	3.75E-01	5.94E-02
Std		6.85E+00	6.41E+00	5.66E+00	3.92E+00	1.99E+00	7.11E-01	2.65E-01	7.40E-02
TOTAL									
Min		1.52E-02	1.52E-02	1.52E-02	1.52E-02	1.52E-02	0.00E+00	0.00E+00	0.00E+00
Max		6.13E+01	5.43E+01	4.25E+01	2.81E+01	1.12E+01	3.50E+00	1.22E+00	3.57E-01
Avg		4.55E+00	4.42E+00	4.17E+00	3.49E+00	2.39E+00	1.12E+00	3.75E-01	5.94E-02
Std		6.85E+00	6.41E+00	5.66E+00	3.92E+00	1.99E+00	7.11E-01	2.65E-01	7.40E-02
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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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA NP-237.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/>									
Np-237									
Min		9.13E-04	9.13E-04	9.14E-04	9.16E-04	9.24E-04	0.00E+00	0.00E+00	0.00E+00
Max		3.41E+00	3.02E+00	2.46E+00	1.74E+00	7.22E-01	2.24E-01	7.88E-02	2.31E-02
Avg		2.64E-01	2.56E-01	2.42E-01	2.02E-01	1.39E-01	6.50E-02	2.18E-02	3.50E-03
Std		4.02E-01	3.77E-01	3.33E-01	2.32E-01	1.18E-01	4.29E-02	1.59E-02	4.42E-03
<hr/>									
ALL									
Min		9.13E-04	9.13E-04	9.14E-04	9.16E-04	9.24E-04	0.00E+00	0.00E+00	0.00E+00
Max		3.41E+00	3.02E+00	2.46E+00	1.74E+00	7.22E-01	2.24E-01	7.88E-02	2.31E-02
Avg		2.64E-01	2.56E-01	2.42E-01	2.02E-01	1.39E-01	6.50E-02	2.18E-02	3.50E-03
Std		4.02E-01	3.77E-01	3.33E-01	2.32E-01	1.18E-01	4.29E-02	1.59E-02	4.42E-03
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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 NP-237.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	2.07E+01	2.07E+01	2.09E+01	2.10E+01	2.15E+01	7.22E+00	2.50E-04	0.00E+00
0.050	2.70E+01	2.70E+01	2.71E+01	2.74E+01	2.76E+01	1.84E+01	9.01E-03	4.47E-05
0.075	3.23E+01	3.23E+01	3.24E+01	3.22E+01	3.21E+01	2.36E+01	1.91E-01	7.99E-05
0.100	3.73E+01	3.73E+01	3.73E+01	3.72E+01	3.72E+01	2.79E+01	7.62E-01	1.08E-04
0.125	4.31E+01	4.33E+01	4.34E+01	4.34E+01	4.29E+01	3.18E+01	1.77E+00	1.45E-04
0.150	5.01E+01	5.01E+01	5.09E+01	5.08E+01	4.94E+01	3.60E+01	3.73E+00	2.01E-04
0.175	5.57E+01	5.57E+01	5.56E+01	5.55E+01	5.44E+01	3.99E+01	6.76E+00	2.90E-04
0.200	6.25E+01	6.25E+01	6.23E+01	6.19E+01	6.01E+01	4.53E+01	9.23E+00	5.30E-04
0.225	6.85E+01	6.85E+01	6.83E+01	6.82E+01	6.60E+01	4.88E+01	1.29E+01	1.22E-03
0.250	7.57E+01	7.56E+01	7.55E+01	7.48E+01	7.26E+01	5.31E+01	1.63E+01	3.96E-03
0.275	8.35E+01	8.34E+01	8.40E+01	8.32E+01	7.96E+01	5.70E+01	1.87E+01	1.21E-02
0.300	8.96E+01	8.94E+01	8.92E+01	8.83E+01	8.46E+01	6.06E+01	2.11E+01	3.23E-02
0.325	9.63E+01	9.62E+01	9.58E+01	9.46E+01	9.02E+01	6.49E+01	2.45E+01	7.76E-02
0.350	1.06E+02	1.06E+02	1.05E+02	1.03E+02	9.85E+01	6.81E+01	2.68E+01	1.67E-01
0.375	1.14E+02	1.15E+02	1.14E+02	1.13E+02	1.07E+02	7.22E+01	2.90E+01	2.81E-01
0.400	1.26E+02	1.26E+02	1.25E+02	1.23E+02	1.15E+02	7.49E+01	3.12E+01	4.37E-01
0.425	1.36E+02	1.36E+02	1.35E+02	1.32E+02	1.23E+02	7.83E+01	3.27E+01	6.95E-01
0.450	1.49E+02	1.48E+02	1.47E+02	1.43E+02	1.33E+02	8.22E+01	3.40E+01	1.01E+00
0.475	1.60E+02	1.59E+02	1.59E+02	1.55E+02	1.43E+02	8.63E+01	3.55E+01	1.41E+00
0.500	1.74E+02	1.73E+02	1.71E+02	1.66E+02	1.50E+02	9.01E+01	3.69E+01	2.07E+00
0.525	1.88E+02	1.88E+02	1.86E+02	1.81E+02	1.63E+02	9.30E+01	3.81E+01	2.68E+00
0.550	2.05E+02	2.04E+02	2.02E+02	1.95E+02	1.74E+02	9.62E+01	3.97E+01	3.44E+00
0.575	2.21E+02	2.20E+02	2.18E+02	2.10E+02	1.87E+02	1.00E+02	4.09E+01	4.35E+00
0.600	2.42E+02	2.40E+02	2.38E+02	2.30E+02	1.99E+02	1.04E+02	4.21E+01	5.46E+00
0.625	2.61E+02	2.60E+02	2.57E+02	2.45E+02	2.11E+02	1.07E+02	4.33E+01	6.59E+00
0.650	2.85E+02	2.84E+02	2.82E+02	2.69E+02	2.25E+02	1.11E+02	4.46E+01	7.95E+00
0.675	3.15E+02	3.13E+02	3.09E+02	2.91E+02	2.41E+02	1.15E+02	4.62E+01	9.71E+00
0.700	3.47E+02	3.44E+02	3.39E+02	3.15E+02	2.54E+02	1.21E+02	4.77E+01	1.10E+01
0.725	3.77E+02	3.74E+02	3.68E+02	3.43E+02	2.66E+02	1.25E+02	4.87E+01	1.20E+01
0.750	4.20E+02	4.14E+02	4.04E+02	3.75E+02	2.86E+02	1.29E+02	5.00E+01	1.37E+01
0.775	4.60E+02	4.52E+02	4.44E+02	4.10E+02	3.03E+02	1.34E+02	5.14E+01	1.49E+01
0.800	5.06E+02	4.99E+02	4.85E+02	4.49E+02	3.19E+02	1.38E+02	5.34E+01	1.64E+01
0.825	5.73E+02	5.66E+02	5.45E+02	4.90E+02	3.35E+02	1.43E+02	5.56E+01	1.77E+01
0.850	6.65E+02	6.53E+02	6.30E+02	5.57E+02	3.61E+02	1.48E+02	5.83E+01	1.91E+01
0.875	7.43E+02	7.32E+02	7.09E+02	6.25E+02	3.84E+02	1.58E+02	6.03E+01	2.07E+01
0.900	8.77E+02	8.59E+02	8.23E+02	6.96E+02	4.16E+02	1.67E+02	6.27E+01	2.19E+01
0.925	1.07E+03	1.05E+03	9.82E+02	7.93E+02	4.46E+02	1.76E+02	6.66E+01	2.32E+01
0.950	1.35E+03	1.30E+03	1.21E+03	9.34E+02	4.85E+02	1.89E+02	7.00E+01	2.51E+01
0.975	1.90E+03	1.77E+03	1.60E+03	1.10E+03	5.56E+02	2.06E+02	7.68E+01	2.73E+01
1.000	5.10E+03	4.52E+03	3.54E+03	1.78E+03	7.57E+02	2.51E+02	8.90E+01	3.21E+01

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	1.03E+01	3.94E+03	3.58E+02	1.74E+02	8.83E+02	1.34E+03	1.92E+03	2.88E+03
1.00E+00	1.04E+01	3.55E+03	3.48E+02	1.73E+02	8.68E+02	1.30E+03	1.79E+03	2.60E+03
1.06E+00	1.04E+01	3.53E+03	3.47E+02	1.73E+02	8.67E+02	1.30E+03	1.79E+03	2.58E+03
1.12E+00	1.04E+01	3.50E+03	3.46E+02	1.73E+02	8.66E+02	1.29E+03	1.78E+03	2.56E+03
1.19E+00	1.04E+01	3.48E+03	3.46E+02	1.73E+02	8.64E+02	1.29E+03	1.77E+03	2.55E+03
1.25E+00	1.04E+01	3.46E+03	3.45E+02	1.73E+02	8.63E+02	1.29E+03	1.77E+03	2.53E+03
1.33E+00	1.04E+01	3.43E+03	3.44E+02	1.73E+02	8.61E+02	1.28E+03	1.76E+03	2.51E+03
1.40E+00	1.04E+01	3.40E+03	3.44E+02	1.73E+02	8.60E+02	1.28E+03	1.75E+03	2.49E+03
1.49E+00	1.04E+01	3.37E+03	3.43E+02	1.73E+02	8.58E+02	1.28E+03	1.74E+03	2.47E+03
1.57E+00	1.04E+01	3.34E+03	3.42E+02	1.72E+02	8.56E+02	1.27E+03	1.73E+03	2.44E+03
1.66E+00	1.04E+01	3.31E+03	3.41E+02	1.72E+02	8.54E+02	1.27E+03	1.73E+03	2.42E+03
1.76E+00	1.04E+01	3.28E+03	3.40E+02	1.72E+02	8.52E+02	1.26E+03	1.72E+03	2.40E+03
1.86E+00	1.04E+01	3.24E+03	3.39E+02	1.72E+02	8.50E+02	1.26E+03	1.71E+03	2.37E+03
1.97E+00	1.04E+01	3.21E+03	3.38E+02	1.72E+02	8.48E+02	1.25E+03	1.69E+03	2.34E+03
2.09E+00	1.04E+01	3.17E+03	3.37E+02	1.72E+02	8.46E+02	1.25E+03	1.68E+03	2.32E+03
2.21E+00	1.04E+01	3.13E+03	3.36E+02	1.72E+02	8.43E+02	1.24E+03	1.67E+03	2.29E+03
2.34E+00	1.04E+01	3.09E+03	3.35E+02	1.72E+02	8.41E+02	1.24E+03	1.66E+03	2.26E+03
2.47E+00	1.04E+01	3.04E+03	3.33E+02	1.72E+02	8.38E+02	1.23E+03	1.65E+03	2.22E+03
2.62E+00	1.04E+01	3.00E+03	3.32E+02	1.71E+02	8.35E+02	1.22E+03	1.63E+03	2.19E+03
2.77E+00	1.04E+01	2.95E+03	3.31E+02	1.71E+02	8.32E+02	1.22E+03	1.62E+03	2.16E+03
2.93E+00	1.04E+01	2.90E+03	3.29E+02	1.71E+02	8.29E+02	1.21E+03	1.60E+03	2.12E+03
3.00E+00	1.04E+01	2.88E+03	3.28E+02	1.71E+02	8.28E+02	1.21E+03	1.60E+03	2.11E+03
3.10E+00	1.04E+01	2.85E+03	3.28E+02	1.71E+02	8.26E+02	1.20E+03	1.59E+03	2.08E+03
3.28E+00	1.04E+01	2.79E+03	3.26E+02	1.71E+02	8.22E+02	1.19E+03	1.57E+03	2.04E+03
3.48E+00	1.04E+01	2.74E+03	3.24E+02	1.71E+02	8.19E+02	1.19E+03	1.55E+03	2.00E+03
3.68E+00	1.04E+01	2.68E+03	3.23E+02	1.70E+02	8.15E+02	1.18E+03	1.53E+03	1.96E+03
3.89E+00	1.04E+01	2.62E+03	3.21E+02	1.70E+02	8.11E+02	1.17E+03	1.52E+03	1.92E+03
4.12E+00	1.04E+01	2.56E+03	3.19E+02	1.70E+02	8.06E+02	1.16E+03	1.50E+03	1.86E+03
4.36E+00	1.04E+01	2.50E+03	3.17E+02	1.70E+02	8.02E+02	1.15E+03	1.49E+03	1.83E+03
4.61E+00	1.04E+01	2.43E+03	3.15E+02	1.70E+02	7.97E+02	1.14E+03	1.47E+03	1.78E+03
4.88E+00	1.04E+01	2.37E+03	3.12E+02	1.69E+02	7.92E+02	1.13E+03	1.45E+03	1.73E+03
5.17E+00	1.05E+01	2.30E+03	3.10E+02	1.69E+02	7.87E+02	1.11E+03	1.43E+03	1.68E+03
5.47E+00	1.05E+01	2.23E+03	3.08E+02	1.69E+02	7.82E+02	1.10E+03	1.41E+03	1.63E+03
5.78E+00	1.05E+01	2.15E+03	3.05E+02	1.68E+02	7.77E+02	1.09E+03	1.39E+03	1.57E+03
6.12E+00	1.05E+01	2.08E+03	3.03E+02	1.68E+02	7.73E+02	1.07E+03	1.37E+03	1.52E+03
6.48E+00	1.05E+01	2.02E+03	3.00E+02	1.68E+02	7.67E+02	1.06E+03	1.33E+03	1.48E+03
6.86E+00	1.05E+01	1.97E+03	2.97E+02	1.68E+02	7.55E+02	1.05E+03	1.28E+03	1.45E+03
7.26E+00	1.05E+01	1.92E+03	2.94E+02	1.67E+02	7.47E+02	1.03E+03	1.25E+03	1.43E+03
7.68E+00	1.05E+01	1.87E+03	2.91E+02	1.67E+02	7.39E+02	1.02E+03	1.21E+03	1.40E+03
8.13E+00	1.05E+01	1.82E+03	2.88E+02	1.66E+02	7.30E+02	9.99E+02	1.17E+03	1.38E+03
8.60E+00	1.05E+01	1.77E+03	2.85E+02	1.66E+02	7.22E+02	9.81E+02	1.13E+03	1.35E+03
9.10E+00	1.06E+01	1.71E+03	2.82E+02	1.66E+02	7.13E+02	9.63E+02	1.09E+03	1.32E+03
9.63E+00	1.06E+01	1.66E+03	2.79E+02	1.65E+02	6.98E+02	9.44E+02	1.05E+03	1.29E+03
1.00E+01	1.06E+01	1.62E+03	2.76E+02	1.65E+02	6.86E+02	9.25E+02	1.02E+03	1.27E+03
1.02E+01	1.06E+01	1.60E+03	2.75E+02	1.65E+02	6.81E+02	9.14E+02	1.01E+03	1.26E+03
1.08E+01	1.06E+01	1.54E+03	2.71E+02	1.64E+02	6.75E+02	9.04E+02	9.91E+02	1.23E+03
1.14E+01	1.06E+01	1.49E+03	2.68E+02	1.64E+02	6.64E+02	8.72E+02	9.73E+02	1.19E+03
1.21E+01	1.06E+01	1.43E+03	2.64E+02	1.63E+02	6.56E+02	8.44E+02	9.54E+02	1.11E+03
1.28E+01	1.06E+01	1.36E+03	2.60E+02	1.63E+02	6.48E+02	8.30E+02	9.34E+02	1.04E+03
1.35E+01	1.07E+01	1.33E+03	2.56E+02	1.63E+02	6.39E+02	7.92E+02	9.04E+02	1.00E+03
1.43E+01	1.07E+01	1.29E+03	2.52E+02	1.62E+02	6.26E+02	7.58E+02	8.82E+02	9.70E+02
1.51E+01	1.07E+01	1.25E+03	2.48E+02	1.62E+02	6.13E+02	7.43E+02	8.58E+02	9.37E+02
1.60E+01	1.07E+01	1.21E+03	2.44E+02	1.61E+02	5.98E+02	7.30E+02	8.37E+02	9.03E+02
1.70E+01	1.07E+01	1.18E+03	2.39E+02	1.60E+02	5.84E+02	6.95E+02	8.07E+02	8.58E+02
1.80E+01	1.08E+01	1.13E+03	2.35E+02	1.59E+02	5.58E+02	6.74E+02	7.77E+02	8.36E+02
1.90E+01	1.08E+01	1.09E+03	2.30E+02	1.59E+02	5.41E+02	6.63E+02	7.50E+02	8.19E+02

2.01E+01 1.08E+01 1.05E+03 2.26E+02 1.58E+02 5.24E+02 6.41E+02 7.30E+02 7.98E+02

2.13E+01 1.08E+01 1.01E+03 2.21E+02 1.57E+02 5.09E+02 6.17E+02 7.10E+02 7.77E+02

2.25E+01 1.08E+01 9.65E+02 2.17E+02 1.56E+02 4.96E+02 5.86E+02 6.86E+02 7.46E+02

2.38E+01 1.08E+01 9.21E+02 2.12E+02 1.55E+02 4.79E+02 5.67E+02 6.57E+02 7.26E+02

2.52E+01 1.08E+01 8.77E+02 2.07E+02 1.54E+02 4.60E+02 5.43E+02 6.30E+02 7.06E+02



2.67E+01 1.08E+01 8.32E+02 2.02E+02 1.53E+02 4.53E+02 5.27E+02 6.00E+02 6.87E+02

2.82E+01 1.08E+01 7.88E+02 1.98E+02 1.51E+02 4.34E+02 5.17E+02 5.80E+02 6.63E+02

2.99E+01 1.07E+01 7.43E+02 1.93E+02 1.50E+02 4.20E+02 4.99E+02 5.50E+02 6.44E+02

3.00E+01 1.07E+01 7.40E+02 1.93E+02 1.50E+02 4.19E+02 4.98E+02 5.48E+02 6.43E+02

3.16E+01 1.07E+01 6.99E+02 1.88E+02 1.48E+02 4.09E+02 4.70E+02 5.28E+02 6.24E+02

3.35E+01 1.07E+01 6.54E+02 1.83E+02 1.47E+02 3.85E+02 4.51E+02 5.02E+02 6.03E+02

3.54E+01 1.07E+01 6.11E+02 1.78E+02 1.46E+02 3.73E+02 4.30E+02 4.78E+02 5.80E+02

3.75E+01 1.07E+01 5.88E+02 1.73E+02 1.44E+02 3.59E+02 4.15E+02 4.63E+02 5.58E+02



3.97E+01 1.05E+01 5.66E+02 1.69E+02 1.41E+02 3.41E+02 4.02E+02 4.51E+02 5.25E+02

4.20E+01 7.51E+00 5.43E+02 1.64E+02 1.37E+02 3.23E+02 3.88E+02 4.38E+02 4.84E+02

4.44E+01 5.26E+00 5.19E+02 1.59E+02 1.36E+02 3.11E+02 3.73E+02 4.25E+02 4.61E+02

4.70E+01 3.61E+00 4.97E+02 1.54E+02 1.33E+02 3.00E+02 3.64E+02 4.07E+02 4.42E+02

4.97E+01 2.42E+00 4.77E+02 1.49E+02 1.31E+02 2.87E+02 3.52E+02 3.82E+02 4.23E+02

5.26E+01 1.59E+00 4.57E+02 1.45E+02 1.29E+02 2.76E+02 3.31E+02 3.64E+02 4.03E+02

5.57E+01 1.02E+00 4.36E+02 1.40E+02 1.27E+02 2.61E+02 3.19E+02 3.51E+02 3.84E+02

5.90E+01 6.34E-01 4.15E+02 1.35E+02 1.25E+02 2.50E+02 2.99E+02 3.32E+02 3.64E+02



6.24E+01 3.85E-01 3.94E+02 1.31E+02 1.20E+02 2.42E+02 2.84E+02 3.19E+02 3.44E+02

6.60E+01 2.27E-01 3.73E+02 1.26E+02 1.17E+02 2.31E+02 2.69E+02 3.03E+02 3.26E+02

6.99E+01 1.29E-01 3.52E+02 1.21E+02 1.13E+02 2.24E+02 2.59E+02 2.90E+02 3.10E+02

7.39E+01 7.16E-02 3.31E+02 1.17E+02 1.11E+02 2.15E+02 2.45E+02 2.77E+02 2.96E+02

7.82E+01 3.83E-02 3.10E+02 1.13E+02 1.10E+02 2.04E+02 2.36E+02 2.61E+02 2.82E+02

8.28E+01 1.97E-02 2.89E+02 1.08E+02 1.06E+02 1.95E+02 2.27E+02 2.46E+02 2.65E+02

8.76E+01 9.82E-03 2.69E+02 1.04E+02 9.98E+01 1.89E+02 2.15E+02 2.35E+02 2.50E+02

9.27E+01 4.71E-03 2.54E+02 9.97E+01 9.59E+01 1.79E+02 2.04E+02 2.18E+02 2.35E+02



9.81E+01 2.19E-03 2.42E+02 9.56E+01 9.23E+01 1.73E+02 1.93E+02 2.09E+02 2.21E+02

1.00E+02 1.68E-03 2.38E+02 9.42E+01 9.16E+01 1.70E+02 1.87E+02 2.06E+02 2.18E+02

1.04E+02 9.94E-04 2.31E+02 9.15E+01 8.99E+01 1.66E+02 1.79E+02 1.97E+02 2.11E+02

1.10E+02 4.55E-04 2.20E+02 8.76E+01 8.68E+01 1.57E+02 1.69E+02 1.88E+02 1.99E+02

1.16E+02 2.24E-04 2.09E+02 8.37E+01 8.29E+01 1.48E+02 1.63E+02 1.78E+02 1.92E+02

1.23E+02 1.29E-04 1.98E+02 8.00E+01 7.78E+01 1.40E+02 1.54E+02 1.69E+02 1.86E+02

1.30E+02 9.20E-05 1.87E+02 7.63E+01 7.44E+01 1.29E+02 1.46E+02 1.60E+02 1.77E+02

1.38E+02 7.79E-05 1.76E+02 7.27E+01 7.29E+01 1.23E+02 1.39E+02 1.53E+02 1.69E+02



1.46E+02 7.24E-05 1.68E+02 6.93E+01 6.95E+01 1.17E+02 1.33E+02 1.47E+02 1.61E+02

1.54E+02 6.99E-05 1.61E+02 6.59E+01 6.66E+01 1.10E+02 1.26E+02 1.40E+02 1.54E+02

1.63E+02 6.83E-05 1.55E+02 6.27E+01 6.20E+01 1.05E+02 1.22E+02 1.34E+02 1.43E+02

1.73E+02 6.71E-05 1.48E+02 5.96E+01 5.99E+01 1.00E+02 1.15E+02 1.27E+02 1.38E+02

1.83E+02 6.58E-05 1.42E+02 5.66E+01 5.65E+01 9.65E+01 1.10E+02 1.20E+02 1.31E+02

1.94E+02 6.46E-05 1.35E+02 5.37E+01 5.37E+01 9.13E+01 1.04E+02 1.13E+02 1.26E+02

2.05E+02 6.33E-05 1.28E+02 5.09E+01 5.04E+01 8.75E+01 9.79E+01 1.06E+02 1.19E+02

2.17E+02 6.19E-05 1.23E+02 4.82E+01 4.87E+01 8.30E+01 9.34E+01 1.02E+02 1.12E+02



2.29E+02 6.06E-05 1.17E+02 4.56E+01 4.60E+01 7.83E+01 8.98E+01 9.74E+01 1.06E+02

2.43E+02 5.91E-05 1.11E+02 4.31E+01 4.37E+01 7.49E+01 8.28E+01 9.26E+01 9.83E+01

2.57E+02 5.76E-05 1.05E+02 4.06E+01 4.16E+01 7.13E+01 7.97E+01 8.67E+01 9.17E+01

2.72E+02 0.00E+00 9.92E+01 3.82E+01 3.97E+01 6.88E+01 7.74E+01 8.26E+01 8.89E+01

2.88E+02    0.00E+00    9.33E+01    3.60E+01    3.75E+01    6.55E+01    7.25E+01    7.89E+01    8.61E+01

3.00E+02    0.00E+00    8.90E+01    3.44E+01    3.62E+01    6.26E+01    7.02E+01    7.70E+01    8.26E+01

3.05E+02    0.00E+00    8.75E+01    3.39E+01    3.58E+01    6.23E+01    6.95E+01    7.64E+01    8.12E+01

3.22E+02 0.00E+00 8.17E+01 3.19E+01 3.40E+01 5.97E+01 6.61E+01 7.25E+01 7.67E+01



3.41E+02 0.00E+00 7.71E+01 3.00E+01 3.20E+01 5.75E+01 6.27E+01 6.88E+01 7.26E+01

3.61E+02    0.00E+00    7.39E+01    2.82E+01    3.08E+01    5.46E+01    5.88E+01    6.62E+01    6.89E+01

3.82E+02 0.00E+00 7.08E+01 2.64E+01 2.86E+01 5.22E+01 5.73E+01 6.24E+01 6.59E+01

4.04E+02 0.00E+00 6.76E+01 2.48E+01 2.66E+01 4.89E+01 5.45E+01 5.95E+01 6.29E+01

4.28E+02 0.00E+00 6.44E+01 2.32E+01 2.48E+01 4.68E+01 5.24E+01 5.63E+01 5.99E+01

4.53E+02    0.00E+00    6.11E+01    2.17E+01    2.33E+01    4.47E+01    5.01E+01    5.31E+01    5.68E+01

4.79E+02 0.00E+00 5.79E+01 2.02E+01 2.11E+01 4.30E+01 4.81E+01 5.08E+01 5.38E+01

5.07E+02    0.00E+00    5.46E+01    1.89E+01    1.96E+01    4.03E+01    4.55E+01    4.83E+01    5.10E+01



5.36E+02	0.00E+00	5.14E+01	1.75E+01	1.71E+01	3.79E+01	4.34E+01	4.66E+01	4.88E+01
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5.68E+02    0.00E+00    4.82E+01    1.63E+01    1.51E+01    3.68E+01    4.12E+01    4.44E+01    4.64E+01

6.01E+02	0.00E+00	4.63E+01	1.52E+01	1.33E+01	3.49E+01	3.92E+01	4.22E+01	4.47E+01
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6.36E+02 0.00E+00 4.44E+01 1.41E+01 1.15E+01 3.31E+01 3.67E+01 4.02E+01 4.20E+01

6.73E+02 0.00E+00 4.26E+01 1.30E+01 9.93E+00 3.13E+01 3.48E+01 3.83E+01 3.95E+01

7.12E+02 0.00E+00 4.14E+01 1.20E+01 8.29E+00 2.99E+01 3.29E+01 3.63E+01 3.80E+01

7.53E+02    0.00E+00    4.03E+01    1.11E+01    6.88E+00    2.78E+01    3.10E+01    3.41E+01    3.66E+01

7.97E+02    0.00E+00    3.92E+01    1.02E+01    5.62E+00    2.70E+01    2.96E+01    3.26E+01    3.51E+01



8.44E+02 0.00E+00 3.79E+01 9.41E+00 4.49E+00 2.54E+01 2.83E+01 3.15E+01 3.33E+01

8.93E+02	0.00E+00	3.56E+01	8.64E+00	3.58E+00	2.45E+01	2.72E+01	2.99E+01	3.20E+01
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9.45E+02 0.00E+00 3.32E+01 7.90E+00 2.69E+00 2.33E+01 2.63E+01 2.80E+01 3.07E+01

1.00E+03    0.00E+00    3.09E+01    7.22E+00    2.09E+00    2.20E+01    2.53E+01    2.66E+01    3.00E+01

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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 NP-237.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	7.72E+00	5.10E+03	3.62E+02	1.71E+02	8.85E+02	1.35E+03	1.93E+03	2.65E+03
1.00E+00	7.74E+00	4.52E+03	3.51E+02	1.70E+02	8.69E+02	1.31E+03	1.83E+03	2.50E+03
1.06E+00	7.74E+00	4.48E+03	3.51E+02	1.70E+02	8.69E+02	1.30E+03	1.83E+03	2.50E+03
1.12E+00	7.74E+00	4.45E+03	3.50E+02	1.70E+02	8.68E+02	1.30E+03	1.82E+03	2.49E+03
1.19E+00	7.74E+00	4.41E+03	3.50E+02	1.70E+02	8.67E+02	1.30E+03	1.81E+03	2.48E+03
1.25E+00	7.74E+00	4.38E+03	3.49E+02	1.70E+02	8.65E+02	1.29E+03	1.81E+03	2.47E+03
1.33E+00	7.75E+00	4.34E+03	3.48E+02	1.70E+02	8.63E+02	1.29E+03	1.80E+03	2.46E+03
1.40E+00	7.75E+00	4.30E+03	3.47E+02	1.70E+02	8.62E+02	1.29E+03	1.79E+03	2.45E+03
1.49E+00	7.75E+00	4.25E+03	3.47E+02	1.70E+02	8.60E+02	1.28E+03	1.79E+03	2.44E+03
1.57E+00	7.75E+00	4.21E+03	3.46E+02	1.69E+02	8.58E+02	1.28E+03	1.78E+03	2.42E+03
1.66E+00	7.75E+00	4.16E+03	3.45E+02	1.69E+02	8.55E+02	1.28E+03	1.77E+03	2.41E+03
1.76E+00	7.75E+00	4.11E+03	3.44E+02	1.69E+02	8.53E+02	1.27E+03	1.76E+03	2.40E+03
1.86E+00	7.75E+00	4.06E+03	3.43E+02	1.69E+02	8.51E+02	1.27E+03	1.75E+03	2.38E+03
1.97E+00	7.76E+00	4.01E+03	3.42E+02	1.69E+02	8.48E+02	1.26E+03	1.74E+03	2.37E+03
2.09E+00	7.76E+00	3.95E+03	3.41E+02	1.69E+02	8.45E+02	1.26E+03	1.73E+03	2.35E+03
2.21E+00	7.76E+00	3.89E+03	3.40E+02	1.69E+02	8.43E+02	1.25E+03	1.72E+03	2.34E+03
2.34E+00	7.76E+00	3.83E+03	3.38E+02	1.69E+02	8.41E+02	1.24E+03	1.71E+03	2.32E+03
2.47E+00	7.77E+00	3.77E+03	3.37E+02	1.69E+02	8.39E+02	1.24E+03	1.70E+03	2.30E+03
2.62E+00	7.77E+00	3.70E+03	3.36E+02	1.69E+02	8.37E+02	1.23E+03	1.69E+03	2.28E+03
2.77E+00	7.77E+00	3.64E+03	3.34E+02	1.68E+02	8.35E+02	1.23E+03	1.67E+03	2.26E+03
2.93E+00	7.77E+00	3.57E+03	3.33E+02	1.68E+02	8.32E+02	1.22E+03	1.66E+03	2.24E+03
3.00E+00	7.77E+00	3.54E+03	3.32E+02	1.68E+02	8.32E+02	1.22E+03	1.65E+03	2.23E+03
3.10E+00	7.78E+00	3.49E+03	3.32E+02	1.68E+02	8.30E+02	1.21E+03	1.65E+03	2.22E+03
3.28E+00	7.78E+00	3.42E+03	3.30E+02	1.68E+02	8.26E+02	1.20E+03	1.63E+03	2.20E+03
3.48E+00	7.78E+00	3.34E+03	3.28E+02	1.68E+02	8.22E+02	1.19E+03	1.62E+03	2.17E+03
3.68E+00	7.79E+00	3.25E+03	3.27E+02	1.68E+02	8.19E+02	1.19E+03	1.60E+03	2.15E+03
3.89E+00	7.79E+00	3.17E+03	3.25E+02	1.68E+02	8.14E+02	1.18E+03	1.58E+03	2.12E+03
4.12E+00	7.79E+00	3.08E+03	3.23E+02	1.67E+02	8.10E+02	1.17E+03	1.56E+03	2.06E+03
4.36E+00	7.80E+00	2.99E+03	3.21E+02	1.67E+02	8.06E+02	1.16E+03	1.54E+03	2.02E+03
4.61E+00	7.80E+00	2.90E+03	3.19E+02	1.67E+02	8.01E+02	1.15E+03	1.52E+03	2.00E+03
4.88E+00	7.81E+00	2.81E+03	3.17E+02	1.67E+02	7.96E+02	1.14E+03	1.51E+03	1.97E+03
5.17E+00	7.81E+00	2.71E+03	3.14E+02	1.66E+02	7.91E+02	1.12E+03	1.49E+03	1.94E+03
5.47E+00	7.82E+00	2.62E+03	3.12E+02	1.66E+02	7.86E+02	1.11E+03	1.47E+03	1.92E+03
5.78E+00	7.82E+00	2.52E+03	3.09E+02	1.66E+02	7.80E+02	1.10E+03	1.46E+03	1.89E+03
6.12E+00	7.83E+00	2.41E+03	3.07E+02	1.66E+02	7.74E+02	1.09E+03	1.43E+03	1.85E+03
6.48E+00	7.83E+00	2.31E+03	3.04E+02	1.65E+02	7.68E+02	1.07E+03	1.40E+03	1.82E+03
6.86E+00	7.84E+00	2.21E+03	3.02E+02	1.65E+02	7.62E+02	1.06E+03	1.37E+03	1.79E+03
7.26E+00	7.85E+00	2.10E+03	2.99E+02	1.65E+02	7.55E+02	1.05E+03	1.32E+03	1.75E+03
7.68E+00	7.86E+00	2.00E+03	2.96E+02	1.64E+02	7.48E+02	1.05E+03	1.29E+03	1.70E+03
8.13E+00	7.86E+00	1.95E+03	2.93E+02	1.64E+02	7.40E+02	1.04E+03	1.26E+03	1.66E+03
8.60E+00	7.87E+00	1.90E+03	2.90E+02	1.64E+02	7.32E+02	1.02E+03	1.22E+03	1.62E+03
9.10E+00	7.88E+00	1.86E+03	2.86E+02	1.63E+02	7.25E+02	9.90E+02	1.20E+03	1.57E+03
9.63E+00	7.89E+00	1.81E+03	2.83E+02	1.63E+02	7.15E+02	9.66E+02	1.17E+03	1.52E+03
1.00E+01	7.90E+00	1.78E+03	2.81E+02	1.63E+02	7.09E+02	9.54E+02	1.15E+03	1.49E+03
1.02E+01	7.90E+00	1.76E+03	2.79E+02	1.63E+02	7.05E+02	9.42E+02	1.14E+03	1.47E+03
1.08E+01	7.91E+00	1.71E+03	2.76E+02	1.62E+02	6.96E+02	9.21E+02	1.09E+03	1.36E+03
1.14E+01	7.92E+00	1.66E+03	2.72E+02	1.62E+02	6.84E+02	9.00E+02	1.06E+03	1.27E+03
1.21E+01	7.93E+00	1.61E+03	2.68E+02	1.61E+02	6.67E+02	8.79E+02	1.03E+03	1.24E+03
1.28E+01	7.94E+00	1.55E+03	2.64E+02	1.61E+02	6.56E+02	8.58E+02	1.00E+03	1.22E+03
1.35E+01	7.96E+00	1.50E+03	2.60E+02	1.60E+02	6.45E+02	8.34E+02	9.67E+02	1.19E+03
1.43E+01	7.97E+00	1.44E+03	2.56E+02	1.60E+02	6.24E+02	7.97E+02	9.33E+02	1.16E+03
1.51E+01	7.98E+00	1.39E+03	2.52E+02	1.59E+02	6.12E+02	7.72E+02	9.10E+02	1.13E+03
1.60E+01	8.00E+00	1.33E+03	2.48E+02	1.59E+02	5.90E+02	7.50E+02	8.76E+02	1.11E+03
1.70E+01	8.02E+00	1.27E+03	2.44E+02	1.58E+02	5.76E+02	7.21E+02	8.46E+02	1.08E+03
1.80E+01	8.03E+00	1.21E+03	2.39E+02	1.58E+02	5.65E+02	6.95E+02	8.22E+02	1.04E+03
1.90E+01	8.05E+00	1.15E+03	2.35E+02	1.57E+02	5.50E+02	6.82E+02	7.97E+02	9.87E+02

2.01E+01 8.07E+00 1.09E+03 2.30E+02 1.56E+02 5.30E+02 6.60E+02 7.63E+02 9.35E+02



2.13E+01 8.09E+00 1.03E+03 2.25E+02 1.55E+02 5.18E+02 6.39E+02 7.31E+02 8.83E+02

2.25E+01 8.11E+00 9.69E+02 2.21E+02 1.53E+02 5.02E+02 6.17E+02 6.97E+02 8.31E+02

2.38E+01 8.13E+00 9.09E+02 2.16E+02 1.52E+02 4.87E+02 6.01E+02 6.72E+02 7.98E+02

2.52E+01 8.16E+00 8.63E+02 2.11E+02 1.52E+02 4.71E+02 5.84E+02 6.42E+02 7.78E+02

2.67E+01 8.18E+00 8.29E+02 2.06E+02 1.51E+02 4.57E+02 5.61E+02 6.22E+02 7.58E+02

2.82E+01 8.21E+00 7.95E+02 2.01E+02 1.50E+02 4.38E+02 5.25E+02 6.03E+02 7.33E+02

2.99E+01 8.24E+00 7.60E+02 1.96E+02 1.48E+02 4.23E+02 5.02E+02 5.78E+02 6.94E+02

3.00E+01 8.24E+00 7.57E+02 1.96E+02 1.48E+02 4.22E+02 5.00E+02 5.76E+02 6.91E+02



3.16E+01 8.27E+00 7.25E+02 1.91E+02 1.46E+02 4.08E+02 4.78E+02 5.54E+02 6.45E+02

3.35E+01 8.30E+00 6.89E+02 1.86E+02 1.44E+02 3.89E+02 4.67E+02 5.33E+02 6.04E+02

3.54E+01 8.33E+00 6.54E+02 1.81E+02 1.43E+02 3.76E+02 4.44E+02 5.10E+02 5.71E+02

3.75E+01 8.37E+00 6.31E+02 1.76E+02 1.42E+02 3.62E+02 4.31E+02 4.89E+02 5.38E+02

3.97E+01 8.41E+00 6.08E+02 1.71E+02 1.41E+02 3.46E+02 4.19E+02 4.67E+02 5.06E+02

4.20E+01 7.88E+00 5.85E+02 1.66E+02 1.39E+02 3.29E+02 4.03E+02 4.48E+02 4.85E+02

4.44E+01 5.50E+00 5.61E+02 1.61E+02 1.37E+02 3.19E+02 3.79E+02 4.30E+02 4.69E+02

4.70E+01 3.76E+00 5.38E+02 1.56E+02 1.35E+02 3.07E+02 3.64E+02 4.10E+02 4.52E+02



4.97E+01 2.51E+00 5.16E+02 1.51E+02 1.34E+02 2.94E+02 3.46E+02 3.93E+02 4.31E+02

5.26E+01	1.64E+00	4.93E+02	1.46E+02	1.31E+02	2.84E+02	3.33E+02	3.74E+02	4.06E+02
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5.57E+01 1.05E+00 4.71E+02 1.41E+02 1.28E+02 2.74E+02 3.18E+02 3.57E+02 3.77E+02

5.90E+01 6.49E-01 4.48E+02 1.36E+02 1.24E+02 2.62E+02 3.02E+02 3.35E+02 3.62E+02

6.24E+01 3.92E-01 4.25E+02 1.31E+02 1.21E+02 2.51E+02 2.93E+02 3.16E+02 3.47E+02

6.60E+01 2.30E-01 4.02E+02 1.26E+02 1.17E+02 2.37E+02 2.73E+02 3.00E+02 3.32E+02

6.99E+01 0.00E+00 3.79E+02 1.22E+02 1.14E+02 2.27E+02 2.64E+02 2.85E+02 3.18E+02

7.39E+01	0.00E+00	3.56E+02	1.17E+02	1.10E+02	2.18E+02	2.56E+02	2.68E+02	3.04E+02
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7.82E+01 0.00E+00 3.33E+02 1.13E+02 1.06E+02 2.07E+02 2.45E+02 2.57E+02 2.88E+02

8.28E+01 0.00E+00 3.11E+02 1.08E+02 1.02E+02 1.94E+02 2.31E+02 2.46E+02 2.71E+02

8.76E+01 0.00E+00 2.88E+02 1.04E+02 9.91E+01 1.85E+02 2.16E+02 2.36E+02 2.55E+02

9.27E+01	0.00E+00	2.67E+02	9.94E+01	9.53E+01	1.79E+02	2.08E+02	2.25E+02	2.42E+02
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9.81E+01 0.00E+00 2.46E+02 9.52E+01 9.09E+01 1.69E+02 1.96E+02 2.15E+02 2.27E+02

1.00E+02 0.00E+00 2.39E+02 9.39E+01 9.02E+01 1.66E+02 1.93E+02 2.12E+02 2.25E+02

1.04E+02 0.00E+00 2.25E+02 9.12E+01 8.87E+01 1.61E+02 1.88E+02 2.04E+02 2.20E+02

1.10E+02 0.00E+00 2.14E+02 8.72E+01 8.34E+01 1.53E+02 1.78E+02 1.89E+02 2.05E+02



1.16E+02 0.00E+00 2.07E+02 8.33E+01 7.92E+01 1.49E+02 1.68E+02 1.80E+02 1.94E+02

1.23E+02 0.00E+00 2.00E+02 7.95E+01 7.62E+01 1.42E+02 1.59E+02 1.70E+02 1.81E+02

1.30E+02 0.00E+00 1.93E+02 7.59E+01 7.40E+01 1.33E+02 1.50E+02 1.62E+02 1.72E+02

1.38E+02 0.00E+00 1.86E+02 7.23E+01 7.13E+01 1.27E+02 1.41E+02 1.52E+02 1.63E+02

1.46E+02 0.00E+00 1.79E+02 6.89E+01 6.82E+01 1.18E+02 1.34E+02 1.43E+02 1.54E+02

1.54E+02 0.00E+00 1.71E+02 6.55E+01 6.54E+01 1.13E+02 1.28E+02 1.36E+02 1.45E+02

1.63E+02 0.00E+00 1.64E+02 6.23E+01 6.30E+01 1.08E+02 1.21E+02 1.29E+02 1.36E+02

1.73E+02 0.00E+00 1.56E+02 5.92E+01 6.04E+01 1.04E+02 1.14E+02 1.22E+02 1.30E+02



1.83E+02 0.00E+00 1.49E+02 5.61E+01 5.76E+01 9.60E+01 1.09E+02 1.16E+02 1.23E+02

1.94E+02 0.00E+00 1.41E+02 5.32E+01 5.39E+01 9.18E+01 1.04E+02 1.11E+02 1.19E+02

2.05E+02 0.00E+00 1.33E+02 5.04E+01 5.15E+01 8.68E+01 9.84E+01 1.06E+02 1.15E+02

2.17E+02 0.00E+00 1.26E+02 4.77E+01 4.85E+01 8.21E+01 9.36E+01 1.00E+02 1.11E+02

2.29E+02 0.00E+00 1.18E+02 4.52E+01 4.71E+01 7.82E+01 8.79E+01 9.63E+01 1.07E+02

2.43E+02 0.00E+00 1.10E+02 4.27E+01 4.48E+01 7.42E+01 8.35E+01 9.21E+01 1.02E+02

2.57E+02 0.00E+00 1.03E+02 4.03E+01 4.31E+01 7.11E+01 7.91E+01 8.81E+01 9.75E+01

2.72E+02 0.00E+00 9.53E+01 3.80E+01 4.06E+01 6.84E+01 7.55E+01 8.44E+01 9.29E+01



2.88E+02    0.00E+00    9.12E+01    3.58E+01    3.82E+01    6.48E+01    7.18E+01    8.05E+01    8.81E+01

3.00E+02	0.00E+00	8.81E+01	3.42E+01	3.66E+01	6.20E+01	6.94E+01	7.74E+01	8.43E+01
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3.05E+02	0.00E+00	8.69E+01	3.37E+01	3.59E+01	6.11E+01	6.85E+01	7.62E+01	8.28E+01
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3.22E+02 0.00E+00 8.27E+01 3.17E+01 3.36E+01 5.81E+01 6.57E+01 7.20E+01 7.90E+01

3.41E+02    0.00E+00    7.85E+01    2.98E+01    3.12E+01    5.59E+01    6.22E+01    6.82E+01    7.45E+01

3.61E+02    0.00E+00    7.47E+01    2.79E+01    2.96E+01    5.31E+01    5.99E+01    6.49E+01    7.05E+01

3.82E+02 0.00E+00 7.06E+01 2.61E+01 2.74E+01 5.09E+01 5.57E+01 6.20E+01 6.64E+01

4.04E+02 0.00E+00 6.64E+01 2.44E+01 2.57E+01 4.87E+01 5.33E+01 5.80E+01 6.26E+01



4.28E+02 0.00E+00 6.27E+01 2.28E+01 2.33E+01 4.65E+01 5.06E+01 5.42E+01 5.96E+01

4.53E+02 0.00E+00 5.93E+01 2.13E+01 2.18E+01 4.42E+01 4.87E+01 5.15E+01 5.72E+01

4.79E+02 0.00E+00 5.65E+01 1.98E+01 2.01E+01 4.18E+01 4.63E+01 4.92E+01 5.32E+01

5.07E+02 0.00E+00 5.46E+01 1.85E+01 1.83E+01 3.91E+01 4.39E+01 4.71E+01 4.93E+01

5.36E+02	0.00E+00	5.29E+01	1.72E+01	1.65E+01	3.71E+01	4.25E+01	4.46E+01	4.63E+01
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5.68E+02    0.00E+00    5.12E+01    1.60E+01    1.52E+01    3.53E+01    4.03E+01    4.22E+01    4.47E+01

6.01E+02	0.00E+00	4.94E+01	1.48E+01	1.32E+01	3.36E+01	3.78E+01	3.99E+01	4.31E+01
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6.36E+02	0.00E+00	4.76E+01	1.37E+01	1.11E+01	3.16E+01	3.58E+01	3.83E+01	4.15E+01
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6.73E+02	0.00E+00	4.57E+01	1.27E+01	9.53E+00	2.99E+01	3.39E+01	3.67E+01	3.99E+01
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7.12E+02 0.00E+00 4.38E+01 1.18E+01 8.12E+00 2.86E+01 3.22E+01 3.49E+01 3.77E+01

7.53E+02 0.00E+00 4.19E+01 1.09E+01 6.62E+00 2.76E+01 3.04E+01 3.37E+01 3.60E+01

7.97E+02	0.00E+00	4.00E+01	9.99E+00	5.24E+00	2.66E+01	2.91E+01	3.24E+01	3.44E+01
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8.44E+02 0.00E+00 3.80E+01 9.18E+00 4.04E+00 2.56E+01 2.82E+01 3.12E+01 3.29E+01

8.93E+02 0.00E+00 3.61E+01 8.43E+00 3.17E+00 2.43E+01 2.74E+01 2.99E+01 3.15E+01

9.45E+02 0.00E+00 3.41E+01 7.72E+00 2.47E+00 2.31E+01 2.63E+01 2.89E+01 3.03E+01

1.00E+03 0.00E+00 3.21E+01 7.05E+00 1.93E+00 2.22E+01 2.51E+01 2.79E+01 2.94E+01



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Summary of dose at graphical times, reptition 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	6.23E+00	4.64E+03	3.62E+02	1.75E+02	8.67E+02	1.35E+03	1.90E+03	2.94E+03
1.00E+00	6.24E+00	4.08E+03	3.51E+02	1.74E+02	8.53E+02	1.31E+03	1.80E+03	2.72E+03
1.06E+00	6.24E+00	4.05E+03	3.50E+02	1.74E+02	8.52E+02	1.31E+03	1.79E+03	2.71E+03
1.12E+00	6.24E+00	4.01E+03	3.50E+02	1.74E+02	8.51E+02	1.31E+03	1.79E+03	2.70E+03
1.19E+00	6.24E+00	3.98E+03	3.49E+02	1.74E+02	8.50E+02	1.30E+03	1.78E+03	2.68E+03
1.25E+00	6.24E+00	3.95E+03	3.48E+02	1.74E+02	8.48E+02	1.30E+03	1.77E+03	2.67E+03
1.33E+00	6.25E+00	3.91E+03	3.48E+02	1.74E+02	8.47E+02	1.30E+03	1.77E+03	2.66E+03
1.40E+00	6.25E+00	3.87E+03	3.47E+02	1.73E+02	8.45E+02	1.29E+03	1.76E+03	2.64E+03
1.49E+00	6.25E+00	3.83E+03	3.46E+02	1.73E+02	8.44E+02	1.29E+03	1.75E+03	2.62E+03
1.57E+00	6.25E+00	3.79E+03	3.45E+02	1.73E+02	8.42E+02	1.29E+03	1.75E+03	2.61E+03
1.66E+00	6.25E+00	3.74E+03	3.44E+02	1.73E+02	8.40E+02	1.28E+03	1.74E+03	2.59E+03
1.76E+00	6.25E+00	3.70E+03	3.43E+02	1.73E+02	8.38E+02	1.28E+03	1.73E+03	2.57E+03
1.86E+00	6.25E+00	3.65E+03	3.42E+02	1.73E+02	8.36E+02	1.27E+03	1.73E+03	2.55E+03
1.97E+00	6.25E+00	3.60E+03	3.41E+02	1.73E+02	8.33E+02	1.27E+03	1.72E+03	2.53E+03
2.09E+00	6.25E+00	3.54E+03	3.40E+02	1.73E+02	8.31E+02	1.26E+03	1.71E+03	2.51E+03
2.21E+00	6.25E+00	3.49E+03	3.39E+02	1.73E+02	8.28E+02	1.26E+03	1.70E+03	2.48E+03
2.34E+00	6.26E+00	3.43E+03	3.38E+02	1.73E+02	8.26E+02	1.25E+03	1.69E+03	2.46E+03
2.47E+00	6.26E+00	3.37E+03	3.36E+02	1.73E+02	8.23E+02	1.25E+03	1.68E+03	2.43E+03
2.62E+00	6.26E+00	3.31E+03	3.35E+02	1.72E+02	8.20E+02	1.24E+03	1.67E+03	2.41E+03
2.77E+00	6.26E+00	3.24E+03	3.34E+02	1.72E+02	8.17E+02	1.23E+03	1.66E+03	2.37E+03
2.93E+00	6.26E+00	3.18E+03	3.32E+02	1.72E+02	8.14E+02	1.23E+03	1.65E+03	2.34E+03
3.00E+00	6.26E+00	3.15E+03	3.31E+02	1.72E+02	8.12E+02	1.22E+03	1.65E+03	2.33E+03
3.10E+00	6.26E+00	3.11E+03	3.31E+02	1.72E+02	8.10E+02	1.22E+03	1.64E+03	2.31E+03
3.28E+00	6.26E+00	3.04E+03	3.29E+02	1.72E+02	8.07E+02	1.21E+03	1.63E+03	2.28E+03
3.48E+00	6.27E+00	2.96E+03	3.27E+02	1.72E+02	8.03E+02	1.20E+03	1.62E+03	2.25E+03
3.68E+00	6.27E+00	2.89E+03	3.25E+02	1.72E+02	7.99E+02	1.19E+03	1.60E+03	2.21E+03
3.89E+00	6.27E+00	2.81E+03	3.24E+02	1.72E+02	7.94E+02	1.19E+03	1.59E+03	2.17E+03
4.12E+00	6.27E+00	2.73E+03	3.22E+02	1.71E+02	7.90E+02	1.18E+03	1.57E+03	2.14E+03
4.36E+00	6.28E+00	2.64E+03	3.20E+02	1.71E+02	7.85E+02	1.17E+03	1.56E+03	2.10E+03
4.61E+00	6.28E+00	2.56E+03	3.17E+02	1.71E+02	7.81E+02	1.16E+03	1.54E+03	2.06E+03
4.88E+00	6.28E+00	2.47E+03	3.15E+02	1.71E+02	7.76E+02	1.15E+03	1.52E+03	2.01E+03
5.17E+00	6.28E+00	2.38E+03	3.13E+02	1.71E+02	7.71E+02	1.13E+03	1.49E+03	1.97E+03
5.47E+00	6.29E+00	2.32E+03	3.10E+02	1.71E+02	7.65E+02	1.12E+03	1.46E+03	1.92E+03
5.78E+00	6.29E+00	2.27E+03	3.08E+02	1.71E+02	7.59E+02	1.11E+03	1.43E+03	1.88E+03
6.12E+00	6.29E+00	2.22E+03	3.05E+02	1.70E+02	7.52E+02	1.10E+03	1.40E+03	1.83E+03
6.48E+00	6.30E+00	2.17E+03	3.03E+02	1.70E+02	7.45E+02	1.08E+03	1.35E+03	1.78E+03
6.86E+00	6.30E+00	2.11E+03	3.00E+02	1.70E+02	7.38E+02	1.07E+03	1.32E+03	1.74E+03
7.26E+00	6.30E+00	2.05E+03	2.97E+02	1.70E+02	7.30E+02	1.05E+03	1.30E+03	1.69E+03
7.68E+00	6.31E+00	2.00E+03	2.94E+02	1.70E+02	7.23E+02	1.04E+03	1.28E+03	1.64E+03
8.13E+00	6.31E+00	1.94E+03	2.91E+02	1.69E+02	7.14E+02	1.02E+03	1.25E+03	1.58E+03
8.60E+00	6.32E+00	1.87E+03	2.88E+02	1.69E+02	7.02E+02	9.80E+02	1.23E+03	1.53E+03
9.10E+00	6.32E+00	1.81E+03	2.84E+02	1.69E+02	6.89E+02	9.66E+02	1.19E+03	1.47E+03
9.63E+00	6.33E+00	1.75E+03	2.81E+02	1.68E+02	6.83E+02	9.50E+02	1.16E+03	1.41E+03
1.00E+01	6.33E+00	1.70E+03	2.78E+02	1.68E+02	6.79E+02	9.33E+02	1.14E+03	1.37E+03
1.02E+01	6.33E+00	1.68E+03	2.77E+02	1.68E+02	6.77E+02	9.25E+02	1.13E+03	1.35E+03
1.08E+01	6.34E+00	1.61E+03	2.73E+02	1.68E+02	6.70E+02	9.00E+02	1.09E+03	1.29E+03
1.14E+01	6.35E+00	1.54E+03	2.70E+02	1.67E+02	6.51E+02	8.74E+02	1.05E+03	1.25E+03
1.21E+01	6.35E+00	1.47E+03	2.66E+02	1.67E+02	6.43E+02	8.47E+02	9.94E+02	1.22E+03
1.28E+01	6.36E+00	1.41E+03	2.62E+02	1.66E+02	6.33E+02	8.21E+02	9.65E+02	1.19E+03
1.35E+01	6.37E+00	1.34E+03	2.58E+02	1.66E+02	6.23E+02	7.98E+02	9.49E+02	1.16E+03
1.43E+01	6.37E+00	1.26E+03	2.54E+02	1.65E+02	6.13E+02	7.70E+02	9.27E+02	1.10E+03
1.51E+01	6.38E+00	1.19E+03	2.49E+02	1.64E+02	6.01E+02	7.41E+02	8.98E+02	1.04E+03
1.60E+01	6.39E+00	1.12E+03	2.45E+02	1.64E+02	5.87E+02	7.12E+02	8.54E+02	1.02E+03
1.70E+01	6.40E+00	1.07E+03	2.41E+02	1.63E+02	5.75E+02	6.95E+02	8.14E+02	9.87E+02
1.80E+01	6.41E+00	1.02E+03	2.36E+02	1.63E+02	5.62E+02	6.83E+02	7.71E+02	9.58E+02
1.90E+01	6.42E+00	9.79E+02	2.32E+02	1.62E+02	5.54E+02	6.52E+02	7.36E+02	9.16E+02

2.01E+01 6.43E+00 9.45E+02 2.27E+02 1.62E+02 5.44E+02 6.31E+02 7.09E+02 8.49E+02

2.13E+01 6.44E+00 9.10E+02 2.22E+02 1.60E+02 5.30E+02 6.15E+02 6.72E+02 8.09E+02

2.25E+01 6.46E+00 8.75E+02 2.17E+02 1.59E+02 5.13E+02 5.82E+02 6.41E+02 7.80E+02

2.38E+01 6.47E+00 8.39E+02 2.13E+02 1.58E+02 4.88E+02 5.61E+02 6.24E+02 7.57E+02

2.52E+01 6.48E+00 8.02E+02 2.08E+02 1.57E+02 4.74E+02 5.35E+02 6.00E+02 7.34E+02



2.67E+01 6.50E+00 7.66E+02 2.03E+02 1.55E+02 4.51E+02 5.14E+02 5.81E+02 6.96E+02

2.82E+01 6.51E+00 7.28E+02 1.98E+02 1.54E+02 4.24E+02 4.90E+02 5.62E+02 6.50E+02

2.99E+01 6.53E+00 6.91E+02 1.93E+02 1.53E+02 4.03E+02 4.79E+02 5.39E+02 6.17E+02

3.00E+01 6.53E+00 6.88E+02 1.92E+02 1.52E+02 4.01E+02 4.77E+02 5.38E+02 6.15E+02

3.16E+01 6.55E+00 6.56E+02 1.88E+02 1.51E+02 3.85E+02 4.57E+02 5.23E+02 5.93E+02

3.35E+01 6.56E+00 6.32E+02 1.83E+02 1.50E+02 3.72E+02 4.35E+02 5.06E+02 5.76E+02

3.54E+01 6.58E+00 6.07E+02 1.78E+02 1.47E+02 3.52E+02 4.22E+02 4.78E+02 5.59E+02

3.75E+01 6.60E+00 5.82E+02 1.73E+02 1.47E+02 3.38E+02 4.07E+02 4.57E+02 5.30E+02



3.97E+01 6.62E+00 5.57E+02 1.68E+02 1.43E+02 3.26E+02 3.94E+02 4.36E+02 4.96E+02

4.20E+01 5.86E+00 5.32E+02 1.63E+02 1.41E+02 3.14E+02 3.79E+02 4.23E+02 4.69E+02

4.44E+01 4.04E+00 5.06E+02 1.58E+02 1.37E+02 3.02E+02 3.67E+02 4.09E+02 4.51E+02

4.70E+01 2.72E+00 4.80E+02 1.53E+02 1.34E+02 2.90E+02 3.49E+02 3.91E+02 4.33E+02

4.97E+01 1.79E+00 4.54E+02 1.48E+02 1.32E+02 2.80E+02 3.31E+02 3.69E+02 4.14E+02

5.26E+01 1.15E+00 4.29E+02 1.43E+02 1.28E+02 2.68E+02 3.17E+02 3.54E+02 3.97E+02

5.57E+01 7.18E-01 4.09E+02 1.38E+02 1.23E+02 2.56E+02 3.02E+02 3.38E+02 3.77E+02

5.90E+01 4.37E-01 3.89E+02 1.34E+02 1.19E+02 2.43E+02 2.80E+02 3.25E+02 3.58E+02



6.24E+01 2.59E-01 3.69E+02 1.29E+02 1.17E+02 2.35E+02 2.69E+02 3.10E+02 3.42E+02

6.60E+01 1.48E-01 3.52E+02 1.24E+02 1.14E+02 2.26E+02 2.61E+02 2.94E+02 3.30E+02

6.99E+01 8.25E-02 3.35E+02 1.20E+02 1.10E+02 2.17E+02 2.50E+02 2.77E+02 3.18E+02

7.39E+01 4.43E-02 3.18E+02 1.15E+02 1.08E+02 2.09E+02 2.38E+02 2.64E+02 3.05E+02

7.82E+01 2.30E-02 3.04E+02 1.11E+02 1.03E+02 2.02E+02 2.28E+02 2.51E+02 2.89E+02

8.28E+01 1.15E-02 2.89E+02 1.07E+02 9.98E+01 1.92E+02 2.21E+02 2.37E+02 2.79E+02

8.76E+01 5.53E-03 2.77E+02 1.02E+02 9.69E+01 1.83E+02 2.08E+02 2.26E+02 2.66E+02

9.27E+01 2.57E-03 2.66E+02 9.83E+01 9.33E+01 1.74E+02 2.00E+02 2.14E+02 2.50E+02



9.81E+01 1.17E-03 2.55E+02 9.42E+01 8.96E+01 1.66E+02 1.89E+02 2.05E+02 2.34E+02

1.00E+02 8.95E-04 2.51E+02 9.29E+01 8.81E+01 1.63E+02 1.87E+02 2.03E+02 2.28E+02

1.04E+02 5.29E-04 2.43E+02 9.03E+01 8.53E+01 1.58E+02 1.81E+02 1.97E+02 2.17E+02

1.10E+02 2.53E-04 2.33E+02 8.65E+01 8.20E+01 1.49E+02 1.75E+02 1.89E+02 2.06E+02

1.16E+02 1.39E-04 2.23E+02 8.27E+01 7.87E+01 1.42E+02 1.63E+02 1.80E+02 1.98E+02

1.23E+02 9.44E-05 2.13E+02 7.91E+01 7.51E+01 1.36E+02 1.58E+02 1.73E+02 1.87E+02

1.30E+02 7.75E-05 2.03E+02 7.56E+01 7.19E+01 1.30E+02 1.51E+02 1.64E+02 1.76E+02

1.38E+02 7.10E-05 1.93E+02 7.21E+01 6.93E+01 1.24E+02 1.42E+02 1.57E+02 1.64E+02



1.46E+02 6.83E-05 1.83E+02 6.88E+01 6.61E+01 1.20E+02 1.36E+02 1.50E+02 1.57E+02

1.54E+02 6.68E-05 1.73E+02 6.56E+01 6.46E+01 1.14E+02 1.31E+02 1.42E+02 1.51E+02

1.63E+02 6.56E-05 1.63E+02 6.25E+01 6.21E+01 1.09E+02 1.23E+02 1.36E+02 1.45E+02

1.73E+02 6.45E-05 1.53E+02 5.95E+01 5.88E+01 1.04E+02 1.15E+02 1.29E+02 1.38E+02

1.83E+02 6.33E-05 1.43E+02 5.66E+01 5.70E+01 1.01E+02 1.12E+02 1.23E+02 1.28E+02

1.94E+02 6.22E-05 1.33E+02 5.38E+01 5.50E+01 9.37E+01 1.08E+02 1.17E+02 1.22E+02

2.05E+02 6.10E-05 1.23E+02 5.11E+01 5.20E+01 8.95E+01 1.03E+02 1.13E+02 1.14E+02

2.17E+02 5.97E-05 1.14E+02 4.85E+01 4.98E+01 8.46E+01 9.75E+01 1.06E+02 1.10E+02



2.29E+02 5.84E-05 1.09E+02 4.59E+01 4.76E+01 8.08E+01 9.28E+01 9.94E+01 1.05E+02

2.43E+02 5.71E-05 1.04E+02 4.34E+01 4.61E+01 7.66E+01 8.91E+01 9.37E+01 9.91E+01

2.57E+02    0.00E+00    9.87E+01    4.09E+01    4.38E+01    7.24E+01    8.36E+01    8.80E+01    9.36E+01

2.72E+02 0.00E+00 9.43E+01 3.86E+01 4.17E+01 6.88E+01 7.87E+01 8.38E+01 8.96E+01

2.88E+02 0.00E+00 8.99E+01 3.64E+01 3.92E+01 6.56E+01 7.42E+01 8.00E+01 8.60E+01

3.00E+02 0.00E+00 8.66E+01 3.49E+01 3.74E+01 6.31E+01 7.15E+01 7.63E+01 8.17E+01

3.05E+02 0.00E+00 8.58E+01 3.43E+01 3.68E+01 6.26E+01 7.00E+01 7.51E+01 8.03E+01

3.22E+02 0.00E+00 8.25E+01 3.23E+01 3.49E+01 5.97E+01 6.57E+01 6.98E+01 7.68E+01



3.41E+02    0.00E+00    7.91E+01    3.04E+01    3.34E+01    5.65E+01    6.21E+01    6.59E+01    7.35E+01

3.61E+02 0.00E+00 7.57E+01 2.84E+01 3.13E+01 5.39E+01 5.90E+01 6.31E+01 7.02E+01

3.82E+02	0.00E+00	7.22E+01	2.67E+01	2.93E+01	5.05E+01	5.65E+01	5.97E+01	6.69E+01
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4.04E+02 0.00E+00 6.87E+01 2.50E+01 2.77E+01 4.84E+01 5.33E+01 5.68E+01 6.35E+01

4.28E+02 0.00E+00 6.52E+01 2.33E+01 2.60E+01 4.55E+01 5.08E+01 5.38E+01 5.95E+01

4.53E+02 0.00E+00 6.17E+01 2.18E+01 2.33E+01 4.32E+01 4.78E+01 5.15E+01 5.69E+01

4.79E+02 0.00E+00 5.82E+01 2.03E+01 2.15E+01 4.09E+01 4.49E+01 4.98E+01 5.38E+01

5.07E+02    0.00E+00    5.47E+01    1.88E+01    1.95E+01    3.90E+01    4.28E+01    4.70E+01    5.10E+01



5.36E+02    0.00E+00    5.12E+01    1.75E+01    1.74E+01    3.70E+01    4.17E+01    4.48E+01    4.75E+01

5.68E+02    0.00E+00    4.78E+01    1.63E+01    1.54E+01    3.51E+01    3.88E+01    4.24E+01    4.49E+01

6.01E+02 0.00E+00 4.44E+01 1.51E+01 1.34E+01 3.34E+01 3.76E+01 4.05E+01 4.26E+01

6.36E+02 0.00E+00 4.25E+01 1.40E+01 1.20E+01 3.15E+01 3.61E+01 3.84E+01 4.11E+01

6.73E+02 0.00E+00 4.11E+01 1.29E+01 1.02E+01 3.01E+01 3.39E+01 3.59E+01 3.90E+01

7.12E+02 0.00E+00 3.95E+01 1.19E+01 8.59E+00 2.89E+01 3.23E+01 3.47E+01 3.75E+01

7.53E+02 0.00E+00 3.79E+01 1.10E+01 7.06E+00 2.77E+01 3.04E+01 3.38E+01 3.58E+01

7.97E+02    0.00E+00    3.63E+01    1.01E+01    5.67E+00    2.66E+01    2.88E+01    3.25E+01    3.51E+01



8.44E+02 0.00E+00 3.49E+01 9.29E+00 4.61E+00 2.54E+01 2.77E+01 3.07E+01 3.41E+01

8.93E+02	0.00E+00	3.37E+01	8.47E+00	3.59E+00	2.41E+01	2.69E+01	2.91E+01	3.22E+01
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9.45E+02 0.00E+00 3.25E+01 7.73E+00 2.80E+00 2.27E+01 2.62E+01 2.82E+01 3.07E+01

1.00E+03 0.00E+00 3.13E+01 7.05E+00 2.10E+00 2.17E+01 2.51E+01 2.81E+01 2.93E+01

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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 NP-237.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	3.581E+02
2	0.000E+00	3.617E+02
3	0.000E+00	3.615E+02

Title : RESRAD Default Parameters  
Input File : FCS BFM INSITU UA NP-237.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	9 -0.02	9 -0.02	8 -0.07	8 0.00
Contaminated zone b parameter	3 -0.06	3 -0.06	17 0.00	17 0.00
Evapotranspiration coefficient	5 -0.04	5 -0.04	7 0.10	7 0.00
Wind Speed	15 0.00	15 0.00	10 -0.05	10 0.00
Runoff coefficient	4 -0.05	4 -0.05	14 -0.01	14 0.00
b Parameter of Unsaturated zone 1	10 -0.02	10 -0.02	15 0.01	15 0.00
Mass loading for inhalation	8 -0.02	8 -0.02	12 -0.03	12 0.00
Indoor dust filtration factor	14 -0.01	14 -0.01	13 -0.03	13 0.00
Depth of soil mixing layer	16 0.00	16 0.00	9 0.07	9 0.00
Depth of roots	12 -0.01	12 -0.01	2 0.60	2 0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	6 0.04	6 0.04	5 -0.21	5 -0.01
Weathering removal constant of all vegetation	13 -0.01	13 -0.01	3 -0.53	3 -0.03
Wet foliar interception fraction of leafy vegetables	7 -0.03	7 -0.03	4 0.29	4 0.01
Humidity in air	2 0.08	2 0.08	16 0.00	16 0.00
Cover erosion rate	11 -0.01	11 -0.01	6 0.20	6 0.01
Kd of Np-237 in Contaminated Zone	1 -0.29	1 -0.29	1 -1.00	1 -1.00
Kd of Np-237 in Saturated Zone	17 0.00	17 0.00	11 0.03	11 0.00
R-SQUARE	0.10	0.10	1.00	1.00

-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 NP-237.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	5 -0.04	5 -0.04	15 -0.01	15 0.00
Contaminated zone b parameter	8 0.03	8 0.03	13 0.02	13 0.00
Evapotranspiration coefficient	17 0.00	17 0.00	8 0.04	8 0.00
Wind Speed	4 0.05	4 0.05	7 -0.06	7 0.00
Runoff coefficient	7 0.03	7 0.03	16 0.01	16 0.00
b Parameter of Unsaturated zone 1	10 -0.03	10 -0.03	10 -0.03	10 0.00
Mass loading for inhalation	15 0.00	15 0.00	12 -0.02	12 0.00
Indoor dust filtration factor	3 -0.05	3 -0.05	11 -0.03	11 0.00
Depth of soil mixing layer	6 0.04	6 0.04	17 -0.01	17 0.00
Depth of roots	14 0.01	13 0.01	2 0.61	2 0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	12 0.01	12 0.01	4 -0.23	4 -0.01
Weathering removal constant of all vegetation	11 -0.02	11 -0.02	3 -0.53	3 -0.03
Wet foliar interception fraction of leafy vegetables	2 0.08	2 0.07	5 0.19	5 0.01
Humidity in air	9 -0.03	9 -0.03	9 0.03	9 0.00
Cover erosion rate	16 0.00	16 0.00	6 0.17	6 0.01
Kd of Np-237 in Contaminated Zone	1 -0.20	1 -0.20	1 -1.00	1 -1.00
Kd of Np-237 in Saturated Zone	13 0.01	14 0.01	14 0.01	14 0.00
R-SQUARE	0.05	0.05	1.00	1.00

-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 NP-237.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	16	-0.01	16	0.00	10	-0.05	10	0.00
Contaminated zone b parameter	6	0.04	6	0.04	12	-0.03	12	0.00
Evapotranspiration coefficient	14	-0.01	14	-0.01	8	-0.05	8	0.00
Wind Speed	8	-0.04	8	-0.03	15	-0.02	15	0.00
Runoff coefficient	5	-0.05	5	-0.05	14	0.03	14	0.00
b Parameter of Unsaturated zone 1	15	0.01	15	0.01	16	-0.01	16	0.00
Mass loading for inhalation	2	0.12	2	0.12	11	-0.05	11	0.00
Indoor dust filtration factor	13	-0.02	13	-0.02	7	-0.06	7	0.00
Depth of soil mixing layer	17	0.00	17	0.00	17	-0.01	17	0.00
Depth of roots	4	0.05	4	0.05	2	0.63	2	0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	12	-0.03	12	-0.02	5	-0.19	5	-0.01
Weathering removal constant of all vegetation	7	-0.04	7	-0.04	3	-0.52	3	-0.03
Wet foliar interception fraction of leafy vegetables	9	0.03	9	0.03	4	0.25	4	0.01
Humidity in air	10	-0.03	10	-0.03	9	0.05	9	0.00
Cover erosion rate	3	0.06	3	0.05	6	0.19	6	0.01
Kd of Np-237 in Contaminated Zone	1	-0.27	1	-0.26	1	-1.00	1	-1.00
Kd of Np-237 in Saturated Zone	11	-0.03	11	-0.03	13	0.03	13	0.00
R-SQUARE	0.09		0.09		1.00		1.00	

-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.