Probabilistic results summary : RESRAD Default Parameters

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Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Input

Number of Sample Runs: 1500

Number	Name	Distribution	Parameters															
1	VCZ	CONTINUOUS LOGARITHMIC	4	5.E-8	0	.0007	.22	.005	.95	.2	1							
2	BCZ	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1												
3	EVAPTR	UNIFORM	.5	.99														
4	WIND	UNIFORM	2.8	4.7														
5	RUNOFF	UNIFORM	.1	.8														
6	BUZ(1)	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1												
7	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003	.8119	.00004	.9495	.00006	.9937	.000076	.9983	.0001	1
8	SHF3	UNIFORM	.15	.95														
9	DM	TRIANGULAR	0	.15	.6													
10	DROOT	UNIFORM	.3	4														
11	YV(1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999												
12	WLAM	TRIANGULAR	5.1	18	84													
13	RWET(2)	TRIANGULAR	.06	.67	.95													
14	HUMID	TRUNCATED LOGNORMAL-N	1.98	.334	.001	.999												
15	VCV	CONTINUOUS LOGARITHMIC	4	5.E-8	0	.0007	.22	.005	.95	.2	1							
16	DCACTC(3)	LOGNORMAL-N	5.99	1.39														
17	DCACTS(3)	LOGNORMAL-N	5.99	1.39														

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Total Dose Summary

Nuclide	Peak	Peak	DOSE(j,t), mrem/yr							
(j)	Time	Dose	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
Pu-239										
Min	0.00E+00	3.23E-01	1.86E-01	1.86E-01	1.86E-01	1.86E-01	1.86E-01	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	4.49E+02	4.49E+02	4.43E+02	4.32E+02	3.94E+02	3.04E+02	1.22E+02	5.70E+01	1.84E+01
Avg	1.93E+02	1.25E+01	1.23E+01	1.23E+01	1.23E+01	1.21E+01	1.16E+01	1.03E+01	8.17E+00	4.34E+00
Std	2.95E+02	2.56E+01	2.56E+01	2.54E+01	2.51E+01	2.38E+01	2.08E+01	1.46E+01	8.53E+00	3.34E+00
∑ALL										
Min	0.00E+00	3.23E-01	1.86E-01	1.86E-01	1.86E-01	1.86E-01	1.86E-01	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	4.49E+02	4.49E+02	4.43E+02	4.32E+02	3.94E+02	3.04E+02	1.22E+02	5.70E+01	1.84E+01
Avg	1.93E+02	1.25E+01	1.23E+01	1.23E+01	1.23E+01	1.21E+01	1.16E+01	1.03E+01	8.17E+00	4.34E+00
Std	2.95E+02	2.56E+01	2.56E+01	2.54E+01	2.51E+01	2.38E+01	2.08E+01	1.46E+01	8.53E+00	3.34E+00

∑ALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Risk Summary

Nuclide	RISK(j,t)							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-239								
Min	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	0.00E+00	0.00E+00	0.00E+00
Max	5.30E-04	5.23E-04	5.09E-04	4.65E-04	3.58E-04	1.44E-04	6.63E-05	2.27E-05
Avg	1.46E-05	1.46E-05	1.45E-05	1.43E-05	1.38E-05	1.23E-05	9.76E-06	5.27E-06
Std	3.01E-05	2.99E-05	2.94E-05	2.80E-05	2.44E-05	1.71E-05	9.99E-06	3.90E-06
∑ALL								
Min	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	0.00E+00	0.00E+00	0.00E+00
Max	5.30E-04	5.23E-04	5.09E-04	4.65E-04	3.58E-04	1.44E-04	6.63E-05	2.27E-05
Avg	1.46E-05	1.46E-05	1.45E-05	1.43E-05	1.38E-05	1.23E-05	9.76E-06	5.27E-06
Std	3.01E-05	2.99E-05	2.94E-05	2.80E-05	2.44E-05	1.71E-05	9.99E-06	3.90E-06

∑ALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Ground External

Nuclide	DOSE(i,j,t), mrem/yr							
(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
Pu-239								
Min	9.23E-13	9.14E-13	8.97E-13	8.39E-13	6.92E-13	0.00E+00	0.00E+00	0.00E+00
Max	1.12E-11	5.38E-10	1.23E-06	1.37E-04	1.37E-04	1.37E-04	1.36E-04	1.33E-04
Avg	1.01E-12	2.52E-12	1.77E-09	1.57E-06	3.55E-06	5.49E-06	3.06E-05	6.85E-05
Std	5.52E-13	2.08E-11	3.81E-08	1.42E-05	2.16E-05	2.63E-05	5.27E-05	5.39E-05
∑ALL								
Min	9.23E-13	9.14E-13	8.97E-13	8.39E-13	6.92E-13	0.00E+00	0.00E+00	0.00E+00
Max	1.12E-11	5.38E-10	1.23E-06	1.37E-04	1.37E-04	1.37E-04	1.36E-04	1.33E-04
Avg	1.01E-12	2.52E-12	1.77E-09	1.57E-06	3.55E-06	5.49E-06	3.06E-05	6.85E-05
Std	5.52E-13	2.08E-11	3.81E-08	1.42E-05	2.16E-05	2.63E-05	5.27E-05	5.39E-05

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(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
Pu-239								
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	2.62E-03	1.24E-02	1.29E-02	1.26E-02	2.19E-02	2.17E-02
Avg	0.00E+00	0.00E+00	2.43E-06	6.55E-05	1.42E-04	2.13E-04	1.31E-03	2.62E-03
Std	0.00E+00	0.00E+00	7.05E-05	6.43E-04	9.37E-04	1.12E-03	2.49E-03	2.77E-03
∑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	2.62E-03	1.24E-02	1.29E-02	1.26E-02	2.19E-02	2.17E-02
Avg	0.00E+00	0.00E+00	2.43E-06	6.55E-05	1.42E-04	2.13E-04	1.31E-03	2.62E-03
Std	0.00E+00	0.00E+00	7.05E-05	6.43E-04	9.37E-04	1.12E-03	2.49E-03	2.77E-03

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-239								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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
Pu-239								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	6.76E-01	7.08E-01	7.74E-01	8.65E-01	8.64E-01	8.62E-01	8.57E-01	8.37E-01
Avg	4.04E-01	4.06E-01	4.09E-01	4.18E-01	4.32E-01	4.69E-01	5.62E-01	5.20E-01
Std	2.37E-01	2.36E-01	2.36E-01	2.40E-01	2.42E-01	2.39E-01	2.42E-01	2.56E-01
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	6.76E-01	7.08E-01	7.74E-01	8.65E-01	8.64E-01	8.62E-01	8.57E-01	8.37E-01
Avg	4.04E-01	4.06E-01	4.09E-01	4.18E-01	4.32E-01	4.69E-01	5.62E-01	5.20E-01
Std	2.37E-01	2.36E-01	2.36E-01	2.40E-01	2.42E-01	2.39E-01	2.42E-01	2.56E-01

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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
Pu-239								
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	8.47E-04	8.85E-04	4.26E-03	1.64E-02	1.64E-02	1.64E-02	1.63E-02	1.59E-02
Avg	5.09E-04	5.10E-04	5.19E-04	7.23E-04	9.68E-04	1.23E-03	4.68E-03	8.69E-03
Std	2.98E-04	2.98E-04	3.25E-04	1.76E-03	2.57E-03	3.07E-03	6.25E-03	6.08E-03
∑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	8.47E-04	8.85E-04	4.26E-03	1.64E-02	1.64E-02	1.64E-02	1.63E-02	1.59E-02
Avg	5.09E-04	5.10E-04	5.19E-04	7.23E-04	9.68E-04	1.23E-03	4.68E-03	8.69E-03
Std	2.98E-04	2.98E-04	3.25E-04	1.76E-03	2.57E-03	3.07E-03	6.25E-03	6.08E-03

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-239								
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	8.64E-05	9.03E-05	2.56E-04	7.81E-04	7.81E-04	7.79E-04	7.74E-04	7.56E-04
Avg	5.18E-05	5.19E-05	5.26E-05	6.22E-05	7.39E-05	8.79E-05	2.46E-04	4.17E-04
Std	3.03E-05	3.03E-05	3.11E-05	8.50E-05	1.20E-04	1.42E-04	2.84E-04	2.80E-04
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.64E-05	9.03E-05	2.56E-04	7.81E-04	7.81E-04	7.79E-04	7.74E-04	7.56E-04
Avg	5.18E-05	5.19E-05	5.26E-05	6.22E-05	7.39E-05	8.79E-05	2.46E-04	4.17E-04
Std	3.03E-05	3.03E-05	3.11E-05	8.50E-05	1.20E-04	1.42E-04	2.84E-04	2.80E-04

∑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
Pu-239								
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	1.21E-02	5.05E-02	5.05E-02	5.04E-02	5.00E-02	4.89E-02
Avg	0.00E+00	0.00E+00	1.81E-05	6.52E-04	1.40E-03	2.10E-03	1.31E-02	2.64E-02
Std	0.00E+00	0.00E+00	4.31E-04	5.51E-03	8.10E-03	9.75E-03	1.99E-02	1.92E-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	1.21E-02	5.05E-02	5.05E-02	5.04E-02	5.00E-02	4.89E-02
Avg	0.00E+00	0.00E+00	1.81E-05	6.52E-04	1.40E-03	2.10E-03	1.31E-02	2.64E-02
Std	0.00E+00	0.00E+00	4.31E-04	5.51E-03	8.10E-03	9.75E-03	1.99E-02	1.92E-02

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-239								
Min	2.73E-02	2.73E-02	2.73E-02	2.73E-02	2.73E-02	0.00E+00	0.00E+00	0.00E+00
Max	4.10E+02	4.05E+02	3.94E+02	3.60E+02	2.78E+02	1.12E+02	5.37E+01	1.61E+01
Avg	1.10E+01	1.09E+01	1.09E+01	1.07E+01	1.03E+01	9.03E+00	6.95E+00	3.46E+00
Std	2.37E+01	2.35E+01	2.31E+01	2.20E+01	1.92E+01	1.34E+01	7.86E+00	3.10E+00
∑ALL								
Min	2.73E-02	2.73E-02	2.73E-02	2.73E-02	2.73E-02	0.00E+00	0.00E+00	0.00E+00
Max	4.10E+02	4.05E+02	3.94E+02	3.60E+02	2.78E+02	1.12E+02	5.37E+01	1.61E+01
Avg	1.10E+01	1.09E+01	1.09E+01	1.07E+01	1.03E+01	9.03E+00	6.95E+00	3.46E+00
Std	2.37E+01	2.35E+01	2.31E+01	2.20E+01	1.92E+01	1.34E+01	7.86E+00	3.10E+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
Pu-239								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.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
Pu-239								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.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
Pu-239								
Min	1.56E-03	1.56E-03	1.56E-03	1.55E-03	1.55E-03	0.00E+00	0.00E+00	0.00E+00
Max	3.78E+01	3.73E+01	3.63E+01	3.32E+01	2.56E+01	2.01E+01	1.05E+01	4.58E+00
Avg	9.79E-01	9.77E-01	9.73E-01	9.59E-01	9.23E-01	8.19E-01	6.34E-01	3.18E-01
Std	2.23E+00	2.22E+00	2.19E+00	2.11E+00	1.91E+00	1.47E+00	9.16E-01	3.98E-01
∑ALL								
Min	1.56E-03	1.56E-03	1.56E-03	1.55E-03	1.55E-03	0.00E+00	0.00E+00	0.00E+00
Max	3.78E+01	3.73E+01	3.63E+01	3.32E+01	2.56E+01	2.01E+01	1.05E+01	4.58E+00
Avg	9.79E-01	9.77E-01	9.73E-01	9.59E-01	9.23E-01	8.19E-01	6.34E-01	3.18E-01
Std	2.23E+00	2.22E+00	2.19E+00	2.11E+00	1.91E+00	1.47E+00	9.16E-01	3.98E-01

∑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 PU-239.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
Pu-239								
Min	3.04E-05	3.04E-05	3.04E-05	3.04E-05	3.04E-05	0.00E+00	0.00E+00	0.00E+00
Max	3.89E-01	3.84E-01	3.74E-01	3.41E-01	2.63E-01	1.13E-01	6.53E-02	1.90E-02
Avg	1.12E-02	1.12E-02	1.11E-02	1.10E-02	1.05E-02	9.30E-03	7.16E-03	3.56E-03
Std	2.36E-02	2.34E-02	2.31E-02	2.20E-02	1.95E-02	1.40E-02	8.27E-03	3.25E-03
∑ALL								
Min	3.04E-05	3.04E-05	3.04E-05	3.04E-05	3.04E-05	0.00E+00	0.00E+00	0.00E+00
Max	3.89E-01	3.84E-01	3.74E-01	3.41E-01	2.63E-01	1.13E-01	6.53E-02	1.90E-02
Avg	1.12E-02	1.12E-02	1.11E-02	1.10E-02	1.05E-02	9.30E-03	7.16E-03	3.56E-03
Std	2.36E-02	2.34E-02	2.31E-02	2.20E-02	1.95E-02	1.40E-02	8.27E-03	3.25E-03

∑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 PU-239.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
Pu-239								
Min	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	0.00E+00	0.00E+00	0.00E+00
Max	2.61E-02	2.57E-02	2.51E-02	2.29E-02	1.76E-02	8.48E-03	4.88E-03	1.50E-03
Avg	7.83E-04	7.81E-04	7.78E-04	7.66E-04	7.35E-04	6.50E-04	5.01E-04	2.49E-04
Std	1.63E-03	1.62E-03	1.60E-03	1.53E-03	1.36E-03	9.98E-04	5.91E-04	2.33E-04
∑ALL								
Min	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	0.00E+00	0.00E+00	0.00E+00
Max	2.61E-02	2.57E-02	2.51E-02	2.29E-02	1.76E-02	8.48E-03	4.88E-03	1.50E-03
Avg	7.83E-04	7.81E-04	7.78E-04	7.66E-04	7.35E-04	6.50E-04	5.01E-04	2.49E-04
Std	1.63E-03	1.62E-03	1.60E-03	1.53E-03	1.36E-03	9.98E-04	5.91E-04	2.33E-04

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.RAD

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	1.00E+03
0.025	6.74E-01	6.74E-01	6.74E-01	6.74E-01	6.86E-01	7.16E-01	7.38E-01	0.00E+00
0.050	8.67E-01	8.66E-01	8.72E-01	8.80E-01	8.87E-01	9.10E-01	1.01E+00	5.43E-01
0.075	1.02E+00	1.02E+00	1.02E+00	1.02E+00	1.03E+00	1.09E+00	1.17E+00	8.45E-01
0.100	1.16E+00	1.16E+00	1.16E+00	1.16E+00	1.17E+00	1.21E+00	1.34E+00	1.04E+00
0.125	1.31E+00	1.31E+00	1.31E+00	1.32E+00	1.34E+00	1.41E+00	1.49E+00	1.17E+00
0.150	1.52E+00	1.52E+00	1.52E+00	1.53E+00	1.54E+00	1.58E+00	1.66E+00	1.28E+00
0.175	1.70E+00	1.70E+00	1.70E+00	1.71E+00	1.72E+00	1.74E+00	1.84E+00	1.41E+00
0.200	1.84E+00	1.84E+00	1.84E+00	1.85E+00	1.86E+00	1.92E+00	2.00E+00	1.51E+00
0.225	2.05E+00	2.05E+00	2.05E+00	2.07E+00	2.07E+00	2.11E+00	2.21E+00	1.65E+00
0.250	2.25E+00	2.25E+00	2.25E+00	2.26E+00	2.27E+00	2.34E+00	2.39E+00	1.79E+00
0.275	2.47E+00	2.47E+00	2.48E+00	2.48E+00	2.50E+00	2.51E+00	2.57E+00	1.91E+00
0.300	2.62E+00	2.62E+00	2.64E+00	2.64E+00	2.65E+00	2.67E+00	2.71E+00	2.07E+00
0.325	2.82E+00	2.82E+00	2.82E+00	2.84E+00	2.87E+00	2.87E+00	2.92E+00	2.18E+00
0.350	3.08E+00	3.08E+00	3.08E+00	3.09E+00	3.10E+00	3.12E+00	3.19E+00	2.31E+00
0.375	3.35E+00	3.35E+00	3.35E+00	3.36E+00	3.37E+00	3.39E+00	3.41E+00	2.45E+00
0.400	3.64E+00	3.64E+00	3.64E+00	3.67E+00	3.67E+00	3.71E+00	3.64E+00	2.57E+00
0.425	3.94E+00	3.94E+00	3.94E+00	3.95E+00	3.96E+00	3.96E+00	3.92E+00	2.76E+00
0.450	4.29E+00	4.29E+00	4.30E+00	4.31E+00	4.33E+00	4.31E+00	4.26E+00	2.99E+00
0.475	4.63E+00	4.63E+00	4.63E+00	4.64E+00	4.65E+00	4.67E+00	4.59E+00	3.14E+00
0.500	5.04E+00	5.04E+00	5.04E+00	5.03E+00	5.02E+00	5.01E+00	4.94E+00	3.40E+00
0.525	5.41E+00	5.42E+00	5.42E+00	5.42E+00	5.43E+00	5.44E+00	5.36E+00	3.66E+00
0.550	5.93E+00	5.93E+00	5.94E+00	5.94E+00	5.94E+00	5.90E+00	5.75E+00	3.87E+00
0.575	6.39E+00	6.39E+00	6.38E+00	6.42E+00	6.40E+00	6.36E+00	6.15E+00	4.09E+00
0.600	7.02E+00	7.02E+00	7.02E+00	7.03E+00	7.00E+00	6.91E+00	6.65E+00	4.35E+00
0.625	7.59E+00	7.59E+00	7.58E+00	7.57E+00	7.56E+00	7.45E+00	7.19E+00	4.59E+00
0.650	8.24E+00	8.27E+00	8.31E+00	8.29E+00	8.26E+00	8.19E+00	7.84E+00	4.88E+00
0.675	9.17E+00	9.17E+00	9.16E+00	9.18E+00	9.12E+00	8.95E+00	8.47E+00	5.19E+00
0.700	1.01E+01	1.01E+01	1.01E+01	1.01E+01	1.01E+01	9.82E+00	9.14E+00	5.51E+00
0.725	1.10E+01	1.10E+01	1.10E+01	1.10E+01	1.09E+01	1.07E+01	9.81E+00	5.92E+00
0.750	1.24E+01	1.24E+01	1.24E+01	1.23E+01	1.22E+01	1.18E+01	1.08E+01	6.33E+00
0.775	1.35E+01	1.35E+01	1.35E+01	1.35E+01	1.34E+01	1.30E+01	1.16E+01	6.74E+00
0.800	1.52E+01	1.52E+01	1.52E+01	1.51E+01	1.49E+01	1.43E+01	1.28E+01	6.99E+00
0.825	1.73E+01	1.73E+01	1.73E+01	1.72E+01	1.69E+01	1.61E+01	1.40E+01	7.44E+00
0.850	2.03E+01	2.02E+01	2.02E+01	2.01E+01	1.98E+01	1.89E+01	1.61E+01	8.07E+00
0.875	2.30E+01	2.30E+01	2.30E+01	2.28E+01	2.25E+01	2.15E+01	1.81E+01	8.54E+00
0.900	2.76E+01	2.76E+01	2.75E+01	2.74E+01	2.70E+01	2.54E+01	2.01E+01	9.18E+00
0.925	3.43E+01	3.43E+01	3.43E+01	3.41E+01	3.32E+01	3.08E+01	2.31E+01	9.89E+00
0.950	4.55E+01	4.54E+01	4.53E+01	4.49E+01	4.36E+01	3.90E+01	2.75E+01	1.10E+01
0.975	7.09E+01	7.08E+01	7.05E+01	6.90E+01	6.45E+01	5.41E+01	3.22E+01	1.26E+01
1.000	4.49E+02	4.43E+02	4.32E+02	3.94E+02	3.04E+02	1.22E+02	5.70E+01	1.84E+01

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.RAD

Summary of dose at graphical times, reptition 1

Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.87E-01	2.42E+02	1.21E+01	5.05E+00	2.77E+01	4.54E+01	7.21E+01	1.27E+02
1.00E+00	2.88E-01	2.40E+02	1.20E+01	5.05E+00	2.77E+01	4.54E+01	7.19E+01	1.26E+02
1.06E+00	2.88E-01	2.40E+02	1.20E+01	5.05E+00	2.77E+01	4.54E+01	7.19E+01	1.26E+02
1.12E+00	2.88E-01	2.40E+02	1.20E+01	5.05E+00	2.77E+01	4.54E+01	7.19E+01	1.26E+02
1.19E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.77E+01	4.54E+01	7.19E+01	1.26E+02
1.25E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.77E+01	4.54E+01	7.19E+01	1.26E+02
1.33E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.76E+01	4.54E+01	7.19E+01	1.26E+02
1.40E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.76E+01	4.54E+01	7.19E+01	1.26E+02
1.49E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.76E+01	4.54E+01	7.18E+01	1.26E+02
1.57E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.18E+01	1.26E+02
1.66E+00	2.88E-01	2.39E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.18E+01	1.26E+02
1.76E+00	2.88E-01	2.38E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.18E+01	1.26E+02
1.86E+00	2.89E-01	2.38E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.18E+01	1.26E+02
1.97E+00	2.89E-01	2.38E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.18E+01	1.26E+02
2.09E+00	2.89E-01	2.38E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.17E+01	1.26E+02
2.21E+00	2.89E-01	2.38E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.17E+01	1.26E+02
2.34E+00	2.89E-01	2.37E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.17E+01	1.26E+02
2.47E+00	2.89E-01	2.37E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.17E+01	1.26E+02
2.62E+00	2.89E-01	2.37E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.16E+01	1.26E+02
2.77E+00	2.90E-01	2.36E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.16E+01	1.25E+02
2.93E+00	2.90E-01	2.36E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.16E+01	1.25E+02
3.00E+00	2.90E-01	2.36E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.16E+01	1.25E+02
3.10E+00	2.90E-01	2.36E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.15E+01	1.25E+02
3.28E+00	2.90E-01	2.36E+02	1.20E+01	5.05E+00	2.76E+01	4.53E+01	7.15E+01	1.25E+02
3.48E+00	2.90E-01	2.35E+02	1.20E+01	5.05E+00	2.76E+01	4.52E+01	7.15E+01	1.25E+02
3.68E+00	2.90E-01	2.35E+02	1.20E+01	5.05E+00	2.76E+01	4.52E+01	7.14E+01	1.25E+02
3.89E+00	2.91E-01	2.34E+02	1.20E+01	5.05E+00	2.76E+01	4.52E+01	7.14E+01	1.25E+02
4.12E+00	2.91E-01	2.34E+02	1.20E+01	5.05E+00	2.76E+01	4.52E+01	7.13E+01	1.25E+02
4.36E+00	2.91E-01	2.34E+02	1.20E+01	5.05E+00	2.76E+01	4.52E+01	7.13E+01	1.25E+02
4.61E+00	2.91E-01	2.33E+02	1.20E+01	5.05E+00	2.75E+01	4.52E+01	7.12E+01	1.25E+02
4.88E+00	2.92E-01	2.33E+02	1.20E+01	5.04E+00	2.75E+01	4.52E+01	7.12E+01	1.25E+02
5.17E+00	2.92E-01	2.32E+02	1.20E+01	5.04E+00	2.75E+01	4.51E+01	7.11E+01	1.24E+02
5.47E+00	2.92E-01	2.32E+02	1.19E+01	5.04E+00	2.75E+01	4.51E+01	7.11E+01	1.24E+02
5.78E+00	2.93E-01	2.31E+02	1.19E+01	5.04E+00	2.75E+01	4.51E+01	7.10E+01	1.24E+02
6.12E+00	2.93E-01	2.30E+02	1.19E+01	5.04E+00	2.75E+01	4.51E+01	7.10E+01	1.24E+02
6.48E+00	2.93E-01	2.30E+02	1.19E+01	5.04E+00	2.75E+01	4.51E+01	7.09E+01	1.24E+02
6.86E+00	2.94E-01	2.29E+02	1.19E+01	5.04E+00	2.75E+01	4.50E+01	7.08E+01	1.24E+02
7.26E+00	2.94E-01	2.28E+02	1.19E+01	5.04E+00	2.75E+01	4.50E+01	7.07E+01	1.24E+02
7.68E+00	2.95E-01	2.28E+02	1.19E+01	5.04E+00	2.74E+01	4.50E+01	7.07E+01	1.23E+02
8.13E+00	2.95E-01	2.27E+02	1.19E+01	5.04E+00	2.74E+01	4.50E+01	7.06E+01	1.23E+02
8.60E+00	2.96E-01	2.26E+02	1.19E+01	5.04E+00	2.74E+01	4.49E+01	7.05E+01	1.23E+02
9.10E+00	2.96E-01	2.25E+02	1.19E+01	5.04E+00	2.74E+01	4.49E+01	7.04E+01	1.23E+02
9.63E+00	2.97E-01	2.24E+02	1.19E+01	5.04E+00	2.74E+01	4.49E+01	7.03E+01	1.23E+02
1.00E+01	2.97E-01	2.24E+02	1.19E+01	5.04E+00	2.74E+01	4.49E+01	7.02E+01	1.23E+02
1.02E+01	2.97E-01	2.23E+02	1.18E+01	5.04E+00	2.74E+01	4.49E+01	7.02E+01	1.22E+02
1.08E+01	2.98E-01	2.22E+02	1.18E+01	5.04E+00	2.74E+01	4.48E+01	7.01E+01	1.22E+02
1.14E+01	2.99E-01	2.21E+02	1.18E+01	5.04E+00	2.74E+01	4.48E+01	6.99E+01	1.22E+02
1.21E+01	3.00E-01	2.20E+02	1.18E+01	5.04E+00	2.73E+01	4.47E+01	6.98E+01	1.22E+02
1.28E+01	3.00E-01	2.19E+02	1.18E+01	5.04E+00	2.73E+01	4.47E+01	6.97E+01	1.21E+02
1.35E+01	3.00E-01	2.17E+02	1.18E+01	5.04E+00	2.73E+01	4.46E+01	6.95E+01	1.21E+02
1.43E+01	3.00E-01	2.16E+02	1.18E+01	5.04E+00	2.73E+01	4.46E+01	6.94E+01	1.21E+02
1.51E+01	3.00E-01	2.15E+02	1.17E+01	5.04E+00	2.73E+01	4.45E+01	6.92E+01	1.20E+02
1.60E+01	3.00E-01	2.13E+02	1.17E+01	5.04E+00	2.73E+01	4.45E+01	6.90E+01	1.20E+02
1.70E+01	3.00E-01	2.12E+02	1.17E+01	5.04E+00	2.72E+01	4.44E+01	6.88E+01	1.20E+02
1.80E+01	3.00E-01	2.10E+02	1.17E+01	5.04E+00	2.72E+01	4.43E+01	6.86E+01	1.19E+02
1.90E+01	3.00E-01	2.08E+02	1.17E+01	5.04E+00	2.72E+01	4.42E+01	6.83E+01	1.19E+02

2.01E+01 3.00E-01 2.07E+02 1.16E+01 5.04E+00 2.72E+01 4.42E+01 6.81E+01 1.19E+02

2.13E+01 3.00E-01 2.05E+02 1.16E+01 5.04E+00 2.72E+01 4.41E+01 6.78E+01 1.18E+02

2.25E+01 3.00E-01 2.03E+02 1.16E+01 5.04E+00 2.71E+01 4.40E+01 6.76E+01 1.18E+02

2.38E+01 3.00E-01 2.01E+02 1.16E+01 5.04E+00 2.71E+01 4.39E+01 6.73E+01 1.17E+02

2.52E+01 3.00E-01 1.98E+02 1.15E+01 5.04E+00 2.71E+01 4.38E+01 6.70E+01 1.17E+02

2.67E+01 3.00E-01 1.96E+02 1.15E+01 5.04E+00 2.71E+01 4.37E+01 6.66E+01 1.16E+02

2.82E+01 3.00E-01 1.94E+02 1.15E+01 5.04E+00 2.70E+01 4.36E+01 6.63E+01 1.15E+02

2.99E+01 3.00E-01 1.91E+02 1.14E+01 5.04E+00 2.70E+01 4.35E+01 6.60E+01 1.15E+02

3.00E+01	3.00E-01	1.91E+02	1.14E+01	5.04E+00	2.70E+01	4.35E+01	6.59E+01	1.15E+02

3.16E+01 3.00E-01 1.89E+02 1.14E+01 5.04E+00 2.70E+01 4.34E+01 6.56E+01 1.14E+02

3.35E+01 3.00E-01 1.86E+02 1.14E+01 5.04E+00 2.69E+01 4.33E+01 6.52E+01 1.12E+02

3.54E+01 3.00E-01 1.83E+02 1.13E+01 5.04E+00 2.69E+01 4.31E+01 6.48E+01 1.11E+02

3.75E+01 3.00E-01 1.80E+02 1.13E+01 5.04E+00 2.68E+01 4.30E+01 6.44E+01 1.10E+02

3.97E+01 3.00E-01 1.77E+02 1.13E+01 5.04E+00 2.68E+01 4.28E+01 6.39E+01 1.08E+02

4.20E+01 3.00E-01 1.74E+02 1.12E+01 5.04E+00 2.68E+01 4.27E+01 6.34E+01 1.07E+02

4.44E+01 3.00E-01 1.71E+02 1.12E+01 5.04E+00 2.67E+01 4.25E+01 6.29E+01 1.05E+02

4.70E+01 3.00E-01 1.67E+02 1.11E+01 5.04E+00 2.67E+01 4.24E+01 6.24E+01 1.04E+02

4.97E+01 3.00E-01 1.64E+02 1.11E+01 5.03E+00 2.66E+01 4.22E+01 6.18E+01 1.02E+02

5.26E+01 3.00E-01 1.60E+02 1.10E+01 5.03E+00 2.66E+01 4.20E+01 6.13E+01 1.00E+02

5.57E+01 3.00E-01 1.56E+02 1.10E+01 5.03E+00 2.65E+01 4.18E+01 6.07E+01 9.82E+01

5.90E+01 3.00E-01 1.52E+02 1.09E+01 5.03E+00 2.64E+01 4.16E+01 6.02E+01 9.63E+01

6.24E+01 3.00E-01 1.48E+02 1.09E+01 5.03E+00 2.64E+01 4.13E+01 5.96E+01 9.43E+01

6.60E+01 2.99E-01 1.44E+02 1.08E+01 5.03E+00 2.63E+01 4.11E+01 5.91E+01 9.22E+01

6.99E+01 2.99E-01 1.40E+02 1.07E+01 5.05E+00 2.62E+01 4.09E+01 5.85E+01 9.01E+01

7.39E+01 2.99E-01 1.36E+02 1.07E+01 5.05E+00 2.62E+01 4.06E+01 5.78E+01 8.79E+01

7.82E+01 2.99E-01 1.31E+02 1.06E+01 5.05E+00 2.60E+01 4.03E+01 5.72E+01 8.56E+01

8.28E+01 2.99E-01 1.27E+02 1.05E+01 5.05E+00 2.59E+01 4.01E+01 5.65E+01 8.33E+01

8.76E+01 2.99E-01 1.22E+02 1.04E+01 5.04E+00 2.58E+01 3.98E+01 5.57E+01 8.07E+01

9.27E+01 2.99E-01 1.17E+02 1.04E+01 5.04E+00 2.57E+01 3.94E+01 5.50E+01 7.68E+01

9.81E+01 2.99E-01 1.12E+02 1.03E+01 5.04E+00 2.56E+01 3.91E+01 5.42E+01 7.29E+01

1.00E+02 2.99E-01 1.11E+02 1.03E+01 5.04E+00 2.55E+01 3.90E+01 5.39E+01 7.17E+01

1.04E+02 2.99E-01 1.07E+02 1.02E+01 5.04E+00 2.54E+01 3.88E+01 5.34E+01 6.98E+01

1.10E+02 3.10E-01 1.02E+02 1.01E+01 5.05E+00 2.53E+01 3.85E+01 5.25E+01 6.91E+01

1.16E+02 3.21E-01 9.74E+01 1.00E+01 5.06E+00 2.51E+01 3.80E+01 5.18E+01 6.79E+01

1.23E+02 3.21E-01 9.24E+01 9.94E+00 5.06E+00 2.49E+01 3.76E+01 5.11E+01 6.52E+01

1.30E+02 3.21E-01 8.74E+01 9.84E+00 5.05E+00 2.48E+01 3.72E+01 5.03E+01 6.24E+01

1.38E+02 3.21E-01 8.23E+01 9.75E+00 5.05E+00 2.46E+01 3.67E+01 4.95E+01 5.96E+01

1.46E+02 3.21E-01 7.89E+01 9.65E+00 5.04E+00 2.44E+01 3.62E+01 4.76E+01 5.67E+01

1.54E+02 3.21E-01 7.68E+01 9.55E+00 5.04E+00 2.42E+01 3.57E+01 4.65E+01 5.45E+01

1.63E+02 3.21E-01 7.46E+01 9.44E+00 5.04E+00 2.40E+01 3.52E+01 4.54E+01 5.28E+01

1.73E+02 3.21E-01 7.23E+01 9.34E+00 5.03E+00 2.39E+01 3.47E+01 4.43E+01 5.15E+01

1.83E+02 3.21E-01 7.00E+01 9.23E+00 5.03E+00 2.37E+01 3.28E+01 4.31E+01 5.04E+01

1.94E+02 3.20E-01 6.76E+01 9.12E+00 5.02E+00 2.35E+01 3.23E+01 4.13E+01 4.94E+01

2.05E+02 3.20E-01 6.52E+01 9.00E+00 5.02E+00 2.31E+01 3.20E+01 3.92E+01 4.82E+01

2.17E+02 3.20E-01 6.27E+01 8.88E+00 5.03E+00 2.28E+01 3.17E+01 3.74E+01 4.44E+01

2.29E+02 3.20E-01 6.02E+01 8.76E+00 5.03E+00 2.18E+01 3.14E+01 3.60E+01 4.27E+01

2.43E+02 3.20E-01 5.76E+01 8.63E+00 5.01E+00 2.16E+01 3.10E+01 3.49E+01 4.12E+01

2.57E+02 3.20E-01 5.51E+01 8.49E+00 5.00E+00 2.13E+01 2.95E+01 3.32E+01 3.96E+01

2.72E+02 0.00E+00 5.24E+01 8.35E+00 4.98E+00 2.11E+01 2.88E+01 3.24E+01 3.82E+01

2.88E+02 0.00E+00 4.98E+01 8.21E+00 4.96E+00 2.07E+01 2.73E+01 3.16E+01 3.70E+01

3.00E+02 0.00E+00 4.79E+01 8.10E+00 4.95E+00 2.06E+01 2.65E+01 3.12E+01 3.61E+01

3.05E+02 0.00E+00 4.72E+01 8.07E+00 4.94E+00 2.05E+01 2.64E+01 3.10E+01 3.58E+01

3.22E+02 0.00E+00 4.47E+01 7.92E+00 4.93E+00 1.97E+01 2.59E+01 3.03E+01 3.36E+01

3.41E+02 0.00E+00 4.23E+01 7.77E+00 4.91E+00 1.89E+01 2.51E+01 2.91E+01 3.14E+01

3.61E+02 0.00E+00 3.99E+01 7.62E+00 4.90E+00 1.87E+01 2.38E+01 2.82E+01 3.00E+01

3.82E+02 0.00E+00 3.74E+01 7.47E+00 4.83E+00 1.83E+01 2.27E+01 2.74E+01 2.93E+01

4.04E+02 0.00E+00 3.50E+01 7.31E+00 4.69E+00 1.79E+01 2.20E+01 2.65E+01 2.86E+01

4.28E+02 0.00E+00 3.25E+01 7.15E+00 4.65E+00 1.73E+01 2.10E+01 2.51E+01 2.79E+01

4.53E+02 0.00E+00 3.01E+01 6.98E+00 4.65E+00 1.69E+01 2.04E+01 2.38E+01 2.68E+01

4.79E+02 0.00E+00 2.77E+01 6.81E+00 4.63E+00 1.62E+01 1.94E+01 2.26E+01 2.61E+01

5.07E+02 0.00E+00 2.62E+01 6.64E+00 4.56E+00 1.58E+01 1.88E+01 2.17E+01 2.53E+01

5.36E+02 0.00E+00 2.51E+01 6.46E+00 4.55E+00 1.49E+01 1.78E+01 2.12E+01 2.45E+01

5.68E+02 0.00E+00 2.45E+01 6.27E+00 4.47E+00 1.43E+01 1.70E+01 2.06E+01 2.37E+01

6.01E+02 0.00E+00 2.33E+01 6.08E+00 4.37E+00 1.39E+01 1.66E+01 1.94E+01 2.17E+01

6.36E+02 0.00E+00 2.27E+01 5.89E+00 4.31E+00 1.30E+01 1.60E+01 1.80E+01 2.05E+01

6.73E+02 0.00E+00 2.21E+01 5.69E+00 4.22E+00 1.25E+01 1.49E+01 1.73E+01 1.95E+01

7.12E+02 0.00E+00 2.15E+01 5.49E+00 4.08E+00 1.21E+01 1.45E+01 1.65E+01 1.88E+01

7.53E+02 0.00E+00 2.08E+01 5.29E+00 3.99E+00 1.11E+01 1.39E+01 1.59E+01 1.82E+01

7.97E+02 0.00E+00 2.02E+01 5.10E+00 3.86E+00 1.07E+01 1.33E+01 1.51E+01 1.77E+01

8.44E+02 0.00E+00 1.95E+01 4.87E+00 3.75E+00 1.02E+01 1.27E+01 1.43E+01 1.69E+01

8.93E+02 0.00E+00 1.89E+01 4.67E+00 3.56E+00 9.77E+00 1.22E+01 1.38E+01 1.62E+01

9.45E+02 0.00E+00 1.82E+01 4.48E+00 3.45E+00 9.44E+00 1.18E+01 1.33E+01 1.56E+01

1.00E+03 0.00E+00 1.75E+01 4.29E+00 3.28E+00 9.12E+00 1.15E+01 1.25E+01 1.49E+01

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.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	2.29E-01	4.49E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.20E+01	1.14E+02
1.00E+00	2.30E-01	4.43E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.19E+01	1.14E+02
1.06E+00	2.30E-01	4.43E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.18E+01	1.14E+02
1.12E+00	2.30E-01	4.42E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.18E+01	1.14E+02
1.19E+00	2.30E-01	4.42E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.18E+01	1.14E+02
1.25E+00	2.30E-01	4.41E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.18E+01	1.14E+02
1.33E+00	2.30E-01	4.41E+02	1.25E+01	4.92E+00	2.76E+01	4.58E+01	7.18E+01	1.14E+02
1.40E+00	2.30E-01	4.41E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.18E+01	1.14E+02
1.49E+00	2.30E-01	4.40E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.18E+01	1.14E+02
1.57E+00	2.30E-01	4.40E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.18E+01	1.14E+02
1.66E+00	2.30E-01	4.39E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.14E+02
1.76E+00	2.31E-01	4.39E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.14E+02
1.86E+00	2.31E-01	4.38E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.14E+02
1.97E+00	2.31E-01	4.37E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.14E+02
2.09E+00	2.31E-01	4.37E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.13E+02
2.21E+00	2.31E-01	4.36E+02	1.25E+01	4.92E+00	2.76E+01	4.57E+01	7.17E+01	1.13E+02
2.34E+00	2.31E-01	4.35E+02	1.25E+01	4.92E+00	2.75E+01	4.57E+01	7.16E+01	1.13E+02
2.47E+00	2.31E-01	4.34E+02	1.25E+01	4.92E+00	2.75E+01	4.57E+01	7.16E+01	1.13E+02
2.62E+00	2.31E-01	4.34E+02	1.25E+01	4.92E+00	2.75E+01	4.57E+01	7.16E+01	1.13E+02
2.77E+00	2.31E-01	4.33E+02	1.25E+01	4.92E+00	2.75E+01	4.56E+01	7.16E+01	1.13E+02
2.93E+00	2.31E-01	4.32E+02	1.25E+01	4.92E+00	2.75E+01	4.56E+01	7.15E+01	1.13E+02
3.00E+00	2.31E-01	4.32E+02	1.25E+01	4.92E+00	2.75E+01	4.56E+01	7.15E+01	1.13E+02
3.10E+00	2.32E-01	4.31E+02	1.25E+01	4.92E+00	2.75E+01	4.56E+01	7.15E+01	1.13E+02
3.28E+00	2.32E-01	4.30E+02	1.24E+01	4.92E+00	2.75E+01	4.56E+01	7.15E+01	1.13E+02
3.48E+00	2.32E-01	4.29E+02	1.24E+01	4.92E+00	2.75E+01	4.56E+01	7.14E+01	1.13E+02
3.68E+00	2.32E-01	4.28E+02	1.24E+01	4.92E+00	2.75E+01	4.56E+01	7.14E+01	1.13E+02
3.89E+00	2.32E-01	4.27E+02	1.24E+01	4.92E+00	2.75E+01	4.56E+01	7.14E+01	1.13E+02
4.12E+00	2.32E-01	4.25E+02	1.24E+01	4.92E+00	2.75E+01	4.56E+01	7.13E+01	1.13E+02
4.36E+00	2.32E-01	4.24E+02	1.24E+01	4.92E+00	2.75E+01	4.55E+01	7.13E+01	1.13E+02
4.61E+00	2.33E-01	4.23E+02	1.24E+01	4.92E+00	2.75E+01	4.55E+01	7.12E+01	1.13E+02
4.88E+00	2.33E-01	4.21E+02	1.24E+01	4.92E+00	2.75E+01	4.55E+01	7.12E+01	1.12E+02
5.17E+00	2.33E-01	4.20E+02	1.24E+01	4.92E+00	2.75E+01	4.55E+01	7.12E+01	1.12E+02
5.47E+00	2.33E-01	4.18E+02	1.24E+01	4.92E+00	2.75E+01	4.55E+01	7.11E+01	1.12E+02
5.78E+00	2.33E-01	4.16E+02	1.24E+01	4.92E+00	2.75E+01	4.54E+01	7.10E+01	1.12E+02
6.12E+00	2.34E-01	4.14E+02	1.24E+01	4.92E+00	2.75E+01	4.54E+01	7.10E+01	1.12E+02
6.48E+00	2.34E-01	4.12E+02	1.24E+01	4.92E+00	2.75E+01	4.54E+01	7.09E+01	1.12E+02
6.86E+00	2.34E-01	4.10E+02	1.23E+01	4.92E+00	2.75E+01	4.54E+01	7.09E+01	1.12E+02
7.26E+00	2.34E-01	4.08E+02	1.23E+01	4.92E+00	2.75E+01	4.53E+01	7.08E+01	1.12E+02
7.68E+00	2.35E-01	4.06E+02	1.23E+01	4.92E+00	2.75E+01	4.53E+01	7.07E+01	1.12E+02
8.13E+00	2.35E-01	4.04E+02	1.23E+01	4.92E+00	2.74E+01	4.53E+01	7.07E+01	1.11E+02
8.60E+00	2.35E-01	4.01E+02	1.23E+01	4.92E+00	2.74E+01	4.52E+01	7.06E+01	1.11E+02
9.10E+00	2.36E-01	3.99E+02	1.23E+01	4.92E+00	2.74E+01	4.52E+01	7.05E+01	1.11E+02
9.63E+00	2.36E-01	3.96E+02	1.23E+01	4.92E+00	2.74E+01	4.52E+01	7.04E+01	1.11E+02
1.00E+01	2.36E-01	3.94E+02	1.23E+01	4.92E+00	2.74E+01	4.51E+01	7.03E+01	1.11E+02
1.02E+01	2.37E-01	3.93E+02	1.23E+01	4.92E+00	2.74E+01	4.51E+01	7.03E+01	1.11E+02
1.08E+01	2.37E-01	3.90E+02	1.22E+01	4.92E+00	2.74E+01	4.51E+01	7.02E+01	1.10E+02
1.14E+01	2.37E-01	3.87E+02	1.22E+01	4.92E+00	2.74E+01	4.50E+01	7.01E+01	1.10E+02
1.21E+01	2.38E-01	3.83E+02	1.22E+01	4.92E+00	2.74E+01	4.50E+01	7.00E+01	1.10E+02
1.28E+01	2.38E-01	3.80E+02	1.22E+01	4.92E+00	2.74E+01	4.49E+01	6.99E+01	1.10E+02
1.35E+01	2.39E-01	3.76E+02	1.22E+01	4.92E+00	2.73E+01	4.49E+01	6.98E+01	1.10E+02
1.43E+01	2.39E-01	3.72E+02	1.21E+01	4.92E+00	2.73E+01	4.48E+01	6.96E+01	1.09E+02
1.51E+01	2.40E-01	3.68E+02	1.21E+01	4.92E+00	2.73E+01	4.48E+01	6.95E+01	1.09E+02
1.60E+01	2.41E-01	3.64E+02	1.21E+01	4.92E+00	2.73E+01	4.47E+01	6.93E+01	1.09E+02
1.70E+01	2.41E-01	3.60E+02	1.21E+01	4.92E+00	2.73E+01	4.47E+01	6.92E+01	1.08E+02
1.80E+01	2.42E-01	3.55E+02	1.20E+01	4.92E+00	2.72E+01	4.46E+01	6.90E+01	1.08E+02
1.90E+01	2.43E-01	3.50E+02	1.20E+01	4.92E+00	2.72E+01	4.45E+01	6.89E+01	1.08E+02

2.01E+01 2.44E-01 3.45E+02 1.20E+01 4.92E+00 2.72E+01 4.44E+01 6.87E+01 1.07E+02

2.13E+01 2.44E-01 3.40E+02 1.20E+01 4.92E+00 2.71E+01 4.44E+01 6.85E+01 1.07E+02

2.25E+01 2.45E-01 3.35E+02 1.19E+01 4.92E+00 2.71E+01 4.43E+01 6.83E+01 1.07E+02

2.38E+01 2.46E-01 3.29E+02 1.19E+01 4.92E+00 2.71E+01 4.42E+01 6.81E+01 1.06E+02

2.52E+01 2.47E-01 3.23E+02 1.19E+01 4.92E+00 2.71E+01 4.41E+01 6.78E+01 1.06E+02

2.67E+01 2.48E-01 3.17E+02 1.18E+01 4.92E+00 2.71E+01 4.40E+01 6.76E+01 1.05E+02

2.82E+01 2.49E-01 3.11E+02 1.18E+01 4.92E+00 2.70E+01 4.39E+01 6.74E+01 1.05E+02

2.99E+01 2.51E-01 3.04E+02 1.17E+01 4.92E+00 2.70E+01 4.38E+01 6.71E+01 1.04E+02

3.00E+01 2.51E-01 3.04E+02 1.17E+01 4.92E+00 2.70E+01 4.38E+01 6.71E+01 1.04E+02

3.16E+01 2.52E-01 2.97E+02 1.17E+01 4.92E+00 2.70E+01 4.37E+01 6.68E+01 1.04E+02

3.35E+01 2.53E-01 2.90E+02 1.17E+01 4.92E+00 2.69E+01 4.35E+01 6.65E+01 1.03E+02

3.54E+01 2.54E-01 2.83E+02 1.16E+01 4.92E+00 2.69E+01 4.34E+01 6.62E+01 1.02E+02

3.75E+01 2.56E-01 2.76E+02 1.16E+01 4.92E+00 2.69E+01 4.33E+01 6.59E+01 1.02E+02

3.97E+01 2.57E-01 2.68E+02 1.15E+01 4.92E+00 2.68E+01 4.31E+01 6.56E+01 1.01E+02

4.20E+01 2.59E-01 2.60E+02 1.15E+01 4.92E+00 2.68E+01 4.30E+01 6.52E+01 1.00E+02

4.44E+01 2.61E-01 2.52E+02 1.14E+01 4.92E+00 2.68E+01 4.28E+01 6.48E+01 9.96E+01

4.70E+01 2.63E-01 2.43E+02 1.14E+01 4.92E+00 2.67E+01 4.27E+01 6.44E+01 9.88E+01

4.97E+01 2.65E-01 2.35E+02 1.13E+01 4.92E+00 2.67E+01 4.25E+01 6.40E+01 9.79E+01

5.26E+01 2.67E-01 2.26E+02 1.12E+01 4.92E+00 2.66E+01 4.22E+01 6.36E+01 9.71E+01

5.57E+01 2.69E-01 2.17E+02 1.12E+01 4.92E+00 2.66E+01 4.20E+01 6.31E+01 9.61E+01

5.90E+01 2.71E-01 2.08E+02 1.11E+01 4.93E+00 2.65E+01 4.17E+01 6.26E+01 9.52E+01

6.24E+01 2.74E-01 1.99E+02 1.10E+01 4.93E+00 2.65E+01 4.15E+01 6.21E+01 9.42E+01

6.60E+01 5.47E-02 1.90E+02 1.10E+01 4.94E+00 2.64E+01 4.12E+01 6.16E+01 9.31E+01

6.99E+01 0.00E+00 1.81E+02 1.09E+01 4.93E+00 2.63E+01 4.09E+01 6.10E+01 9.20E+01

7.39E+01 0.00E+00 1.72E+02 1.08E+01 4.94E+00 2.62E+01 4.06E+01 6.04E+01 9.09E+01

7.82E+01 0.00E+00 1.62E+02 1.07E+01 4.94E+00 2.62E+01 4.03E+01 5.98E+01 8.97E+01

8.28E+01 0.00E+00 1.53E+02 1.07E+01 4.94E+00 2.61E+01 3.99E+01 5.92E+01 8.84E+01

8.76E+01 0.00E+00 1.44E+02 1.06E+01 4.94E+00 2.60E+01 3.96E+01 5.85E+01 8.71E+01

9.27E+01 0.00E+00 1.34E+02 1.05E+01 4.95E+00 2.59E+01 3.94E+01 5.78E+01 8.54E+01

9.81E+01 0.00E+00 1.25E+02 1.04E+01 4.96E+00 2.57E+01 3.91E+01 5.71E+01 8.11E+01

1.00E+02 0.00E+00 1.22E+02 1.04E+01 4.96E+00 2.57E+01 3.90E+01 5.68E+01 8.08E+01

1.04E+02 0.00E+00 1.16E+02 1.03E+01 4.96E+00 2.56E+01 3.88E+01 5.63E+01 8.01E+01

1.10E+02 0.00E+00 1.07E+02 1.02E+01 4.97E+00 2.54E+01 3.85E+01 5.55E+01 7.90E+01

1.16E+02 0.00E+00 9.89E+01 1.01E+01 4.98E+00 2.53E+01 3.81E+01 5.46E+01 7.74E+01

1.23E+02 0.00E+00 9.28E+01 1.00E+01 4.98E+00 2.51E+01 3.78E+01 5.38E+01 7.43E+01

1.30E+02 0.00E+00 9.10E+01 9.95E+00 4.99E+00 2.50E+01 3.74E+01 5.29E+01 7.11E+01

1.38E+02 0.00E+00 8.91E+01 9.85E+00 5.00E+00 2.48E+01 3.71E+01 5.19E+01 6.80E+01

1.46E+02 0.00E+00 8.71E+01 9.75E+00 5.00E+00 2.46E+01 3.66E+01 5.06E+01 6.48E+01

1.54E+02 0.00E+00 8.51E+01 9.65E+00 5.00E+00 2.44E+01 3.61E+01 4.98E+01 6.03E+01

1.63E+02 0.00E+00 8.30E+01 9.54E+00 5.00E+00 2.42E+01 3.56E+01 4.89E+01 5.82E+01

1.73E+02 0.00E+00 8.09E+01 9.43E+00 5.00E+00 2.40E+01 3.51E+01 4.74E+01 5.50E+01

1.83E+02 0.00E+00 7.87E+01 9.32E+00 5.00E+00 2.38E+01 3.37E+01 4.50E+01 5.25E+01

1.94E+02 0.00E+00 7.64E+01 9.21E+00 5.01E+00 2.35E+01 3.34E+01 4.39E+01 5.12E+01

2.05E+02 0.00E+00 7.40E+01 9.10E+00 5.00E+00 2.33E+01 3.25E+01 4.27E+01 4.98E+01

2.17E+02 0.00E+00 7.16E+01 8.98E+00 4.98E+00 2.30E+01 3.21E+01 4.13E+01 4.79E+01

2.29E+02 0.00E+00 6.92E+01 8.86E+00 4.97E+00 2.27E+01 3.17E+01 3.94E+01 4.69E+01

2.43E+02 0.00E+00 6.67E+01 8.74E+00 4.98E+00 2.20E+01 3.13E+01 3.81E+01 4.54E+01

2.57E+02 0.00E+00 6.41E+01 8.61E+00 4.98E+00 2.17E+01 3.06E+01 3.72E+01 4.41E+01

2.72E+02 0.00E+00 6.15E+01 8.48E+00 4.98E+00 2.14E+01 2.93E+01 3.64E+01 4.33E+01

2.88E+02 0.00E+00 5.89E+01 8.35E+00 4.96E+00 2.11E+01 2.88E+01 3.54E+01 4.25E+01

3.00E+02 0.00E+00 5.70E+01 8.25E+00 4.95E+00 2.07E+01 2.80E+01 3.45E+01 4.18E+01

3.05E+02 0.00E+00 5.62E+01 8.21E+00 4.94E+00 2.06E+01 2.77E+01 3.42E+01 4.16E+01

3.22E+02 0.00E+00 5.36E+01 8.07E+00 4.89E+00 2.00E+01 2.69E+01 3.23E+01 4.07E+01

3.41E+02 0.00E+00 5.09E+01 7.93E+00 4.86E+00 1.95E+01 2.56E+01 3.11E+01 3.97E+01

3.61E+02 0.00E+00 4.81E+01 7.78E+00 4.80E+00 1.87E+01 2.49E+01 2.99E+01 3.74E+01

3.82E+02 0.00E+00 4.54E+01 7.62E+00 4.69E+00 1.84E+01 2.43E+01 2.91E+01 3.50E+01

4.04E+02 0.00E+00 4.27E+01 7.46E+00 4.66E+00 1.79E+01 2.30E+01 2.82E+01 3.32E+01

4.28E+02 0.00E+00 4.00E+01 7.30E+00 4.64E+00 1.72E+01 2.25E+01 2.69E+01 3.23E+01

4.53E+02 0.00E+00 3.74E+01 7.13E+00 4.63E+00 1.68E+01 2.20E+01 2.58E+01 3.12E+01

4.79E+02 0.00E+00 3.52E+01 6.96E+00 4.60E+00 1.63E+01 2.14E+01 2.49E+01 3.02E+01

5.07E+02 0.00E+00 3.32E+01 6.79E+00 4.57E+00 1.57E+01 2.06E+01 2.38E+01 2.92E+01

5.36E+02 0.00E+00 3.15E+01 6.61E+00 4.55E+00 1.51E+01 2.00E+01 2.23E+01 2.81E+01

5.68E+02 0.00E+00 3.03E+01 6.43E+00 4.51E+00 1.47E+01 1.92E+01 2.13E+01 2.70E+01

6.01E+02 0.00E+00 2.91E+01 6.24E+00 4.47E+00 1.43E+01 1.80E+01 2.00E+01 2.49E+01

6.36E+02 0.00E+00 2.79E+01 6.05E+00 4.35E+00 1.40E+01 1.69E+01 1.92E+01 2.35E+01

6.73E+02 0.00E+00 2.67E+01 5.85E+00 4.23E+00 1.33E+01 1.61E+01 1.87E+01 2.26E+01

7.12E+02 0.00E+00 2.51E+01 5.66E+00 4.15E+00 1.24E+01 1.52E+01 1.80E+01 2.13E+01

7.53E+02 0.00E+00 2.37E+01 5.46E+00 4.06E+00 1.19E+01 1.45E+01 1.75E+01 2.04E+01

7.97E+02 0.00E+00 2.23E+01 5.26E+00 3.93E+00 1.13E+01 1.36E+01 1.69E+01 1.94E+01

8.44E+02 0.00E+00 2.10E+01 5.06E+00 3.82E+00 1.09E+01 1.31E+01 1.59E+01 1.83E+01

8.93E+02 0.00E+00 1.97E+01 4.85E+00 3.67E+00 1.04E+01 1.24E+01 1.53E+01 1.70E+01

9.45E+02 0.00E+00 1.90E+01 4.65E+00 3.54E+00 9.81E+00 1.18E+01 1.46E+01 1.61E+01

1.00E+03 0.00E+00 1.84E+01 4.43E+00 3.44E+00 9.51E+00 1.12E+01 1.39E+01 1.52E+01

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.RAD

Summary of dose at graphical times, reptition 3

Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.86E-01	3.73E+02	1.24E+01	5.06E+00	2.72E+01	4.54E+01	7.10E+01	1.29E+02
1.00E+00	1.86E-01	3.68E+02	1.24E+01	5.06E+00	2.72E+01	4.54E+01	7.08E+01	1.29E+02
1.06E+00	1.86E-01	3.68E+02	1.24E+01	5.06E+00	2.71E+01	4.54E+01	7.08E+01	1.29E+02
1.12E+00	1.86E-01	3.68E+02	1.24E+01	5.06E+00	2.71E+01	4.54E+01	7.08E+01	1.29E+02
1.19E+00	1.86E-01	3.67E+02	1.24E+01	5.06E+00	2.71E+01	4.54E+01	7.07E+01	1.29E+02
1.25E+00	1.86E-01	3.67E+02	1.24E+01	5.06E+00	2.71E+01	4.54E+01	7.07E+01	1.29E+02
1.33E+00	1.86E-01	3.67E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.07E+01	1.29E+02
1.40E+00	1.86E-01	3.66E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.07E+01	1.29E+02
1.49E+00	1.86E-01	3.66E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.07E+01	1.29E+02
1.57E+00	1.86E-01	3.66E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.07E+01	1.28E+02
1.66E+00	1.86E-01	3.65E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.07E+01	1.28E+02
1.76E+00	1.86E-01	3.65E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.06E+01	1.28E+02
1.86E+00	1.86E-01	3.64E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.06E+01	1.28E+02
1.97E+00	1.86E-01	3.64E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.06E+01	1.28E+02
2.09E+00	1.86E-01	3.63E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.06E+01	1.28E+02
2.21E+00	1.86E-01	3.63E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.06E+01	1.28E+02
2.34E+00	1.86E-01	3.62E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.05E+01	1.28E+02
2.47E+00	1.86E-01	3.61E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.05E+01	1.28E+02
2.62E+00	1.86E-01	3.61E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.05E+01	1.28E+02
2.77E+00	1.86E-01	3.60E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.05E+01	1.28E+02
2.93E+00	1.86E-01	3.59E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.04E+01	1.28E+02
3.00E+00	1.86E-01	3.59E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.04E+01	1.28E+02
3.10E+00	1.86E-01	3.59E+02	1.24E+01	5.06E+00	2.71E+01	4.53E+01	7.04E+01	1.28E+02
3.28E+00	1.86E-01	3.58E+02	1.24E+01	5.06E+00	2.71E+01	4.52E+01	7.04E+01	1.28E+02
3.48E+00	1.86E-01	3.57E+02	1.24E+01	5.06E+00	2.71E+01	4.52E+01	7.03E+01	1.27E+02
3.68E+00	1.86E-01	3.56E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.03E+01	1.27E+02
3.89E+00	1.86E-01	3.55E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.03E+01	1.27E+02
4.12E+00	1.86E-01	3.54E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.02E+01	1.27E+02
4.36E+00	1.86E-01	3.53E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.02E+01	1.27E+02
4.61E+00	1.86E-01	3.52E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.01E+01	1.27E+02
4.88E+00	1.86E-01	3.51E+02	1.23E+01	5.06E+00	2.71E+01	4.52E+01	7.01E+01	1.27E+02
5.17E+00	1.86E-01	3.50E+02	1.23E+01	5.06E+00	2.71E+01	4.51E+01	7.00E+01	1.27E+02
5.47E+00	1.86E-01	3.48E+02	1.23E+01	5.06E+00	2.71E+01	4.51E+01	7.00E+01	1.26E+02
5.78E+00	1.86E-01	3.47E+02	1.23E+01	5.06E+00	2.71E+01	4.51E+01	6.99E+01	1.26E+02
6.12E+00	1.86E-01	3.45E+02	1.23E+01	5.06E+00	2.71E+01	4.51E+01	6.98E+01	1.26E+02
6.48E+00	1.86E-01	3.44E+02	1.23E+01	5.06E+00	2.70E+01	4.51E+01	6.98E+01	1.26E+02
6.86E+00	1.86E-01	3.42E+02	1.23E+01	5.06E+00	2.70E+01	4.51E+01	6.97E+01	1.26E+02
7.26E+00	1.86E-01	3.41E+02	1.23E+01	5.06E+00	2.70E+01	4.50E+01	6.96E+01	1.25E+02
7.68E+00	1.86E-01	3.39E+02	1.22E+01	5.06E+00	2.70E+01	4.50E+01	6.96E+01	1.25E+02
8.13E+00	1.86E-01	3.37E+02	1.22E+01	5.06E+00	2.70E+01	4.50E+01	6.95E+01	1.25E+02
8.60E+00	1.86E-01	3.35E+02	1.22E+01	5.05E+00	2.70E+01	4.50E+01	6.94E+01	1.25E+02
9.10E+00	1.86E-01	3.33E+02	1.22E+01	5.05E+00	2.70E+01	4.49E+01	6.93E+01	1.25E+02
9.63E+00	1.86E-01	3.31E+02	1.22E+01	5.05E+00	2.70E+01	4.49E+01	6.92E+01	1.24E+02
1.00E+01	1.86E-01	3.29E+02	1.22E+01	5.05E+00	2.70E+01	4.49E+01	6.91E+01	1.24E+02
1.02E+01	1.86E-01	3.28E+02	1.22E+01	5.05E+00	2.70E+01	4.49E+01	6.91E+01	1.24E+02
1.08E+01	1.86E-01	3.26E+02	1.22E+01	5.05E+00	2.70E+01	4.49E+01	6.90E+01	1.24E+02
1.14E+01	1.86E-01	3.23E+02	1.21E+01	5.05E+00	2.70E+01	4.48E+01	6.89E+01	1.23E+02
1.21E+01	1.86E-01	3.21E+02	1.21E+01	5.05E+00	2.69E+01	4.48E+01	6.88E+01	1.23E+02
1.28E+01	1.86E-01	3.18E+02	1.21E+01	5.05E+00	2.69E+01	4.47E+01	6.87E+01	1.23E+02
1.35E+01	1.86E-01	3.15E+02	1.21E+01	5.05E+00	2.69E+01	4.47E+01	6.85E+01	1.22E+02
1.43E+01	1.86E-01	3.12E+02	1.21E+01	5.05E+00	2.69E+01	4.47E+01	6.84E+01	1.22E+02
1.51E+01	1.86E-01	3.09E+02	1.20E+01	5.05E+00	2.69E+01	4.46E+01	6.82E+01	1.21E+02
1.60E+01	1.86E-01	3.05E+02	1.20E+01	5.05E+00	2.69E+01	4.46E+01	6.81E+01	1.21E+02
1.70E+01	1.86E-01	3.02E+02	1.20E+01	5.05E+00	2.69E+01	4.45E+01	6.79E+01	1.21E+02
1.80E+01	1.86E-01	2.98E+02	1.20E+01	5.05E+00	2.68E+01	4.45E+01	6.77E+01	1.20E+02
1.90E+01	1.86E-01	2.94E+02	1.20E+01	5.05E+00	2.68E+01	4.44E+01	6.76E+01	1.20E+02

2.01E+01 1.86E-01 2.90E+02 1.19E+01 5.05E+00 2.68E+01 4.44E+01 6.74E+01 1.19E+02

2.13E+01 1.86E-01 2.86E+02 1.19E+01 5.05E+00 2.68E+01 4.43E+01 6.72E+01 1.18E+02

2.25E+01 1.86E-01 2.81E+02 1.19E+01 5.05E+00 2.67E+01 4.42E+01 6.69E+01 1.18E+02

2.38E+01 1.86E-01 2.77E+02 1.18E+01 5.05E+00 2.67E+01 4.42E+01 6.67E+01 1.17E+02

2.52E+01 1.86E-01 2.72E+02 1.18E+01 5.05E+00 2.67E+01 4.41E+01 6.65E+01 1.16E+02

2.67E+01 1.86E-01 2.67E+02 1.18E+01 5.04E+00 2.67E+01 4.40E+01 6.62E+01 1.16E+02

2.82E+01 1.86E-01 2.62E+02 1.17E+01 5.04E+00 2.66E+01 4.39E+01 6.60E+01 1.15E+02

2.99E+01 1.86E-01 2.57E+02 1.17E+01 5.04E+00 2.66E+01 4.38E+01 6.57E+01 1.14E+02

3.00E+01 1.86E-01 2.56E+02 1.17E+01 5.04E+00 2.66E+01 4.38E+01 6.57E+01 1.14E+02

3.16E+01 1.86E-01 2.51E+02 1.16E+01 5.04E+00 2.66E+01 4.37E+01 6.54E+01 1.13E+02

3.35E+01 1.86E-01 2.45E+02 1.16E+01 5.04E+00 2.65E+01 4.36E+01 6.51E+01 1.13E+02

3.54E+01 1.86E-01 2.40E+02 1.16E+01 5.04E+00 2.65E+01 4.35E+01 6.47E+01 1.12E+02

3.75E+01 1.86E-01 2.33E+02 1.15E+01 5.04E+00 2.65E+01 4.34E+01 6.44E+01 1.11E+02

3.97E+01 1.86E-01 2.27E+02 1.15E+01 5.04E+00 2.64E+01 4.33E+01 6.40E+01 1.10E+02

4.20E+01 1.86E-01 2.21E+02 1.14E+01 5.04E+00 2.64E+01 4.32E+01 6.36E+01 1.09E+02

4.44E+01 1.86E-01 2.14E+02 1.14E+01 5.03E+00 2.63E+01 4.31E+01 6.32E+01 1.08E+02

4.70E+01 1.86E-01 2.07E+02 1.13E+01 5.03E+00 2.63E+01 4.29E+01 6.28E+01 1.06E+02

4.97E+01 1.86E-01 2.00E+02 1.13E+01 5.03E+00 2.63E+01 4.28E+01 6.24E+01 1.05E+02

5.26E+01 1.86E-01 1.93E+02 1.12E+01 5.03E+00 2.62E+01 4.26E+01 6.19E+01 1.04E+02

5.57E+01 1.86E-01 1.86E+02 1.11E+01 5.03E+00 2.61E+01 4.25E+01 6.15E+01 1.03E+02

5.90E+01 1.89E-01 1.79E+02 1.11E+01 5.03E+00 2.61E+01 4.23E+01 6.11E+01 1.01E+02

6.24E+01 1.95E-01 1.71E+02 1.10E+01 5.02E+00 2.60E+01 4.21E+01 6.07E+01 9.98E+01

6.60E+01 2.01E-01 1.63E+02 1.09E+01 5.02E+00 2.60E+01 4.19E+01 6.02E+01 9.83E+01

6.99E+01 2.08E-01 1.56E+02 1.09E+01 5.02E+00 2.59E+01 4.17E+01 5.98E+01 9.68E+01

7.39E+01 2.16E-01 1.48E+02 1.08E+01 5.02E+00 2.58E+01 4.15E+01 5.93E+01 9.51E+01

7.82E+01 2.23E-01 1.40E+02 1.07E+01 5.01E+00 2.56E+01 4.13E+01 5.88E+01 9.19E+01

8.28E+01 2.31E-01 1.33E+02 1.06E+01 5.01E+00 2.55E+01 4.09E+01 5.81E+01 9.01E+01

8.76E+01 2.38E-01 1.25E+02 1.05E+01 5.01E+00 2.54E+01 4.04E+01 5.72E+01 8.83E+01

9.27E+01 2.40E-01 1.17E+02 1.05E+01 5.00E+00 2.53E+01 4.00E+01 5.62E+01 8.64E+01

9.81E+01 2.42E-01 1.09E+02 1.04E+01 5.00E+00 2.51E+01 3.95E+01 5.51E+01 8.45E+01

1.00E+02 2.42E-01 1.07E+02 1.03E+01 5.00E+00 2.51E+01 3.93E+01 5.48E+01 8.39E+01

1.04E+02 2.44E-01 1.05E+02 1.03E+01 4.99E+00 2.50E+01 3.90E+01 5.41E+01 8.26E+01

1.10E+02 2.46E-01 1.02E+02 1.02E+01 4.99E+00 2.49E+01 3.84E+01 5.34E+01 8.05E+01

1.16E+02 2.49E-01 9.93E+01 1.01E+01 4.98E+00 2.47E+01 3.81E+01 5.26E+01 7.84E+01

1.23E+02 2.52E-01 9.64E+01 1.00E+01 4.98E+00 2.46E+01 3.79E+01 5.18E+01 7.63E+01

1.30E+02 2.55E-01 9.34E+01 9.91E+00 4.97E+00 2.44E+01 3.76E+01 5.07E+01 7.33E+01

1.38E+02 2.58E-01 9.03E+01 9.81E+00 4.97E+00 2.42E+01 3.73E+01 4.85E+01 6.96E+01

1.46E+02 2.61E-01 8.71E+01 9.71E+00 4.96E+00 2.39E+01 3.67E+01 4.78E+01 6.81E+01

1.54E+02 2.64E-01 8.39E+01 9.60E+00 4.95E+00 2.37E+01 3.62E+01 4.71E+01 6.66E+01

1.63E+02 2.68E-01 8.06E+01 9.50E+00 4.95E+00 2.34E+01 3.56E+01 4.64E+01 6.45E+01

1.73E+02 2.72E-01 7.73E+01 9.39E+00 4.95E+00 2.32E+01 3.49E+01 4.45E+01 6.20E+01

1.83E+02 2.76E-01 7.39E+01 9.28E+00 4.94E+00 2.30E+01 3.40E+01 4.36E+01 5.95E+01

1.94E+02 2.80E-01 7.05E+01 9.16E+00 4.93E+00 2.29E+01 3.32E+01 4.26E+01 5.70E+01

2.05E+02 2.84E-01 6.70E+01 9.05E+00 4.94E+00 2.26E+01 3.26E+01 4.15E+01 5.52E+01

2.17E+02 2.89E-01 6.36E+01 8.93E+00 4.94E+00 2.16E+01 3.21E+01 4.05E+01 5.26E+01

2.29E+02 2.94E-01 6.01E+01 8.80E+00 4.94E+00 2.13E+01 3.14E+01 3.94E+01 4.99E+01

2.43E+02 2.99E-01 5.66E+01 8.67E+00 4.91E+00 2.11E+01 3.06E+01 3.82E+01 4.72E+01

2.57E+02 0.00E+00 5.32E+01 8.54E+00 4.90E+00 2.08E+01 2.98E+01 3.71E+01 4.46E+01

2.72E+02 0.00E+00 4.97E+01 8.41E+00 4.89E+00 2.05E+01 2.87E+01 3.58E+01 4.36E+01

2.88E+02 0.00E+00 4.67E+01 8.27E+00 4.90E+00 2.02E+01 2.80E+01 3.43E+01 4.26E+01

3.00E+02 0.00E+00 4.54E+01 8.17E+00 4.91E+00 1.99E+01 2.76E+01 3.32E+01 4.12E+01

3.05E+02 0.00E+00 4.49E+01 8.13E+00 4.90E+00 1.98E+01 2.74E+01 3.28E+01 4.05E+01

3.22E+02 0.00E+00 4.33E+01 7.99E+00 4.87E+00 1.95E+01 2.64E+01 3.15E+01 3.77E+01

3.41E+02 0.00E+00 4.15E+01 7.84E+00 4.85E+00 1.91E+01 2.55E+01 3.08E+01 3.66E+01

3.61E+02 0.00E+00 3.94E+01 7.68E+00 4.82E+00 1.86E+01 2.46E+01 2.88E+01 3.35E+01

3.82E+02 0.00E+00 3.74E+01 7.52E+00 4.79E+00 1.82E+01 2.40E+01 2.71E+01 3.05E+01

4.04E+02 0.00E+00 3.53E+01 7.36E+00 4.78E+00 1.77E+01 2.28E+01 2.61E+01 2.92E+01

4.28E+02 0.00E+00 3.33E+01 7.20E+00 4.76E+00 1.75E+01 2.18E+01 2.45E+01 2.86E+01

4.53E+02 0.00E+00 3.16E+01 7.03E+00 4.72E+00 1.72E+01 2.11E+01 2.33E+01 2.79E+01

4.79E+02 0.00E+00 3.05E+01 6.85E+00 4.70E+00 1.66E+01 1.98E+01 2.25E+01 2.73E+01

5.07E+02 0.00E+00 2.87E+01 6.67E+00 4.65E+00 1.61E+01 1.91E+01 2.12E+01 2.60E+01

5.36E+02 0.00E+00 2.67E+01 6.49E+00 4.61E+00 1.53E+01 1.77E+01 1.99E+01 2.40E+01

5.68E+02 0.00E+00 2.54E+01 6.31E+00 4.54E+00 1.44E+01 1.72E+01 1.91E+01 2.21E+01

6.01E+02 0.00E+00 2.47E+01 6.12E+00 4.46E+00 1.39E+01 1.65E+01 1.85E+01 2.10E+01

6.36E+02 0.00E+00 2.39E+01 5.94E+00 4.40E+00 1.32E+01 1.57E+01 1.76E+01 1.94E+01

6.73E+02 0.00E+00 2.32E+01 5.74E+00 4.25E+00 1.29E+01 1.52E+01 1.65E+01 1.80E+01

7.12E+02 0.00E+00 2.24E+01 5.55E+00 4.16E+00 1.24E+01 1.45E+01 1.55E+01 1.74E+01

7.53E+02 0.00E+00 2.16E+01 5.35E+00 4.13E+00 1.17E+01 1.40E+01 1.48E+01 1.68E+01

7.97E+02 0.00E+00 2.08E+01 5.14E+00 4.01E+00 1.09E+01 1.31E+01 1.42E+01 1.62E+01

8.44E+02 0.00E+00 2.00E+01 4.92E+00 3.85E+00 1.05E+01 1.23E+01 1.34E+01 1.53E+01

8.93E+02 0.00E+00 1.92E+01 4.71E+00 3.70E+00 9.98E+00 1.16E+01 1.29E+01 1.44E+01

9.45E+02 0.00E+00 1.83E+01 4.51E+00 3.57E+00 9.43E+00 1.10E+01 1.25E+01 1.41E+01

1.00E+03 0.00E+00 1.75E+01 4.31E+00 3.42E+00 9.00E+00 1.03E+01 1.19E+01 1.37E+01

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-239.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	1.206E+01
2	0.000E+00	1.254E+01
3	0.000E+00	1.244E+01

Title : RESRAD Default Parameters

Input File : FCS BFM INSITU UA PU-239.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	11	-0.02	11	-0.02	12	-0.02	12	0.00
Contaminated zone b parameter	3	-0.08	3	-0.07	17	0.00	17	0.00
Evapotranspiration coefficient	6	-0.04	6	-0.04	7	0.09	7	0.01
Wind Speed	8	0.03	8	0.03	14	-0.01	14	0.00
Runoff coefficient	5	-0.06	5	-0.06	15	-0.01	15	0.00
b Parameter of Unsaturated zone 1	13	-0.01	13	-0.01	16	0.00	16	0.00
Mass loading for inhalation	16	-0.01	16	-0.01	13	0.02	13	0.00
Indoor dust filtration factor	15	0.01	15	0.01	8	0.09	8	0.01
Depth of soil mixing layer	12	-0.02	12	-0.02	9	0.05	9	0.00
Depth of roots	9	-0.03	9	-0.03	4	0.32	4	0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	0.07	4	0.06	6	-0.15	6	-0.01
Weathering removal constant of all vegetation	17	0.00	17	0.00	3	-0.42	3	-0.03
Wet foliar interception fraction of leafy vegetables	7	-0.03	7	-0.03	5	0.22	5	0.01
Humidity in air	2	0.08	2	0.08	10	0.03	10	0.00
Cover erosion rate	10	-0.02	10	-0.02	2	0.54	2	0.04
Kd of Pu-239 in Contaminated Zone	1	-0.23	1	-0.23	1	-1.00	1	-1.00
Kd of Pu-239 in Saturated Zone	14	-0.01	14	-0.01	11	-0.02	11	0.00
R-SQUARE		0.07		0.07		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 PU-239.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	7	-0.03	7	-0.03	10	0.05	10	0.00
Contaminated zone b parameter	6	0.03	6	0.03	8	-0.07	8	0.00
Evapotranspiration coefficient	17	0.00	17	0.00	13	0.03	13	0.00
Wind Speed	4	0.05	4	0.05	7	-0.07	7	0.00
Runoff coefficient	8	0.01	8	0.01	17	-0.01	17	0.00
b Parameter of Unsaturated zone 1	15	0.00	15	0.00	16	0.01	16	0.00
Mass loading for inhalation	12	-0.01	12	-0.01	15	0.01	15	0.00
Indoor dust filtration factor	5	-0.04	5	-0.04	11	-0.04	11	0.00
Depth of soil mixing layer	2	0.06	2	0.06	14	-0.02	14	0.00
Depth of roots	14	0.01	14	0.01	4	0.30	4	0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.01	9	-0.01	5	-0.19	5	-0.01
Weathering removal constant of all vegetation	13	-0.01	13	-0.01	3	-0.39	3	-0.02
Wet foliar interception fraction of leafy vegetables	3	0.05	3	0.05	6	0.18	6	0.01
Humidity in air	10	0.01	10	0.01	12	0.03	12	0.00
Cover erosion rate	11	-0.01	11	-0.01	2	0.53	2	0.04
Kd of Pu-239 in Contaminated Zone	1	-0.13	1	-0.13	1	-1.00	1	-1.00
Kd of Pu-239 in Saturated Zone	16	0.00	16	0.00	9	-0.05	9	0.00
R-SQUARE		0.03		0.03		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 PU-239.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	17	0.00	17	0.00	11	0.05	11	0.00
Contaminated zone b parameter	11	0.01	11	0.01	9	-0.07	9	0.00
Evapotranspiration coefficient	14	0.00	14	0.00	17	-0.01	17	0.00
Wind Speed	5	-0.05	5	-0.05	15	0.01	15	0.00
Runoff coefficient	3	-0.06	3	-0.06	14	0.02	14	0.00
b Parameter of Unsaturated zone 1	15	0.00	15	0.00	8	0.07	8	0.00
Mass loading for inhalation	2	0.10	2	0.09	10	-0.06	10	0.00
Indoor dust filtration factor	12	-0.01	12	-0.01	16	-0.01	16	0.00
Depth of soil mixing layer	13	-0.01	13	-0.01	13	-0.03	13	0.00
Depth of roots	4	0.06	4	0.06	4	0.34	4	0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	7	-0.04	7	-0.04	6	-0.16	6	-0.01
Weathering removal constant of all vegetation	16	0.00	16	0.00	3	-0.42	3	-0.03
Wet foliar interception fraction of leafy vegetables	9	0.02	9	0.02	5	0.21	5	0.01
Humidity in air	8	-0.03	8	-0.03	7	-0.07	7	0.00
Cover erosion rate	6	0.05	6	0.05	2	0.52	2	0.04
Kd of Pu-239 in Contaminated Zone	1	-0.19	1	-0.19	1	-1.00	1	-1.00
Kd of Pu-239 in Saturated Zone	10	-0.02	10	-0.02	12	0.04	12	0.00
R-SQUARE		0.06		0.06		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.