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Probabilistic Total Dose Summary

Nuclide  (j)	Peak  Time	Peak  Dose	DOSE(j,t), mrem/yr							
		t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-241										
Min	0.00E+00	5.34E-02	6.02E-03	8.55E-03	1.32E-02	2.64E-02	4.58E-02	4.28E-02	0.00E+00	0.00E+00
Max	2.78E+02	1.49E+01	1.49E+01	1.38E+01	1.17E+01	6.60E+00	1.81E+00	9.26E-02	6.82E-02	2.16E-02
Avg	2.70E+01	2.64E-01	2.50E-01	2.41E-01	2.24E-01	1.78E-01	1.11E-01	7.06E-02	5.28E-02	1.53E-02
Std	3.76E+01	7.10E-01	7.14E-01	6.67E-01	5.82E-01	3.66E-01	1.06E-01	8.17E-03	6.81E-03	4.04E-03
ALL										
Min	0.00E+00	5.34E-02	6.02E-03	8.55E-03	1.32E-02	2.64E-02	4.58E-02	4.28E-02	0.00E+00	0.00E+00
Max	2.78E+02	1.49E+01	1.49E+01	1.38E+01	1.17E+01	6.60E+00	1.81E+00	9.26E-02	6.82E-02	2.16E-02
Avg	2.70E+01	2.64E-01	2.50E-01	2.41E-01	2.24E-01	1.78E-01	1.11E-01	7.06E-02	5.28E-02	1.53E-02
Std	3.76E+01	7.10E-01	7.14E-01	6.67E-01	5.82E-01	3.66E-01	1.06E-01	8.17E-03	6.81E-03	4.04E-03

ALL is total dose summed for all nuclides.

Probabilistic Risk Summary

Nuclide		RISK(j,t)							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Pu-241									
Min		3.68E-09	5.94E-09	1.01E-08	2.19E-08	3.93E-08	3.89E-08	0.00E+00	0.00E+00
Max		1.23E-05	1.14E-05	9.65E-06	5.45E-06	1.47E-06	9.94E-08	7.41E-08	2.34E-08
Avg		2.03E-07	1.96E-07	1.83E-07	1.48E-07	9.69E-08	6.56E-08	5.13E-08	1.61E-08
Std		5.85E-07	5.47E-07	4.77E-07	3.00E-07	8.69E-08	9.81E-09	9.05E-09	4.17E-09
ALL									
Min		3.68E-09	5.94E-09	1.01E-08	2.19E-08	3.93E-08	3.89E-08	0.00E+00	0.00E+00
Max		1.23E-05	1.14E-05	9.65E-06	5.45E-06	1.47E-06	9.94E-08	7.41E-08	2.34E-08
Avg		2.03E-07	1.96E-07	1.83E-07	1.48E-07	9.69E-08	6.56E-08	5.13E-08	1.61E-08
Std		5.85E-07	5.47E-07	4.77E-07	3.00E-07	8.69E-08	9.81E-09	9.05E-09	4.17E-09
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ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-241									
Min		6.55E-15	6.16E-15	5.51E-15	4.37E-15	6.88E-15	2.35E-14	0.00E+00	0.00E+00
Max		8.09E-14	3.85E-12	9.65E-09	2.75E-04	5.15E-04	5.98E-04	4.35E-04	1.39E-04
Avg		7.29E-15	2.22E-14	2.15E-11	3.05E-06	1.34E-05	2.37E-05	1.02E-04	8.82E-05
Std		4.72E-15	1.87E-13	3.67E-10	2.86E-05	8.13E-05	1.16E-04	1.80E-04	6.30E-05
ΣALL									
Min		6.55E-15	6.16E-15	5.51E-15	4.37E-15	6.88E-15	2.35E-14	0.00E+00	0.00E+00
Max		8.09E-14	3.85E-12	9.65E-09	2.75E-04	5.15E-04	5.98E-04	4.35E-04	1.39E-04
Avg		7.29E-15	2.22E-14	2.15E-11	3.05E-06	1.34E-05	2.37E-05	1.02E-04	8.82E-05
Std		4.72E-15	1.87E-13	3.67E-10	2.86E-05	8.13E-05	1.16E-04	1.80E-04	6.30E-05

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-241									
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	1.11E-05	1.76E-04	3.88E-04	3.86E-04	6.46E-04	2.02E-04
Avg		0.00E+00	0.00E+00	1.24E-08	1.41E-06	3.72E-06	5.73E-06	3.09E-05	2.36E-05
Std		0.00E+00	0.00E+00	3.71E-07	1.31E-05	2.53E-05	3.04E-05	5.83E-05	2.25E-05
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U-235									
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	1.11E-05	1.76E-04	3.88E-04	3.86E-04	6.46E-04	2.02E-04
Avg		0.00E+00	0.00E+00	1.24E-08	1.41E-06	3.72E-06	5.73E-06	3.09E-05	2.36E-05
Std		0.00E+00	0.00E+00	3.71E-07	1.31E-05	2.53E-05	3.04E-05	5.83E-05	2.25E-05
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U-235 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/>									
Pu-241									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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TOTAL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-241									
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		1.32E-02	1.42E-02	1.67E-02	2.17E-02	2.60E-02	2.59E-02	1.88E-02	5.98E-03
Avg		7.95E-03	8.25E-03	8.83E-03	1.05E-02	1.31E-02	1.44E-02	1.34E-02	4.66E-03
Std		4.65E-03	4.82E-03	5.11E-03	6.04E-03	7.34E-03	7.35E-03	5.24E-03	1.69E-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		1.32E-02	1.42E-02	1.67E-02	2.17E-02	2.60E-02	2.59E-02	1.88E-02	5.98E-03
Avg		7.95E-03	8.25E-03	8.83E-03	1.05E-02	1.31E-02	1.44E-02	1.34E-02	4.66E-03
Std		4.65E-03	4.82E-03	5.11E-03	6.04E-03	7.34E-03	7.35E-03	5.24E-03	1.69E-03
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ALL is total pathway dose summed for all nuclides.



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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-241									
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		1.62E-05	1.68E-05	2.31E-05	3.04E-04	2.85E-04	2.50E-04	1.80E-04	5.77E-05
Avg		9.82E-06	9.80E-06	9.80E-06	1.35E-05	1.69E-05	1.91E-05	5.66E-05	3.95E-05
Std		5.75E-06	5.72E-06	5.68E-06	3.25E-05	4.49E-05	4.73E-05	7.31E-05	2.35E-05
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.62E-05	1.68E-05	2.31E-05	3.04E-04	2.85E-04	2.50E-04	1.80E-04	5.77E-05
Avg		9.82E-06	9.80E-06	9.80E-06	1.35E-05	1.69E-05	1.91E-05	5.66E-05	3.95E-05
Std		5.75E-06	5.72E-06	5.68E-06	3.25E-05	4.49E-05	4.73E-05	7.31E-05	2.35E-05
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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
Pu-241									
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		1.78E-06	2.10E-06	2.83E-06	3.38E-05	5.03E-05	5.47E-05	3.97E-05	1.26E-05
Avg		1.08E-06	1.22E-06	1.51E-06	2.71E-06	4.80E-06	6.31E-06	1.37E-05	8.78E-06
Std		6.29E-07	7.14E-07	8.70E-07	3.69E-06	7.83E-06	1.01E-05	1.54E-05	4.96E-06
TOTAL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.78E-06	2.10E-06	2.83E-06	3.38E-05	5.03E-05	5.47E-05	3.97E-05	1.26E-05
Avg		1.08E-06	1.22E-06	1.51E-06	2.71E-06	4.80E-06	6.31E-06	1.37E-05	8.78E-06
Std		6.29E-07	7.14E-07	8.70E-07	3.69E-06	7.83E-06	1.01E-05	1.54E-05	4.96E-06

TOTAL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-241									
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	9.35E-05	1.27E-03	1.52E-03	1.51E-03	1.09E-03	3.47E-04
Avg		0.00E+00	0.00E+00	1.04E-07	1.67E-05	4.24E-05	6.36E-05	3.12E-04	2.36E-04
Std		0.00E+00	0.00E+00	3.12E-06	1.39E-04	2.45E-04	2.96E-04	4.63E-04	1.48E-04
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	9.35E-05	1.27E-03	1.52E-03	1.51E-03	1.09E-03	3.47E-04
Avg		0.00E+00	0.00E+00	1.04E-07	1.67E-05	4.24E-05	6.36E-05	3.12E-04	2.36E-04
Std		0.00E+00	0.00E+00	3.12E-06	1.39E-04	2.45E-04	2.96E-04	4.63E-04	1.48E-04
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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/>									
Pu-241									
Min		2.72E-03	5.31E-03	1.01E-02	2.36E-02	4.36E-02	3.31E-02	0.00E+00	0.00E+00
Max		1.35E+01	1.25E+01	1.06E+01	5.99E+00	1.66E+00	6.69E-02	3.69E-02	1.18E-02
Avg		2.22E-01	2.13E-01	1.97E-01	1.53E-01	8.97E-02	5.13E-02	3.57E-02	9.33E-03
Std		6.50E-01	6.07E-01	5.30E-01	3.34E-01	9.66E-02	1.65E-03	3.03E-03	2.87E-03
<hr/>									
ΣALL									
Min		2.72E-03	5.31E-03	1.01E-02	2.36E-02	4.36E-02	3.31E-02	0.00E+00	0.00E+00
Max		1.35E+01	1.25E+01	1.06E+01	5.99E+00	1.66E+00	6.69E-02	3.69E-02	1.18E-02
Avg		2.22E-01	2.13E-01	1.97E-01	1.53E-01	8.97E-02	5.13E-02	3.57E-02	9.33E-03
Std		6.50E-01	6.07E-01	5.30E-01	3.34E-01	9.66E-02	1.65E-03	3.03E-03	2.87E-03
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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/>									
Pu-241									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Pu-241									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Pu-241									
Min		1.11E-04	2.18E-04	3.57E-04	5.93E-04	9.39E-04	9.51E-04	0.00E+00	0.00E+00
Max		1.36E+00	1.25E+00	1.06E+00	6.00E-01	1.32E-01	2.14E-02	1.43E-02	4.41E-03
Avg		2.04E-02	1.96E-02	1.81E-02	1.40E-02	8.17E-03	4.67E-03	3.25E-03	8.51E-04
Std		6.71E-02	6.27E-02	5.49E-02	3.48E-02	1.08E-02	2.75E-03	1.93E-03	5.96E-04
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ALL									
Min		1.11E-04	2.18E-04	3.57E-04	5.93E-04	9.39E-04	9.51E-04	0.00E+00	0.00E+00
Max		1.36E+00	1.25E+00	1.06E+00	6.00E-01	1.32E-01	2.14E-02	1.43E-02	4.41E-03
Avg		2.04E-02	1.96E-02	1.81E-02	1.40E-02	8.17E-03	4.67E-03	3.25E-03	8.51E-04
Std		6.71E-02	6.27E-02	5.49E-02	3.48E-02	1.08E-02	2.75E-03	1.93E-03	5.96E-04
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.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
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Pu-241									
Min		1.69E-06	2.77E-06	4.81E-06	1.05E-05	1.86E-05	2.06E-05	0.00E+00	0.00E+00
Max		1.47E-02	1.35E-02	1.15E-02	6.49E-03	1.67E-03	4.84E-05	3.11E-05	1.18E-05
Avg		2.29E-04	2.19E-04	2.00E-04	1.47E-04	7.09E-05	2.87E-05	2.12E-05	6.20E-06
Std		6.92E-04	6.46E-04	5.64E-04	3.54E-04	1.02E-04	4.41E-06	3.50E-06	2.19E-06
ALL									
Min		1.69E-06	2.77E-06	4.81E-06	1.05E-05	1.86E-05	2.06E-05	0.00E+00	0.00E+00
Max		1.47E-02	1.35E-02	1.15E-02	6.49E-03	1.67E-03	4.84E-05	3.11E-05	1.18E-05
Avg		2.29E-04	2.19E-04	2.00E-04	1.47E-04	7.09E-05	2.87E-05	2.12E-05	6.20E-06
Std		6.92E-04	6.46E-04	5.64E-04	3.54E-04	1.02E-04	4.41E-06	3.50E-06	2.19E-06
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ALL is total pathway dose summed for all nuclides.



Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.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
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Pu-241									
Min		2.35E-07	5.68E-07	1.19E-06	2.76E-06	5.07E-06	5.61E-06	0.00E+00	0.00E+00
Max		1.05E-03	9.72E-04	8.26E-04	4.68E-04	1.22E-04	1.36E-05	9.96E-06	3.21E-06
Avg		1.63E-05	1.59E-05	1.52E-05	1.34E-05	1.07E-05	8.59E-06	6.16E-06	1.64E-06
Std		4.93E-05	4.61E-05	4.02E-05	2.52E-05	7.42E-06	1.76E-06	1.36E-06	6.17E-07
ALL									
Min		2.35E-07	5.68E-07	1.19E-06	2.76E-06	5.07E-06	5.61E-06	0.00E+00	0.00E+00
Max		1.05E-03	9.72E-04	8.26E-04	4.68E-04	1.22E-04	1.36E-05	9.96E-06	3.21E-06
Avg		1.63E-05	1.59E-05	1.52E-05	1.34E-05	1.07E-05	8.59E-06	6.16E-06	1.64E-06
Std		4.93E-05	4.61E-05	4.02E-05	2.52E-05	7.42E-06	1.76E-06	1.36E-06	6.17E-07
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose(t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	1.40E-02	1.68E-02	2.25E-02	3.45E-02	5.12E-02	5.35E-02	3.84E-02	0.00E+00
0.050	1.75E-02	2.03E-02	2.55E-02	3.99E-02	5.51E-02	5.43E-02	3.96E-02	6.95E-03
0.075	2.10E-02	2.38E-02	2.88E-02	4.27E-02	5.85E-02	5.59E-02	4.19E-02	9.43E-03
0.100	2.39E-02	2.64E-02	3.11E-02	4.48E-02	6.09E-02	5.73E-02	4.34E-02	1.04E-02
0.125	2.77E-02	3.02E-02	3.43E-02	4.64E-02	6.35E-02	5.85E-02	4.55E-02	1.18E-02
0.150	3.06E-02	3.28E-02	3.64E-02	4.82E-02	6.45E-02	5.97E-02	4.69E-02	1.22E-02
0.175	3.39E-02	3.59E-02	3.95E-02	5.11E-02	6.54E-02	6.17E-02	4.82E-02	1.27E-02
0.200	3.59E-02	3.77E-02	4.17E-02	5.25E-02	6.69E-02	6.32E-02	4.90E-02	1.31E-02
0.225	3.95E-02	4.12E-02	4.46E-02	5.40E-02	6.79E-02	6.48E-02	4.98E-02	1.35E-02
0.250	4.33E-02	4.49E-02	4.78E-02	5.62E-02	6.87E-02	6.61E-02	5.05E-02	1.39E-02
0.275	4.69E-02	4.80E-02	5.04E-02	5.87E-02	6.99E-02	6.74E-02	5.11E-02	1.44E-02
0.300	5.20E-02	5.31E-02	5.52E-02	6.11E-02	7.09E-02	6.82E-02	5.13E-02	1.46E-02
0.325	5.64E-02	5.75E-02	5.92E-02	6.38E-02	7.23E-02	6.88E-02	5.17E-02	1.48E-02
0.350	5.96E-02	6.02E-02	6.21E-02	6.83E-02	7.33E-02	6.97E-02	5.20E-02	1.52E-02
0.375	6.51E-02	6.59E-02	6.71E-02	7.07E-02	7.46E-02	7.02E-02	5.24E-02	1.55E-02
0.400	7.01E-02	7.06E-02	7.15E-02	7.27E-02	7.58E-02	7.07E-02	5.27E-02	1.56E-02
0.425	7.61E-02	7.65E-02	7.67E-02	7.60E-02	7.73E-02	7.12E-02	5.31E-02	1.58E-02
0.450	8.20E-02	8.17E-02	8.15E-02	8.07E-02	7.89E-02	7.15E-02	5.35E-02	1.60E-02
0.475	8.94E-02	8.90E-02	8.80E-02	8.44E-02	8.10E-02	7.18E-02	5.37E-02	1.62E-02
0.500	9.59E-02	9.45E-02	9.25E-02	8.86E-02	8.21E-02	7.22E-02	5.42E-02	1.64E-02
0.525	1.03E-01	1.02E-01	9.96E-02	9.46E-02	8.37E-02	7.27E-02	5.44E-02	1.65E-02
0.550	1.13E-01	1.11E-01	1.07E-01	9.93E-02	8.54E-02	7.31E-02	5.47E-02	1.66E-02
0.575	1.24E-01	1.23E-01	1.18E-01	1.07E-01	8.71E-02	7.35E-02	5.50E-02	1.68E-02
0.600	1.35E-01	1.32E-01	1.28E-01	1.13E-01	9.03E-02	7.39E-02	5.53E-02	1.70E-02
0.625	1.47E-01	1.44E-01	1.37E-01	1.20E-01	9.38E-02	7.41E-02	5.56E-02	1.72E-02
0.650	1.59E-01	1.55E-01	1.47E-01	1.28E-01	9.72E-02	7.45E-02	5.59E-02	1.73E-02
0.675	1.71E-01	1.67E-01	1.60E-01	1.37E-01	1.00E-01	7.48E-02	5.62E-02	1.75E-02
0.700	1.91E-01	1.86E-01	1.76E-01	1.49E-01	1.05E-01	7.51E-02	5.65E-02	1.76E-02
0.725	2.08E-01	2.02E-01	1.91E-01	1.57E-01	1.08E-01	7.53E-02	5.68E-02	1.78E-02
0.750	2.34E-01	2.26E-01	2.12E-01	1.72E-01	1.13E-01	7.58E-02	5.73E-02	1.79E-02
0.775	2.63E-01	2.54E-01	2.38E-01	1.93E-01	1.21E-01	7.61E-02	5.76E-02	1.80E-02
0.800	2.89E-01	2.79E-01	2.61E-01	2.08E-01	1.27E-01	7.66E-02	5.78E-02	1.82E-02
0.825	3.28E-01	3.17E-01	2.95E-01	2.33E-01	1.34E-01	7.71E-02	5.83E-02	1.83E-02
0.850	3.75E-01	3.61E-01	3.35E-01	2.61E-01	1.42E-01	7.77E-02	5.86E-02	1.85E-02
0.875	4.45E-01	4.27E-01	3.95E-01	3.02E-01	1.60E-01	7.87E-02	5.90E-02	1.86E-02
0.900	5.34E-01	5.12E-01	4.71E-01	3.57E-01	1.81E-01	7.95E-02	5.94E-02	1.88E-02
0.925	6.50E-01	6.22E-01	5.69E-01	4.30E-01	2.10E-01	8.06E-02	6.00E-02	1.90E-02
0.950	8.61E-01	8.22E-01	7.52E-01	5.53E-01	2.52E-01	8.19E-02	6.08E-02	1.92E-02
0.975	1.35E+00	1.28E+00	1.16E+00	8.27E-01	3.48E-01	8.44E-02	6.19E-02	1.96E-02
1.000	1.49E+01	1.38E+01	1.17E+01	6.60E+00	1.81E+00	9.26E-02	6.82E-02	2.16E-02

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	6.32E-03	5.48E+00	2.35E-01	9.66E-02	5.26E-01	8.65E-01	1.42E+00	2.62E+00
1.00E+00	8.87E-03	5.15E+00	2.27E-01	9.61E-02	5.05E-01	8.27E-01	1.36E+00	2.49E+00
1.06E+00	9.02E-03	5.13E+00	2.27E-01	9.60E-02	5.03E-01	8.25E-01	1.35E+00	2.48E+00
1.12E+00	9.17E-03	5.11E+00	2.26E-01	9.60E-02	5.02E-01	8.23E-01	1.35E+00	2.47E+00
1.19E+00	9.33E-03	5.09E+00	2.26E-01	9.59E-02	5.01E-01	8.20E-01	1.34E+00	2.47E+00
1.25E+00	9.50E-03	5.07E+00	2.25E-01	9.59E-02	4.99E-01	8.18E-01	1.34E+00	2.46E+00
1.33E+00	9.68E-03	5.04E+00	2.25E-01	9.59E-02	4.98E-01	8.15E-01	1.33E+00	2.45E+00
1.40E+00	9.87E-03	5.02E+00	2.24E-01	9.58E-02	4.96E-01	8.12E-01	1.33E+00	2.44E+00
1.49E+00	1.01E-02	5.00E+00	2.23E-01	9.58E-02	4.94E-01	8.09E-01	1.32E+00	2.43E+00
1.57E+00	1.03E-02	4.97E+00	2.23E-01	9.57E-02	4.92E-01	8.06E-01	1.32E+00	2.42E+00
1.66E+00	1.05E-02	4.94E+00	2.22E-01	9.57E-02	4.91E-01	8.03E-01	1.31E+00	2.41E+00
1.76E+00	1.07E-02	4.91E+00	2.21E-01	9.56E-02	4.89E-01	7.99E-01	1.31E+00	2.40E+00
1.86E+00	1.10E-02	4.88E+00	2.21E-01	9.56E-02	4.86E-01	7.95E-01	1.30E+00	2.38E+00
1.97E+00	1.12E-02	4.85E+00	2.20E-01	9.55E-02	4.84E-01	7.92E-01	1.29E+00	2.37E+00
2.09E+00	1.15E-02	4.81E+00	2.19E-01	9.54E-02	4.82E-01	7.87E-01	1.29E+00	2.36E+00
2.21E+00	1.18E-02	4.78E+00	2.18E-01	9.54E-02	4.79E-01	7.83E-01	1.28E+00	2.34E+00
2.34E+00	1.21E-02	4.74E+00	2.17E-01	9.53E-02	4.77E-01	7.79E-01	1.27E+00	2.33E+00
2.47E+00	1.24E-02	4.70E+00	2.16E-01	9.52E-02	4.74E-01	7.74E-01	1.26E+00	2.31E+00
2.62E+00	1.27E-02	4.66E+00	2.15E-01	9.51E-02	4.71E-01	7.69E-01	1.25E+00	2.30E+00
2.77E+00	1.31E-02	4.61E+00	2.14E-01	9.50E-02	4.68E-01	7.64E-01	1.24E+00	2.28E+00
2.93E+00	1.35E-02	4.57E+00	2.13E-01	9.49E-02	4.65E-01	7.58E-01	1.23E+00	2.26E+00
3.00E+00	1.36E-02	4.55E+00	2.12E-01	9.48E-02	4.64E-01	7.56E-01	1.23E+00	2.25E+00
3.10E+00	1.38E-02	4.52E+00	2.12E-01	9.48E-02	4.62E-01	7.52E-01	1.22E+00	2.24E+00
3.28E+00	1.42E-02	4.47E+00	2.10E-01	9.46E-02	4.58E-01	7.46E-01	1.21E+00	2.22E+00
3.48E+00	1.47E-02	4.42E+00	2.09E-01	9.45E-02	4.55E-01	7.40E-01	1.20E+00	2.20E+00
3.68E+00	1.51E-02	4.36E+00	2.08E-01	9.44E-02	4.51E-01	7.33E-01	1.19E+00	2.18E+00
3.89E+00	1.56E-02	4.30E+00	2.06E-01	9.42E-02	4.47E-01	7.26E-01	1.18E+00	2.15E+00
4.12E+00	1.61E-02	4.24E+00	2.05E-01	9.41E-02	4.43E-01	7.19E-01	1.17E+00	2.13E+00
4.36E+00	1.66E-02	4.18E+00	2.03E-01	9.39E-02	4.39E-01	7.11E-01	1.15E+00	2.11E+00
4.61E+00	1.71E-02	4.12E+00	2.02E-01	9.38E-02	4.34E-01	7.03E-01	1.14E+00	2.08E+00
4.88E+00	1.77E-02	4.05E+00	2.00E-01	9.35E-02	4.29E-01	6.95E-01	1.12E+00	2.05E+00
5.17E+00	1.82E-02	3.98E+00	1.98E-01	9.33E-02	4.24E-01	6.86E-01	1.11E+00	2.02E+00
5.47E+00	1.88E-02	3.91E+00	1.96E-01	9.30E-02	4.19E-01	6.77E-01	1.09E+00	1.99E+00
5.78E+00	1.95E-02	3.83E+00	1.94E-01	9.27E-02	4.14E-01	6.68E-01	1.08E+00	1.96E+00
6.12E+00	2.01E-02	3.75E+00	1.92E-01	9.23E-02	4.08E-01	6.58E-01	1.06E+00	1.93E+00
6.48E+00	2.08E-02	3.67E+00	1.90E-01	9.20E-02	4.02E-01	6.48E-01	1.04E+00	1.89E+00
6.86E+00	2.15E-02	3.58E+00	1.88E-01	9.15E-02	3.96E-01	6.37E-01	1.02E+00	1.86E+00
7.26E+00	2.22E-02	3.50E+00	1.86E-01	9.11E-02	3.90E-01	6.26E-01	1.00E+00	1.82E+00
7.68E+00	2.30E-02	3.41E+00	1.83E-01	9.09E-02	3.83E-01	6.14E-01	9.84E-01	1.79E+00
8.13E+00	2.38E-02	3.31E+00	1.81E-01	9.06E-02	3.77E-01	6.02E-01	9.63E-01	1.75E+00
8.60E+00	2.46E-02	3.22E+00	1.79E-01	9.04E-02	3.70E-01	5.90E-01	9.42E-01	1.71E+00
9.10E+00	2.54E-02	3.12E+00	1.76E-01	9.02E-02	3.62E-01	5.77E-01	9.20E-01	1.66E+00
9.63E+00	2.63E-02	3.02E+00	1.73E-01	9.01E-02	3.55E-01	5.64E-01	8.97E-01	1.62E+00
1.00E+01	2.69E-02	2.95E+00	1.71E-01	9.00E-02	3.50E-01	5.55E-01	8.81E-01	1.59E+00
1.02E+01	2.72E-02	2.92E+00	1.71E-01	8.99E-02	3.47E-01	5.51E-01	8.74E-01	1.58E+00
1.08E+01	2.81E-02	2.81E+00	1.68E-01	8.98E-02	3.39E-01	5.37E-01	8.50E-01	1.53E+00
1.14E+01	2.91E-02	2.71E+00	1.65E-01	8.96E-02	3.31E-01	5.23E-01	8.25E-01	1.49E+00
1.21E+01	3.00E-02	2.60E+00	1.62E-01	8.96E-02	3.23E-01	5.08E-01	8.00E-01	1.44E+00
1.28E+01	3.10E-02	2.49E+00	1.59E-01	8.92E-02	3.14E-01	4.93E-01	7.74E-01	1.39E+00
1.35E+01	3.20E-02	2.38E+00	1.56E-01	8.86E-02	3.06E-01	4.78E-01	7.47E-01	1.34E+00
1.43E+01	3.30E-02	2.27E+00	1.53E-01	8.81E-02	2.97E-01	4.62E-01	7.21E-01	1.29E+00
1.51E+01	3.40E-02	2.15E+00	1.49E-01	8.79E-02	2.88E-01	4.46E-01	6.93E-01	1.24E+00
1.60E+01	3.51E-02	2.04E+00	1.46E-01	8.75E-02	2.78E-01	4.30E-01	6.66E-01	1.19E+00
1.70E+01	3.61E-02	1.93E+00	1.43E-01	8.70E-02	2.69E-01	4.14E-01	6.38E-01	1.13E+00
1.80E+01	3.72E-02	1.82E+00	1.39E-01	8.65E-02	2.60E-01	3.97E-01	6.10E-01	1.08E+00
1.90E+01	3.83E-02	1.70E+00	1.36E-01	8.59E-02	2.50E-01	3.81E-01	5.82E-01	1.03E+00

2.01E+01 3.93E-02 1.59E+00 1.33E-01 8.54E-02 2.41E-01 3.65E-01 5.53E-01 9.75E-01

2.13E+01 4.04E-02 1.48E+00 1.29E-01 8.45E-02 2.31E-01 3.48E-01 5.25E-01 9.22E-01

2.25E+01 4.15E-02 1.38E+00 1.26E-01 8.40E-02 2.22E-01 3.32E-01 4.97E-01 8.70E-01

2.38E+01 4.25E-02 1.27E+00 1.23E-01 8.33E-02 2.12E-01 3.16E-01 4.69E-01 8.18E-01

2.52E+01 4.35E-02 1.17E+00 1.20E-01 8.22E-02 2.03E-01 3.00E-01 4.41E-01 7.66E-01



2.67E+01 4.45E-02 1.07E+00 1.16E-01 8.22E-02 1.94E-01 2.84E-01 4.14E-01 7.16E-01

2.82E+01 4.55E-02 9.79E-01 1.13E-01 8.21E-02 1.85E-01 2.68E-01 3.87E-01 6.66E-01

2.99E+01 4.64E-02 8.89E-01 1.10E-01 8.18E-02 1.77E-01 2.53E-01 3.61E-01 6.18E-01

3.00E+01 4.65E-02 8.83E-01 1.10E-01 8.18E-02 1.77E-01 2.52E-01 3.60E-01 6.14E-01

3.16E+01 4.73E-02 8.03E-01 1.07E-01 8.18E-02 1.70E-01 2.38E-01 3.36E-01 5.71E-01

3.35E+01 4.82E-02 7.21E-01 1.04E-01 8.16E-02 1.63E-01 2.23E-01 3.13E-01 5.26E-01

3.54E+01 4.90E-02 6.44E-01 1.01E-01 8.10E-02 1.57E-01 2.08E-01 2.90E-01 4.82E-01

3.75E+01 4.98E-02 5.73E-01 9.84E-02 8.08E-02 1.52E-01 1.95E-01 2.69E-01 4.41E-01



3.97E+01 5.05E-02 5.07E-01 9.58E-02 8.09E-02 1.46E-01 1.84E-01 2.48E-01 4.02E-01

4.20E+01 5.12E-02 4.46E-01 9.33E-02 8.05E-02 1.38E-01 1.72E-01 2.29E-01 3.64E-01

4.44E+01 5.18E-02 3.90E-01 9.10E-02 8.02E-02 1.31E-01 1.61E-01 2.11E-01 3.30E-01

4.70E+01 5.22E-02 3.40E-01 8.87E-02 7.97E-02 1.25E-01 1.49E-01 1.94E-01 2.97E-01

4.97E+01 5.26E-02 2.95E-01 8.66E-02 7.95E-02 1.19E-01 1.39E-01 1.78E-01 2.68E-01

5.26E+01 5.30E-02 2.55E-01 8.47E-02 7.84E-02 1.13E-01 1.29E-01 1.63E-01 2.40E-01

5.57E+01 5.32E-02 2.20E-01 8.29E-02 7.85E-02 1.07E-01 1.20E-01 1.50E-01 2.15E-01

5.90E+01 5.34E-02 1.96E-01 8.12E-02 7.82E-02 1.02E-01 1.14E-01 1.37E-01 1.89E-01



6.24E+01 5.36E-02 1.74E-01 7.96E-02 7.76E-02 9.88E-02 1.07E-01 1.26E-01 1.63E-01

6.60E+01 5.36E-02 1.56E-01 7.82E-02 7.72E-02 9.40E-02 1.03E-01 1.16E-01 1.41E-01

6.99E+01 5.37E-02 1.40E-01 7.69E-02 7.67E-02 8.99E-02 9.74E-02 1.07E-01 1.22E-01

7.39E+01 5.36E-02 1.26E-01 7.57E-02 7.61E-02 8.76E-02 9.33E-02 9.97E-02 1.12E-01

7.82E+01 5.35E-02 1.15E-01 7.46E-02 7.56E-02 8.55E-02 8.90E-02 9.36E-02 1.05E-01

8.28E+01 5.33E-02 1.05E-01 7.35E-02 7.50E-02 8.36E-02 8.64E-02 9.04E-02 9.82E-02

8.76E+01 5.31E-02 9.69E-02 7.26E-02 7.43E-02 8.14E-02 8.47E-02 8.78E-02 9.56E-02

9.27E+01 5.28E-02 9.38E-02 7.17E-02 7.35E-02 8.00E-02 8.32E-02 8.67E-02 8.96E-02



9.81E+01 5.24E-02 9.20E-02 7.09E-02 7.26E-02 7.93E-02 8.21E-02 8.50E-02 8.63E-02

1.00E+02 5.23E-02 9.15E-02 7.06E-02 7.24E-02 7.90E-02 8.18E-02 8.44E-02 8.61E-02

1.04E+02 5.20E-02 9.04E-02 7.01E-02 7.19E-02 7.85E-02 8.10E-02 8.27E-02 8.56E-02

1.10E+02 5.16E-02 8.88E-02 6.93E-02 7.10E-02 7.76E-02 8.00E-02 8.14E-02 8.46E-02

1.16E+02 5.11E-02 8.73E-02 6.86E-02 7.01E-02 7.67E-02 7.90E-02 8.04E-02 8.38E-02

1.23E+02 5.06E-02 8.59E-02 6.78E-02 6.94E-02 7.56E-02 7.82E-02 7.95E-02 8.29E-02

1.30E+02    4.97E-02    8.44E-02    6.71E-02    6.86E-02    7.50E-02    7.72E-02    7.84E-02    8.18E-02

1.38E+02    4.86E-02    8.30E-02    6.63E-02    6.78E-02    7.44E-02    7.63E-02    7.71E-02    8.07E-02



1.46E+02 4.77E-02 8.16E-02 6.56E-02 6.70E-02 7.36E-02 7.55E-02 7.61E-02 7.96E-02

1.54E+02 4.68E-02 8.01E-02 6.48E-02 6.62E-02 7.28E-02 7.44E-02 7.52E-02 7.84E-02

1.63E+02 4.60E-02 7.95E-02 6.41E-02 6.54E-02 7.18E-02 7.34E-02 7.43E-02 7.71E-02

1.73E+02 4.52E-02 7.89E-02 6.33E-02 6.46E-02 7.10E-02 7.24E-02 7.34E-02 7.58E-02

1.83E+02 4.44E-02 7.82E-02 6.25E-02 6.38E-02 7.01E-02 7.14E-02 7.30E-02 7.52E-02

1.94E+02 4.36E-02 7.76E-02 6.16E-02 6.29E-02 6.94E-02 7.03E-02 7.21E-02 7.40E-02

2.05E+02 4.28E-02 7.67E-02 6.07E-02 6.19E-02 6.83E-02 6.97E-02 7.10E-02 7.35E-02

2.17E+02 4.19E-02 7.48E-02 5.98E-02 6.09E-02 6.72E-02 6.85E-02 6.99E-02 7.18E-02



2.29E+02 4.11E-02 7.28E-02 5.88E-02 5.99E-02 6.60E-02 6.73E-02 6.86E-02 7.01E-02

2.43E+02 4.02E-02 7.08E-02 5.77E-02 5.88E-02 6.47E-02 6.65E-02 6.70E-02 6.84E-02

2.57E+02    3.92E-02    6.86E-02    5.65E-02    5.77E-02    6.33E-02    6.50E-02    6.56E-02    6.66E-02

2.72E+02 3.36E-02 6.63E-02 5.53E-02 5.66E-02 6.20E-02 6.32E-02 6.40E-02 6.52E-02

2.88E+02 2.19E-02 6.44E-02 5.39E-02 5.53E-02 6.05E-02 6.16E-02 6.26E-02 6.39E-02

3.00E+02 1.27E-03 6.31E-02 5.28E-02 5.43E-02 5.94E-02 6.04E-02 6.14E-02 6.24E-02

3.05E+02    0.00E+00    6.26E-02    5.24E-02    5.40E-02    5.90E-02    6.00E-02    6.09E-02    6.18E-02

3.22E+02    0.00E+00    6.08E-02    5.10E-02    5.26E-02    5.73E-02    5.83E-02    5.90E-02    6.00E-02



3.41E+02 0.00E+00 5.91E-02 4.95E-02 5.11E-02 5.55E-02 5.65E-02 5.74E-02 5.83E-02

3.61E+02 0.00E+00 5.73E-02 4.80E-02 4.96E-02 5.38E-02 5.46E-02 5.55E-02 5.71E-02

3.82E+02 0.00E+00 5.54E-02 4.65E-02 4.80E-02 5.20E-02 5.28E-02 5.37E-02 5.50E-02

4.04E+02    0.00E+00    5.34E-02    4.49E-02    4.63E-02    5.01E-02    5.10E-02    5.19E-02    5.29E-02

4.28E+02    0.00E+00    5.14E-02    4.32E-02    4.45E-02    4.82E-02    4.94E-02    5.01E-02    5.08E-02

4.53E+02    0.00E+00    4.99E-02    4.14E-02    4.25E-02    4.65E-02    4.74E-02    4.82E-02    4.90E-02

4.79E+02    0.00E+00    4.87E-02    3.96E-02    4.07E-02    4.44E-02    4.56E-02    4.63E-02    4.70E-02

5.07E+02    0.00E+00    4.63E-02    3.78E-02    3.88E-02    4.25E-02    4.36E-02    4.44E-02    4.51E-02



5.36E+02    0.00E+00    4.39E-02    3.59E-02    3.70E-02    4.04E-02    4.15E-02    4.27E-02    4.30E-02

5.68E+02    0.00E+00    4.17E-02    3.39E-02    3.50E-02    3.82E-02    3.94E-02    4.04E-02    4.14E-02

6.01E+02 0.00E+00 4.01E-02 3.19E-02 3.32E-02 3.62E-02 3.72E-02 3.85E-02 3.92E-02

6.36E+02 0.00E+00 3.76E-02 3.00E-02 3.11E-02 3.41E-02 3.50E-02 3.65E-02 3.73E-02

6.73E+02 0.00E+00 3.54E-02 2.81E-02 2.92E-02 3.22E-02 3.29E-02 3.41E-02 3.48E-02

7.12E+02    0.00E+00    3.34E-02    2.62E-02    2.73E-02    3.03E-02    3.09E-02    3.20E-02    3.25E-02

7.53E+02    0.00E+00    3.15E-02    2.43E-02    2.55E-02    2.82E-02    2.89E-02    2.98E-02    3.02E-02

7.97E+02    0.00E+00    2.98E-02    2.25E-02    2.36E-02    2.62E-02    2.68E-02    2.76E-02    2.84E-02



8.44E+02 0.00E+00 2.81E-02 2.06E-02 2.17E-02 2.44E-02 2.48E-02 2.56E-02 2.67E-02

8.93E+02 0.00E+00 2.61E-02 1.88E-02 1.99E-02 2.24E-02 2.30E-02 2.36E-02 2.46E-02

9.45E+02 0.00E+00 2.38E-02 1.70E-02 1.81E-02 2.06E-02 2.10E-02 2.16E-02 2.25E-02

1.00E+03    0.00E+00    2.16E-02    1.53E-02    1.64E-02    1.88E-02    1.92E-02    1.98E-02    2.06E-02

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.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	8.23E-03	1.04E+01	2.51E-01	9.44E-02	5.34E-01	8.49E-01	1.34E+00	2.27E+00
1.00E+00	1.10E-02	9.76E+00	2.42E-01	9.34E-02	5.12E-01	8.12E-01	1.28E+00	2.17E+00
1.06E+00	1.12E-02	9.73E+00	2.42E-01	9.33E-02	5.11E-01	8.10E-01	1.28E+00	2.16E+00
1.12E+00	1.13E-02	9.69E+00	2.41E-01	9.32E-02	5.10E-01	8.08E-01	1.27E+00	2.15E+00
1.19E+00	1.15E-02	9.66E+00	2.40E-01	9.32E-02	5.08E-01	8.06E-01	1.27E+00	2.15E+00
1.25E+00	1.17E-02	9.62E+00	2.40E-01	9.31E-02	5.07E-01	8.03E-01	1.27E+00	2.14E+00
1.33E+00	1.19E-02	9.58E+00	2.39E-01	9.30E-02	5.05E-01	8.01E-01	1.26E+00	2.13E+00
1.40E+00	1.21E-02	9.53E+00	2.39E-01	9.30E-02	5.04E-01	7.98E-01	1.26E+00	2.12E+00
1.49E+00	1.23E-02	9.49E+00	2.38E-01	9.29E-02	5.02E-01	7.95E-01	1.25E+00	2.11E+00
1.57E+00	1.26E-02	9.44E+00	2.37E-01	9.28E-02	5.00E-01	7.92E-01	1.25E+00	2.10E+00
1.66E+00	1.28E-02	9.39E+00	2.36E-01	9.27E-02	4.98E-01	7.89E-01	1.24E+00	2.10E+00
1.76E+00	1.31E-02	9.34E+00	2.36E-01	9.26E-02	4.96E-01	7.85E-01	1.24E+00	2.09E+00
1.86E+00	1.33E-02	9.28E+00	2.35E-01	9.25E-02	4.94E-01	7.82E-01	1.23E+00	2.08E+00
1.97E+00	1.36E-02	9.22E+00	2.34E-01	9.24E-02	4.92E-01	7.78E-01	1.22E+00	2.06E+00
2.09E+00	1.39E-02	9.16E+00	2.33E-01	9.23E-02	4.90E-01	7.74E-01	1.22E+00	2.05E+00
2.21E+00	1.42E-02	9.09E+00	2.32E-01	9.22E-02	4.87E-01	7.70E-01	1.21E+00	2.04E+00
2.34E+00	1.45E-02	9.03E+00	2.31E-01	9.20E-02	4.85E-01	7.66E-01	1.20E+00	2.03E+00
2.47E+00	1.49E-02	8.95E+00	2.30E-01	9.19E-02	4.82E-01	7.61E-01	1.19E+00	2.01E+00
2.62E+00	1.53E-02	8.88E+00	2.29E-01	9.18E-02	4.79E-01	7.56E-01	1.19E+00	2.00E+00
2.77E+00	1.56E-02	8.80E+00	2.28E-01	9.15E-02	4.76E-01	7.51E-01	1.18E+00	1.98E+00
2.93E+00	1.60E-02	8.72E+00	2.26E-01	9.13E-02	4.73E-01	7.46E-01	1.17E+00	1.97E+00
3.00E+00	1.62E-02	8.68E+00	2.26E-01	9.12E-02	4.72E-01	7.44E-01	1.16E+00	1.96E+00
3.10E+00	1.65E-02	8.63E+00	2.25E-01	9.11E-02	4.70E-01	7.40E-01	1.16E+00	1.95E+00
3.28E+00	1.69E-02	8.54E+00	2.24E-01	9.08E-02	4.66E-01	7.34E-01	1.15E+00	1.94E+00
3.48E+00	1.74E-02	8.44E+00	2.22E-01	9.07E-02	4.63E-01	7.28E-01	1.14E+00	1.92E+00
3.68E+00	1.79E-02	8.34E+00	2.21E-01	9.05E-02	4.59E-01	7.22E-01	1.13E+00	1.90E+00
3.89E+00	1.84E-02	8.24E+00	2.19E-01	9.04E-02	4.55E-01	7.15E-01	1.12E+00	1.88E+00
4.12E+00	1.89E-02	8.13E+00	2.17E-01	9.03E-02	4.51E-01	7.08E-01	1.10E+00	1.86E+00
4.36E+00	1.95E-02	8.02E+00	2.16E-01	9.01E-02	4.46E-01	7.00E-01	1.09E+00	1.84E+00
4.61E+00	2.00E-02	7.90E+00	2.14E-01	9.00E-02	4.42E-01	6.93E-01	1.08E+00	1.81E+00
4.88E+00	2.05E-02	7.77E+00	2.12E-01	8.99E-02	4.37E-01	6.85E-01	1.06E+00	1.79E+00
5.17E+00	2.11E-02	7.64E+00	2.10E-01	8.99E-02	4.32E-01	6.76E-01	1.05E+00	1.76E+00
5.47E+00	2.17E-02	7.51E+00	2.08E-01	8.99E-02	4.27E-01	6.67E-01	1.04E+00	1.74E+00
5.78E+00	2.22E-02	7.37E+00	2.06E-01	8.99E-02	4.21E-01	6.58E-01	1.02E+00	1.71E+00
6.12E+00	2.29E-02	7.23E+00	2.04E-01	8.98E-02	4.16E-01	6.49E-01	1.00E+00	1.68E+00
6.48E+00	2.35E-02	7.08E+00	2.01E-01	8.96E-02	4.10E-01	6.39E-01	9.88E-01	1.66E+00
6.86E+00	2.42E-02	6.92E+00	1.99E-01	8.94E-02	4.04E-01	6.28E-01	9.70E-01	1.63E+00
7.26E+00	2.49E-02	6.76E+00	1.96E-01	8.93E-02	3.97E-01	6.18E-01	9.52E-01	1.59E+00
7.68E+00	2.56E-02	6.60E+00	1.94E-01	8.91E-02	3.91E-01	6.07E-01	9.33E-01	1.56E+00
8.13E+00	2.64E-02	6.43E+00	1.91E-01	8.89E-02	3.84E-01	5.95E-01	9.14E-01	1.53E+00
8.60E+00	2.71E-02	6.25E+00	1.88E-01	8.87E-02	3.77E-01	5.83E-01	8.94E-01	1.49E+00
9.10E+00	2.79E-02	6.07E+00	1.85E-01	8.82E-02	3.70E-01	5.71E-01	8.73E-01	1.46E+00
9.63E+00	2.88E-02	5.89E+00	1.83E-01	8.79E-02	3.62E-01	5.58E-01	8.52E-01	1.42E+00
1.00E+01	2.93E-02	5.76E+00	1.80E-01	8.77E-02	3.57E-01	5.50E-01	8.37E-01	1.40E+00
1.02E+01	2.96E-02	5.70E+00	1.79E-01	8.76E-02	3.55E-01	5.45E-01	8.30E-01	1.38E+00
1.08E+01	3.05E-02	5.50E+00	1.76E-01	8.75E-02	3.47E-01	5.32E-01	8.08E-01	1.34E+00
1.14E+01	3.14E-02	5.30E+00	1.73E-01	8.74E-02	3.38E-01	5.18E-01	7.85E-01	1.30E+00
1.21E+01	3.23E-02	5.10E+00	1.70E-01	8.73E-02	3.30E-01	5.04E-01	7.62E-01	1.26E+00
1.28E+01	3.32E-02	4.89E+00	1.67E-01	8.73E-02	3.22E-01	4.90E-01	7.39E-01	1.22E+00
1.35E+01	3.42E-02	4.69E+00	1.63E-01	8.72E-02	3.13E-01	4.75E-01	7.15E-01	1.18E+00
1.43E+01	3.51E-02	4.48E+00	1.60E-01	8.72E-02	3.04E-01	4.60E-01	6.91E-01	1.13E+00
1.51E+01	3.61E-02	4.26E+00	1.56E-01	8.71E-02	2.95E-01	4.45E-01	6.67E-01	1.09E+00
1.60E+01	3.71E-02	4.05E+00	1.53E-01	8.67E-02	2.86E-01	4.29E-01	6.43E-01	1.05E+00
1.70E+01	3.81E-02	3.84E+00	1.49E-01	8.62E-02	2.77E-01	4.14E-01	6.18E-01	1.00E+00
1.80E+01	3.91E-02	3.62E+00	1.45E-01	8.60E-02	2.67E-01	3.98E-01	5.93E-01	9.55E-01
1.90E+01	4.01E-02	3.41E+00	1.42E-01	8.58E-02	2.58E-01	3.82E-01	5.68E-01	9.09E-01

2.01E+01 4.11E-02 3.20E+00 1.38E-01 8.52E-02 2.49E-01 3.66E-01 5.41E-01 8.63E-01



2.13E+01 4.21E-02 2.99E+00 1.34E-01 8.45E-02 2.39E-01 3.50E-01 5.15E-01 8.18E-01

2.25E+01 4.31E-02 2.78E+00 1.31E-01 8.43E-02 2.30E-01 3.34E-01 4.88E-01 7.72E-01

2.38E+01 4.41E-02 2.58E+00 1.27E-01 8.39E-02 2.20E-01 3.19E-01 4.62E-01 7.27E-01

2.52E+01 4.51E-02 2.38E+00 1.23E-01 8.38E-02 2.11E-01 3.03E-01 4.36E-01 6.82E-01

2.67E+01 4.60E-02 2.19E+00 1.20E-01 8.32E-02 2.02E-01 2.88E-01 4.10E-01 6.38E-01

2.82E+01 4.70E-02 2.00E+00 1.16E-01 8.30E-02 1.93E-01 2.73E-01 3.85E-01 5.95E-01

2.99E+01 4.79E-02 1.82E+00 1.13E-01 8.25E-02 1.83E-01 2.58E-01 3.61E-01 5.53E-01

3.00E+01 4.79E-02 1.81E+00 1.13E-01 8.24E-02 1.82E-01 2.57E-01 3.59E-01 5.50E-01



3.16E+01 4.87E-02 1.65E+00 1.10E-01 8.17E-02 1.73E-01 2.44E-01 3.36E-01 5.13E-01

3.35E+01 4.95E-02 1.48E+00 1.06E-01 8.11E-02 1.66E-01 2.31E-01 3.13E-01 4.73E-01

3.54E+01 5.03E-02 1.33E+00 1.03E-01 8.06E-02 1.59E-01 2.18E-01 2.90E-01 4.35E-01

3.75E+01 5.10E-02 1.18E+00 1.00E-01 8.01E-02 1.51E-01 2.05E-01 2.68E-01 3.99E-01

3.97E+01 5.17E-02 1.05E+00 9.76E-02 7.99E-02 1.43E-01 1.90E-01 2.48E-01 3.65E-01

4.20E+01 5.23E-02 9.22E-01 9.49E-02 7.95E-02 1.36E-01 1.76E-01 2.28E-01 3.32E-01

4.44E+01 5.29E-02 8.06E-01 9.23E-02 7.89E-02 1.29E-01 1.63E-01 2.10E-01 3.02E-01

4.70E+01 5.34E-02 7.00E-01 8.99E-02 7.86E-02 1.23E-01 1.51E-01 1.93E-01 2.74E-01



4.97E+01 5.38E-02 6.04E-01 8.76E-02 7.81E-02 1.17E-01 1.40E-01 1.77E-01 2.47E-01

5.26E+01 5.41E-02 5.19E-01 8.55E-02 7.78E-02 1.12E-01 1.31E-01 1.62E-01 2.23E-01

5.57E+01 5.43E-02 4.43E-01 8.36E-02 7.74E-02 1.07E-01 1.24E-01 1.49E-01 2.01E-01

5.90E+01 5.45E-02 3.76E-01 8.18E-02 7.73E-02 1.02E-01 1.16E-01 1.37E-01 1.82E-01

6.24E+01 5.46E-02 3.18E-01 8.01E-02 7.68E-02 9.74E-02 1.09E-01 1.27E-01 1.64E-01

6.60E+01 5.46E-02 2.68E-01 7.86E-02 7.62E-02 9.39E-02 1.06E-01 1.18E-01 1.48E-01

6.99E+01    5.46E-02    2.25E-01    7.72E-02    7.58E-02    9.12E-02    1.02E-01    1.10E-01    1.34E-01

7.39E+01 5.45E-02 1.90E-01 7.59E-02 7.52E-02 8.79E-02 9.66E-02 1.03E-01 1.22E-01



7.82E+01 5.44E-02 1.60E-01 7.47E-02 7.46E-02 8.61E-02 9.18E-02 9.77E-02 1.12E-01

8.28E+01 5.41E-02 1.36E-01 7.36E-02 7.41E-02 8.45E-02 8.88E-02 9.44E-02 1.03E-01

8.76E+01 5.39E-02 1.17E-01 7.26E-02 7.35E-02 8.29E-02 8.55E-02 9.12E-02 9.67E-02

9.27E+01 5.36E-02 1.01E-01 7.17E-02 7.27E-02 8.17E-02 8.37E-02 8.93E-02 9.24E-02

9.81E+01 5.32E-02 9.15E-02 7.09E-02 7.22E-02 8.03E-02 8.24E-02 8.50E-02 8.98E-02

1.00E+02 5.30E-02 9.08E-02 7.06E-02 7.20E-02 8.00E-02 8.20E-02 8.45E-02 8.94E-02

1.04E+02 5.27E-02 9.04E-02 7.00E-02 7.17E-02 7.92E-02 8.09E-02 8.28E-02 8.82E-02

1.10E+02 5.21E-02 8.97E-02 6.93E-02 7.10E-02 7.82E-02 7.98E-02 8.21E-02 8.67E-02



1.16E+02 5.16E-02 8.90E-02 6.85E-02 7.02E-02 7.71E-02 7.88E-02 8.04E-02 8.53E-02

1.23E+02 5.10E-02 8.81E-02 6.78E-02 6.94E-02 7.61E-02 7.78E-02 7.92E-02 8.41E-02

1.30E+02 5.03E-02 8.73E-02 6.71E-02 6.87E-02 7.53E-02 7.69E-02 7.86E-02 8.40E-02

1.38E+02    4.97E-02    8.63E-02    6.63E-02    6.79E-02    7.46E-02    7.60E-02    7.80E-02    8.37E-02

1.46E+02 4.90E-02 8.53E-02 6.56E-02 6.70E-02 7.36E-02 7.50E-02 7.72E-02 8.26E-02

1.54E+02 4.83E-02 8.42E-02 6.49E-02 6.63E-02 7.26E-02 7.43E-02 7.63E-02 8.14E-02

1.63E+02 4.76E-02 8.31E-02 6.41E-02 6.55E-02 7.16E-02 7.36E-02 7.54E-02 8.02E-02

1.73E+02 4.68E-02 8.19E-02 6.33E-02 6.46E-02 7.07E-02 7.29E-02 7.43E-02 7.89E-02



1.83E+02 4.60E-02 8.12E-02 6.25E-02 6.36E-02 7.01E-02 7.23E-02 7.38E-02 7.75E-02

1.94E+02 4.52E-02 8.05E-02 6.17E-02 6.26E-02 6.92E-02 7.16E-02 7.29E-02 7.62E-02

2.05E+02 4.44E-02 7.97E-02 6.08E-02 6.16E-02 6.86E-02 7.08E-02 7.20E-02 7.47E-02

2.17E+02 4.36E-02 7.91E-02 5.98E-02 6.06E-02 6.76E-02 6.95E-02 7.08E-02 7.36E-02

2.29E+02 2.90E-02 7.73E-02 5.87E-02 5.95E-02 6.67E-02 6.82E-02 6.97E-02 7.21E-02

2.43E+02 8.94E-03 7.55E-02 5.75E-02 5.84E-02 6.52E-02 6.71E-02 6.79E-02 7.05E-02

2.57E+02    0.00E+00    7.36E-02    5.64E-02    5.73E-02    6.39E-02    6.54E-02    6.65E-02    6.89E-02

2.72E+02 0.00E+00 7.17E-02 5.51E-02 5.61E-02 6.24E-02 6.37E-02 6.51E-02 6.72E-02



2.88E+02    0.00E+00    6.97E-02    5.37E-02    5.48E-02    6.12E-02    6.23E-02    6.34E-02    6.55E-02

3.00E+02 0.00E+00 6.82E-02 5.28E-02 5.39E-02 5.96E-02 6.12E-02 6.21E-02 6.42E-02

3.05E+02    0.00E+00    6.76E-02    5.24E-02    5.36E-02    5.91E-02    6.07E-02    6.17E-02    6.37E-02

3.22E+02 0.00E+00 6.55E-02 5.10E-02 5.21E-02 5.75E-02 5.90E-02 6.01E-02 6.18E-02

3.41E+02    0.00E+00    6.34E-02    4.95E-02    5.06E-02    5.57E-02    5.74E-02    5.82E-02    5.99E-02

3.61E+02 0.00E+00 6.14E-02 4.80E-02 4.91E-02 5.38E-02 5.57E-02 5.66E-02 5.80E-02

3.82E+02 0.00E+00 5.95E-02 4.64E-02 4.75E-02 5.23E-02 5.38E-02 5.47E-02 5.60E-02

4.04E+02 0.00E+00 5.75E-02 4.48E-02 4.58E-02 5.04E-02 5.19E-02 5.27E-02 5.40E-02



4.28E+02    0.00E+00    5.55E-02    4.31E-02    4.39E-02    4.87E-02    4.98E-02    5.05E-02    5.19E-02

4.53E+02    0.00E+00    5.36E-02    4.13E-02    4.21E-02    4.67E-02    4.79E-02    4.85E-02    4.98E-02

4.79E+02    0.00E+00    5.18E-02    3.94E-02    4.05E-02    4.47E-02    4.58E-02    4.62E-02    4.77E-02

5.07E+02    0.00E+00    4.98E-02    3.76E-02    3.87E-02    4.26E-02    4.37E-02    4.41E-02    4.55E-02

5.36E+02    0.00E+00    4.79E-02    3.57E-02    3.68E-02    4.05E-02    4.15E-02    4.21E-02    4.34E-02

5.68E+02    0.00E+00    4.57E-02    3.38E-02    3.50E-02    3.83E-02    3.93E-02    4.00E-02    4.12E-02

6.01E+02    0.00E+00    4.27E-02    3.19E-02    3.32E-02    3.63E-02    3.73E-02    3.79E-02    3.92E-02

6.36E+02    0.00E+00    3.98E-02    3.00E-02    3.12E-02    3.43E-02    3.54E-02    3.59E-02    3.71E-02



6.73E+02    0.00E+00    3.69E-02    2.81E-02    2.92E-02    3.24E-02    3.34E-02    3.40E-02    3.47E-02

7.12E+02    0.00E+00    3.41E-02    2.62E-02    2.73E-02    3.03E-02    3.13E-02    3.20E-02    3.24E-02

7.53E+02    0.00E+00    3.12E-02    2.43E-02    2.54E-02    2.84E-02    2.92E-02    2.98E-02    3.03E-02

7.97E+02    0.00E+00    2.83E-02    2.24E-02    2.36E-02    2.63E-02    2.72E-02    2.76E-02    2.79E-02

8.44E+02 0.00E+00 2.60E-02 2.05E-02 2.18E-02 2.45E-02 2.51E-02 2.55E-02 2.59E-02

8.93E+02 0.00E+00 2.41E-02 1.87E-02 2.00E-02 2.25E-02 2.30E-02 2.33E-02 2.40E-02

9.45E+02 0.00E+00 2.23E-02 1.69E-02 1.82E-02 2.06E-02 2.11E-02 2.13E-02 2.20E-02

1.00E+03    0.00E+00    2.06E-02    1.52E-02    1.64E-02    1.88E-02    1.93E-02    1.96E-02    2.02E-02



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Summary of dose at graphical times, reptition 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	6.02E-03	1.49E+01	2.65E-01	9.59E-02	5.39E-01	8.87E-01	1.43E+00	2.18E+00
1.00E+00	8.55E-03	1.38E+01	2.54E-01	9.47E-02	5.17E-01	8.48E-01	1.36E+00	2.07E+00
1.06E+00	8.70E-03	1.37E+01	2.53E-01	9.46E-02	5.15E-01	8.46E-01	1.36E+00	2.06E+00
1.12E+00	8.85E-03	1.36E+01	2.53E-01	9.45E-02	5.14E-01	8.43E-01	1.36E+00	2.06E+00
1.19E+00	9.01E-03	1.35E+01	2.52E-01	9.44E-02	5.13E-01	8.41E-01	1.35E+00	2.05E+00
1.25E+00	9.17E-03	1.35E+01	2.51E-01	9.44E-02	5.11E-01	8.38E-01	1.35E+00	2.04E+00
1.33E+00	9.35E-03	1.34E+01	2.51E-01	9.43E-02	5.10E-01	8.36E-01	1.34E+00	2.04E+00
1.40E+00	9.54E-03	1.33E+01	2.50E-01	9.42E-02	5.08E-01	8.33E-01	1.34E+00	2.03E+00
1.49E+00	9.74E-03	1.32E+01	2.49E-01	9.40E-02	5.06E-01	8.30E-01	1.33E+00	2.02E+00
1.57E+00	9.95E-03	1.31E+01	2.48E-01	9.39E-02	5.04E-01	8.26E-01	1.33E+00	2.01E+00
1.66E+00	1.02E-02	1.30E+01	2.47E-01	9.38E-02	5.02E-01	8.23E-01	1.32E+00	2.00E+00
1.76E+00	1.04E-02	1.29E+01	2.46E-01	9.36E-02	5.00E-01	8.20E-01	1.31E+00	1.99E+00
1.86E+00	1.06E-02	1.28E+01	2.45E-01	9.35E-02	4.98E-01	8.16E-01	1.31E+00	1.98E+00
1.97E+00	1.09E-02	1.27E+01	2.44E-01	9.33E-02	4.96E-01	8.12E-01	1.30E+00	1.97E+00
2.09E+00	1.12E-02	1.26E+01	2.43E-01	9.32E-02	4.94E-01	8.08E-01	1.29E+00	1.96E+00
2.21E+00	1.14E-02	1.25E+01	2.42E-01	9.31E-02	4.91E-01	8.03E-01	1.29E+00	1.95E+00
2.34E+00	1.17E-02	1.23E+01	2.41E-01	9.30E-02	4.89E-01	7.99E-01	1.28E+00	1.94E+00
2.47E+00	1.21E-02	1.22E+01	2.39E-01	9.28E-02	4.86E-01	7.94E-01	1.27E+00	1.93E+00
2.62E+00	1.24E-02	1.20E+01	2.38E-01	9.27E-02	4.83E-01	7.89E-01	1.26E+00	1.91E+00
2.77E+00	1.27E-02	1.19E+01	2.37E-01	9.26E-02	4.80E-01	7.84E-01	1.25E+00	1.90E+00
2.93E+00	1.31E-02	1.17E+01	2.35E-01	9.25E-02	4.77E-01	7.78E-01	1.24E+00	1.88E+00
3.00E+00	1.32E-02	1.17E+01	2.35E-01	9.24E-02	4.75E-01	7.76E-01	1.24E+00	1.88E+00
3.10E+00	1.35E-02	1.16E+01	2.34E-01	9.23E-02	4.73E-01	7.72E-01	1.23E+00	1.87E+00
3.28E+00	1.39E-02	1.14E+01	2.32E-01	9.22E-02	4.70E-01	7.66E-01	1.22E+00	1.85E+00
3.48E+00	1.43E-02	1.12E+01	2.30E-01	9.21E-02	4.66E-01	7.60E-01	1.21E+00	1.83E+00
3.68E+00	1.47E-02	1.11E+01	2.29E-01	9.19E-02	4.62E-01	7.53E-01	1.20E+00	1.82E+00
3.89E+00	1.52E-02	1.09E+01	2.27E-01	9.17E-02	4.58E-01	7.46E-01	1.19E+00	1.80E+00
4.12E+00	1.57E-02	1.07E+01	2.25E-01	9.16E-02	4.54E-01	7.38E-01	1.18E+00	1.78E+00
4.36E+00	1.62E-02	1.05E+01	2.23E-01	9.14E-02	4.49E-01	7.31E-01	1.16E+00	1.76E+00
4.61E+00	1.67E-02	1.02E+01	2.21E-01	9.12E-02	4.45E-01	7.22E-01	1.15E+00	1.73E+00
4.88E+00	1.72E-02	1.00E+01	2.18E-01	9.10E-02	4.40E-01	7.14E-01	1.13E+00	1.71E+00
5.17E+00	1.78E-02	9.79E+00	2.16E-01	9.09E-02	4.35E-01	7.05E-01	1.12E+00	1.69E+00
5.47E+00	1.84E-02	9.55E+00	2.14E-01	9.08E-02	4.30E-01	6.96E-01	1.10E+00	1.66E+00
5.78E+00	1.90E-02	9.31E+00	2.11E-01	9.06E-02	4.24E-01	6.86E-01	1.09E+00	1.64E+00
6.12E+00	1.97E-02	9.05E+00	2.09E-01	9.04E-02	4.18E-01	6.76E-01	1.07E+00	1.61E+00
6.48E+00	2.04E-02	8.79E+00	2.06E-01	9.01E-02	4.12E-01	6.66E-01	1.05E+00	1.58E+00
6.86E+00	2.11E-02	8.53E+00	2.03E-01	8.98E-02	4.06E-01	6.55E-01	1.03E+00	1.55E+00
7.26E+00	2.18E-02	8.25E+00	2.00E-01	8.94E-02	4.00E-01	6.44E-01	1.01E+00	1.53E+00
7.68E+00	2.25E-02	7.97E+00	1.97E-01	8.90E-02	3.93E-01	6.32E-01	9.94E-01	1.49E+00
8.13E+00	2.33E-02	7.69E+00	1.94E-01	8.87E-02	3.86E-01	6.20E-01	9.74E-01	1.46E+00
8.60E+00	2.41E-02	7.40E+00	1.91E-01	8.85E-02	3.79E-01	6.08E-01	9.53E-01	1.43E+00
9.10E+00	2.50E-02	7.10E+00	1.88E-01	8.83E-02	3.72E-01	5.95E-01	9.31E-01	1.39E+00
9.63E+00	2.58E-02	6.80E+00	1.85E-01	8.81E-02	3.64E-01	5.81E-01	9.08E-01	1.36E+00
1.00E+01	2.64E-02	6.60E+00	1.82E-01	8.80E-02	3.59E-01	5.72E-01	8.93E-01	1.34E+00
1.02E+01	2.67E-02	6.50E+00	1.81E-01	8.79E-02	3.56E-01	5.68E-01	8.85E-01	1.32E+00
1.08E+01	2.76E-02	6.19E+00	1.78E-01	8.76E-02	3.48E-01	5.54E-01	8.61E-01	1.29E+00
1.14E+01	2.85E-02	5.88E+00	1.74E-01	8.72E-02	3.39E-01	5.39E-01	8.37E-01	1.25E+00
1.21E+01	2.95E-02	5.57E+00	1.71E-01	8.67E-02	3.31E-01	5.24E-01	8.12E-01	1.21E+00
1.28E+01	3.05E-02	5.26E+00	1.67E-01	8.65E-02	3.22E-01	5.09E-01	7.86E-01	1.17E+00
1.35E+01	3.14E-02	4.95E+00	1.63E-01	8.63E-02	3.12E-01	4.94E-01	7.60E-01	1.13E+00
1.43E+01	3.25E-02	4.65E+00	1.60E-01	8.61E-02	3.03E-01	4.78E-01	7.33E-01	1.09E+00
1.51E+01	3.35E-02	4.34E+00	1.56E-01	8.60E-02	2.94E-01	4.62E-01	7.06E-01	1.04E+00
1.60E+01	3.45E-02	4.04E+00	1.52E-01	8.58E-02	2.85E-01	4.45E-01	6.79E-01	1.00E+00
1.70E+01	3.56E-02	3.75E+00	1.48E-01	8.56E-02	2.76E-01	4.29E-01	6.51E-01	9.58E-01
1.80E+01	3.66E-02	3.46E+00	1.44E-01	8.54E-02	2.66E-01	4.12E-01	6.23E-01	9.15E-01
1.90E+01	3.77E-02	3.18E+00	1.40E-01	8.51E-02	2.57E-01	3.95E-01	5.95E-01	8.71E-01

2.01E+01    3.87E-02    2.91E+00    1.37E-01    8.47E-02    2.47E-01    3.79E-01    5.67E-01    8.27E-01

2.13E+01 3.98E-02 2.65E+00 1.33E-01 8.40E-02 2.37E-01 3.62E-01 5.39E-01 7.83E-01

2.25E+01 4.08E-02 2.39E+00 1.29E-01 8.36E-02 2.28E-01 3.45E-01 5.11E-01 7.40E-01

2.38E+01 4.18E-02 2.15E+00 1.25E-01 8.31E-02 2.18E-01 3.28E-01 4.84E-01 6.97E-01

2.52E+01 4.29E-02 1.93E+00 1.22E-01 8.30E-02 2.09E-01 3.12E-01 4.56E-01 6.54E-01



2.67E+01 4.38E-02 1.71E+00 1.18E-01 8.25E-02 1.99E-01 2.95E-01 4.29E-01 6.12E-01

2.82E+01 4.48E-02 1.51E+00 1.15E-01 8.22E-02 1.90E-01 2.79E-01 4.03E-01 5.71E-01

2.99E+01 4.57E-02 1.33E+00 1.11E-01 8.19E-02 1.81E-01 2.64E-01 3.77E-01 5.31E-01

3.00E+01 4.58E-02 1.32E+00 1.11E-01 8.19E-02 1.80E-01 2.63E-01 3.75E-01 5.28E-01

3.16E+01 4.66E-02 1.16E+00 1.08E-01 8.14E-02 1.72E-01 2.48E-01 3.51E-01 4.92E-01

3.35E+01 4.75E-02 1.00E+00 1.05E-01 8.09E-02 1.63E-01 2.34E-01 3.27E-01 4.54E-01

3.54E+01 4.83E-02 8.59E-01 1.02E-01 8.06E-02 1.55E-01 2.19E-01 3.03E-01 4.18E-01

3.75E+01 4.91E-02 7.32E-01 9.88E-02 8.03E-02 1.47E-01 2.06E-01 2.81E-01 3.83E-01



3.97E+01 4.98E-02 6.19E-01 9.60E-02 7.96E-02 1.40E-01 1.93E-01 2.59E-01 3.50E-01

4.20E+01 5.05E-02 5.19E-01 9.34E-02 7.94E-02 1.33E-01 1.80E-01 2.38E-01 3.19E-01

4.44E+01 5.10E-02 4.32E-01 9.10E-02 7.96E-02 1.26E-01 1.65E-01 2.18E-01 2.90E-01

4.70E+01 5.16E-02 3.58E-01 8.87E-02 7.86E-02 1.19E-01 1.52E-01 2.00E-01 2.63E-01

4.97E+01 5.20E-02 2.94E-01 8.66E-02 7.87E-02 1.14E-01 1.44E-01 1.83E-01 2.38E-01

5.26E+01 5.24E-02 2.41E-01 8.46E-02 7.84E-02 1.09E-01 1.36E-01 1.68E-01 2.15E-01

5.57E+01 5.28E-02 2.01E-01 8.28E-02 7.79E-02 1.05E-01 1.30E-01 1.54E-01 1.94E-01

5.90E+01 5.30E-02 1.80E-01 8.11E-02 7.73E-02 1.01E-01 1.22E-01 1.42E-01 1.62E-01



6.24E+01 5.32E-02 1.60E-01 7.95E-02 7.71E-02 9.68E-02 1.15E-01 1.31E-01 1.47E-01

6.60E+01 5.33E-02 1.44E-01 7.81E-02 7.68E-02 9.30E-02 1.08E-01 1.20E-01 1.34E-01

6.99E+01 5.34E-02 1.29E-01 7.68E-02 7.62E-02 8.97E-02 1.02E-01 1.12E-01 1.23E-01

7.39E+01 5.33E-02 1.18E-01 7.56E-02 7.55E-02 8.69E-02 9.75E-02 1.05E-01 1.13E-01

7.82E+01 5.32E-02 1.08E-01 7.45E-02 7.51E-02 8.57E-02 9.40E-02 1.01E-01 1.06E-01

8.28E+01 5.31E-02 1.03E-01 7.35E-02 7.46E-02 8.42E-02 9.10E-02 9.60E-02 9.92E-02

8.76E+01 5.07E-02 9.96E-02 7.25E-02 7.41E-02 8.31E-02 8.83E-02 9.12E-02 9.51E-02

9.27E+01 4.66E-02 9.63E-02 7.17E-02 7.34E-02 8.16E-02 8.47E-02 8.74E-02 9.29E-02



9.81E+01 4.36E-02 9.34E-02 7.08E-02 7.26E-02 8.02E-02 8.22E-02 8.65E-02 9.09E-02

1.00E+02 4.28E-02 9.26E-02 7.06E-02 7.24E-02 7.95E-02 8.21E-02 8.60E-02 9.03E-02

1.04E+02 4.15E-02 9.09E-02 7.00E-02 7.21E-02 7.85E-02 8.10E-02 8.46E-02 8.92E-02

1.10E+02 4.00E-02 8.96E-02 6.93E-02 7.13E-02 7.79E-02 8.00E-02 8.32E-02 8.75E-02

1.16E+02 3.89E-02 8.84E-02 6.86E-02 7.04E-02 7.71E-02 7.90E-02 8.28E-02 8.65E-02

1.23E+02 3.80E-02 8.72E-02 6.78E-02 6.96E-02 7.65E-02 7.80E-02 8.15E-02 8.51E-02

1.30E+02    3.74E-02    8.60E-02    6.71E-02    6.88E-02    7.58E-02    7.72E-02    8.03E-02    8.42E-02

1.38E+02    3.68E-02    8.47E-02    6.64E-02    6.80E-02    7.48E-02    7.66E-02    7.93E-02    8.28E-02



1.46E+02    3.63E-02    8.34E-02    6.57E-02    6.73E-02    7.40E-02    7.60E-02    7.83E-02    8.13E-02

1.54E+02    3.58E-02    8.20E-02    6.49E-02    6.65E-02    7.31E-02    7.51E-02    7.71E-02    7.99E-02

1.63E+02    3.53E-02    8.06E-02    6.41E-02    6.57E-02    7.23E-02    7.42E-02    7.64E-02    7.87E-02

1.73E+02    3.48E-02    7.91E-02    6.33E-02    6.48E-02    7.13E-02    7.33E-02    7.58E-02    7.75E-02

1.83E+02    3.43E-02    7.76E-02    6.25E-02    6.37E-02    7.05E-02    7.23E-02    7.46E-02    7.62E-02

1.94E+02    3.37E-02    7.62E-02    6.17E-02    6.29E-02    6.97E-02    7.17E-02    7.34E-02    7.59E-02

2.05E+02    3.32E-02    7.48E-02    6.08E-02    6.21E-02    6.88E-02    7.08E-02    7.25E-02    7.34E-02

2.17E+02    3.26E-02    7.34E-02    5.98E-02    6.11E-02    6.79E-02    6.91E-02    7.12E-02    7.25E-02



2.29E+02 3.20E-02 7.19E-02 5.88E-02 6.00E-02 6.68E-02 6.81E-02 6.95E-02 7.05E-02

2.43E+02    3.14E-02    7.03E-02    5.77E-02    5.89E-02    6.53E-02    6.71E-02    6.81E-02    6.89E-02

2.57E+02    3.07E-02    6.87E-02    5.65E-02    5.78E-02    6.43E-02    6.58E-02    6.67E-02    6.73E-02

2.72E+02    3.01E-02    6.71E-02    5.53E-02    5.66E-02    6.26E-02    6.45E-02    6.51E-02    6.56E-02

2.88E+02 2.94E-02 6.54E-02 5.40E-02 5.53E-02 6.07E-02 6.27E-02 6.35E-02 6.41E-02

3.00E+02 2.88E-02 6.49E-02 5.30E-02 5.43E-02 5.94E-02 6.15E-02 6.22E-02 6.27E-02

3.05E+02 2.86E-02 6.36E-02 5.26E-02 5.39E-02 5.89E-02 6.10E-02 6.17E-02 6.22E-02

3.22E+02 2.12E-02 6.18E-02 5.11E-02 5.25E-02 5.70E-02 5.90E-02 5.98E-02 6.03E-02



3.41E+02    0.00E+00    5.99E-02    4.94E-02    5.10E-02    5.54E-02    5.71E-02    5.79E-02    5.84E-02

3.61E+02    0.00E+00    5.80E-02    4.78E-02    4.95E-02    5.40E-02    5.50E-02    5.59E-02    5.65E-02

3.82E+02 0.00E+00 5.61E-02 4.61E-02 4.79E-02 5.19E-02 5.35E-02 5.41E-02 5.46E-02

4.04E+02 0.00E+00 5.41E-02 4.43E-02 4.61E-02 5.01E-02 5.16E-02 5.22E-02 5.27E-02

4.28E+02    0.00E+00    5.21E-02    4.26E-02    4.42E-02    4.83E-02    4.94E-02    5.03E-02    5.07E-02

4.53E+02    0.00E+00    5.00E-02    4.09E-02    4.26E-02    4.64E-02    4.72E-02    4.81E-02    4.89E-02

4.79E+02 0.00E+00 4.79E-02 3.91E-02 4.08E-02 4.45E-02 4.53E-02 4.61E-02 4.71E-02

5.07E+02    0.00E+00    4.60E-02    3.73E-02    3.90E-02    4.24E-02    4.35E-02    4.41E-02    4.53E-02



5.36E+02    0.00E+00    4.42E-02    3.55E-02    3.71E-02    4.03E-02    4.12E-02    4.20E-02    4.34E-02

5.68E+02    0.00E+00    4.24E-02    3.37E-02    3.53E-02    3.82E-02    3.91E-02    4.00E-02    4.14E-02

6.01E+02    0.00E+00    4.06E-02    3.18E-02    3.33E-02    3.63E-02    3.70E-02    3.77E-02    3.93E-02

6.36E+02    0.00E+00    3.85E-02    2.99E-02    3.13E-02    3.42E-02    3.48E-02    3.57E-02    3.71E-02

6.73E+02    0.00E+00    3.61E-02    2.80E-02    2.94E-02    3.21E-02    3.28E-02    3.34E-02    3.49E-02

7.12E+02    0.00E+00    3.43E-02    2.61E-02    2.73E-02    3.01E-02    3.09E-02    3.13E-02    3.27E-02

7.53E+02    0.00E+00    3.26E-02    2.42E-02    2.53E-02    2.82E-02    2.88E-02    2.92E-02    3.06E-02

7.97E+02    0.00E+00    2.99E-02    2.24E-02    2.34E-02    2.62E-02    2.68E-02    2.73E-02    2.85E-02



8.44E+02 0.00E+00 2.71E-02 2.05E-02 2.14E-02 2.43E-02 2.49E-02 2.54E-02 2.64E-02

8.93E+02 0.00E+00 2.47E-02 1.87E-02 1.96E-02 2.25E-02 2.30E-02 2.35E-02 2.43E-02

9.45E+02 0.00E+00 2.25E-02 1.70E-02 1.79E-02 2.06E-02 2.11E-02 2.15E-02 2.19E-02

1.00E+03    0.00E+00    2.05E-02    1.53E-02    1.61E-02    1.89E-02    1.93E-02    1.95E-02    2.01E-02

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA PU-241.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	2.351E-01
2	0.000E+00	2.508E-01
3	0.000E+00	2.647E-01

Title : RESRAD Default Parameters  
Input File : FCS BFM INSITU UA PU-241.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 -0.03	11 -0.03	15 0.02	15 0.00
Contaminated zone b parameter	8 -0.04	8 -0.04	6 -0.12	6 -0.04
Evapotranspiration coefficient	3 -0.06	3 -0.06	13 0.04	13 0.01
Wind Speed	5 0.05	5 0.05	11 0.06	11 0.02
Runoff coefficient	10 -0.03	10 -0.03	16 0.01	16 0.00
b Parameter of Unsaturated zone 1	15 0.00	15 0.00	10 0.08	10 0.03
Mass loading for inhalation	16 0.00	16 0.00	7 -0.10	7 -0.03
Indoor dust filtration factor	14 -0.01	14 -0.01	14 -0.03	14 -0.01
Depth of soil mixing layer	13 -0.02	13 -0.02	12 -0.05	12 -0.02
Depth of roots	2 -0.06	2 -0.06	2 0.50	2 0.18
Wet weight crop yield of fruit, grain and non-leafy vegetables	4 -0.05	4 -0.05	4 -0.20	4 -0.06
Weathering removal constant of all vegetation	12 -0.03	12 -0.03	3 -0.29	3 -0.09
Wet foliar interception fraction of leafy vegetables	7 0.05	7 0.05	8 0.10	8 0.03
Humidity in air	17 0.00	17 0.00	17 0.00	17 0.00
Kd of Pu-241 in Contaminated Zone	1 -0.19	1 -0.19	1 -0.95	1 -0.92
Kd of Pu-241 in Saturated Zone	6 0.05	6 0.05	9 0.09	9 0.03
Cover erosion rate	9 -0.04	9 -0.04	5 0.13	5 0.04
R-SQUARE	0.06	0.06	0.91	0.91

-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-241.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	16	0.00	16	0.00	10	-0.05	10	-0.02
Contaminated zone b parameter	5	0.08	5	0.08	13	0.03	12	0.01
Evapotranspiration coefficient	3	0.11	3	0.10	16	-0.01	16	0.00
Wind Speed	17	0.00	17	0.00	9	-0.05	9	-0.02
Runoff coefficient	10	-0.05	10	-0.04	12	0.03	13	0.01
b Parameter of Unsaturated zone 1	7	0.08	7	0.07	8	-0.05	8	-0.02
Mass loading for inhalation	14	0.01	14	0.01	14	0.02	14	0.01
Indoor dust filtration factor	8	-0.06	8	-0.06	15	0.01	15	0.00
Depth of soil mixing layer	6	0.08	6	0.08	17	0.00	17	0.00
Depth of roots	11	0.05	11	0.04	2	0.52	2	0.19
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.05	9	-0.05	11	-0.04	11	-0.01
Weathering removal constant of all vegetation	13	-0.03	13	-0.02	4	-0.18	4	-0.06
Wet foliar interception fraction of leafy vegetables	12	0.04	12	0.04	5	0.17	5	0.05
Humidity in air	15	0.01	15	0.01	6	-0.13	6	-0.04
Kd of Pu-241 in Contaminated Zone	2	-0.13	2	-0.13	1	-0.94	1	-0.91
Kd of Pu-241 in Saturated Zone	1	0.25	1	0.25	7	-0.08	7	-0.03
Cover erosion rate	4	0.09	4	0.08	3	0.24	3	0.08
R-SQUARE	0.12		0.12		0.90		0.90	

-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-241.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	12	0.02	12	0.02	6	0.09	6	0.03
Contaminated zone b parameter	1	0.15	1	0.15	9	0.05	9	0.02
Evapotranspiration coefficient	3	-0.09	3	-0.09	17	0.00	17	0.00
Wind Speed	5	-0.06	5	-0.06	15	-0.02	15	-0.01
Runoff coefficient	16	0.01	16	0.01	12	0.04	12	0.01
b Parameter of Unsaturated zone 1	10	-0.02	10	-0.02	14	0.03	14	0.01
Mass loading for inhalation	15	0.01	15	0.01	10	-0.04	10	-0.01
Indoor dust filtration factor	4	-0.07	4	-0.07	8	0.06	8	0.02
Depth of soil mixing layer	11	-0.02	11	-0.02	11	-0.04	11	-0.01
Depth of roots	7	0.03	7	0.03	2	0.53	2	0.20
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	-0.02	13	-0.02	5	-0.12	5	-0.04
Weathering removal constant of all vegetation	8	-0.03	8	-0.03	3	-0.25	3	-0.08
Wet foliar interception fraction of leafy vegetables	14	-0.01	14	-0.01	7	0.07	7	0.02
Humidity in air	9	-0.02	9	-0.02	16	0.01	16	0.00
Kd of Pu-241 in Contaminated Zone	2	-0.12	2	-0.12	1	-0.95	1	-0.93
Kd of Pu-241 in Saturated Zone	6	-0.04	6	-0.04	13	0.03	13	0.01
Cover erosion rate	17	0.00	17	0.00	4	0.14	4	0.05
R-SQUARE	0.05		0.05		0.90		0.90	

-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.