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Part VI: Uncertainty Analysis

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Probabilistic Input

Number of Sample Runs: 900

Number	Name	Distribution	Parameters																
1	VCZ	CONTINUOUS LOGARITHMIC4	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	DCACTC(3)	LOGNORMAL-N	5.99	1.39															
16	DCACTS(3)	LOGNORMAL-N	5.99	1.39															
17	VCV	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22	.005	.95	.2	1									
18	DWIBWT	CONTINUOUS LINEAR	6	5	0	24	.29	43	.66	53	.68	76	.95	89	1				

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Total Dose Summary

Nuclide (j)	Peak Time	Peak Dose	DOSE(j,t), mrem/yr							
		t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Pu-241										
Min	0.00E+00	2.21E-05	1.62E-06	2.49E-06	4.13E-06	8.77E-06	2.86E-06	4.14E-07	2.99E-07	9.71E-08
Max	8.98E+02	7.77E-03	7.57E-03	7.74E-03	7.70E-03	6.17E-03	2.57E-03	1.04E-03	7.33E-04	2.08E-04
Avg	6.08E+01	5.07E-04	3.70E-04	3.56E-04	3.40E-04	3.20E-04	2.90E-04	2.28E-04	1.39E-04	2.71E-05
Std	1.08E+02	5.04E-04	5.04E-04	4.55E-04	4.02E-04	3.07E-04	1.95E-04	1.42E-04	1.09E-04	2.31E-05
ALL										
Min	0.00E+00	2.21E-05	1.62E-06	2.49E-06	4.13E-06	8.77E-06	2.86E-06	4.14E-07	2.99E-07	9.71E-08
Max	8.98E+02	7.77E-03	7.57E-03	7.74E-03	7.70E-03	6.17E-03	2.57E-03	1.04E-03	7.33E-04	2.08E-04
Avg	6.08E+01	5.07E-04	3.70E-04	3.56E-04	3.40E-04	3.20E-04	2.90E-04	2.28E-04	1.39E-04	2.71E-05
Std	1.08E+02	5.04E-04	5.04E-04	4.55E-04	4.02E-04	3.07E-04	1.95E-04	1.42E-04	1.09E-04	2.31E-05

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		9.43E-13	1.74E-12	3.24E-12	7.51E-12	2.37E-12	3.61E-13	2.61E-13	8.49E-14
Max		5.91E-09	6.11E-09	6.16E-09	5.00E-09	7.22E-09	7.87E-09	5.79E-09	1.41E-09
Avg		3.29E-10	3.19E-10	3.08E-10	3.21E-10	3.42E-10	2.82E-10	2.14E-10	4.50E-11
Std		4.35E-10	3.80E-10	3.33E-10	3.70E-10	6.05E-10	5.28E-10	4.49E-10	1.25E-10
ALL									
Min		9.43E-13	1.74E-12	3.24E-12	7.51E-12	2.37E-12	3.61E-13	2.61E-13	8.49E-14
Max		5.91E-09	6.11E-09	6.16E-09	5.00E-09	7.22E-09	7.87E-09	5.79E-09	1.41E-09
Avg		3.29E-10	3.19E-10	3.08E-10	3.21E-10	3.42E-10	2.82E-10	2.14E-10	4.50E-11
Std		4.35E-10	3.80E-10	3.33E-10	3.70E-10	6.05E-10	5.28E-10	4.49E-10	1.25E-10
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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
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Pu-241									
Min		3.39E-17	1.36E-17	2.44E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.68E-16	6.35E-14	3.62E-10	1.90E-04	3.64E-04	3.97E-04	2.83E-04	6.64E-05
Avg		5.57E-17	2.29E-16	7.14E-13	1.02E-06	2.91E-06	2.73E-06	4.03E-06	1.11E-06
Std		4.38E-17	2.84E-15	1.48E-11	1.24E-05	2.95E-05	2.62E-05	2.16E-05	6.08E-06
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ALL									
Min		3.39E-17	1.36E-17	2.44E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.68E-16	6.35E-14	3.62E-10	1.90E-04	3.64E-04	3.97E-04	2.83E-04	6.64E-05
Avg		5.57E-17	2.29E-16	7.14E-13	1.02E-06	2.91E-06	2.73E-06	4.03E-06	1.11E-06
Std		4.38E-17	2.84E-15	1.48E-11	1.24E-05	2.95E-05	2.62E-05	2.16E-05	6.08E-06
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ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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	3.29E-05	2.93E-05	1.98E-05	1.68E-05	7.02E-06
Avg		0.00E+00	0.00E+00	0.00E+00	1.23E-07	1.05E-07	9.00E-08	3.24E-07	5.86E-08
Std		0.00E+00	0.00E+00	0.00E+00	1.43E-06	1.23E-06	8.80E-07	1.32E-06	3.51E-07
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	3.29E-05	2.93E-05	1.98E-05	1.68E-05	7.02E-06
Avg		0.00E+00	0.00E+00	0.00E+00	1.23E-07	1.05E-07	9.00E-08	3.24E-07	5.86E-08
Std		0.00E+00	0.00E+00	0.00E+00	1.43E-06	1.23E-06	8.80E-07	1.32E-06	3.51E-07
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ALL is total pathway dose summed for all nuclides.

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

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

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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		3.82E-04	3.93E-04	4.16E-04	9.27E-04	8.94E-04	7.61E-04	6.93E-04	1.29E-04
Avg		1.48E-04	1.50E-04	1.54E-04	1.67E-04	1.76E-04	1.45E-04	6.60E-05	3.75E-06
Std		1.00E-04	1.02E-04	1.07E-04	1.23E-04	1.36E-04	1.26E-04	8.82E-05	1.21E-05
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.82E-04	3.93E-04	4.16E-04	9.27E-04	8.94E-04	7.61E-04	6.93E-04	1.29E-04
Avg		1.48E-04	1.50E-04	1.54E-04	1.67E-04	1.76E-04	1.45E-04	6.60E-05	3.75E-06
Std		1.00E-04	1.02E-04	1.07E-04	1.23E-04	1.36E-04	1.26E-04	8.82E-05	1.21E-05

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		6.17E-08	6.11E-08	6.02E-08	7.85E-06	6.43E-06	5.94E-06	2.90E-06	1.32E-06
Avg		2.39E-08	2.33E-08	2.23E-08	6.34E-08	5.52E-08	4.32E-08	9.18E-08	1.60E-08
Std		1.62E-08	1.59E-08	1.54E-08	4.92E-07	3.95E-07	2.98E-07	3.04E-07	7.82E-08
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		6.17E-08	6.11E-08	6.02E-08	7.85E-06	6.43E-06	5.94E-06	2.90E-06	1.32E-06
Avg		2.39E-08	2.33E-08	2.23E-08	6.34E-08	5.52E-08	4.32E-08	9.18E-08	1.60E-08
Std		1.62E-08	1.59E-08	1.54E-08	4.92E-07	3.95E-07	2.98E-07	3.04E-07	7.82E-08
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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): Milk (Water Ind.)

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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		6.75E-09	7.62E-09	9.25E-09	8.02E-07	1.04E-06	1.20E-06	6.02E-07	2.69E-07
Avg		2.62E-09	2.92E-09	3.45E-09	9.44E-09	1.27E-08	1.20E-08	2.01E-08	3.33E-09
Std		1.77E-09	1.99E-09	2.38E-09	5.11E-08	6.43E-08	6.03E-08	6.24E-08	1.60E-08
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		6.75E-09	7.62E-09	9.25E-09	8.02E-07	1.04E-06	1.20E-06	6.02E-07	2.69E-07
Avg		2.62E-09	2.92E-09	3.45E-09	9.44E-09	1.27E-08	1.20E-08	2.01E-08	3.33E-09
Std		1.77E-09	1.99E-09	2.38E-09	5.11E-08	6.43E-08	6.03E-08	6.24E-08	1.60E-08
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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	2.68E-04	2.79E-04	2.95E-04	1.43E-04	6.61E-05
Avg		0.00E+00	0.00E+00	0.00E+00	1.51E-06	1.70E-06	1.55E-06	4.32E-06	7.84E-07
Std		0.00E+00	0.00E+00	0.00E+00	1.70E-05	1.72E-05	1.48E-05	1.51E-05	3.89E-06
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	2.68E-04	2.79E-04	2.95E-04	1.43E-04	6.61E-05
Avg		0.00E+00	0.00E+00	0.00E+00	1.51E-06	1.70E-06	1.55E-06	4.32E-06	7.84E-07
Std		0.00E+00	0.00E+00	0.00E+00	1.70E-05	1.72E-05	1.48E-05	1.51E-05	3.89E-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\BP INSITU UA\FCS BURIED PIPE INSITU UA PU-241.RAD

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
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Pu-241									
Min		9.95E-07	2.00E-06	3.53E-06	7.50E-06	2.72E-06	3.85E-07	2.78E-07	9.04E-08
Max		6.78E-03	6.97E-03	6.98E-03	5.61E-03	2.31E-03	2.53E-04	1.65E-04	5.03E-05
Avg		2.04E-04	1.89E-04	1.71E-04	1.38E-04	9.94E-05	7.24E-05	5.87E-05	1.96E-05
Std		4.57E-04	4.11E-04	3.63E-04	2.67E-04	1.30E-04	5.09E-05	3.84E-05	1.24E-05
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ALL									
Min		9.95E-07	2.00E-06	3.53E-06	7.50E-06	2.72E-06	3.85E-07	2.78E-07	9.04E-08
Max		6.78E-03	6.97E-03	6.98E-03	5.61E-03	2.31E-03	2.53E-04	1.65E-04	5.03E-05
Avg		2.04E-04	1.89E-04	1.71E-04	1.38E-04	9.94E-05	7.24E-05	5.87E-05	1.96E-05
Std		4.57E-04	4.11E-04	3.63E-04	2.67E-04	1.30E-04	5.09E-05	3.84E-05	1.24E-05
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ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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 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\BP INSITU UA\FCS BURIED PIPE 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
<hr/>									
Pu-241									
Min		8.67E-08	1.59E-07	2.01E-07	3.21E-07	1.41E-07	2.85E-08	2.06E-08	6.71E-09
Max		5.87E-04	6.04E-04	6.05E-04	4.87E-04	2.01E-04	7.61E-05	6.23E-05	2.13E-05
Avg		1.78E-05	1.67E-05	1.52E-05	1.24E-05	9.07E-06	6.62E-06	5.36E-06	1.79E-06
Std		4.34E-05	3.98E-05	3.53E-05	2.63E-05	1.43E-05	7.04E-06	5.46E-06	1.78E-06
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U-235									
Min		8.67E-08	1.59E-07	2.01E-07	3.21E-07	1.41E-07	2.85E-08	2.06E-08	6.71E-09
Max		5.87E-04	6.04E-04	6.05E-04	4.87E-04	2.01E-04	7.61E-05	6.23E-05	2.13E-05
Avg		1.78E-05	1.67E-05	1.52E-05	1.24E-05	9.07E-06	6.62E-06	5.36E-06	1.79E-06
Std		4.34E-05	3.98E-05	3.53E-05	2.63E-05	1.43E-05	7.04E-06	5.46E-06	1.78E-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\BP INSITU UA\FCS BURIED PIPE 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		8.93E-11	1.53E-10	2.75E-10	6.31E-10	2.38E-10	2.79E-11	1.84E-11	5.94E-12
Max		8.26E-07	8.51E-07	8.53E-07	6.85E-07	2.75E-07	2.13E-08	1.46E-08	4.30E-09
Avg		2.73E-08	2.52E-08	2.24E-08	1.68E-08	9.89E-09	5.33E-09	4.21E-09	1.38E-09
Std		6.11E-08	5.49E-08	4.79E-08	3.42E-08	1.58E-08	3.78E-09	2.79E-09	9.01E-10
ΣALL									
Min		8.93E-11	1.53E-10	2.75E-10	6.31E-10	2.38E-10	2.79E-11	1.84E-11	5.94E-12
Max		8.26E-07	8.51E-07	8.53E-07	6.85E-07	2.75E-07	2.13E-08	1.46E-08	4.30E-09
Avg		2.73E-08	2.52E-08	2.24E-08	1.68E-08	9.89E-09	5.33E-09	4.21E-09	1.38E-09
Std		6.11E-08	5.49E-08	4.79E-08	3.42E-08	1.58E-08	3.78E-09	2.79E-09	9.01E-10
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE 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
<hr/>									
Pu-241									
Min		1.35E-11	3.38E-11	7.04E-11	1.53E-10	3.10E-11	7.76E-12	5.55E-12	1.80E-12
Max		5.56E-08	5.73E-08	5.77E-08	4.70E-08	2.07E-08	7.17E-09	4.95E-09	1.53E-09
Avg		1.93E-09	1.84E-09	1.73E-09	1.62E-09	1.61E-09	1.58E-09	1.30E-09	4.34E-10
Std		4.29E-09	3.88E-09	3.42E-09	2.57E-09	1.61E-09	1.16E-09	8.95E-10	2.91E-10
ALL									
Min		1.35E-11	3.38E-11	7.04E-11	1.53E-10	3.10E-11	7.76E-12	5.55E-12	1.80E-12
Max		5.56E-08	5.73E-08	5.77E-08	4.70E-08	2.07E-08	7.17E-09	4.95E-09	1.53E-09
Avg		1.93E-09	1.84E-09	1.73E-09	1.62E-09	1.61E-09	1.58E-09	1.30E-09	4.34E-10
Std		4.29E-09	3.88E-09	3.42E-09	2.57E-09	1.61E-09	1.16E-09	8.95E-10	2.91E-10
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ALL is total pathway dose summed for all nuclides.

Cumulative Probability Summary for: Total Dose Over Pathways								
Cumulative	Dose(t), mrem/yr							
Probability	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	1.33E-05	1.46E-05	1.61E-05	2.08E-05	2.56E-05	2.42E-05	1.47E-05	2.87E-06
0.050	2.27E-05	2.41E-05	2.67E-05	3.27E-05	3.63E-05	3.32E-05	2.41E-05	5.29E-06
0.075	3.59E-05	3.74E-05	3.89E-05	4.37E-05	4.49E-05	4.04E-05	2.91E-05	6.83E-06
0.100	5.66E-05	5.76E-05	5.86E-05	6.34E-05	5.36E-05	5.26E-05	3.31E-05	8.24E-06
0.125	1.05E-04	1.06E-04	1.03E-04	9.10E-05	7.00E-05	6.70E-05	4.15E-05	8.87E-06
0.150	1.25E-04	1.29E-04	1.35E-04	1.30E-04	9.25E-05	8.22E-05	4.72E-05	9.54E-06
0.175	1.41E-04	1.45E-04	1.52E-04	1.61E-04	1.30E-04	9.80E-05	5.30E-05	1.02E-05
0.200	1.48E-04	1.53E-04	1.62E-04	1.73E-04	1.55E-04	1.14E-04	5.68E-05	1.07E-05
0.225	1.56E-04	1.61E-04	1.69E-04	1.81E-04	1.78E-04	1.28E-04	6.28E-05	1.13E-05
0.250	1.62E-04	1.68E-04	1.78E-04	1.90E-04	1.85E-04	1.39E-04	6.61E-05	1.19E-05
0.275	1.72E-04	1.77E-04	1.82E-04	1.96E-04	1.95E-04	1.47E-04	7.01E-05	1.25E-05
0.300	1.79E-04	1.85E-04	1.90E-04	2.04E-04	2.04E-04	1.56E-04	7.36E-05	1.31E-05
0.325	1.85E-04	1.90E-04	1.99E-04	2.12E-04	2.12E-04	1.61E-04	8.01E-05	1.39E-05
0.350	1.92E-04	1.98E-04	2.05E-04	2.19E-04	2.19E-04	1.68E-04	8.52E-05	1.52E-05
0.375	2.02E-04	2.07E-04	2.12E-04	2.28E-04	2.26E-04	1.75E-04	8.94E-05	1.64E-05
0.400	2.09E-04	2.14E-04	2.23E-04	2.35E-04	2.33E-04	1.81E-04	9.53E-05	1.72E-05
0.425	2.21E-04	2.25E-04	2.32E-04	2.41E-04	2.40E-04	1.88E-04	1.01E-04	1.81E-05
0.450	2.31E-04	2.37E-04	2.44E-04	2.50E-04	2.46E-04	1.98E-04	1.05E-04	1.90E-05
0.475	2.41E-04	2.46E-04	2.51E-04	2.61E-04	2.52E-04	2.03E-04	1.10E-04	1.99E-05
0.500	2.49E-04	2.56E-04	2.63E-04	2.69E-04	2.61E-04	2.10E-04	1.16E-04	2.07E-05
0.525	2.62E-04	2.68E-04	2.75E-04	2.77E-04	2.68E-04	2.15E-04	1.22E-04	2.20E-05
0.550	2.73E-04	2.78E-04	2.86E-04	2.87E-04	2.77E-04	2.21E-04	1.27E-04	2.30E-05
0.575	2.82E-04	2.89E-04	2.96E-04	2.98E-04	2.88E-04	2.30E-04	1.32E-04	2.41E-05
0.600	2.92E-04	2.99E-04	3.08E-04	3.09E-04	2.97E-04	2.38E-04	1.37E-04	2.55E-05
0.625	3.10E-04	3.16E-04	3.21E-04	3.23E-04	3.10E-04	2.49E-04	1.43E-04	2.66E-05
0.650	3.24E-04	3.31E-04	3.34E-04	3.35E-04	3.22E-04	2.55E-04	1.49E-04	2.87E-05
0.675	3.41E-04	3.42E-04	3.48E-04	3.47E-04	3.29E-04	2.64E-04	1.56E-04	2.99E-05
0.700	3.58E-04	3.59E-04	3.60E-04	3.62E-04	3.41E-04	2.74E-04	1.61E-04	3.17E-05
0.725	3.80E-04	3.82E-04	3.75E-04	3.84E-04	3.65E-04	2.83E-04	1.67E-04	3.35E-05
0.750	3.98E-04	4.01E-04	3.93E-04	3.97E-04	3.78E-04	2.91E-04	1.75E-04	3.66E-05
0.775	4.11E-04	4.20E-04	4.17E-04	4.14E-04	3.93E-04	3.04E-04	1.84E-04	3.86E-05
0.800	4.35E-04	4.37E-04	4.39E-04	4.32E-04	4.07E-04	3.21E-04	1.93E-04	4.11E-05
0.825	4.56E-04	4.59E-04	4.53E-04	4.50E-04	4.40E-04	3.38E-04	2.01E-04	4.48E-05
0.850	5.13E-04	4.99E-04	4.83E-04	4.67E-04	4.60E-04	3.58E-04	2.14E-04	4.73E-05
0.875	5.93E-04	5.71E-04	5.18E-04	4.93E-04	4.81E-04	3.86E-04	2.39E-04	4.87E-05
0.900	6.93E-04	6.63E-04	6.03E-04	5.25E-04	5.10E-04	4.09E-04	2.64E-04	5.00E-05
0.925	8.51E-04	7.90E-04	6.86E-04	5.90E-04	5.44E-04	4.50E-04	3.02E-04	5.23E-05
0.950	1.03E-03	9.49E-04	8.17E-04	7.36E-04	6.09E-04	4.86E-04	3.68E-04	6.08E-05
0.975	1.60E-03	1.42E-03	1.21E-03	9.36E-04	7.01E-04	5.76E-04	4.44E-04	9.29E-05
1.000	7.57E-03	7.74E-03	7.70E-03	6.17E-03	2.57E-03	1.04E-03	7.33E-04	2.08E-04

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	2.84E-06	7.57E-03	3.73E-04	2.53E-04	6.90E-04	1.01E-03	1.75E-03	2.85E-03
1.00E+00	4.58E-06	7.74E-03	3.60E-04	2.57E-04	6.32E-04	9.10E-04	1.38E-03	2.65E-03
1.06E+00	4.63E-06	7.74E-03	3.60E-04	2.58E-04	6.32E-04	9.08E-04	1.37E-03	2.64E-03
1.12E+00	4.69E-06	7.75E-03	3.59E-04	2.58E-04	6.32E-04	9.06E-04	1.37E-03	2.63E-03
1.19E+00	4.74E-06	7.75E-03	3.58E-04	2.59E-04	6.32E-04	9.03E-04	1.36E-03	2.62E-03
1.25E+00	4.80E-06	7.76E-03	3.58E-04	2.59E-04	6.32E-04	9.01E-04	1.36E-03	2.61E-03
1.33E+00	4.87E-06	7.76E-03	3.57E-04	2.58E-04	6.32E-04	8.99E-04	1.35E-03	2.59E-03
1.40E+00	4.94E-06	7.77E-03	3.56E-04	2.58E-04	6.32E-04	8.97E-04	1.34E-03	2.58E-03
1.49E+00	5.01E-06	7.77E-03	3.56E-04	2.58E-04	6.32E-04	8.94E-04	1.34E-03	2.56E-03
1.57E+00	5.08E-06	7.77E-03	3.55E-04	2.58E-04	6.32E-04	8.91E-04	1.33E-03	2.55E-03
1.66E+00	5.16E-06	7.77E-03	3.54E-04	2.58E-04	6.12E-04	8.88E-04	1.32E-03	2.53E-03
1.76E+00	5.24E-06	7.77E-03	3.53E-04	2.59E-04	5.89E-04	8.85E-04	1.31E-03	2.51E-03
1.86E+00	5.33E-06	7.77E-03	3.53E-04	2.61E-04	5.95E-04	8.81E-04	1.30E-03	2.50E-03
1.97E+00	5.42E-06	7.77E-03	3.52E-04	2.62E-04	6.05E-04	8.78E-04	1.30E-03	2.48E-03
2.09E+00	5.52E-06	7.77E-03	3.51E-04	2.63E-04	6.00E-04	8.74E-04	1.29E-03	2.46E-03
2.21E+00	5.62E-06	7.76E-03	3.50E-04	2.64E-04	5.83E-04	8.70E-04	1.28E-03	2.44E-03
2.34E+00	5.73E-06	7.76E-03	3.49E-04	2.65E-04	5.79E-04	8.66E-04	1.27E-03	2.41E-03
2.47E+00	5.84E-06	7.75E-03	3.49E-04	2.66E-04	5.78E-04	8.62E-04	1.26E-03	2.39E-03
2.62E+00	5.96E-06	7.74E-03	3.48E-04	2.67E-04	5.77E-04	8.57E-04	1.25E-03	2.37E-03
2.77E+00	6.08E-06	7.72E-03	3.47E-04	2.67E-04	5.76E-04	8.53E-04	1.23E-03	2.34E-03
2.93E+00	6.21E-06	7.71E-03	3.46E-04	2.59E-04	5.75E-04	8.48E-04	1.22E-03	2.32E-03
3.00E+00	6.27E-06	7.70E-03	3.46E-04	2.59E-04	5.75E-04	8.45E-04	1.22E-03	2.31E-03
3.310E+00	6.35E-06	7.69E-03	3.45E-04	2.60E-04	5.74E-04	8.42E-04	1.21E-03	2.29E-03
3.328E+00	6.49E-06	7.67E-03	3.44E-04	2.60E-04	5.70E-04	8.34E-04	1.20E-03	2.26E-03
3.48E+00	6.64E-06	7.64E-03	3.43E-04	2.60E-04	5.64E-04	8.28E-04	1.18E-03	2.23E-03
3.68E+00	6.80E-06	7.61E-03	3.42E-04	2.57E-04	5.58E-04	8.21E-04	1.17E-03	2.20E-03
3.89E+00	6.97E-06	7.58E-03	3.41E-04	2.59E-04	5.51E-04	8.15E-04	1.15E-03	2.17E-03
4.12E+00	7.14E-06	7.54E-03	3.40E-04	2.60E-04	5.45E-04	8.09E-04	1.14E-03	2.14E-03
4.36E+00	7.32E-06	7.50E-03	3.39E-04	2.59E-04	5.38E-04	8.05E-04	1.13E-03	2.10E-03
4.61E+00	7.51E-06	7.45E-03	3.38E-04	2.61E-04	5.31E-04	8.03E-04	1.12E-03	2.07E-03
4.88E+00	7.71E-06	7.40E-03	3.38E-04	2.61E-04	5.31E-04	8.00E-04	1.11E-03	2.03E-03
5.17E+00	7.92E-06	7.34E-03	3.37E-04	2.62E-04	5.35E-04	7.98E-04	1.10E-03	2.00E-03
5.47E+00	8.14E-06	7.28E-03	3.36E-04	2.63E-04	5.40E-04	7.84E-04	1.08E-03	1.96E-03
5.78E+00	8.37E-06	7.21E-03	3.35E-04	2.61E-04	5.44E-04	7.75E-04	1.06E-03	1.92E-03
6.12E+00	8.60E-06	7.13E-03	3.34E-04	2.61E-04	5.48E-04	7.58E-04	1.02E-03	1.88E-03
6.48E+00	8.85E-06	7.05E-03	3.34E-04	2.62E-04	5.42E-04	7.49E-04	9.98E-04	1.83E-03
6.86E+00	9.11E-06	6.96E-03	3.33E-04	2.64E-04	5.35E-04	7.40E-04	9.80E-04	1.79E-03
7.26E+00	9.37E-06	6.86E-03	3.31E-04	2.65E-04	5.35E-04	7.39E-04	9.62E-04	1.75E-03
7.68E+00	9.65E-06	6.75E-03	3.30E-04	2.65E-04	5.35E-04	7.57E-04	9.67E-04	1.70E-03
8.13E+00	9.94E-06	6.64E-03	3.29E-04	2.66E-04	5.29E-04	7.67E-04	9.71E-04	1.65E-03
8.60E+00	1.02E-05	6.52E-03	3.28E-04	2.67E-04	5.21E-04	7.72E-04	9.74E-04	1.68E-03
9.10E+00	1.05E-05	6.39E-03	3.27E-04	2.68E-04	5.21E-04	7.69E-04	9.70E-04	1.71E-03
9.63E+00	1.09E-05	6.26E-03	3.26E-04	2.66E-04	5.23E-04	7.49E-04	9.58E-04	1.73E-03
1.00E+01	1.11E-05	6.17E-03	3.25E-04	2.68E-04	5.29E-04	7.44E-04	9.50E-04	1.75E-03
1.02E+01	4.88E-06	6.12E-03	3.24E-04	2.68E-04	5.25E-04	7.36E-04	9.45E-04	1.75E-03
1.08E+01	3.33E-06	5.97E-03	3.23E-04	2.68E-04	5.24E-04	7.34E-04	9.32E-04	1.78E-03
1.14E+01	3.34E-06	5.81E-03	3.22E-04	2.64E-04	5.26E-04	7.26E-04	9.18E-04	1.75E-03
1.21E+01	3.35E-06	5.65E-03	3.21E-04	2.65E-04	5.19E-04	7.18E-04	9.04E-04	1.70E-03
1.28E+01	3.36E-06	5.48E-03	3.20E-04	2.64E-04	5.22E-04	7.07E-04	8.90E-04	1.65E-03
1.35E+01	3.37E-06	5.31E-03	3.19E-04	2.66E-04	5.26E-04	6.97E-04	8.74E-04	1.60E-03
1.43E+01	3.38E-06	5.13E-03	3.17E-04	2.68E-04	5.29E-04	6.89E-04	8.68E-04	1.55E-03
1.51E+01	3.39E-06	4.94E-03	3.16E-04	2.68E-04	5.31E-04	6.79E-04	8.65E-04	1.50E-03
1.60E+01	3.40E-06	4.75E-03	3.15E-04	2.66E-04	5.31E-04	6.63E-04	8.62E-04	1.45E-03
1.70E+01	3.41E-06	4.56E-03	3.14E-04	2.65E-04	5.23E-04	6.48E-04	8.58E-04	1.40E-03
1.80E+01	3.42E-06	4.36E-03	3.12E-04	2.66E-04	5.16E-04	6.50E-04	8.42E-04	1.34E-03
1.90E+01	3.43E-06	4.17E-03	3.11E-04	2.65E-04	5.10E-04	6.53E-04	8.28E-04	1.29E-03

2.01E+01 3.44E-06 3.97E-03 3.09E-04 2.64E-04 5.11E-04 6.73E-04 8.21E-04 1.24E-03

2.13E+01 3.45E-06 3.77E-03 3.07E-04 2.64E-04 5.14E-04 6.63E-04 8.06E-04 1.19E-03

2.25E+01 3.46E-06 3.56E-03 3.05E-04 2.61E-04 5.18E-04 6.53E-04 7.88E-04 1.14E-03

2.38E+01 3.47E-06 3.36E-03 3.02E-04 2.62E-04 5.20E-04 6.58E-04 7.67E-04 1.09E-03

2.52E+01 3.48E-06 3.16E-03 3.00E-04 2.60E-04 5.19E-04 6.63E-04 7.38E-04 1.04E-03

2.67E+01 3.49E-06 2.97E-03 2.97E-04 2.57E-04 5.13E-04 6.59E-04 7.28E-04 9.86E-04

2.82E+01 3.49E-06 2.77E-03 2.97E-04 2.58E-04 5.22E-04 6.40E-04 7.57E-04 9.54E-04

2.99E+01 3.50E-06 2.58E-03 2.95E-04 2.59E-04 5.23E-04 6.19E-04 7.52E-04 9.54E-04

3.00E+01 3.50E-06 2.57E-03 2.95E-04 2.59E-04 5.22E-04 6.18E-04 7.52E-04 9.54E-04

3.16E+01 3.51E-06 2.40E-03 2.93E-04 2.57E-04 5.22E-04 6.29E-04 8.04E-04 9.52E-04

3.35E+01 3.51E-06 2.22E-03 2.91E-04 2.54E-04 5.23E-04 6.25E-04 7.79E-04 9.49E-04

3.54E+01	3.51E-06	2.04E-03	2.88E-04	2.51E-04	5.24E-04	6.19E-04	7.38E-04	9.45E-04
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3.75E+01 3.51E-06 1.87E-03 2.84E-04 2.49E-04 5.21E-04 6.09E-04 7.08E-04 9.39E-04

3.97E+01 3.51E-06 1.71E-03 2.83E-04 2.53E-04 5.13E-04 6.01E-04 7.01E-04 9.32E-04

4.20E+01 3.51E-06 1.56E-03 2.82E-04 2.50E-04 5.14E-04 5.98E-04 6.80E-04 9.24E-04

4.44E+01 3.44E-06 1.42E-03 2.81E-04 2.48E-04 5.19E-04 5.94E-04 7.05E-04 9.14E-04

4.70E+01 3.51E-06 1.28E-03 2.78E-04 2.48E-04 5.17E-04 5.86E-04 7.17E-04 9.03E-04

4.97E+01 3.50E-06 1.15E-03 2.75E-04 2.45E-04 5.15E-04 5.84E-04 7.17E-04 8.90E-04

5.26E+01	3.50E-06	1.04E-03	2.72E-04	2.42E-04	5.08E-04	5.78E-04	7.15E-04	8.76E-04
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5.57E+01	3.49E-06	9.31E-04	2.70E-04	2.39E-04	5.10E-04	5.89E-04	7.21E-04	8.43E-04
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5.90E+01	3.48E-06	8.45E-04	2.65E-04	2.38E-04	4.97E-04	5.83E-04	7.21E-04	8.35E-04
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6.24E+01 3.46E-06 9.03E-04 2.62E-04 2.35E-04 4.96E-04 6.14E-04 7.07E-04 8.27E-04

6.60E+01 3.45E-06 1.19E-03 2.59E-04 2.33E-04 4.88E-04 5.70E-04 6.93E-04 8.15E-04

6.99E+01 3.44E-06 8.28E-04 2.53E-04 2.30E-04 4.76E-04 5.42E-04 6.79E-04 7.88E-04

7.39E+01 3.42E-06 8.22E-04 2.49E-04 2.28E-04 4.72E-04 5.33E-04 6.81E-04 7.72E-04

7.82E+01 3.40E-06 8.15E-04 2.47E-04 2.24E-04 4.57E-04 5.45E-04 6.76E-04 7.65E-04

8.28E+01 3.38E-06 8.29E-04 2.47E-04 2.22E-04 4.66E-04 5.43E-04 6.79E-04 7.66E-04

8.76E+01 3.35E-06 8.95E-04 2.44E-04 2.20E-04 4.60E-04 5.87E-04 6.72E-04 7.52E-04

9.27E+01 3.33E-06 8.79E-04 2.41E-04 2.17E-04 4.51E-04 5.74E-04 6.70E-04 7.42E-04

9.81E+01 3.30E-06 8.61E-04 2.36E-04 2.12E-04 4.43E-04 5.60E-04 6.54E-04 7.36E-04

1.00E+02 3.29E-06 8.55E-04 2.34E-04 2.10E-04 4.47E-04 5.55E-04 6.51E-04 7.30E-04

1.04E+02 3.27E-06 8.43E-04 2.31E-04 2.06E-04 4.42E-04 5.46E-04 6.44E-04 7.23E-04

1.10E+02 3.24E-06 8.25E-04 2.29E-04 2.03E-04 4.35E-04 5.50E-04 6.34E-04 7.13E-04

1.16E+02 3.21E-06 8.05E-04 2.31E-04 2.02E-04 4.41E-04 5.78E-04 6.34E-04 7.42E-04

1.23E+02 3.18E-06 8.72E-04 2.28E-04 1.97E-04 4.39E-04 5.78E-04 6.37E-04 7.84E-04

1.30E+02 3.14E-06 9.72E-04 2.25E-04 1.92E-04 4.30E-04 5.64E-04 6.20E-04 7.63E-04

1.38E+02 3.11E-06 8.92E-04 2.20E-04 1.88E-04 4.26E-04 5.50E-04 6.04E-04 7.42E-04

1.46E+02 3.07E-06 7.49E-04 2.14E-04 1.83E-04 4.18E-04 5.36E-04 5.87E-04 6.85E-04

1.54E+02 3.02E-06 8.09E-04 2.08E-04 1.80E-04 4.10E-04 5.12E-04 5.71E-04 6.69E-04

1.63E+02 2.98E-06 1.05E-03 2.05E-04 1.76E-04 4.05E-04 5.18E-04 5.59E-04 7.20E-04

1.73E+02 2.94E-06 1.01E-03 2.00E-04 1.71E-04 3.93E-04 5.08E-04 5.59E-04 7.06E-04

1.83E+02 2.89E-06 9.81E-04 1.96E-04 1.68E-04 3.77E-04 4.97E-04 5.47E-04 6.90E-04

1.94E+02 2.84E-06 1.01E-03 1.93E-04 1.64E-04 3.81E-04 4.87E-04 5.39E-04 6.75E-04

2.05E+02 2.79E-06 9.72E-04 1.88E-04 1.59E-04 3.75E-04 4.92E-04 5.51E-04 6.59E-04

2.17E+02 2.74E-06 9.30E-04 1.83E-04 1.56E-04 3.64E-04 4.76E-04 5.50E-04 6.42E-04

2.29E+02 2.68E-06 8.89E-04 1.81E-04 1.51E-04 3.64E-04 4.72E-04 5.40E-04 6.40E-04

2.43E+02 2.62E-06 8.77E-04 1.72E-04 1.43E-04 3.47E-04 4.56E-04 5.22E-04 6.06E-04

2.57E+02 2.57E-06 7.08E-04 1.60E-04 1.36E-04 3.17E-04 4.39E-04 4.98E-04 5.88E-04

2.72E+02 2.51E-06 6.68E-04 1.50E-04 1.31E-04 2.95E-04 3.79E-04 4.60E-04 5.12E-04

2.88E+02 2.44E-06 6.29E-04 1.44E-04 1.24E-04 2.86E-04 4.07E-04 4.43E-04 4.85E-04

3.00E+02 2.39E-06 6.00E-04 1.39E-04 1.20E-04 2.79E-04 4.04E-04 4.31E-04 5.20E-04

3.05E+02 2.38E-06 5.89E-04 1.38E-04 1.17E-04 2.69E-04 4.00E-04 4.30E-04 5.14E-04

3.22E+02 2.31E-06 8.68E-04 1.34E-04 1.12E-04 2.68E-04 3.84E-04 4.38E-04 5.10E-04

3.41E+02 2.24E-06 8.28E-04 1.26E-04 1.02E-04 2.49E-04 3.58E-04 4.40E-04 5.71E-04

3.61E+02 2.17E-06 7.86E-04 1.20E-04 9.41E-05 2.41E-04 3.60E-04 4.09E-04 5.49E-04

3.82E+02 2.10E-06 7.43E-04 1.10E-04 8.61E-05 2.00E-04 2.98E-04 3.55E-04 5.52E-04

4.04E+02 2.03E-06 7.00E-04 1.01E-04 7.96E-05 1.85E-04 2.74E-04 3.55E-04 5.02E-04

4.28E+02 1.95E-06 6.57E-04 9.86E-05 7.54E-05 2.00E-04 2.92E-04 3.38E-04 4.70E-04

4.53E+02 1.87E-06 6.16E-04 9.41E-05 7.23E-05 1.88E-04 2.78E-04 3.36E-04 4.44E-04

4.79E+02 1.80E-06 5.83E-04 8.76E-05 6.63E-05 1.73E-04 2.51E-04 3.11E-04 4.19E-04

5.07E+02 1.72E-06 3.93E-04 7.94E-05 6.01E-05 1.58E-04 2.25E-04 2.81E-04 3.75E-04

5.36E+02 1.64E-06 5.03E-04 7.52E-05 5.50E-05 1.46E-04 2.12E-04 2.61E-04 3.60E-04

5.68E+02 1.56E-06 3.56E-04 6.81E-05 5.02E-05 1.32E-04 1.94E-04 2.40E-04 3.36E-04

6.01E+02 1.48E-06 3.19E-04 6.30E-05 4.72E-05 1.20E-04 1.99E-04 2.24E-04 3.08E-04

6.36E+02	1.40E-06	3.00E-04	5.77E-05	4.32E-05	1.06E-04	1.64E-04	2.02E-04	2.88E-04
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6.73E+02 1.32E-06 2.71E-04 5.20E-05 4.02E-05 9.63E-05 1.44E-04 1.84E-04 2.54E-04

7.12E+02 1.24E-06 2.48E-04 4.81E-05 3.66E-05 8.79E-05 1.36E-04 1.77E-04 2.30E-04

7.53E+02 1.16E-06 2.27E-04 4.43E-05 3.36E-05 8.10E-05 1.22E-04 1.67E-04 2.26E-04

7.97E+02 1.08E-06 2.77E-04 4.11E-05 3.10E-05 7.41E-05 1.10E-04 1.61E-04 2.15E-04

8.44E+02 1.00E-06 2.47E-04 3.74E-05 2.85E-05 6.79E-05 1.00E-04 1.34E-04 1.85E-04

8.93E+02 9.25E-07 2.33E-04 3.38E-05 2.57E-05 6.11E-05 8.75E-05 1.21E-04 1.66E-04

9.45E+02 8.51E-07 1.92E-04 2.97E-05 2.33E-05 5.50E-05 6.21E-05 1.03E-04 1.39E-04

1.00E+03 7.79E-07 1.84E-04 2.69E-05 2.08E-05 4.91E-05 5.64E-05 9.64E-05 1.31E-04

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE 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	4.99E-06	4.24E-03	3.69E-04	2.52E-04	6.86E-04	1.18E-03	1.51E-03	3.60E-03
1.00E+00	5.91E-06	3.97E-03	3.56E-04	2.60E-04	6.42E-04	9.56E-04	1.45E-03	2.90E-03
1.06E+00	5.96E-06	3.95E-03	3.55E-04	2.60E-04	6.40E-04	9.50E-04	1.45E-03	2.87E-03
1.12E+00	6.02E-06	3.94E-03	3.54E-04	2.61E-04	6.39E-04	9.46E-04	1.45E-03	2.83E-03
1.19E+00	6.08E-06	3.92E-03	3.53E-04	2.61E-04	6.37E-04	9.42E-04	1.45E-03	2.79E-03
1.25E+00	6.14E-06	3.90E-03	3.53E-04	2.61E-04	6.35E-04	9.38E-04	1.45E-03	2.75E-03
1.33E+00	6.21E-06	3.88E-03	3.52E-04	2.62E-04	6.33E-04	9.33E-04	1.45E-03	2.71E-03
1.40E+00	6.28E-06	3.86E-03	3.51E-04	2.62E-04	6.32E-04	9.29E-04	1.45E-03	2.67E-03
1.49E+00	6.35E-06	3.84E-03	3.50E-04	2.62E-04	6.30E-04	9.23E-04	1.44E-03	2.62E-03
1.57E+00	6.43E-06	3.82E-03	3.50E-04	2.61E-04	6.24E-04	9.11E-04	1.44E-03	2.57E-03
1.66E+00	6.51E-06	3.80E-03	3.49E-04	2.61E-04	6.18E-04	8.99E-04	1.43E-03	2.52E-03
1.76E+00	6.59E-06	3.77E-03	3.48E-04	2.62E-04	6.17E-04	8.92E-04	1.42E-03	2.47E-03
1.86E+00	6.68E-06	3.75E-03	3.47E-04	2.62E-04	6.19E-04	8.96E-04	1.42E-03	2.42E-03
1.97E+00	6.78E-06	3.72E-03	3.46E-04	2.62E-04	6.21E-04	8.99E-04	1.41E-03	2.37E-03
2.09E+00	6.88E-06	3.69E-03	3.45E-04	2.62E-04	6.21E-04	8.92E-04	1.40E-03	2.31E-03
2.21E+00	6.98E-06	3.66E-03	3.44E-04	2.62E-04	6.16E-04	8.86E-04	1.39E-03	2.25E-03
2.34E+00	7.09E-06	3.63E-03	3.43E-04	2.62E-04	6.08E-04	8.80E-04	1.39E-03	2.20E-03
2.47E+00	7.21E-06	3.60E-03	3.42E-04	2.62E-04	6.00E-04	8.73E-04	1.38E-03	2.14E-03
2.62E+00	7.33E-06	3.57E-03	3.41E-04	2.63E-04	5.93E-04	8.66E-04	1.37E-03	2.08E-03
2.77E+00	7.46E-06	3.53E-03	3.39E-04	2.64E-04	5.87E-04	8.59E-04	1.36E-03	2.01E-03
2.93E+00	7.60E-06	3.49E-03	3.38E-04	2.63E-04	5.77E-04	8.51E-04	1.32E-03	1.95E-03
3.00E+00	7.66E-06	3.48E-03	3.38E-04	2.63E-04	5.73E-04	8.48E-04	1.30E-03	1.92E-03
3.310E+00	7.74E-06	3.45E-03	3.37E-04	2.64E-04	5.67E-04	8.43E-04	1.28E-03	1.88E-03
3.328E+00	7.90E-06	3.41E-03	3.36E-04	2.64E-04	5.55E-04	8.35E-04	1.23E-03	1.82E-03
3.48E+00	8.05E-06	3.37E-03	3.35E-04	2.65E-04	5.43E-04	8.26E-04	1.19E-03	1.75E-03
3.68E+00	8.22E-06	3.33E-03	3.34E-04	2.67E-04	5.33E-04	8.17E-04	1.17E-03	1.72E-03
3.89E+00	8.40E-06	3.28E-03	3.32E-04	2.68E-04	5.24E-04	8.08E-04	1.16E-03	1.72E-03
4.12E+00	8.58E-06	3.23E-03	3.31E-04	2.70E-04	5.18E-04	7.99E-04	1.14E-03	1.72E-03
4.36E+00	8.77E-06	3.18E-03	3.30E-04	2.71E-04	5.08E-04	7.89E-04	1.13E-03	1.72E-03
4.61E+00	8.97E-06	3.13E-03	3.29E-04	2.70E-04	5.05E-04	7.82E-04	1.12E-03	1.72E-03
4.88E+00	9.18E-06	3.08E-03	3.28E-04	2.72E-04	5.04E-04	7.76E-04	1.10E-03	1.73E-03
5.17E+00	9.41E-06	3.02E-03	3.28E-04	2.74E-04	5.16E-04	7.70E-04	1.08E-03	1.73E-03
5.47E+00	9.64E-06	2.97E-03	3.27E-04	2.75E-04	5.29E-04	7.45E-04	1.07E-03	1.73E-03
5.78E+00	9.88E-06	2.91E-03	3.27E-04	2.73E-04	5.40E-04	7.57E-04	1.07E-03	1.73E-03
6.12E+00	1.01E-05	2.84E-03	3.26E-04	2.71E-04	5.40E-04	7.46E-04	1.05E-03	1.73E-03
6.48E+00	1.04E-05	2.78E-03	3.24E-04	2.71E-04	5.35E-04	7.28E-04	1.02E-03	1.73E-03
6.86E+00	1.07E-05	2.72E-03	3.23E-04	2.68E-04	5.29E-04	7.09E-04	9.88E-04	1.72E-03
7.26E+00	1.10E-05	2.65E-03	3.22E-04	2.68E-04	5.17E-04	6.90E-04	9.88E-04	1.72E-03
7.68E+00	1.13E-05	2.58E-03	3.22E-04	2.66E-04	5.16E-04	6.71E-04	9.79E-04	1.72E-03
8.13E+00	1.14E-05	2.51E-03	3.21E-04	2.67E-04	5.18E-04	6.75E-04	9.71E-04	1.71E-03
8.60E+00	1.16E-05	2.44E-03	3.20E-04	2.67E-04	5.14E-04	7.05E-04	9.61E-04	1.70E-03
9.10E+00	1.18E-05	2.37E-03	3.20E-04	2.68E-04	5.13E-04	6.98E-04	9.50E-04	1.69E-03
9.63E+00	1.20E-05	2.29E-03	3.19E-04	2.68E-04	5.02E-04	6.89E-04	9.48E-04	1.68E-03
1.00E+01	1.21E-05	2.24E-03	3.18E-04	2.67E-04	5.02E-04	6.84E-04	9.74E-04	1.68E-03
1.02E+01	1.22E-05	2.21E-03	3.18E-04	2.68E-04	5.03E-04	6.81E-04	9.75E-04	1.67E-03
1.08E+01	1.24E-05	2.14E-03	3.17E-04	2.70E-04	5.01E-04	6.84E-04	9.76E-04	1.66E-03
1.14E+01	1.26E-05	2.06E-03	3.15E-04	2.73E-04	5.05E-04	6.84E-04	9.73E-04	1.64E-03
1.21E+01	5.05E-06	1.98E-03	3.16E-04	2.71E-04	5.09E-04	6.84E-04	9.86E-04	1.63E-03
1.28E+01	3.28E-06	1.90E-03	3.15E-04	2.71E-04	5.08E-04	6.86E-04	1.01E-03	1.60E-03
1.35E+01	3.32E-06	1.82E-03	3.13E-04	2.73E-04	5.12E-04	6.88E-04	9.88E-04	1.54E-03
1.43E+01	3.36E-06	1.74E-03	3.11E-04	2.69E-04	5.14E-04	6.82E-04	9.63E-04	1.47E-03
1.51E+01	3.40E-06	1.67E-03	3.09E-04	2.66E-04	5.14E-04	6.17E-04	9.46E-04	1.41E-03
1.60E+01	3.45E-06	1.59E-03	3.07E-04	2.65E-04	5.14E-04	6.21E-04	9.23E-04	1.41E-03
1.70E+01	3.49E-06	1.51E-03	3.05E-04	2.59E-04	5.15E-04	6.25E-04	9.03E-04	1.48E-03
1.80E+01	3.53E-06	1.55E-03	3.03E-04	2.59E-04	5.16E-04	6.09E-04	8.74E-04	1.43E-03
1.90E+01	3.57E-06	1.55E-03	3.01E-04	2.61E-04	5.07E-04	5.99E-04	8.51E-04	1.36E-03

2.01E+01 3.50E-06 1.56E-03 2.99E-04 2.62E-04 5.02E-04 5.93E-04 8.26E-04 1.28E-03

2.13E+01 3.41E-06 1.57E-03 3.00E-04 2.60E-04 5.02E-04 5.97E-04 8.28E-04 1.21E-03

2.25E+01 3.32E-06 1.62E-03 2.98E-04 2.58E-04 5.03E-04 5.94E-04 8.05E-04 1.21E-03

2.38E+01	3.23E-06	1.80E-03	2.97E-04	2.58E-04	5.02E-04	5.90E-04	7.81E-04	1.20E-03
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2.52E+01	3.14E-06	1.46E-03	2.94E-04	2.57E-04	5.00E-04	6.04E-04	7.56E-04	1.20E-03
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2.67E+01 3.05E-06 1.19E-03 2.92E-04 2.58E-04 4.99E-04 6.06E-04 7.50E-04 1.07E-03

2.82E+01 2.96E-06 1.18E-03 2.88E-04 2.58E-04 4.90E-04 5.86E-04 7.17E-04 8.96E-04

2.99E+01 2.87E-06 1.17E-03 2.85E-04 2.59E-04 4.90E-04 5.83E-04 6.84E-04 8.42E-04

3.00E+01	2.86E-06	1.17E-03	2.84E-04	2.59E-04	4.90E-04	5.84E-04	6.82E-04	8.38E-04
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3.16E+01 2.79E-06 1.16E-03 2.82E-04 2.57E-04 4.85E-04 5.91E-04 6.65E-04 7.92E-04

3.35E+01	2.70E-06	1.14E-03	2.80E-04	2.59E-04	4.86E-04	5.95E-04	6.62E-04	7.45E-04
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3.54E+01 2.62E-06 1.21E-03 2.78E-04 2.58E-04 4.88E-04 5.77E-04 6.63E-04 7.29E-04

3.75E+01 2.55E-06 1.41E-03 2.76E-04 2.57E-04 4.85E-04 5.71E-04 6.50E-04 7.29E-04

3.97E+01 2.47E-06 1.58E-03 2.74E-04 2.53E-04 4.80E-04 5.67E-04 6.15E-04 7.29E-04

4.20E+01 2.40E-06 1.19E-03 2.71E-04 2.51E-04 4.75E-04 5.48E-04 6.03E-04 7.28E-04

4.44E+01 2.33E-06 7.59E-04 2.67E-04 2.50E-04 4.68E-04 5.40E-04 6.01E-04 7.28E-04

4.70E+01 2.26E-06 7.66E-04 2.64E-04 2.47E-04 4.63E-04 5.37E-04 5.99E-04 7.07E-04

4.97E+01 2.20E-06 7.70E-04 2.60E-04 2.44E-04 4.61E-04 5.32E-04 5.96E-04 6.76E-04

5.26E+01 2.14E-06 7.70E-04 2.57E-04 2.43E-04 4.57E-04 5.27E-04 5.92E-04 6.74E-04

5.57E+01 2.09E-06 7.70E-04 2.55E-04 2.42E-04 4.55E-04 5.21E-04 5.99E-04 6.97E-04

5.90E+01 2.03E-06 8.15E-04 2.53E-04 2.40E-04 4.51E-04 5.29E-04 6.02E-04 7.17E-04

6.24E+01 1.99E-06 7.67E-04 2.50E-04 2.38E-04 4.46E-04 5.23E-04 5.93E-04 6.66E-04

6.60E+01 1.94E-06 7.65E-04 2.46E-04 2.34E-04 4.40E-04 5.04E-04 5.71E-04 6.62E-04

6.99E+01 1.90E-06 7.62E-04 2.41E-04 2.32E-04 4.28E-04 4.99E-04 5.61E-04 6.57E-04

7.39E+01	1.87E-06	7.59E-04	2.38E-04	2.29E-04	4.25E-04	4.95E-04	5.50E-04	6.52E-04
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7.82E+01 1.83E-06 7.54E-04 2.34E-04 2.24E-04 4.21E-04 4.91E-04 5.46E-04 6.47E-04

8.28E+01 1.80E-06 7.49E-04 2.31E-04 2.21E-04 4.12E-04 4.83E-04 5.36E-04 6.40E-04

8.76E+01	1.77E-06	7.44E-04	2.27E-04	2.18E-04	4.07E-04	4.77E-04	5.24E-04	6.34E-04
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9.27E+01 1.74E-06 7.38E-04 2.24E-04 2.14E-04 4.00E-04 4.68E-04 5.40E-04 6.55E-04

9.81E+01 1.72E-06 7.31E-04 2.21E-04 2.12E-04 3.92E-04 4.54E-04 5.32E-04 6.72E-04

1.00E+02 1.71E-06 7.29E-04 2.21E-04 2.11E-04 3.94E-04 4.60E-04 5.30E-04 6.70E-04

1.04E+02 1.69E-06 7.24E-04 2.18E-04 2.09E-04 3.86E-04 4.44E-04 5.39E-04 6.65E-04

1.10E+02 1.67E-06 7.17E-04 2.13E-04 2.05E-04 3.77E-04 4.31E-04 5.30E-04 6.58E-04

1.16E+02 1.65E-06 7.08E-04 2.08E-04 2.00E-04 3.67E-04 4.19E-04 5.22E-04 6.49E-04

1.23E+02 1.62E-06 7.00E-04 2.05E-04 1.97E-04 3.61E-04 4.09E-04 5.12E-04 6.41E-04

1.30E+02 1.60E-06 7.12E-04 2.03E-04 1.94E-04 3.54E-04 4.17E-04 5.41E-04 6.75E-04

1.38E+02 1.58E-06 7.02E-04 2.00E-04 1.91E-04 3.46E-04 4.10E-04 5.47E-04 6.80E-04

1.46E+02 1.56E-06 6.91E-04 1.95E-04 1.87E-04 3.35E-04 4.00E-04 5.30E-04 6.70E-04

1.54E+02 1.54E-06 6.80E-04 1.92E-04 1.83E-04 3.27E-04 4.06E-04 5.10E-04 6.59E-04

1.63E+02 1.51E-06 6.68E-04 1.87E-04 1.78E-04 3.18E-04 3.82E-04 4.99E-04 6.48E-04

1.73E+02 1.49E-06 6.56E-04 1.81E-04 1.73E-04 3.08E-04 3.67E-04 4.87E-04 6.36E-04

1.83E+02 1.47E-06 6.43E-04 1.77E-04 1.68E-04 3.00E-04 3.84E-04 4.95E-04 6.24E-04

1.94E+02 1.44E-06 6.30E-04 1.75E-04 1.65E-04 2.93E-04 3.75E-04 4.86E-04 6.19E-04

2.05E+02 1.41E-06 6.17E-04 1.74E-04 1.61E-04 2.98E-04 4.34E-04 5.10E-04 6.00E-04

2.17E+02 1.39E-06 7.72E-04 1.71E-04 1.58E-04 2.93E-04 4.19E-04 5.33E-04 5.91E-04

2.29E+02 1.36E-06 7.34E-04 1.67E-04 1.52E-04 2.89E-04 4.10E-04 5.22E-04 5.88E-04

2.43E+02 1.33E-06 8.88E-04 1.62E-04 1.45E-04 2.82E-04 3.95E-04 5.06E-04 6.94E-04

2.57E+02 1.30E-06 8.47E-04 1.58E-04 1.39E-04 2.83E-04 4.20E-04 4.94E-04 6.56E-04

2.72E+02 1.27E-06 7.35E-04 1.47E-04 1.27E-04 2.53E-04 3.87E-04 4.79E-04 5.62E-04

2.88E+02 1.24E-06 6.94E-04 1.45E-04 1.19E-04 2.74E-04 3.94E-04 5.06E-04 5.81E-04

3.00E+02 1.21E-06 6.77E-04 1.39E-04 1.14E-04 2.59E-04 3.80E-04 4.73E-04 6.61E-04

3.05E+02 1.21E-06 6.71E-04 1.37E-04 1.11E-04 2.57E-04 3.81E-04 4.66E-04 6.53E-04

3.22E+02 1.17E-06 7.13E-04 1.29E-04 1.02E-04 2.39E-04 3.58E-04 4.51E-04 6.46E-04

3.41E+02 1.14E-06 6.59E-04 1.23E-04 9.71E-05 2.32E-04 3.42E-04 4.33E-04 6.22E-04

3.61E+02 1.10E-06 6.08E-04 1.18E-04 9.36E-05 2.23E-04 3.40E-04 4.44E-04 5.90E-04

3.82E+02 1.06E-06 6.62E-04 1.15E-04 8.73E-05 2.13E-04 3.43E-04 4.45E-04 5.74E-04

4.04E+02 1.03E-06 6.11E-04 1.07E-04 8.25E-05 1.96E-04 3.14E-04 4.13E-04 5.43E-04

4.28E+02 9.89E-07 5.62E-04 1.01E-04 7.85E-05 1.94E-04 2.94E-04 3.86E-04 5.19E-04

4.53E+02 9.51E-07 5.15E-04 9.57E-05 7.26E-05 1.87E-04 2.88E-04 3.68E-04 4.94E-04

4.79E+02 9.11E-07 4.79E-04 8.97E-05 6.83E-05 1.76E-04 2.75E-04 3.46E-04 4.70E-04

5.07E+02 8.71E-07 4.47E-04 8.11E-05 6.12E-05 1.58E-04 2.54E-04 3.08E-04 3.89E-04

5.36E+02 8.31E-07 4.22E-04 7.55E-05 5.66E-05 1.48E-04 2.35E-04 2.96E-04 3.67E-04

5.68E+02 7.90E-07 3.96E-04 7.09E-05 5.20E-05 1.40E-04 2.10E-04 2.72E-04 3.70E-04

6.01E+02 7.50E-07 4.76E-04 6.67E-05 4.83E-05 1.34E-04 1.94E-04 2.47E-04 3.70E-04

6.36E+02 7.09E-07 4.40E-04 6.25E-05 4.38E-05 1.25E-04 1.89E-04 2.59E-04 3.46E-04

6.73E+02 6.68E-07 4.04E-04 5.70E-05 4.06E-05 1.07E-04 1.73E-04 2.33E-04 3.23E-04

7.12E+02 6.27E-07 3.70E-04 5.21E-05 3.75E-05 9.33E-05 1.40E-04 2.09E-04 3.19E-04

7.53E+02 5.87E-07 4.74E-04 4.78E-05 3.51E-05 8.20E-05 1.22E-04 1.89E-04 3.35E-04

7.97E+02 5.47E-07 3.13E-04 4.23E-05 3.21E-05 7.42E-05 1.04E-04 1.70E-04 2.64E-04

8.44E+02 5.08E-07 2.88E-04 3.89E-05 2.91E-05 6.80E-05 9.56E-05 1.52E-04 2.72E-04

8.93E+02 4.69E-07 2.69E-04 3.53E-05 2.61E-05 6.28E-05 8.72E-05 1.35E-04 2.43E-04

9.45E+02 4.32E-07 2.33E-04 3.17E-05 2.31E-05 5.82E-05 7.90E-05 1.20E-04 1.95E-04

1.00E+03 3.95E-07 2.08E-04 2.81E-05 2.11E-05 5.16E-05 7.11E-05 9.62E-05 1.42E-04

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	1.62E-06	3.11E-03	3.67E-04	2.44E-04	7.56E-04	1.03E-03	1.86E-03	2.91E-03
1.00E+00	2.49E-06	2.88E-03	3.53E-04	2.49E-04	7.32E-04	9.57E-04	1.52E-03	2.45E-03
1.06E+00	2.54E-06	2.86E-03	3.53E-04	2.49E-04	7.28E-04	9.55E-04	1.50E-03	2.43E-03
1.12E+00	2.60E-06	2.85E-03	3.52E-04	2.50E-04	7.24E-04	9.53E-04	1.48E-03	2.41E-03
1.19E+00	2.65E-06	2.83E-03	3.51E-04	2.51E-04	7.21E-04	9.51E-04	1.46E-03	2.39E-03
1.25E+00	2.71E-06	2.82E-03	3.50E-04	2.51E-04	7.17E-04	9.49E-04	1.44E-03	2.36E-03
1.33E+00	2.77E-06	2.80E-03	3.50E-04	2.51E-04	7.13E-04	9.46E-04	1.42E-03	2.34E-03
1.40E+00	2.84E-06	2.78E-03	3.49E-04	2.52E-04	7.09E-04	9.08E-04	1.41E-03	2.32E-03
1.49E+00	2.90E-06	2.77E-03	3.48E-04	2.53E-04	7.05E-04	8.67E-04	1.40E-03	2.29E-03
1.57E+00	2.98E-06	2.75E-03	3.47E-04	2.54E-04	7.00E-04	8.62E-04	1.39E-03	2.26E-03
1.66E+00	3.05E-06	2.73E-03	3.47E-04	2.54E-04	6.95E-04	8.57E-04	1.38E-03	2.24E-03
1.76E+00	3.13E-06	2.71E-03	3.46E-04	2.55E-04	6.90E-04	8.53E-04	1.37E-03	2.21E-03
1.86E+00	3.22E-06	2.69E-03	3.45E-04	2.56E-04	6.84E-04	8.47E-04	1.36E-03	2.18E-03
1.97E+00	3.31E-06	2.66E-03	3.44E-04	2.56E-04	6.79E-04	8.42E-04	1.35E-03	2.14E-03
2.09E+00	3.40E-06	2.64E-03	3.43E-04	2.57E-04	6.72E-04	8.37E-04	1.34E-03	2.11E-03
2.21E+00	3.50E-06	2.61E-03	3.42E-04	2.58E-04	6.67E-04	8.31E-04	1.33E-03	2.08E-03
2.34E+00	3.60E-06	2.59E-03	3.41E-04	2.59E-04	6.64E-04	8.30E-04	1.31E-03	2.04E-03
2.47E+00	3.71E-06	2.56E-03	3.40E-04	2.60E-04	6.61E-04	8.20E-04	1.30E-03	2.00E-03
2.62E+00	3.83E-06	2.53E-03	3.39E-04	2.61E-04	6.56E-04	8.11E-04	1.29E-03	1.97E-03
2.77E+00	3.95E-06	2.50E-03	3.38E-04	2.61E-04	6.54E-04	8.03E-04	1.27E-03	1.93E-03
2.93E+00	4.07E-06	2.47E-03	3.37E-04	2.62E-04	6.49E-04	7.95E-04	1.26E-03	1.88E-03
3.00E+00	4.13E-06	2.46E-03	3.37E-04	2.63E-04	6.47E-04	7.92E-04	1.25E-03	1.87E-03
3.310E+00	4.21E-06	2.44E-03	3.36E-04	2.64E-04	6.44E-04	7.88E-04	1.24E-03	1.84E-03
3.328E+00	4.35E-06	2.40E-03	3.35E-04	2.65E-04	6.35E-04	7.80E-04	1.23E-03	1.80E-03
3.48E+00	4.49E-06	2.37E-03	3.34E-04	2.65E-04	6.33E-04	7.72E-04	1.22E-03	1.75E-03
3.68E+00	4.65E-06	2.33E-03	3.33E-04	2.65E-04	6.20E-04	7.63E-04	1.23E-03	1.71E-03
3.89E+00	4.81E-06	2.29E-03	3.33E-04	2.66E-04	5.96E-04	7.80E-04	1.23E-03	1.69E-03
4.12E+00	4.98E-06	2.25E-03	3.32E-04	2.66E-04	5.94E-04	7.74E-04	1.23E-03	1.67E-03
4.36E+00	5.15E-06	2.21E-03	3.31E-04	2.68E-04	5.95E-04	7.63E-04	1.24E-03	1.66E-03
4.61E+00	5.34E-06	2.17E-03	3.30E-04	2.68E-04	6.08E-04	7.46E-04	1.24E-03	1.64E-03
4.88E+00	5.53E-06	2.12E-03	3.29E-04	2.67E-04	6.01E-04	7.38E-04	1.24E-03	1.62E-03
5.17E+00	5.73E-06	2.08E-03	3.28E-04	2.68E-04	5.90E-04	7.31E-04	1.24E-03	1.60E-03
5.47E+00	5.94E-06	2.03E-03	3.27E-04	2.69E-04	5.77E-04	7.32E-04	1.24E-03	1.58E-03
5.78E+00	6.16E-06	1.98E-03	3.26E-04	2.70E-04	5.69E-04	7.27E-04	1.22E-03	1.56E-03
6.12E+00	6.39E-06	1.93E-03	3.25E-04	2.70E-04	5.66E-04	7.22E-04	1.20E-03	1.54E-03
6.48E+00	6.63E-06	1.88E-03	3.24E-04	2.70E-04	5.63E-04	7.18E-04	1.18E-03	1.52E-03
6.86E+00	6.87E-06	1.83E-03	3.23E-04	2.70E-04	5.55E-04	7.29E-04	1.16E-03	1.50E-03
7.26E+00	7.13E-06	1.77E-03	3.22E-04	2.70E-04	5.57E-04	7.18E-04	1.13E-03	1.47E-03
7.68E+00	7.40E-06	1.72E-03	3.22E-04	2.71E-04	5.47E-04	7.38E-04	1.12E-03	1.45E-03
8.13E+00	7.67E-06	1.66E-03	3.21E-04	2.72E-04	5.42E-04	7.41E-04	1.12E-03	1.42E-03
8.60E+00	7.96E-06	1.60E-03	3.20E-04	2.72E-04	5.39E-04	7.43E-04	1.11E-03	1.40E-03
9.10E+00	8.26E-06	1.55E-03	3.19E-04	2.71E-04	5.39E-04	7.44E-04	1.10E-03	1.37E-03
9.63E+00	8.56E-06	1.49E-03	3.18E-04	2.72E-04	5.39E-04	7.43E-04	1.09E-03	1.34E-03
1.00E+01	8.77E-06	1.45E-03	3.18E-04	2.73E-04	5.36E-04	7.43E-04	1.08E-03	1.33E-03
1.02E+01	8.88E-06	1.43E-03	3.18E-04	2.72E-04	5.36E-04	7.45E-04	1.07E-03	1.32E-03
1.08E+01	9.20E-06	1.37E-03	3.17E-04	2.71E-04	5.34E-04	7.48E-04	1.04E-03	1.29E-03
1.14E+01	9.54E-06	1.31E-03	3.15E-04	2.72E-04	5.32E-04	7.37E-04	1.01E-03	1.23E-03
1.21E+01	9.88E-06	1.25E-03	3.14E-04	2.73E-04	5.34E-04	7.29E-04	1.00E-03	1.22E-03
1.28E+01	1.02E-05	1.23E-03	3.13E-04	2.74E-04	5.37E-04	7.22E-04	9.99E-04	1.19E-03
1.35E+01	1.06E-05	1.24E-03	3.12E-04	2.73E-04	5.41E-04	7.13E-04	9.94E-04	1.17E-03
1.43E+01	1.10E-05	1.25E-03	3.11E-04	2.75E-04	5.40E-04	7.03E-04	9.89E-04	1.14E-03
1.51E+01	1.13E-05	1.26E-03	3.10E-04	2.75E-04	5.38E-04	6.92E-04	9.58E-04	1.11E-03
1.60E+01	1.17E-05	1.26E-03	3.08E-04	2.75E-04	5.38E-04	6.80E-04	9.32E-04	1.08E-03
1.70E+01	1.21E-05	1.26E-03	3.07E-04	2.75E-04	5.43E-04	6.72E-04	9.05E-04	1.05E-03
1.80E+01	1.25E-05	1.25E-03	3.05E-04	2.70E-04	5.45E-04	6.53E-04	8.64E-04	1.03E-03
1.90E+01	1.29E-05	1.24E-03	3.04E-04	2.72E-04	5.37E-04	6.42E-04	8.53E-04	1.04E-03

2.01E+01 1.33E-05 1.23E-03 3.02E-04 2.72E-04 5.39E-04 6.43E-04 8.43E-04 1.05E-03

2.13E+01 1.37E-05 1.21E-03 3.01E-04 2.72E-04 5.42E-04 6.39E-04 8.21E-04 1.05E-03

2.25E+01 1.41E-05 1.19E-03 3.00E-04 2.71E-04 5.45E-04 6.35E-04 7.92E-04 1.03E-03

2.38E+01 1.38E-05 1.17E-03 2.98E-04 2.69E-04 5.44E-04 6.20E-04 7.63E-04 1.00E-03

2.52E+01 1.36E-05 1.14E-03 2.96E-04 2.68E-04 5.34E-04 6.01E-04 7.42E-04 9.75E-04

2.67E+01 1.34E-05 1.11E-03 2.95E-04 2.66E-04 5.32E-04 6.04E-04 7.27E-04 9.46E-04

2.82E+01 1.31E-05 1.09E-03 2.92E-04 2.65E-04 5.28E-04 6.06E-04 7.25E-04 9.16E-04

2.99E+01 1.29E-05 1.09E-03 2.90E-04 2.64E-04 5.25E-04 6.09E-04 7.22E-04 8.84E-04

3.00E+01	1.29E-05	1.09E-03	2.90E-04	2.64E-04	5.25E-04	6.09E-04	7.21E-04	8.81E-04
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3.16E+01 1.12E-05 1.09E-03 2.88E-04 2.65E-04 5.29E-04 6.08E-04 7.17E-04 8.51E-04

3.35E+01 4.14E-06 1.09E-03 2.86E-04 2.64E-04 5.18E-04 6.04E-04 7.13E-04 8.35E-04

3.54E+01 4.21E-06 1.09E-03 2.84E-04 2.60E-04 5.17E-04 6.00E-04 7.05E-04 8.28E-04

3.75E+01	4.26E-06	1.08E-03	2.81E-04	2.57E-04	5.12E-04	5.95E-04	6.84E-04	8.18E-04
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3.97E+01 4.32E-06 1.07E-03 2.79E-04 2.54E-04 5.13E-04 5.94E-04 6.61E-04 8.08E-04

4.20E+01 4.37E-06 1.29E-03 2.80E-04 2.53E-04 5.12E-04 5.93E-04 6.64E-04 7.97E-04

4.44E+01 4.41E-06 1.31E-03 2.77E-04 2.52E-04 5.09E-04 5.84E-04 6.40E-04 7.85E-04

4.70E+01 4.61E-07 1.28E-03 2.75E-04 2.52E-04 5.06E-04 5.77E-04 6.25E-04 7.71E-04

4.97E+01 4.58E-07 1.26E-03 2.71E-04 2.49E-04 5.02E-04 5.70E-04 6.18E-04 7.57E-04

5.26E+01 4.55E-07 1.23E-03 2.69E-04 2.48E-04 4.98E-04 5.65E-04 6.16E-04 7.49E-04

5.57E+01 4.52E-07 1.21E-03 2.66E-04 2.45E-04 4.97E-04 5.57E-04 6.22E-04 7.49E-04

5.90E+01 4.49E-07 1.19E-03 2.63E-04 2.43E-04 4.93E-04 5.49E-04 6.17E-04 7.50E-04

6.24E+01 4.46E-07 1.39E-03 2.61E-04 2.40E-04 4.87E-04 5.51E-04 6.13E-04 8.04E-04

6.60E+01 4.43E-07 1.37E-03 2.57E-04 2.35E-04 4.79E-04 5.50E-04 6.11E-04 7.53E-04

6.99E+01 4.40E-07 1.33E-03 2.53E-04 2.30E-04 4.75E-04 5.45E-04 6.08E-04 7.42E-04

7.39E+01 4.37E-07 1.29E-03 2.50E-04 2.25E-04 4.71E-04 5.41E-04 6.23E-04 7.38E-04

7.82E+01 4.33E-07 1.24E-03 2.46E-04 2.22E-04 4.66E-04 5.34E-04 6.12E-04 8.19E-04

8.28E+01 4.29E-07 1.20E-03 2.42E-04 2.18E-04 4.54E-04 5.25E-04 6.01E-04 7.28E-04

8.76E+01 4.25E-07 1.15E-03 2.38E-04 2.16E-04 4.42E-04 5.19E-04 5.79E-04 7.20E-04

9.27E+01 4.20E-07 1.10E-03 2.34E-04 2.13E-04 4.30E-04 5.11E-04 5.73E-04 7.14E-04

9.81E+01 4.15E-07 1.06E-03 2.31E-04 2.11E-04 4.21E-04 5.04E-04 5.61E-04 7.54E-04

1.00E+02 4.14E-07 1.04E-03 2.29E-04 2.09E-04 4.17E-04 5.02E-04 5.57E-04 7.44E-04

1.04E+02 4.10E-07 1.01E-03 2.27E-04 2.06E-04 4.08E-04 4.96E-04 5.49E-04 7.25E-04

1.10E+02 4.06E-07 9.59E-04 2.23E-04 2.03E-04 4.00E-04 4.88E-04 5.37E-04 6.96E-04

1.16E+02 4.01E-07 9.10E-04 2.20E-04 1.98E-04 3.95E-04 4.81E-04 5.43E-04 7.28E-04

1.23E+02 3.97E-07 8.61E-04 2.15E-04 1.94E-04 3.82E-04 4.70E-04 5.35E-04 7.61E-04

1.30E+02 3.92E-07 8.12E-04 2.12E-04 1.90E-04 3.76E-04 4.60E-04 5.26E-04 7.49E-04

1.38E+02 3.87E-07 7.95E-04 2.10E-04 1.88E-04 3.68E-04 4.68E-04 5.98E-04 7.63E-04

1.46E+02 3.82E-07 9.49E-04 2.08E-04 1.85E-04 3.64E-04 4.72E-04 6.14E-04 7.68E-04

1.54E+02 3.77E-07 9.39E-04 2.04E-04 1.80E-04 3.74E-04 4.70E-04 6.00E-04 7.53E-04

1.63E+02 3.72E-07 9.87E-04 2.00E-04 1.76E-04 3.59E-04 4.61E-04 6.05E-04 7.52E-04

1.73E+02 3.66E-07 9.43E-04 1.95E-04 1.71E-04 3.45E-04 4.51E-04 5.81E-04 7.36E-04

1.83E+02 3.60E-07 8.98E-04 1.92E-04 1.68E-04 3.54E-04 4.41E-04 5.79E-04 7.20E-04

1.94E+02 3.54E-07 1.26E-03 1.91E-04 1.64E-04 3.54E-04 4.34E-04 5.65E-04 8.52E-04

2.05E+02 3.48E-07 1.22E-03 1.86E-04 1.59E-04 3.43E-04 4.36E-04 5.50E-04 8.75E-04

2.17E+02 3.41E-07 1.17E-03 1.83E-04 1.55E-04 3.28E-04 4.51E-04 5.36E-04 8.45E-04

2.29E+02 3.34E-07 1.13E-03 1.79E-04 1.50E-04 3.17E-04 4.44E-04 5.89E-04 8.15E-04

2.43E+02 3.27E-07 1.27E-03 1.71E-04 1.45E-04 3.15E-04 4.32E-04 5.47E-04 7.27E-04

2.57E+02 3.20E-07 1.31E-03 1.64E-04 1.38E-04 2.96E-04 4.21E-04 5.81E-04 7.50E-04

2.72E+02 3.12E-07 1.36E-03 1.61E-04 1.33E-04 2.75E-04 4.04E-04 5.97E-04 8.07E-04

2.88E+02 3.05E-07 7.55E-04 1.46E-04 1.25E-04 2.65E-04 3.46E-04 4.95E-04 6.54E-04

3.00E+02 2.99E-07 7.33E-04 1.38E-04 1.14E-04 2.57E-04 3.27E-04 4.45E-04 6.59E-04

3.05E+02 2.96E-07 7.25E-04 1.37E-04 1.12E-04 2.57E-04 3.40E-04 4.77E-04 6.48E-04

3.22E+02 2.88E-07 7.68E-04 1.34E-04 1.08E-04 2.46E-04 3.30E-04 5.81E-04 6.95E-04

3.41E+02 2.80E-07 7.89E-04 1.23E-04 1.02E-04 2.22E-04 3.10E-04 4.74E-04 5.77E-04

3.61E+02 2.71E-07 8.09E-04 1.17E-04 9.56E-05 2.12E-04 2.93E-04 4.83E-04 5.51E-04

3.82E+02 2.62E-07 7.53E-04 1.10E-04 8.94E-05 2.10E-04 2.89E-04 4.46E-04 5.29E-04

4.04E+02 2.53E-07 7.00E-04 1.03E-04 8.31E-05 1.93E-04 2.78E-04 4.12E-04 4.97E-04

4.28E+02 2.43E-07 6.64E-04 9.82E-05 7.97E-05 1.79E-04 2.83E-04 3.87E-04 4.71E-04

4.53E+02 2.34E-07 5.90E-04 9.18E-05 7.28E-05 1.70E-04 2.60E-04 3.43E-04 4.44E-04

4.79E+02 2.24E-07 7.67E-04 8.81E-05 6.91E-05 1.62E-04 2.44E-04 3.37E-04 4.98E-04

5.07E+02 2.14E-07 7.28E-04 8.17E-05 6.48E-05 1.57E-04 2.25E-04 2.80E-04 3.91E-04

5.36E+02 2.04E-07 6.88E-04 7.54E-05 5.93E-05 1.35E-04 1.91E-04 2.56E-04 3.98E-04

5.68E+02 1.94E-07 6.49E-04 6.99E-05 5.50E-05 1.27E-04 1.74E-04 2.39E-04 3.80E-04

6.01E+02 1.84E-07 6.10E-04 6.36E-05 4.95E-05 1.12E-04 1.58E-04 2.23E-04 3.60E-04

6.36E+02 1.74E-07 5.71E-04 5.74E-05 4.38E-05 1.02E-04 1.43E-04 2.01E-04 2.90E-04

6.73E+02 1.64E-07 6.42E-04 5.31E-05 4.06E-05 9.45E-05 1.28E-04 1.87E-04 2.66E-04

7.12E+02 1.54E-07 6.28E-04 4.93E-05 3.73E-05 8.90E-05 1.20E-04 1.72E-04 2.43E-04

7.53E+02 1.44E-07 2.39E-04 4.23E-05 3.36E-05 7.84E-05 1.01E-04 1.36E-04 1.81E-04

7.97E+02 1.34E-07 2.12E-04 3.86E-05 3.06E-05 7.05E-05 8.84E-05 1.23E-04 1.62E-04

8.44E+02 1.25E-07 1.87E-04 3.54E-05 2.80E-05 6.52E-05 7.92E-05 1.11E-04 1.45E-04

8.93E+02 1.15E-07 1.71E-04 3.29E-05 2.57E-05 5.99E-05 7.40E-05 1.19E-04 1.61E-04

9.45E+02 1.06E-07 1.72E-04 2.94E-05 2.27E-05 5.45E-05 6.25E-05 8.89E-05 1.42E-04

1.00E+03 9.71E-08 1.50E-04 2.64E-05 2.04E-05 4.95E-05 5.70E-05 7.91E-05 1.22E-04

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE 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	3.729E-04	
2	0.000E+00	3.688E-04	
3	0.000E+00	3.672E-04	

Title : RESRAD Default Parameters

Input File : FCS BURIED PIPE 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
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Contaminated zone erosion rate	5	0.09	4	0.08	14	0.04	14	0.02
Contaminated zone b parameter	14	-0.04	14	-0.04	16	-0.03	16	-0.02
Evapotranspiration coefficient	18	0.01	18	0.00	5	0.15	5	0.10
Wind Speed	9	0.07	9	0.07	13	0.04	13	0.03
Runoff coefficient	4	0.09	5	0.08	9	0.07	9	0.05
b Parameter of Unsaturated zone 1	17	-0.01	17	-0.01	10	0.05	10	0.04
Mass loading for inhalation	7	0.08	7	0.07	12	0.04	12	0.03
Indoor dust filtration factor	6	-0.08	6	-0.08	15	0.03	15	0.02
Depth of soil mixing layer	12	0.05	12	0.05	17	-0.02	17	-0.01
Depth of roots	3	-0.11	3	-0.11	4	-0.33	4	-0.24
Wet weight crop yield of fruit, grain and non-leafy vegetables	8	-0.07	8	-0.07	6	-0.13	6	-0.09
Weathering removal constant of all vegetation	15	0.01	15	0.01	11	-0.04	11	-0.03
Wet foliar interception fraction of leafy vegetables	13	0.05	13	0.05	8	-0.08	8	-0.06
Humidity in air	16	0.01	16	0.01	18	0.01	18	0.01
Kd of Pu-241 in Contaminated Zone	2	-0.12	2	-0.11	3	-0.43	3	-0.33
Kd of Pu-241 in Saturated Zone	11	-0.05	11	-0.05	7	-0.11	7	-0.07
Cover erosion rate	10	0.06	10	0.05	2	0.44	2	0.35
Well pump intake depth	1	-0.31	1	-0.30	1	-0.54	1	-0.45

R-SQUARE	0.16	0.16	0.51	0.51
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.

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

Title : RESRAD Default Parameters
Input File : FCS BURIED PIPE 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	11	-0.05	11	-0.05	10	-0.08	10	-0.05
Contaminated zone b parameter	7	-0.09	7	-0.08	6	-0.19	6	-0.14
Evapotranspiration coefficient	4	0.16	4	0.14	5	0.22	5	0.16
Wind Speed	5	0.14	5	0.12	14	0.04	14	0.03
Runoff coefficient	18	0.00	18	0.00	16	0.02	16	0.01
b Parameter of Unsaturated zone 1	13	-0.04	13	-0.04	17	0.00	17	0.00
Mass loading for inhalation	17	-0.03	17	-0.02	11	-0.07	11	-0.05
Indoor dust filtration factor	8	0.07	8	0.06	12	0.06	12	0.05
Depth of soil mixing layer	12	0.04	12	0.04	18	0.00	18	0.00
Depth of roots	6	-0.10	6	-0.09	4	-0.31	4	-0.24
Wet weight crop yield of fruit, grain and non-leafy vegetables	10	-0.06	10	-0.05	15	0.03	15	0.03
Weathering removal constant of all vegetation	15	0.04	15	0.03	8	0.09	8	0.07
Wet foliar interception fraction of leafy vegetables	9	-0.06	9	-0.05	9	-0.08	9	-0.06
Humidity in air	16	-0.04	16	-0.03	13	-0.06	13	-0.04
Kd of Pu-241 in Contaminated Zone	3	-0.18	3	-0.16	2	-0.38	2	-0.30
Kd of Pu-241 in Saturated Zone	14	-0.04	14	-0.04	7	-0.15	7	-0.11
Cover erosion rate	2	0.27	2	0.25	3	0.37	3	0.29
Well pump intake depth	1	-0.33	1	-0.30	1	-0.48	1	-0.40
R-SQUARE		0.24		0.24		0.47		0.47

-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 BURIED PIPE 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
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Contaminated zone erosion rate	6	-0.05	6	-0.04	10	-0.05	10	-0.04
Contaminated zone b parameter	8	-0.04	8	-0.04	14	0.03	14	0.02
Evapotranspiration coefficient	3	0.13	3	0.12	5	0.21	5	0.16
Wind Speed	18	-0.01	18	-0.01	13	-0.03	13	-0.02
Runoff coefficient	10	0.04	10	0.03	9	0.07	9	0.05
b Parameter of Unsaturated zone 1	9	-0.04	9	-0.03	16	0.00	16	0.00
Mass loading for inhalation	17	0.01	17	0.01	11	0.04	11	0.03
Indoor dust filtration factor	14	-0.02	14	-0.02	18	0.00	18	0.00
Depth of soil mixing layer	13	-0.03	13	-0.02	7	-0.09	7	-0.06
Depth of roots	2	-0.16	2	-0.15	4	-0.30	4	-0.23
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.01	16	-0.01	12	-0.03	12	-0.02
Weathering removal constant of all vegetation	7	-0.04	7	-0.04	8	-0.07	8	-0.05
Wet foliar interception fraction of leafy vegetables	12	-0.03	12	-0.02	15	0.03	15	0.02
Humidity in air	11	-0.03	11	-0.03	17	0.00	17	0.00
Kd of Pu-241 in Contaminated Zone	4	-0.10	4	-0.09	3	-0.35	3	-0.27
Kd of Pu-241 in Saturated Zone	15	-0.01	15	-0.01	6	-0.14	6	-0.10
Cover erosion rate	5	0.08	5	0.08	2	0.43	2	0.34
Well pump intake depth	1	-0.33	1	-0.33	1	-0.53	1	-0.45

R-SQUARE	0.17	0.17	0.49	0.49
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-Rank is set to zero if the dose is zero or the correlation matrix is singular.

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