

Table of Contents

Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

Probabilistic Input	2
Total Dose	3
Total Risk	4
Dose vs Pathway: Ground External	5
Dose vs Pathway: Inhalation (w/o Radon)	6
Dose vs Pathway: Radon (Water Ind.)	7
Dose vs Pathway: Plant (Water Ind.)	8
Dose vs Pathway: Meat (Water Ind.)	9
Dose vs Pathway: Milk (Water Ind.)	10
Dose vs Pathway: Soil Ingestion	11
Dose vs Pathway: Water Ingestion	12
Dose vs Pathway: Fish Ingestion	13
Dose vs Pathway: Radon (Water Dep.)	14
Dose vs Pathway: Plant (Water Dep.)	15
Dose vs Pathway: Meat (Water Dep.)	16
Dose vs Pathway: Milk (Water Dep.)	17
Cumulative Probability Summary.....	18
Summary of dose at graphical times, reptition 1.....	19
Summary of dose at graphical times, reptition 2.....	20
Summary of dose at graphical times, reptition 3.....	21
Peak of the mean dose at graphical times.....	22
Correlation and Regression coefficients (if any).....	23

[illegible]

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
Sb-125										
Min	0.00E+00	1.03E-02	1.03E-02	1.01E-02	6.16E-03	1.07E-03	2.39E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.18E+01	3.64E+00	3.64E+00	2.44E+00	1.09E+00	9.82E-02	5.93E-04	1.45E-11	0.00E+00	0.00E+00
Avg	8.18E-02	2.73E-01	2.72E-01	2.11E-01	1.19E-01	1.73E-02	8.51E-05	1.30E-12	0.00E+00	0.00E+00
Std	6.64E-01	4.29E-01	4.29E-01	3.04E-01	1.54E-01	1.80E-02	8.82E-05	1.96E-12	0.00E+00	0.00E+00
ALL										
Min	0.00E+00	1.03E-02	1.03E-02	1.01E-02	6.16E-03	1.07E-03	2.39E-06	0.00E+00	0.00E+00	0.00E+00
Max	1.18E+01	3.64E+00	3.64E+00	2.44E+00	1.09E+00	9.82E-02	5.93E-04	1.45E-11	0.00E+00	0.00E+00
Avg	8.18E-02	2.73E-01	2.72E-01	2.11E-01	1.19E-01	1.73E-02	8.51E-05	1.30E-12	0.00E+00	0.00E+00
Std	6.64E-01	4.29E-01	4.29E-01	3.04E-01	1.54E-01	1.80E-02	8.82E-05	1.96E-12	0.00E+00	0.00E+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
Sb-125									
Min		6.87E-08	3.61E-07	2.21E-07	3.84E-08	1.42E-10	0.00E+00	0.00E+00	0.00E+00
Max		2.11E-04	1.43E-04	6.39E-05	5.49E-06	2.29E-08	3.84E-16	0.00E+00	0.00E+00
Avg		1.36E-05	1.14E-05	6.38E-06	8.96E-07	4.12E-09	5.70E-17	0.00E+00	0.00E+00
Std		2.45E-05	1.74E-05	8.79E-06	9.34E-07	3.30E-09	5.46E-17	0.00E+00	0.00E+00
ALL									
Min		6.87E-08	3.61E-07	2.21E-07	3.84E-08	1.42E-10	0.00E+00	0.00E+00	0.00E+00
Max		2.11E-04	1.43E-04	6.39E-05	5.49E-06	2.29E-08	3.84E-16	0.00E+00	0.00E+00
Avg		1.36E-05	1.14E-05	6.38E-06	8.96E-07	4.12E-09	5.70E-17	0.00E+00	0.00E+00
Std		2.45E-05	1.74E-05	8.79E-06	9.34E-07	3.30E-09	5.46E-17	0.00E+00	0.00E+00

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
<hr/>									
Sb-125									
Min		1.17E-06	7.40E-07	2.95E-07	1.18E-08	1.20E-12	0.00E+00	0.00E+00	0.00E+00
Max		6.75E-06	8.61E-05	1.40E-02	8.11E-02	5.44E-04	1.34E-11	0.00E+00	0.00E+00
Avg		1.35E-06	1.38E-06	2.73E-05	8.85E-04	1.14E-05	3.37E-13	0.00E+00	0.00E+00
Std		3.32E-07	3.81E-06	4.78E-04	7.96E-03	7.20E-05	1.83E-12	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		1.17E-06	7.40E-07	2.95E-07	1.18E-08	1.20E-12	0.00E+00	0.00E+00	0.00E+00
Max		6.75E-06	8.61E-05	1.40E-02	8.11E-02	5.44E-04	1.34E-11	0.00E+00	0.00E+00
Avg		1.35E-06	1.38E-06	2.73E-05	8.85E-04	1.14E-05	3.37E-13	0.00E+00	0.00E+00
Std		3.32E-07	3.81E-06	4.78E-04	7.96E-03	7.20E-05	1.83E-12	0.00E+00	0.00E+00
<hr/>									

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
<hr/>									
SB-125									
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	3.22E-08	2.57E-08	1.64E-10	2.84E-18	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	3.02E-11	1.33E-10	1.64E-12	4.68E-20	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	8.69E-10	1.26E-09	1.11E-11	2.70E-19	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	3.22E-08	2.57E-08	1.64E-10	2.84E-18	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	3.02E-11	1.33E-10	1.64E-12	4.68E-20	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	8.69E-10	1.26E-09	1.11E-11	2.70E-19	0.00E+00	0.00E+00
<hr/>									

ALL 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/>									
Sb-125									
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
<hr/>									

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
<hr/>									
Sb-125									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.67E-02	3.89E-02	2.61E-02	5.05E-03	3.39E-05	8.35E-13	0.00E+00	0.00E+00
Avg		2.18E-02	2.22E-02	1.33E-02	2.23E-03	1.37E-05	2.87E-13	0.00E+00	0.00E+00
Std		1.28E-02	1.29E-02	7.77E-03	1.34E-03	9.01E-06	2.27E-13	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.67E-02	3.89E-02	2.61E-02	5.05E-03	3.39E-05	8.35E-13	0.00E+00	0.00E+00
Avg		2.18E-02	2.22E-02	1.33E-02	2.23E-03	1.37E-05	2.87E-13	0.00E+00	0.00E+00
Std		1.28E-02	1.29E-02	7.77E-03	1.34E-03	9.01E-06	2.27E-13	0.00E+00	0.00E+00
<hr/>									

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
<hr/>									
Sb-125									
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		1.31E-03	1.58E-03	1.07E-03	2.36E-04	1.58E-06	3.90E-14	0.00E+00	0.00E+00
Avg		7.84E-04	9.04E-04	5.46E-04	9.17E-05	5.64E-07	1.19E-14	0.00E+00	0.00E+00
Std		4.59E-04	5.28E-04	3.18E-04	5.56E-05	3.77E-07	9.49E-15	0.00E+00	0.00E+00
<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		1.31E-03	1.58E-03	1.07E-03	2.36E-04	1.58E-06	3.90E-14	0.00E+00	0.00E+00
Avg		7.84E-04	9.04E-04	5.46E-04	9.17E-05	5.64E-07	1.19E-14	0.00E+00	0.00E+00
Std		4.59E-04	5.28E-04	3.18E-04	5.56E-05	3.77E-07	9.49E-15	0.00E+00	0.00E+00
<hr/>									

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
<hr/>									
Sb-125									
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		9.93E-04	1.14E-03	7.72E-04	1.57E-04	1.05E-06	2.60E-14	0.00E+00	0.00E+00
Avg		5.93E-04	6.56E-04	3.95E-04	6.62E-05	4.06E-07	8.53E-15	0.00E+00	0.00E+00
Std		3.47E-04	3.83E-04	2.30E-04	3.99E-05	2.69E-07	6.77E-15	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.93E-04	1.14E-03	7.72E-04	1.57E-04	1.05E-06	2.60E-14	0.00E+00	0.00E+00
Avg		5.93E-04	6.56E-04	3.95E-04	6.62E-05	4.06E-07	8.53E-15	0.00E+00	0.00E+00
Std		3.47E-04	3.83E-04	2.30E-04	3.99E-05	2.69E-07	6.77E-15	0.00E+00	0.00E+00
<hr/>									

ALL is total pathway dose summed for all nuclides.

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
<hr/>									
Sb-125									
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	5.02E-06	3.82E-06	2.56E-08	6.32E-16	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	7.31E-09	4.53E-08	5.56E-10	1.63E-17	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	1.75E-07	3.89E-07	3.41E-09	8.68E-17	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	5.02E-06	3.82E-06	2.56E-08	6.32E-16	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	7.31E-09	4.53E-08	5.56E-10	1.63E-17	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	1.75E-07	3.89E-07	3.41E-09	8.68E-17	0.00E+00	0.00E+00
<hr/>									

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
<hr/>									
Sb-125									
Min	7.29E-03	7.57E-03	4.61E-03	8.00E-04	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.23E+00	2.16E+00	9.59E-01	8.86E-02	2.13E-04	1.70E-12	0.00E+00	0.00E+00	0.00E+00
Avg	2.22E-01	1.67E-01	9.28E-02	1.25E-02	5.25E-05	5.85E-13	0.00E+00	0.00E+00	0.00E+00
Std	3.83E-01	2.71E-01	1.37E-01	1.47E-02	4.47E-05	3.67E-13	0.00E+00	0.00E+00	0.00E+00
ALL									
Min	7.29E-03	7.57E-03	4.61E-03	8.00E-04	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.23E+00	2.16E+00	9.59E-01	8.86E-02	2.13E-04	1.70E-12	0.00E+00	0.00E+00	0.00E+00
Avg	2.22E-01	1.67E-01	9.28E-02	1.25E-02	5.25E-05	5.85E-13	0.00E+00	0.00E+00	0.00E+00
Std	3.83E-01	2.71E-01	1.37E-01	1.47E-02	4.47E-05	3.67E-13	0.00E+00	0.00E+00	0.00E+00
<hr/>									

ALL is total pathway dose summed for all nuclides.

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/>									
Sb-125									
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
<hr/>									

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 SB-125.RAD

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/>									
Sb-125									
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
<hr/>									

ALL is total pathway dose summed for all nuclides.

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/>									
Sb-125									
Min		2.53E-04	2.65E-04	1.62E-04	2.80E-05	1.01E-07	0.00E+00	0.00E+00	0.00E+00
Max		5.61E-01	4.00E-01	2.01E-01	1.81E-02	6.34E-05	4.11E-13	0.00E+00	0.00E+00
Avg		2.06E-02	1.56E-02	8.69E-03	1.18E-03	4.94E-06	5.60E-14	0.00E+00	0.00E+00
Std		4.19E-02	3.01E-02	1.56E-02	1.73E-03	5.65E-06	5.22E-14	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		2.53E-04	2.65E-04	1.62E-04	2.80E-05	1.01E-07	0.00E+00	0.00E+00	0.00E+00
Max		5.61E-01	4.00E-01	2.01E-01	1.81E-02	6.34E-05	4.11E-13	0.00E+00	0.00E+00
Avg		2.06E-02	1.56E-02	8.69E-03	1.18E-03	4.94E-06	5.60E-14	0.00E+00	0.00E+00
Std		4.19E-02	3.01E-02	1.56E-02	1.73E-03	5.65E-06	5.22E-14	0.00E+00	0.00E+00
<hr/>									

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 SB-125.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/>									
Sb-125									
Min		2.66E-04	2.89E-04	1.76E-04	3.06E-05	3.61E-08	0.00E+00	0.00E+00	0.00E+00
Max		5.81E-02	4.11E-02	2.11E-02	2.20E-03	5.90E-06	4.24E-14	0.00E+00	0.00E+00
Avg		4.52E-03	3.55E-03	1.98E-03	2.70E-04	1.16E-06	1.37E-14	0.00E+00	0.00E+00
Std		7.68E-03	5.62E-03	2.86E-03	3.02E-04	9.02E-07	7.71E-15	0.00E+00	0.00E+00
<hr/>									
ΣALL									
Min		2.66E-04	2.89E-04	1.76E-04	3.06E-05	3.61E-08	0.00E+00	0.00E+00	0.00E+00
Max		5.81E-02	4.11E-02	2.11E-02	2.20E-03	5.90E-06	4.24E-14	0.00E+00	0.00E+00
Avg		4.52E-03	3.55E-03	1.98E-03	2.70E-04	1.16E-06	1.37E-14	0.00E+00	0.00E+00
Std		7.68E-03	5.62E-03	2.86E-03	3.02E-04	9.02E-07	7.71E-15	0.00E+00	0.00E+00
<hr/>									

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 SB-125.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/>									
Sb-125									
Min		1.17E-04	1.23E-04	7.51E-05	1.30E-05	1.19E-08	0.00E+00	0.00E+00	0.00E+00
Max		2.27E-02	1.65E-02	8.56E-03	8.93E-04	2.52E-06	1.75E-14	0.00E+00	0.00E+00
Avg		1.71E-03	1.36E-03	7.61E-04	1.04E-04	4.50E-07	5.46E-15	0.00E+00	0.00E+00
Std		2.90E-03	2.15E-03	1.10E-03	1.16E-04	3.47E-07	3.07E-15	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		1.17E-04	1.23E-04	7.51E-05	1.30E-05	1.19E-08	0.00E+00	0.00E+00	0.00E+00
Max		2.27E-02	1.65E-02	8.56E-03	8.93E-04	2.52E-06	1.75E-14	0.00E+00	0.00E+00
Avg		1.71E-03	1.36E-03	7.61E-04	1.04E-04	4.50E-07	5.46E-15	0.00E+00	0.00E+00
Std		2.90E-03	2.15E-03	1.10E-03	1.16E-04	3.47E-07	3.07E-15	0.00E+00	0.00E+00
<hr/>									

ALL is total pathway dose summed for all nuclides.

Cumulative Probability Summary for: Total Dose Over Pathways								
Cumulative	Dose(t), mrem/yr							
Probability	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02
0.025		1.80E-02	1.63E-02	9.88E-03	1.71E-03	1.13E-05	8.05E-15	0.00E+00
0.050		2.59E-02	2.33E-02	1.43E-02	2.51E-03	1.62E-05	7.20E-14	0.00E+00
0.075		3.16E-02	2.90E-02	1.78E-02	3.17E-03	2.14E-05	2.12E-13	0.00E+00
0.100		3.89E-02	3.59E-02	2.20E-02	3.86E-03	2.53E-05	2.87E-13	0.00E+00
0.125		4.33E-02	4.11E-02	2.50E-02	4.35E-03	2.89E-05	3.64E-13	0.00E+00
0.150		4.67E-02	4.45E-02	2.70E-02	4.73E-03	3.18E-05	4.56E-13	0.00E+00
0.175		4.99E-02	4.77E-02	2.91E-02	5.08E-03	3.34E-05	5.46E-13	0.00E+00
0.200		5.20E-02	5.01E-02	3.06E-02	5.33E-03	3.54E-05	6.09E-13	0.00E+00
0.225		5.45E-02	5.21E-02	3.18E-02	5.56E-03	3.64E-05	6.62E-13	0.00E+00
0.250		5.77E-02	5.46E-02	3.33E-02	5.79E-03	3.82E-05	7.12E-13	0.00E+00
0.275		6.15E-02	5.69E-02	3.46E-02	6.01E-03	3.98E-05	7.66E-13	0.00E+00
0.300		6.42E-02	5.91E-02	3.60E-02	6.27E-03	4.11E-05	8.11E-13	0.00E+00
0.325		6.71E-02	6.15E-02	3.73E-02	6.50E-03	4.25E-05	8.34E-13	0.00E+00
0.350		7.06E-02	6.38E-02	3.88E-02	6.76E-03	4.34E-05	8.66E-13	0.00E+00
0.375		7.55E-02	6.74E-02	4.13E-02	7.17E-03	4.59E-05	8.86E-13	0.00E+00
0.400		8.05E-02	7.11E-02	4.32E-02	7.55E-03	4.82E-05	9.13E-13	0.00E+00
0.425		8.80E-02	7.79E-02	4.71E-02	8.19E-03	5.11E-05	9.35E-13	0.00E+00
0.450		9.48E-02	8.31E-02	5.02E-02	8.66E-03	5.40E-05	9.54E-13	0.00E+00
0.475		1.02E-01	8.69E-02	5.27E-02	9.16E-03	5.66E-05	9.79E-13	0.00E+00
0.500		1.08E-01	9.35E-02	5.63E-02	9.74E-03	5.99E-05	9.98E-13	0.00E+00
0.525		1.18E-01	9.93E-02	6.01E-02	1.05E-02	6.30E-05	1.02E-12	0.00E+00
0.550		1.30E-01	1.09E-01	6.56E-02	1.14E-02	6.64E-05	1.05E-12	0.00E+00
0.575		1.41E-01	1.17E-01	7.05E-02	1.21E-02	7.16E-05	1.07E-12	0.00E+00
0.600		1.52E-01	1.27E-01	7.62E-02	1.31E-02	7.55E-05	1.10E-12	0.00E+00
0.625		1.66E-01	1.38E-01	8.32E-02	1.42E-02	7.99E-05	1.13E-12	0.00E+00
0.650		1.85E-01	1.52E-01	9.14E-02	1.56E-02	8.46E-05	1.16E-12	0.00E+00
0.675		2.07E-01	1.69E-01	1.01E-01	1.69E-02	8.90E-05	1.18E-12	0.00E+00
0.700		2.30E-01	1.85E-01	1.10E-01	1.85E-02	9.50E-05	1.21E-12	0.00E+00
0.725		2.49E-01	2.01E-01	1.21E-01	2.02E-02	1.00E-04	1.25E-12	0.00E+00
0.750		2.84E-01	2.26E-01	1.34E-01	2.23E-02	1.05E-04	1.29E-12	0.00E+00
0.775		3.15E-01	2.52E-01	1.49E-01	2.46E-02	1.12E-04	1.32E-12	0.00E+00
0.800		3.56E-01	2.84E-01	1.66E-01	2.71E-02	1.17E-04	1.36E-12	0.00E+00
0.825		4.12E-01	3.24E-01	1.87E-01	3.07E-02	1.25E-04	1.42E-12	0.00E+00
0.850		4.84E-01	3.76E-01	2.19E-01	3.42E-02	1.33E-04	1.47E-12	0.00E+00
0.875		5.64E-01	4.38E-01	2.53E-01	3.85E-02	1.42E-04	1.53E-12	0.00E+00
0.900		6.81E-01	5.26E-01	3.01E-01	4.35E-02	1.55E-04	1.64E-12	0.00E+00
0.925		8.59E-01	6.50E-01	3.59E-01	4.93E-02	1.72E-04	1.78E-12	0.00E+00
0.950		1.12E+00	8.42E-01	4.59E-01	5.66E-02	1.93E-04	1.94E-12	0.00E+00
0.975		1.63E+00	1.17E+00	6.12E-01	6.76E-02	3.27E-04	9.12E-12	0.00E+00
1.000		3.64E+00	2.44E+00	1.09E+00	9.82E-02	5.93E-04	1.45E-11	0.00E+00

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-02	3.06E+00	2.71E-01	1.11E-01	6.83E-01	1.12E+00	1.65E+00	2.40E+00
1.00E+00	1.01E-02	2.07E+00	2.10E-01	9.39E-02	5.24E-01	8.37E-01	1.18E+00	1.61E+00
1.06E+00	9.99E-03	2.02E+00	2.06E-01	9.26E-02	5.15E-01	8.22E-01	1.16E+00	1.57E+00
1.12E+00	9.84E-03	1.97E+00	2.03E-01	9.11E-02	5.07E-01	8.07E-01	1.13E+00	1.53E+00
1.19E+00	9.69E-03	1.92E+00	1.99E-01	8.97E-02	4.98E-01	7.91E-01	1.11E+00	1.49E+00
1.25E+00	9.53E-03	1.87E+00	1.95E-01	8.81E-02	4.89E-01	7.75E-01	1.08E+00	1.45E+00
1.33E+00	9.36E-03	1.82E+00	1.91E-01	8.65E-02	4.79E-01	7.58E-01	1.06E+00	1.41E+00
1.40E+00	9.18E-03	1.76E+00	1.87E-01	8.48E-02	4.69E-01	7.40E-01	1.03E+00	1.36E+00
1.49E+00	9.00E-03	1.71E+00	1.82E-01	8.30E-02	4.59E-01	7.22E-01	1.00E+00	1.32E+00
1.57E+00	8.80E-03	1.65E+00	1.78E-01	8.12E-02	4.48E-01	7.04E-01	9.73E-01	1.27E+00
1.66E+00	8.61E-03	1.59E+00	1.73E-01	7.93E-02	4.37E-01	6.84E-01	9.43E-01	1.23E+00
1.76E+00	8.40E-03	1.53E+00	1.68E-01	7.74E-02	4.25E-01	6.64E-01	9.13E-01	1.18E+00
1.86E+00	8.19E-03	1.47E+00	1.63E-01	7.54E-02	4.14E-01	6.44E-01	8.82E-01	1.13E+00
1.97E+00	7.97E-03	1.41E+00	1.58E-01	7.33E-02	4.01E-01	6.23E-01	8.50E-01	1.08E+00
2.09E+00	7.74E-03	1.34E+00	1.53E-01	7.12E-02	3.89E-01	6.02E-01	8.17E-01	1.03E+00
2.21E+00	7.51E-03	1.28E+00	1.48E-01	6.91E-02	3.76E-01	5.80E-01	7.85E-01	9.84E-01
2.34E+00	7.27E-03	1.22E+00	1.42E-01	6.69E-02	3.63E-01	5.58E-01	7.51E-01	9.30E-01
2.47E+00	7.03E-03	1.15E+00	1.37E-01	6.46E-02	3.50E-01	5.35E-01	7.17E-01	8.80E-01
2.62E+00	6.78E-03	1.09E+00	1.31E-01	6.23E-02	3.36E-01	5.13E-01	6.83E-01	8.34E-01
2.77E+00	6.53E-03	1.03E+00	1.26E-01	6.00E-02	3.23E-01	4.89E-01	6.49E-01	7.84E-01
2.93E+00	6.27E-03	9.63E-01	1.20E-01	5.76E-02	3.09E-01	4.66E-01	6.14E-01	7.34E-01
3.00E+00	6.16E-03	9.37E-01	1.18E-01	5.66E-02	3.03E-01	4.57E-01	6.01E-01	7.14E-01
3.10E+00	6.00E-03	9.00E-01	1.14E-01	5.51E-02	2.95E-01	4.43E-01	5.82E-01	6.85E-01
3.28E+00	5.74E-03	8.44E-01	1.08E-01	5.27E-02	2.80E-01	4.19E-01	5.49E-01	6.36E-01
3.48E+00	5.47E-03	7.90E-01	1.03E-01	5.02E-02	2.66E-01	3.94E-01	5.17E-01	5.89E-01
3.68E+00	5.20E-03	7.37E-01	9.70E-02	4.77E-02	2.52E-01	3.69E-01	4.84E-01	5.42E-01
3.89E+00	4.93E-03	6.84E-01	9.14E-02	4.52E-02	2.41E-01	3.45E-01	4.51E-01	4.99E-01
4.12E+00	4.66E-03	6.33E-01	8.58E-02	4.29E-02	2.26E-01	3.23E-01	4.13E-01	4.61E-01
4.36E+00	4.39E-03	5.83E-01	8.03E-02	4.04E-02	2.11E-01	3.02E-01	3.76E-01	4.26E-01
4.61E+00	4.11E-03	5.34E-01	7.48E-02	3.81E-02	1.97E-01	2.81E-01	3.58E-01	3.93E-01
4.88E+00	3.85E-03	4.87E-01	6.95E-02	3.56E-02	1.82E-01	2.60E-01	3.26E-01	3.68E-01
5.17E+00	3.58E-03	4.42E-01	6.43E-02	3.31E-02	1.69E-01	2.40E-01	2.93E-01	3.41E-01
5.47E+00	3.32E-03	3.98E-01	5.93E-02	3.08E-02	1.55E-01	2.20E-01	2.61E-01	3.15E-01
5.78E+00	3.07E-03	3.57E-01	5.44E-02	2.84E-02	1.43E-01	1.99E-01	2.31E-01	2.90E-01
6.12E+00	2.82E-03	3.18E-01	4.96E-02	2.62E-02	1.30E-01	1.83E-01	2.10E-01	2.65E-01
6.48E+00	2.58E-03	2.81E-01	4.49E-02	2.39E-02	1.18E-01	1.61E-01	1.88E-01	2.37E-01
6.86E+00	2.35E-03	2.47E-01	4.05E-02	2.17E-02	1.06E-01	1.45E-01	1.67E-01	2.04E-01
7.26E+00	2.12E-03	2.15E-01	3.64E-02	1.96E-02	9.68E-02	1.27E-01	1.46E-01	1.75E-01
7.68E+00	1.91E-03	1.86E-01	3.24E-02	1.76E-02	8.61E-02	1.11E-01	1.32E-01	1.58E-01
8.13E+00	1.71E-03	1.59E-01	2.87E-02	1.57E-02	7.52E-02	9.73E-02	1.16E-01	1.41E-01
8.60E+00	1.52E-03	1.39E-01	2.52E-02	1.39E-02	6.60E-02	8.29E-02	9.90E-02	1.26E-01
9.10E+00	1.34E-03	1.22E-01	2.20E-02	1.23E-02	5.73E-02	7.16E-02	8.37E-02	1.11E-01
9.63E+00	1.17E-03	1.06E-01	1.90E-02	1.08E-02	4.83E-02	6.20E-02	7.00E-02	9.66E-02
1.00E+01	1.07E-03	9.66E-02	1.72E-02	9.79E-03	4.25E-02	5.48E-02	6.30E-02	8.80E-02
1.02E+01	1.02E-03	9.19E-02	1.64E-02	9.33E-03	4.02E-02	5.20E-02	5.93E-02	8.39E-02
1.08E+01	8.78E-04	7.94E-02	1.39E-02	8.02E-03	3.43E-02	4.33E-02	4.96E-02	7.23E-02
1.14E+01	7.50E-04	6.72E-02	1.18E-02	6.84E-03	2.85E-02	3.66E-02	4.14E-02	6.18E-02
1.21E+01	6.35E-04	5.65E-02	9.83E-03	5.78E-03	2.35E-02	2.99E-02	3.42E-02	5.23E-02
1.28E+01	5.32E-04	4.71E-02	8.12E-03	4.86E-03	1.91E-02	2.42E-02	2.78E-02	4.38E-02
1.35E+01	4.42E-04	3.88E-02	6.65E-03	4.03E-03	1.52E-02	1.94E-02	2.28E-02	3.64E-02
1.43E+01	3.63E-04	3.17E-02	5.38E-03	3.30E-03	1.21E-02	1.54E-02	1.83E-02	3.01E-02
1.51E+01	2.94E-04	2.55E-02	4.30E-03	2.66E-03	9.63E-03	1.18E-02	1.42E-02	2.44E-02
1.60E+01	2.36E-04	2.03E-02	3.40E-03	2.13E-03	7.60E-03	9.37E-03	1.10E-02	1.95E-02
1.70E+01	1.87E-04	1.60E-02	2.66E-03	1.68E-03	5.84E-03	7.34E-03	8.74E-03	1.54E-02
1.80E+01	1.46E-04	1.24E-02	2.05E-03	1.31E-03	4.38E-03	5.43E-03	6.64E-03	1.20E-02
1.90E+01	1.12E-04	9.43E-03	1.55E-03	1.00E-03	3.29E-03	3.96E-03	4.98E-03	9.21E-03

2.01E+01 8.51E-05 7.09E-03 1.15E-03 7.54E-04 2.43E-03 2.88E-03 3.68E-03 6.98E-03

2.13E+01 6.35E-05 5.24E-03 8.44E-04 5.59E-04 1.74E-03 2.09E-03 2.81E-03 5.21E-03

2.25E+01 4.66E-05 3.84E-03 6.10E-04 4.08E-04 1.23E-03 1.49E-03 1.97E-03 3.82E-03

2.38E+01 3.35E-05 2.76E-03 4.32E-04 2.93E-04 8.59E-04 1.05E-03 1.34E-03 2.75E-03

2.52E+01 2.37E-05 1.95E-03 3.00E-04 2.05E-04 5.86E-04 7.13E-04 1.24E-03 1.94E-03

2.67E+01 1.28E-05 1.35E-03 2.04E-04 1.40E-04 3.90E-04 4.78E-04 8.83E-04 1.34E-03

2.82E+01 6.27E-06 9.12E-04 1.36E-04 9.38E-05 2.55E-04 3.13E-04 6.71E-04 9.08E-04

2.99E+01 2.95E-06 6.04E-04 8.80E-05 6.20E-05 1.62E-04 2.01E-04 4.29E-04 6.01E-04

3.00E+01	2.79E-06	5.87E-04	8.53E-05	6.02E-05	1.57E-04	1.95E-04	4.16E-04	5.84E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.16E+01	1.32E-06	3.91E-04	5.57E-05	3.96E-05	1.01E-04	1.24E-04	2.68E-04	3.88E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.35E+01 5.67E-07 2.46E-04 3.44E-05 2.45E-05 6.20E-05 7.52E-05 1.62E-04 2.45E-04

3.54E+01 2.31E-07 1.51E-04 2.07E-05 1.49E-05 3.67E-05 4.47E-05 9.55E-05 1.50E-04

3.75E+01	8.96E-08	9.03E-05	1.21E-05	8.75E-06	2.09E-05	2.56E-05	6.38E-05	8.95E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.97E+01 3.29E-08 5.23E-05 6.88E-06 5.00E-06 1.15E-05 1.44E-05 3.56E-05 5.18E-05

4.20E+01 1.14E-08 2.93E-05 3.77E-06 2.79E-06 6.29E-06 7.75E-06 1.92E-05 2.90E-05

4.44E+01 3.69E-09 1.59E-05 2.00E-06 1.49E-06 3.29E-06 4.03E-06 1.00E-05 1.57E-05

4.70E+01 1.12E-09 8.32E-06 1.03E-06 7.67E-07 1.63E-06 2.02E-06 5.57E-06 8.20E-06

4.97E+01 3.19E-10 4.19E-06 5.06E-07 3.84E-07 7.92E-07 9.69E-07 2.70E-06 4.13E-06

5.26E+01	8.42E-11	2.03E-06	2.39E-07	1.84E-07	3.70E-07	4.52E-07	1.26E-06	1.99E-06
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.57E+01 2.06E-11 9.43E-07 1.08E-07 8.32E-08 1.68E-07 2.02E-07 5.61E-07 9.24E-07

5.90E+01 4.62E-12 4.18E-07 4.70E-08 3.60E-08 7.21E-08 8.56E-08 2.38E-07 4.09E-07

6.24E+01 9.54E-13 1.77E-07 1.95E-08 1.50E-08 2.87E-08 3.44E-08 1.09E-07 1.73E-07

6.60E+01 1.79E-13 7.13E-08 7.75E-09 5.92E-09 1.10E-08 1.31E-08 4.58E-08 6.94E-08

6.99E+01 3.06E-14 2.72E-08 2.91E-09 2.22E-09 4.04E-09 4.76E-09 1.97E-08 2.64E-08

7.39E+01 4.71E-15 9.84E-09 1.03E-09 7.90E-10 1.39E-09 1.66E-09 6.91E-09 9.51E-09

7.82E+01 6.50E-16 3.35E-09 3.42E-10 2.59E-10 4.50E-10 5.39E-10 2.56E-09 3.23E-09

8.28E+01 8.00E-17 1.07E-09 1.06E-10 7.99E-11 1.39E-10 1.67E-10 8.00E-10 1.03E-09

8.76E+01	8.71E-18	3.20E-10	3.11E-11	2.34E-11	3.97E-11	4.81E-11	2.34E-10	3.06E-10
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.27E+01	8.33E-19	8.92E-11	8.48E-12	6.34E-12	1.05E-11	1.31E-11	6.37E-11	8.50E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.81E+01 6.96E-20 2.31E-11 2.14E-12 1.61E-12 2.64E-12 3.20E-12 1.61E-11 2.19E-11

1.00E+02 2.94E-20 1.45E-11 1.33E-12 9.99E-13 1.63E-12 1.98E-12 9.97E-12 1.37E-11

1.04E+02 5.02E-21 5.52E-12 5.00E-13 3.79E-13 5.99E-13 7.35E-13 3.74E-12 5.22E-12

1.10E+02 3.11E-22 1.21E-12 1.08E-13 8.12E-14 1.28E-13 1.54E-13 8.54E-13 1.14E-12

1.16E+02 1.64E-23 2.45E-13 2.13E-14 1.59E-14 2.50E-14 3.05E-14 1.73E-13 2.29E-13

1.23E+02 7.28E-25 4.49E-14 3.81E-15 2.88E-15 4.43E-15 5.40E-15 3.09E-14 4.19E-14

1.30E+02 2.69E-26 7.46E-15 6.21E-16 4.75E-16 7.22E-16 8.85E-16 5.01E-15 6.92E-15

1.38E+02 8.19E-28 1.12E-15 9.18E-17 6.95E-17 1.05E-16 1.30E-16 8.25E-16 1.05E-15

1.46E+02 1.88E-29 1.50E-16 1.20E-17 9.14E-18 1.36E-17 1.80E-17 1.08E-16 1.40E-16

1.54E+02 0.00E+00 1.79E-17 1.41E-18 1.07E-18 1.60E-18 2.39E-18 1.26E-17 1.66E-17

1.63E+02 0.00E+00 1.88E-18 1.47E-19 1.10E-19 1.71E-19 2.81E-19 1.30E-18 1.74E-18

1.73E+02 0.00E+00 1.74E-19 1.37E-20 1.00E-20 1.64E-20 3.38E-20 1.17E-19 1.60E-19

1.83E+02 0.00E+00 1.40E-20 1.15E-21 7.93E-22 1.51E-21 3.89E-21 9.65E-21 1.28E-20

1.94E+02 0.00E+00 9.71E-22 8.53E-23 5.43E-23 1.24E-22 3.79E-22 6.96E-22 8.85E-22

2.05E+02 0.00E+00 5.77E-23 5.40E-24 3.17E-24 1.02E-23 2.73E-23 4.28E-23 5.23E-23

2.17E+02	0.00E+00	2.91E-24	2.95E-25	1.56E-25	6.68E-25	1.56E-24	2.38E-24	2.73E-24
----------	----------	----------	----------	----------	----------	----------	----------	----------

2.29E+02 0.00E+00 1.23E-25 1.33E-26 6.37E-27 3.94E-26 7.14E-26 1.05E-25 1.17E-25

2.43E+02 0.00E+00 4.35E-27 5.02E-28 2.13E-28 1.76E-27 2.86E-27 3.84E-27 4.12E-27

2.57E+02 0.00E+00 1.25E-28 1.39E-29 4.01E-30 5.20E-29 9.35E-29 1.11E-28 1.21E-28

2.72E+02 0.00E+00 2.14E-30 1.48E-31 0.00E+00 0.00E+00 1.59E-30 1.94E-30 2.08E-30

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SB-125.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	1.05E-02	3.64E+00	2.73E-01	1.06E-01	6.86E-01	1.13E+00	1.66E+00	2.26E+00
1.00E+00	1.03E-02	2.44E+00	2.12E-01	8.93E-02	5.28E-01	8.42E-01	1.21E+00	1.62E+00
1.06E+00	1.02E-02	2.39E+00	2.09E-01	8.81E-02	5.19E-01	8.27E-01	1.19E+00	1.59E+00
1.12E+00	1.00E-02	2.33E+00	2.05E-01	8.67E-02	5.10E-01	8.12E-01	1.16E+00	1.55E+00
1.19E+00	9.85E-03	2.27E+00	2.01E-01	8.53E-02	5.01E-01	7.96E-01	1.14E+00	1.52E+00
1.25E+00	9.69E-03	2.20E+00	1.97E-01	8.39E-02	4.91E-01	7.80E-01	1.11E+00	1.49E+00
1.33E+00	9.52E-03	2.14E+00	1.93E-01	8.23E-02	4.81E-01	7.63E-01	1.09E+00	1.45E+00
1.40E+00	9.34E-03	2.07E+00	1.89E-01	8.07E-02	4.70E-01	7.46E-01	1.06E+00	1.41E+00
1.49E+00	9.15E-03	2.01E+00	1.84E-01	7.91E-02	4.59E-01	7.28E-01	1.03E+00	1.37E+00
1.57E+00	8.95E-03	1.94E+00	1.80E-01	7.74E-02	4.48E-01	7.10E-01	1.00E+00	1.33E+00
1.66E+00	8.75E-03	1.87E+00	1.75E-01	7.56E-02	4.37E-01	6.91E-01	9.73E-01	1.29E+00
1.76E+00	8.54E-03	1.79E+00	1.70E-01	7.38E-02	4.25E-01	6.71E-01	9.43E-01	1.25E+00
1.86E+00	8.33E-03	1.72E+00	1.65E-01	7.19E-02	4.13E-01	6.51E-01	9.12E-01	1.21E+00
1.97E+00	8.10E-03	1.65E+00	1.60E-01	6.99E-02	4.01E-01	6.30E-01	8.80E-01	1.17E+00
2.09E+00	7.87E-03	1.57E+00	1.55E-01	6.79E-02	3.88E-01	6.08E-01	8.48E-01	1.12E+00
2.21E+00	7.64E-03	1.50E+00	1.50E-01	6.59E-02	3.75E-01	5.85E-01	8.15E-01	1.08E+00
2.34E+00	7.40E-03	1.42E+00	1.44E-01	6.38E-02	3.62E-01	5.62E-01	7.80E-01	1.02E+00
2.47E+00	7.15E-03	1.34E+00	1.39E-01	6.16E-02	3.49E-01	5.40E-01	7.43E-01	9.80E-01
2.62E+00	6.89E-03	1.27E+00	1.33E-01	5.94E-02	3.35E-01	5.17E-01	7.07E-01	9.35E-01
2.77E+00	6.64E-03	1.19E+00	1.27E-01	5.72E-02	3.21E-01	4.93E-01	6.73E-01	8.85E-01
2.93E+00	6.37E-03	1.12E+00	1.22E-01	5.49E-02	3.07E-01	4.70E-01	6.40E-01	8.32E-01
3.00E+00	6.27E-03	1.09E+00	1.19E-01	5.39E-02	3.01E-01	4.60E-01	6.27E-01	8.15E-01
3.10E+00	6.11E-03	1.04E+00	1.16E-01	5.25E-02	2.93E-01	4.46E-01	6.07E-01	7.89E-01
3.28E+00	5.84E-03	9.69E-01	1.10E-01	5.02E-02	2.78E-01	4.22E-01	5.73E-01	7.45E-01
3.48E+00	5.56E-03	8.97E-01	1.04E-01	4.81E-02	2.64E-01	3.99E-01	5.38E-01	7.02E-01
3.68E+00	5.29E-03	8.26E-01	9.83E-02	4.57E-02	2.50E-01	3.75E-01	5.05E-01	6.56E-01
3.89E+00	5.01E-03	7.58E-01	9.26E-02	4.32E-02	2.36E-01	3.51E-01	4.73E-01	6.10E-01
4.12E+00	4.74E-03	6.91E-01	8.69E-02	4.08E-02	2.21E-01	3.28E-01	4.41E-01	5.65E-01
4.36E+00	4.46E-03	6.27E-01	8.13E-02	3.84E-02	2.11E-01	3.05E-01	4.06E-01	5.21E-01
4.61E+00	4.19E-03	5.66E-01	7.58E-02	3.60E-02	1.97E-01	2.83E-01	3.69E-01	4.78E-01
4.88E+00	3.91E-03	5.13E-01	7.05E-02	3.36E-02	1.83E-01	2.67E-01	3.36E-01	4.37E-01
5.17E+00	3.64E-03	4.68E-01	6.53E-02	3.13E-02	1.69E-01	2.46E-01	3.06E-01	3.97E-01
5.47E+00	3.38E-03	4.25E-01	6.02E-02	2.92E-02	1.57E-01	2.25E-01	2.76E-01	3.59E-01
5.78E+00	3.12E-03	3.83E-01	5.53E-02	2.69E-02	1.43E-01	2.10E-01	2.48E-01	3.22E-01
6.12E+00	2.87E-03	3.44E-01	5.04E-02	2.47E-02	1.29E-01	1.85E-01	2.32E-01	2.87E-01
6.48E+00	2.62E-03	3.06E-01	4.57E-02	2.26E-02	1.17E-01	1.67E-01	2.04E-01	2.55E-01
6.86E+00	2.39E-03	2.71E-01	4.12E-02	2.06E-02	1.05E-01	1.49E-01	1.81E-01	2.25E-01
7.26E+00	2.16E-03	2.38E-01	3.70E-02	1.86E-02	9.56E-02	1.33E-01	1.60E-01	1.95E-01
7.68E+00	1.94E-03	2.08E-01	3.30E-02	1.67E-02	8.41E-02	1.17E-01	1.46E-01	1.72E-01
8.13E+00	1.74E-03	1.80E-01	2.92E-02	1.49E-02	7.43E-02	1.03E-01	1.27E-01	1.54E-01
8.60E+00	1.54E-03	1.54E-01	2.56E-02	1.32E-02	6.50E-02	8.86E-02	1.10E-01	1.34E-01
9.10E+00	1.36E-03	1.31E-01	2.24E-02	1.17E-02	5.65E-02	7.58E-02	9.41E-02	1.14E-01
9.63E+00	1.19E-03	1.11E-01	1.94E-02	1.02E-02	4.85E-02	6.59E-02	8.05E-02	9.90E-02
1.00E+01	1.09E-03	9.82E-02	1.75E-02	9.33E-03	4.36E-02	5.95E-02	7.46E-02	9.03E-02
1.02E+01	1.04E-03	9.24E-02	1.67E-02	8.97E-03	4.13E-02	5.65E-02	7.03E-02	8.57E-02
1.08E+01	8.93E-04	8.51E-02	1.42E-02	7.83E-03	3.49E-02	4.69E-02	5.83E-02	7.36E-02
1.14E+01	7.63E-04	7.21E-02	1.19E-02	6.73E-03	2.91E-02	3.90E-02	4.78E-02	6.23E-02
1.21E+01	6.46E-04	6.04E-02	9.99E-03	5.70E-03	2.42E-02	3.17E-02	4.11E-02	5.25E-02
1.28E+01	5.42E-04	5.01E-02	8.28E-03	4.77E-03	1.95E-02	2.54E-02	3.30E-02	4.40E-02
1.35E+01	4.50E-04	4.12E-02	6.79E-03	3.94E-03	1.55E-02	2.09E-02	2.69E-02	3.64E-02
1.43E+01	3.69E-04	3.34E-02	5.52E-03	3.23E-03	1.26E-02	1.66E-02	2.27E-02	3.02E-02
1.51E+01	3.00E-04	2.68E-02	4.41E-03	2.61E-03	1.01E-02	1.30E-02	1.79E-02	2.45E-02
1.60E+01	2.40E-04	2.12E-02	3.48E-03	2.08E-03	7.76E-03	9.93E-03	1.37E-02	1.96E-02
1.70E+01	1.90E-04	1.66E-02	2.71E-03	1.66E-03	6.13E-03	7.47E-03	1.03E-02	1.55E-02
1.80E+01	1.48E-04	1.27E-02	2.08E-03	1.29E-03	4.55E-03	5.66E-03	7.70E-03	1.20E-02
1.90E+01	1.14E-04	9.71E-03	1.58E-03	9.91E-04	3.43E-03	4.20E-03	5.63E-03	9.26E-03

2.01E+01 8.66E-05 7.33E-03 1.18E-03 7.49E-04 2.55E-03 3.10E-03 4.19E-03 7.01E-03

2.13E+01 6.46E-05 5.44E-03 8.63E-04 5.55E-04 1.79E-03 2.23E-03 3.10E-03 5.23E-03

2.25E+01 4.74E-05 3.97E-03 6.21E-04 4.04E-04 1.26E-03 1.59E-03 2.29E-03 3.82E-03

2.38E+01 3.41E-05 2.85E-03 4.38E-04 2.90E-04 8.82E-04 1.11E-03 1.76E-03 2.75E-03

2.52E+01 2.41E-05 2.00E-03 3.04E-04 2.04E-04 5.90E-04 7.46E-04 1.34E-03 1.94E-03

2.67E+01 1.51E-05 1.38E-03 2.06E-04 1.39E-04 3.91E-04 5.00E-04 9.09E-04 1.34E-03

2.82E+01 7.42E-06 9.28E-04 1.37E-04 9.36E-05 2.55E-04 3.28E-04 6.48E-04 9.06E-04

2.99E+01 3.50E-06 6.11E-04 8.86E-05 6.09E-05 1.61E-04 2.08E-04 4.13E-04 5.93E-04

3.00E+01 3.32E-06 5.93E-04 8.59E-05 5.91E-05 1.56E-04 2.01E-04 4.00E-04 5.76E-04

3.16E+01	1.58E-06	3.93E-04	5.60E-05	3.91E-05	1.00E-04	1.27E-04	2.57E-04	3.83E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.35E+01 6.81E-07 2.46E-04 3.45E-05 2.46E-05 6.01E-05 7.63E-05 1.55E-04 2.41E-04

3.54E+01 2.80E-07 1.51E-04 2.07E-05 1.50E-05 3.59E-05 4.58E-05 9.12E-05 1.47E-04

3.75E+01 1.09E-07 9.03E-05 1.20E-05 8.89E-06 2.06E-05 2.65E-05 5.20E-05 8.77E-05

3.97E+01 4.02E-08 5.23E-05 6.84E-06 4.95E-06 1.17E-05 1.43E-05 3.32E-05 5.06E-05

4.20E+01 1.40E-08 2.93E-05 3.77E-06 2.74E-06 6.22E-06 7.68E-06 2.12E-05 2.83E-05

4.44E+01 4.59E-09 1.59E-05 2.00E-06 1.47E-06 3.30E-06 3.98E-06 1.14E-05 1.53E-05

4.70E+01 1.41E-09 8.32E-06 1.02E-06 7.49E-07 1.67E-06 2.00E-06 5.72E-06 7.98E-06

4.97E+01 4.03E-10 4.19E-06 5.02E-07 3.72E-07 8.13E-07 9.68E-07 2.75E-06 4.01E-06

5.26E+01 1.07E-10 2.03E-06 2.38E-07 1.77E-07 3.75E-07 4.48E-07 1.27E-06 1.93E-06

5.57E+01 2.64E-11 9.43E-07 1.09E-07 7.98E-08 1.69E-07 1.99E-07 6.91E-07 8.92E-07

5.90E+01 6.00E-12 4.18E-07 4.72E-08 3.44E-08 7.22E-08 8.53E-08 2.98E-07 3.88E-07

6.24E+01 1.25E-12 1.77E-07 1.94E-08 1.44E-08 2.86E-08 3.45E-08 1.23E-07 1.63E-07

6.60E+01 2.38E-13 7.13E-08 7.56E-09 5.66E-09 1.10E-08 1.32E-08 4.15E-08 6.51E-08

6.99E+01 0.00E+00 2.72E-08 2.80E-09 2.12E-09 4.06E-09 4.77E-09 1.51E-08 2.46E-08

7.39E+01	0.00E+00	9.84E-09	9.93E-10	7.44E-10	1.39E-09	1.65E-09	6.16E-09	8.82E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

7.82E+01	0.00E+00	3.35E-09	3.32E-10	2.48E-10	4.51E-10	5.36E-10	2.27E-09	3.04E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

8.28E+01 0.00E+00 1.07E-09 1.04E-10 7.76E-11 1.39E-10 1.64E-10 7.08E-10 9.62E-10

8.76E+01	0.00E+00	3.20E-10	3.03E-11	2.30E-11	3.98E-11	4.74E-11	2.05E-10	2.85E-10
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.27E+01	0.00E+00	8.92E-11	8.25E-12	6.33E-12	1.06E-11	1.25E-11	6.25E-11	7.87E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.81E+01	0.00E+00	2.31E-11	2.08E-12	1.61E-12	2.66E-12	3.07E-12	1.57E-11	2.02E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.00E+02 0.00E+00 1.45E-11 1.29E-12 1.00E-12 1.64E-12 1.90E-12 9.75E-12 1.26E-11

1.04E+02 0.00E+00 5.52E-12 4.84E-13 3.79E-13 6.06E-13 7.08E-13 3.65E-12 4.77E-12

1.10E+02 0.00E+00 1.21E-12 1.04E-13 8.20E-14 1.29E-13 1.49E-13 7.79E-13 1.04E-12

1.16E+02	0.00E+00	2.45E-13	2.04E-14	1.62E-14	2.53E-14	2.85E-14	1.52E-13	2.07E-13
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.23E+02	0.00E+00	4.49E-14	3.69E-15	2.91E-15	4.42E-15	5.01E-15	3.07E-14	3.99E-14
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.30E+02 0.00E+00 7.46E-15 5.98E-16 4.74E-16 7.21E-16 8.09E-16 4.95E-15 6.58E-15

1.38E+02 0.00E+00 1.12E-15 8.77E-17 6.94E-17 1.04E-16 1.20E-16 7.20E-16 9.76E-16

1.46E+02 0.00E+00 1.50E-16 1.16E-17 9.16E-18 1.37E-17 1.69E-17 1.02E-16 1.30E-16

1.54E+02 0.00E+00 1.79E-17 1.38E-18 1.08E-18 1.62E-18 2.30E-18 1.18E-17 1.58E-17

1.63E+02 0.00E+00 1.88E-18 1.45E-19 1.11E-19 1.73E-19 2.97E-19 1.24E-18 1.65E-18

1.73E+02 0.00E+00 1.74E-19 1.36E-20 1.00E-20 1.70E-20 3.83E-20 1.16E-19 1.51E-19

1.83E+02 0.00E+00 1.40E-20 1.15E-21 8.04E-22 1.54E-21 4.83E-21 9.28E-21 1.20E-20

1.94E+02 0.00E+00 9.72E-22 8.62E-23 5.46E-23 1.22E-22 4.42E-22 7.06E-22 9.17E-22

2.05E+02 0.00E+00 5.78E-23 5.47E-24 3.17E-24 1.03E-23 3.20E-23 4.38E-23 5.43E-23

2.17E+02	0.00E+00	2.92E-24	2.93E-25	1.57E-25	7.76E-25	1.76E-24	2.22E-24	2.73E-24
----------	----------	----------	----------	----------	----------	----------	----------	----------

2.29E+02 0.00E+00 1.24E-25 1.33E-26 6.38E-27 3.50E-26 8.18E-26 1.02E-25 1.15E-25

2.43E+02 0.00E+00 4.36E-27 4.88E-28 2.09E-28 1.47E-27 3.04E-27 3.76E-27 4.11E-27

2.57E+02 0.00E+00 1.25E-28 1.30E-29 3.96E-30 4.17E-29 8.90E-29 1.07E-28 1.16E-28

2.72E+02 0.00E+00 2.14E-30 1.36E-31 0.00E+00 0.00E+00 1.47E-30 1.84E-30 2.00E-30

[illegible]

[illegible]

[illegible]

```
3.41E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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	1.03E-02	3.37E+00	2.73E-01	1.12E-01	6.80E-01	1.12E+00	1.63E+00	2.52E+00
1.00E+00	1.05E-02	2.23E+00	2.12E-01	9.48E-02	5.30E-01	8.46E-01	1.19E+00	1.76E+00
1.06E+00	1.03E-02	2.18E+00	2.08E-01	9.35E-02	5.22E-01	8.32E-01	1.17E+00	1.72E+00
1.12E+00	1.02E-02	2.13E+00	2.05E-01	9.23E-02	5.13E-01	8.17E-01	1.15E+00	1.68E+00
1.19E+00	1.00E-02	2.07E+00	2.01E-01	9.11E-02	5.04E-01	8.02E-01	1.12E+00	1.64E+00
1.25E+00	9.85E-03	2.01E+00	1.97E-01	8.96E-02	4.94E-01	7.86E-01	1.10E+00	1.59E+00
1.33E+00	9.67E-03	1.95E+00	1.93E-01	8.81E-02	4.84E-01	7.68E-01	1.07E+00	1.54E+00
1.40E+00	9.49E-03	1.89E+00	1.88E-01	8.65E-02	4.73E-01	7.51E-01	1.05E+00	1.50E+00
1.49E+00	9.30E-03	1.82E+00	1.84E-01	8.48E-02	4.63E-01	7.34E-01	1.02E+00	1.46E+00
1.57E+00	9.10E-03	1.76E+00	1.79E-01	8.29E-02	4.51E-01	7.16E-01	9.95E-01	1.41E+00
1.66E+00	8.89E-03	1.69E+00	1.75E-01	8.11E-02	4.39E-01	6.97E-01	9.67E-01	1.36E+00
1.76E+00	8.68E-03	1.63E+00	1.70E-01	7.91E-02	4.26E-01	6.77E-01	9.38E-01	1.32E+00
1.86E+00	8.46E-03	1.56E+00	1.65E-01	7.71E-02	4.14E-01	6.57E-01	9.09E-01	1.27E+00
1.97E+00	8.24E-03	1.49E+00	1.60E-01	7.50E-02	4.00E-01	6.37E-01	8.78E-01	1.22E+00
2.09E+00	8.00E-03	1.42E+00	1.55E-01	7.28E-02	3.87E-01	6.16E-01	8.47E-01	1.17E+00
2.21E+00	7.76E-03	1.35E+00	1.49E-01	7.06E-02	3.73E-01	5.94E-01	8.16E-01	1.12E+00
2.34E+00	7.52E-03	1.28E+00	1.44E-01	6.84E-02	3.59E-01	5.72E-01	7.84E-01	1.07E+00
2.47E+00	7.26E-03	1.21E+00	1.38E-01	6.60E-02	3.45E-01	5.50E-01	7.51E-01	1.02E+00
2.62E+00	7.01E-03	1.14E+00	1.33E-01	6.37E-02	3.30E-01	5.27E-01	7.18E-01	9.63E-01
2.77E+00	6.74E-03	1.08E+00	1.27E-01	6.12E-02	3.15E-01	5.04E-01	6.84E-01	9.11E-01
2.93E+00	6.48E-03	1.02E+00	1.21E-01	5.88E-02	3.00E-01	4.80E-01	6.50E-01	8.59E-01
3.00E+00	6.37E-03	9.94E-01	1.19E-01	5.78E-02	2.94E-01	4.70E-01	6.37E-01	8.38E-01
3.10E+00	6.21E-03	9.59E-01	1.15E-01	5.63E-02	2.86E-01	4.55E-01	6.16E-01	8.07E-01
3.28E+00	5.93E-03	9.00E-01	1.10E-01	5.40E-02	2.70E-01	4.31E-01	5.81E-01	7.55E-01
3.48E+00	5.65E-03	8.41E-01	1.04E-01	5.15E-02	2.55E-01	4.06E-01	5.44E-01	7.04E-01
3.68E+00	5.38E-03	7.84E-01	9.79E-02	4.89E-02	2.40E-01	3.81E-01	5.08E-01	6.54E-01
3.89E+00	5.09E-03	7.27E-01	9.22E-02	4.63E-02	2.26E-01	3.57E-01	4.68E-01	6.05E-01
4.12E+00	4.81E-03	6.71E-01	8.66E-02	4.37E-02	2.11E-01	3.32E-01	4.31E-01	5.59E-01
4.36E+00	4.53E-03	6.17E-01	8.10E-02	4.11E-02	2.05E-01	3.08E-01	4.00E-01	5.12E-01
4.61E+00	4.25E-03	5.64E-01	7.55E-02	3.85E-02	1.91E-01	2.86E-01	3.70E-01	4.66E-01
4.88E+00	3.98E-03	5.13E-01	7.01E-02	3.60E-02	1.77E-01	2.63E-01	3.40E-01	4.22E-01
5.17E+00	3.70E-03	4.64E-01	6.48E-02	3.35E-02	1.63E-01	2.41E-01	3.11E-01	3.83E-01
5.47E+00	3.44E-03	4.18E-01	5.97E-02	3.10E-02	1.51E-01	2.20E-01	2.82E-01	3.48E-01
5.78E+00	3.17E-03	3.74E-01	5.47E-02	2.86E-02	1.37E-01	1.99E-01	2.55E-01	3.15E-01
6.12E+00	2.92E-03	3.32E-01	4.99E-02	2.62E-02	1.25E-01	1.79E-01	2.35E-01	2.83E-01
6.48E+00	2.67E-03	2.93E-01	4.51E-02	2.41E-02	1.13E-01	1.59E-01	2.13E-01	2.53E-01
6.86E+00	2.43E-03	2.56E-01	4.06E-02	2.19E-02	1.01E-01	1.41E-01	1.92E-01	2.22E-01
7.26E+00	2.20E-03	2.23E-01	3.64E-02	1.98E-02	9.27E-02	1.26E-01	1.66E-01	1.92E-01
7.68E+00	1.98E-03	1.92E-01	3.25E-02	1.78E-02	8.14E-02	1.15E-01	1.42E-01	1.66E-01
8.13E+00	1.77E-03	1.64E-01	2.88E-02	1.59E-02	7.22E-02	1.01E-01	1.27E-01	1.43E-01
8.60E+00	1.57E-03	1.39E-01	2.53E-02	1.41E-02	6.36E-02	8.73E-02	1.08E-01	1.27E-01
9.10E+00	1.38E-03	1.16E-01	2.21E-02	1.25E-02	5.53E-02	7.51E-02	9.00E-02	1.11E-01
9.63E+00	1.21E-03	9.86E-02	1.91E-02	1.10E-02	4.84E-02	6.41E-02	7.46E-02	9.66E-02
1.00E+01	1.10E-03	8.97E-02	1.73E-02	9.98E-03	4.38E-02	5.73E-02	6.81E-02	8.48E-02
1.02E+01	1.05E-03	8.54E-02	1.64E-02	9.51E-03	4.16E-02	5.41E-02	6.36E-02	8.33E-02
1.08E+01	9.08E-04	7.63E-02	1.40E-02	8.18E-03	3.45E-02	4.52E-02	5.23E-02	7.24E-02
1.14E+01	7.76E-04	6.51E-02	1.18E-02	6.98E-03	2.90E-02	3.75E-02	4.32E-02	6.18E-02
1.21E+01	6.57E-04	5.50E-02	9.86E-03	5.90E-03	2.43E-02	3.01E-02	3.59E-02	5.24E-02
1.28E+01	5.51E-04	4.72E-02	8.17E-03	4.93E-03	1.99E-02	2.42E-02	3.10E-02	4.39E-02
1.35E+01	4.57E-04	3.90E-02	6.67E-03	4.09E-03	1.61E-02	1.91E-02	2.48E-02	3.63E-02
1.43E+01	3.75E-04	3.18E-02	5.38E-03	3.35E-03	1.29E-02	1.49E-02	1.91E-02	2.97E-02
1.51E+01	3.05E-04	2.57E-02	4.29E-03	2.71E-03	9.92E-03	1.16E-02	1.50E-02	2.41E-02
1.60E+01	2.44E-04	2.05E-02	3.39E-03	2.16E-03	7.61E-03	8.90E-03	1.17E-02	1.93E-02
1.70E+01	1.93E-04	1.61E-02	2.64E-03	1.71E-03	5.91E-03	6.89E-03	8.99E-03	1.54E-02
1.80E+01	1.51E-04	1.25E-02	2.03E-03	1.33E-03	4.37E-03	5.18E-03	6.82E-03	1.20E-02
1.90E+01	1.16E-04	9.53E-03	1.53E-03	1.02E-03	3.24E-03	3.76E-03	5.08E-03	9.20E-03

2.01E+01 8.81E-05 7.16E-03 1.14E-03 7.72E-04 2.37E-03 2.75E-03 3.73E-03 6.92E-03

2.13E+01 6.57E-05 5.32E-03 8.36E-04 5.71E-04 1.69E-03 1.99E-03 2.69E-03 5.12E-03

2.25E+01 4.82E-05 3.88E-03 6.03E-04 4.17E-04 1.18E-03 1.41E-03 1.89E-03 3.75E-03

2.38E+01 3.47E-05 2.78E-03 4.26E-04 2.99E-04 8.28E-04 1.01E-03 1.29E-03 2.72E-03

2.52E+01 2.22E-05 1.96E-03 2.96E-04 2.10E-04 5.58E-04 6.89E-04 9.09E-04 1.91E-03

2.67E+01 1.12E-05 1.35E-03 2.02E-04 1.43E-04 3.72E-04 4.67E-04 7.85E-04 1.32E-03

2.82E+01 5.43E-06 9.08E-04 1.34E-04 9.62E-05 2.40E-04 3.00E-04 5.04E-04 8.90E-04

2.99E+01 2.52E-06 5.98E-04 8.67E-05 6.25E-05 1.53E-04 1.92E-04 3.16E-04 5.87E-04

3.00E+01 2.39E-06 5.81E-04 8.41E-05 6.00E-05 1.48E-04 1.86E-04 3.06E-04 5.70E-04

3.16E+01 1.12E-06 3.86E-04 5.48E-05 3.92E-05 9.36E-05 1.20E-04 1.93E-04 3.78E-04

3.35E+01 4.74E-07 2.43E-04 3.38E-05 2.45E-05 5.68E-05 7.28E-05 1.30E-04 2.37E-04

3.54E+01	1.91E-07	1.49E-04	2.04E-05	1.50E-05	3.37E-05	4.30E-05	9.85E-05	1.44E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.75E+01 7.30E-08 8.87E-05 1.19E-05 8.73E-06 1.94E-05 2.49E-05 5.93E-05 8.54E-05

3.97E+01 2.63E-08 5.13E-05 6.71E-06 4.90E-06 1.09E-05 1.39E-05 3.29E-05 4.90E-05

4.20E+01 8.97E-09 2.87E-05 3.68E-06 2.67E-06 5.85E-06 7.58E-06 1.77E-05 2.72E-05

4.44E+01 2.87E-09 1.55E-05 1.95E-06 1.44E-06 3.07E-06 3.92E-06 1.13E-05 1.46E-05

4.70E+01 8.58E-10 8.31E-06 1.00E-06 7.46E-07 1.54E-06 1.95E-06 6.48E-06 7.74E-06

4.97E+01 2.39E-10 4.19E-06 4.94E-07 3.70E-07 7.44E-07 9.40E-07 3.19E-06 3.86E-06

5.26E+01 6.19E-11 2.03E-06 2.33E-07 1.78E-07 3.50E-07 4.32E-07 1.51E-06 1.85E-06

5.57E+01 1.48E-11 9.40E-07 1.06E-07 8.11E-08 1.56E-07 1.90E-07 6.81E-07 8.49E-07

5.90E+01 3.26E-12 4.17E-07 4.60E-08 3.55E-08 6.72E-08 8.16E-08 2.94E-07 3.73E-07

6.24E+01 6.57E-13 1.77E-07 1.91E-08 1.42E-08 2.77E-08 3.34E-08 1.26E-07 1.59E-07

6.60E+01 1.21E-13 7.14E-08 7.54E-09 5.57E-09 1.08E-08 1.31E-08 4.92E-08 6.33E-08

6.99E+01 2.01E-14 2.73E-08 2.84E-09 2.09E-09 4.01E-09 4.78E-09 1.88E-08 2.56E-08

7.39E+01 3.00E-15 9.85E-09 1.00E-09 7.39E-10 1.37E-09 1.67E-09 6.78E-09 9.19E-09

7.82E+01 4.03E-16 3.35E-09 3.35E-10 2.46E-10 4.50E-10 5.42E-10 2.24E-09 3.16E-09

8.28E+01 4.81E-17 1.07E-09 1.04E-10 7.80E-11 1.38E-10 1.64E-10 6.95E-10 1.01E-09

8.76E+01 5.07E-18 3.20E-10 3.05E-11 2.29E-11 3.89E-11 4.72E-11 2.01E-10 3.00E-10

9.27E+01	4.69E-19	8.93E-11	8.28E-12	6.24E-12	1.04E-11	1.26E-11	5.42E-11	8.32E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.81E+01	3.77E-20	2.31E-11	2.09E-12	1.60E-12	2.62E-12	3.15E-12	1.35E-11	2.14E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.00E+02	1.58E-20	1.45E-11	1.29E-12	9.93E-13	1.64E-12	1.95E-12	8.36E-12	1.34E-11
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.04E+02 2.62E-21 5.52E-12 4.86E-13 3.74E-13 6.13E-13 7.24E-13 3.11E-12 5.09E-12

1.10E+02 1.56E-22 1.21E-12 1.04E-13 8.10E-14 1.32E-13 1.54E-13 6.57E-13 1.11E-12

1.16E+02 7.88E-24 2.45E-13 2.05E-14 1.59E-14 2.54E-14 3.02E-14 1.27E-13 2.23E-13

1.23E+02 3.34E-25 4.49E-14 3.68E-15 2.86E-15 4.54E-15 5.36E-15 2.22E-14 4.07E-14

1.30E+02	1.18E-26	7.46E-15	6.03E-16	4.70E-16	7.31E-16	8.65E-16	4.19E-15	6.71E-15
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.38E+02 3.40E-28 1.12E-15 8.86E-17 6.96E-17 1.06E-16 1.23E-16 6.04E-16 1.06E-15

1.46E+02 7.39E-30 1.50E-16 1.17E-17 9.22E-18 1.42E-17 1.62E-17 9.20E-17 1.42E-16

1.54E+02 0.00E+00 1.79E-17 1.38E-18 1.09E-18 1.71E-18 2.10E-18 1.09E-17 1.68E-17

1.63E+02 0.00E+00 1.88E-18 1.45E-19 1.14E-19 1.80E-19 2.70E-19 1.11E-18 1.76E-18

1.73E+02 0.00E+00 1.74E-19 1.36E-20 1.03E-20 1.82E-20 3.89E-20 9.91E-20 1.62E-19

1.83E+02 0.00E+00 1.40E-20 1.15E-21 8.11E-22 1.72E-21 4.10E-21 8.35E-21 1.30E-20

1.94E+02 0.00E+00 9.71E-22 8.78E-23 5.54E-23 1.55E-22 4.51E-22 6.55E-22 8.97E-22

2.05E+02 0.00E+00 5.78E-23 5.77E-24 3.22E-24 1.27E-23 3.15E-23 4.78E-23 5.60E-23

2.17E+02	0.00E+00	2.91E-24	3.14E-25	1.57E-25	7.47E-25	1.81E-24	2.46E-24	2.82E-24
----------	----------	----------	----------	----------	----------	----------	----------	----------

2.29E+02 0.00E+00 1.23E-25 1.42E-26 6.54E-27 4.50E-26 8.71E-26 1.06E-25 1.19E-25

2.43E+02 0.00E+00 4.35E-27 5.29E-28 2.22E-28 1.95E-27 3.28E-27 3.80E-27 4.19E-27

2.57E+02 0.00E+00 1.24E-28 1.44E-29 4.12E-30 6.17E-29 9.20E-29 1.10E-28 1.19E-28

2.72E+02 0.00E+00 2.13E-30 1.72E-31 0.00E+00 1.12E-30 1.64E-30 1.92E-30 2.04E-30

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
3.61E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

```

3.82E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00

```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

```
7.53E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

```
7.97E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```


[illegible]

[illegible]

[illegible]

```
1.00E+03      0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00
```

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA SB-125.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	2.706E-01
2	0.000E+00	2.729E-01
3	0.000E+00	2.729E-01

Title : RESRAD Default Parameters
Input File : FCS BFM INSITU UA SB-125.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	4 -0.09	4 -0.02
Contaminated zone b parameter	3 -0.06	3 -0.06	15 0.00	15 0.00
Evapotranspiration coefficient	5 -0.04	5 -0.04	7 0.07	7 0.01
Wind Speed	14 0.00	14 0.00	9 -0.06	9 -0.01
Runoff coefficient	4 -0.05	4 -0.04	11 -0.04	11 -0.01
b Parameter of Unsaturated zone 1	10 -0.01	10 -0.01	10 0.05	10 0.01
Mass loading for inhalation	8 -0.02	8 -0.02	12 -0.02	12 -0.01
Indoor dust filtration factor	13 -0.01	13 -0.01	14 -0.02	14 0.00
Depth of soil mixing layer	16 0.00	16 0.00	6 0.07	6 0.01
Depth of roots	12 0.01	12 0.01	2 0.59	2 0.16
Wet weight crop yield of fruit, grain and non-leafy vegetables	6 0.04	6 0.04	17 0.00	17 0.00
Weathering removal constant of all vegetation	11 -0.01	11 -0.01	3 -0.17	3 -0.04
Wet foliar interception fraction of leafy vegetables	7 -0.03	7 -0.03	16 0.00	16 0.00
Humidity in air	2 0.09	2 0.08	13 0.02	13 0.00
Cover erosion rate	17 0.00	17 0.00	8 0.06	8 0.01
Kd of Sb-125 in Contaminated Zone	1 -0.18	1 -0.18	1 -0.98	1 -0.96
Kd of Sb-125 in Saturated Zone	15 0.00	15 0.00	5 0.09	5 0.02
R-SQUARE	0.05	0.05	0.95	0.95

-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 SB-125.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	9 0.03	9 0.03	5 0.07	5 0.01
Evapotranspiration coefficient	17 0.00	17 0.00	17 0.00	17 0.00
Wind Speed	4 0.05	4 0.05	6 0.05	6 0.01
Runoff coefficient	6 0.03	6 0.03	9 0.04	9 0.01
b Parameter of Unsaturated zone 1	8 -0.03	8 -0.03	11 -0.03	11 -0.01
Mass loading for inhalation	16 0.00	16 0.00	12 -0.03	12 -0.01
Indoor dust filtration factor	3 -0.05	3 -0.05	13 0.02	13 0.00
Depth of soil mixing layer	7 0.03	7 0.03	7 -0.05	7 -0.01
Depth of roots	13 0.02	13 0.02	2 0.66	2 0.17
Wet weight crop yield of fruit, grain and non-leafy vegetables	14 0.02	14 0.02	8 0.05	8 0.01
Weathering removal constant of all vegetation	12 -0.02	12 -0.02	4 -0.10	4 -0.02
Wet foliar interception fraction of leafy vegetables	2 0.07	2 0.07	3 0.12	3 0.02
Humidity in air	10 -0.03	10 -0.03	10 0.03	10 0.01
Cover erosion rate	15 0.00	15 0.00	16 -0.01	16 0.00
Kd of Sb-125 in Contaminated Zone	1 -0.10	1 -0.10	1 -0.98	1 -0.97
Kd of Sb-125 in Saturated Zone	11 0.02	11 0.02	14 0.01	14 0.00
R-SQUARE	0.03	0.03	0.96	0.96

-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 SB-125.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	0.00	16	0.00	14	-0.02	14	0.00
Contaminated zone b parameter	6	0.04	6	0.04	12	0.02	12	0.00
Evapotranspiration coefficient	13	-0.02	13	-0.02	8	-0.06	8	-0.01
Wind Speed	8	-0.03	8	-0.03	9	-0.06	9	-0.01
Runoff coefficient	5	-0.04	5	-0.04	11	-0.03	11	-0.01
b Parameter of Unsaturated zone 1	15	0.01	15	0.01	6	-0.07	6	-0.01
Mass loading for inhalation	2	0.12	2	0.12	13	-0.02	13	0.00
Indoor dust filtration factor	12	-0.02	12	-0.02	4	-0.09	4	-0.02
Depth of soil mixing layer	17	0.00	17	0.00	17	0.00	17	0.00
Depth of roots	4	0.07	4	0.07	2	0.64	2	0.15
Wet weight crop yield of fruit, grain and non-leafy vegetables	11	-0.03	11	-0.03	16	-0.01	16	0.00
Weathering removal constant of all vegetation	7	-0.04	7	-0.04	3	-0.13	3	-0.02
Wet foliar interception fraction of leafy vegetables	10	0.03	10	0.03	5	0.07	5	0.01
Humidity in air	9	-0.03	9	-0.03	15	-0.01	15	0.00
Cover erosion rate	3	0.08	3	0.08	7	0.06	7	0.01
Kd of Sb-125 in Contaminated Zone	1	-0.16	1	-0.16	1	-0.98	1	-0.97
Kd of Sb-125 in Saturated Zone	14	-0.01	14	-0.01	10	-0.05	10	-0.01
R-SQUARE	0.06		0.06		0.97		0.97	

-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.