Probabilistic results summary : RESRAD Default Parameters

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Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Input

Number of Sample Runs: 900

Number	Name	Distribution	Parameters															
1	VCZ	CONTINUOUS LOGARITHMIC	4	5.E-8	0	.0007	.22	.005	.95	.2	1							
2	BCZ	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1												
3	EVAPTR	UNIFORM	.5	.99														
4	WIND	UNIFORM	2.8	4.7														
5	RUNOFF	UNIFORM	.1	.8														
6	BUZ(1)	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1												
7	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003	.8119	.00004	.9495	.00006	.9937	.000076	.9983	.0001	1
8	SHF3	UNIFORM	.15	.95														
9	DM	TRIANGULAR	0	.15	.6													
10	DROOT	UNIFORM	.3	4														
11	YV(1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999												
12	WLAM	TRIANGULAR	5.1	18	84													
13	RWET(2)	TRIANGULAR	.06	.67	.95													
14	HUMID	TRUNCATED LOGNORMAL-N	1.98	.334	.001	.999												
15	VCV	CONTINUOUS LOGARITHMIC	4	5.E-8	0	.0007	.22	.005	.95	.2	1							
16	DCACTC(1)	LOGNORMAL-N	2.64	1.39														
17	DCACTS(1)	LOGNORMAL-N	2.64	1.39														
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	Peak	Peak	DOSE(j,t), mrem/yr							
(j)	Time	Dose	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237										
Min	0.00E+00	2.09E-02	1.28E-03	2.69E-03	4.86E-03	8.07E-07	1.99E-08	1.81E-08	1.18E-08	7.98E-10
Max	6.74E+02	8.92E+00	7.65E+00	8.39E+00	8.84E+00	3.67E+00	1.35E+00	5.63E-01	5.18E-01	8.81E-02
Avg	1.75E+01	7.34E-01	4.97E-01	4.92E-01	5.18E-01	4.38E-01	2.22E-01	5.70E-02	9.49E-03	6.85E-04
Std	4.11E+01	9.32E-01	5.77E-01	7.07E-01	8.17E-01	5.12E-01	2.34E-01	8.30E-02	3.08E-02	5.03E-03
∑ALL										
Min	0.00E+00	2.09E-02	1.28E-03	2.69E-03	4.86E-03	8.07E-07	1.99E-08	1.81E-08	1.18E-08	7.98E-10
Max	6.74E+02	8.92E+00	7.65E+00	8.39E+00	8.84E+00	3.67E+00	1.35E+00	5.63E-01	5.18E-01	8.81E-02
Avg	1.75E+01	7.34E-01	4.97E-01	4.92E-01	5.18E-01	4.38E-01	2.22E-01	5.70E-02	9.49E-03	6.85E-04
Std	4.11E+01	9.32E-01	5.77E-01	7.07E-01	8.17E-01	5.12E-01	2.34E-01	8.30E-02	3.08E-02	5.03E-03

∑ALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Risk Summary

Nuclide	RISK(j,t)							
(j)	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	2.72E-10	9.26E-10	2.15E-09	9.79E-13	1.52E-13	1.37E-13	8.63E-14	3.19E-15
Max	5.61E-06	4.01E-06	4.34E-06	2.88E-06	1.19E-06	3.41E-06	1.91E-06	5.04E-07
Avg	2.95E-07	2.46E-07	2.54E-07	2.19E-07	1.12E-07	3.38E-08	8.59E-09	1.15E-09
Std	4.19E-07	3.06E-07	3.78E-07	2.64E-07	1.22E-07	1.40E-07	7.53E-08	1.89E-08
∑ALL								
Min	2.72E-10	9.26E-10	2.15E-09	9.79E-13	1.52E-13	1.37E-13	8.63E-14	3.19E-15
Max	5.61E-06	4.01E-06	4.34E-06	2.88E-06	1.19E-06	3.41E-06	1.91E-06	5.04E-07
Avg	2.95E-07	2.46E-07	2.54E-07	2.19E-07	1.12E-07	3.38E-08	8.59E-09	1.15E-09
Std	4.19E-07	3.06E-07	3.78E-07	2.64E-07	1.22E-07	1.40E-07	7.53E-08	1.89E-08

∑ALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Ground External

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	3.39E-11	3.86E-18	5.81E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.47E-09	2.84E-08	3.74E-06	1.23E-01	4.17E-02	1.50E-01	8.42E-02	2.19E-02
Avg	4.91E-10	4.93E-10	8.65E-09	1.83E-04	1.34E-04	2.71E-04	1.79E-04	3.71E-05
Std	1.71E-10	1.37E-09	1.41E-07	4.25E-03	2.08E-03	5.87E-03	3.12E-03	8.17E-04
∑ALL								
Min	3.39E-11	3.86E-18	5.81E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.47E-09	2.84E-08	3.74E-06	1.23E-01	4.17E-02	1.50E-01	8.42E-02	2.19E-02
Avg	4.91E-10	4.93E-10	8.65E-09	1.83E-04	1.34E-04	2.71E-04	1.79E-04	3.71E-05
Std	1.71E-10	1.37E-09	1.41E-07	4.25E-03	2.08E-03	5.87E-03	3.12E-03	8.17E-04

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

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
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	6.28E-04	8.38E-05	1.84E-04	5.86E-04	2.88E-05
Avg	0.00E+00	0.00E+00	0.00E+00	1.38E-06	2.57E-07	3.65E-07	1.07E-06	6.35E-08
Std	0.00E+00	0.00E+00	0.00E+00	2.68E-05	3.93E-06	7.74E-06	2.06E-05	1.18E-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	6.28E-04	8.38E-05	1.84E-04	5.86E-04	2.88E-05
Avg	0.00E+00	0.00E+00	0.00E+00	1.38E-06	2.57E-07	3.65E-07	1.07E-06	6.35E-08
Std	0.00E+00	0.00E+00	0.00E+00	2.68E-05	3.93E-06	7.74E-06	2.06E-05	1.18E-06

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.81E-01	4.74E-01	4.62E-01	1.09E+00	4.01E-01	5.54E-01	4.69E-01	8.41E-02
Avg	1.56E-01	1.17E-01	8.48E-02	4.87E-02	2.10E-02	6.99E-03	2.07E-03	2.39E-04
Std	1.15E-01	1.09E-01	9.91E-02	8.53E-02	5.10E-02	3.26E-02	1.98E-02	3.49E-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	4.81E-01	4.74E-01	4.62E-01	1.09E+00	4.01E-01	5.54E-01	4.69E-01	8.41E-02
Avg	1.56E-01	1.17E-01	8.48E-02	4.87E-02	2.10E-02	6.99E-03	2.07E-03	2.39E-04
Std	1.15E-01	1.09E-01	9.91E-02	8.53E-02	5.10E-02	3.26E-02	1.98E-02	3.49E-03

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.11E-03	1.09E-03	1.06E-03	4.95E-03	9.20E-04	2.87E-03	4.44E-03	3.02E-04
Avg	3.75E-04	2.78E-04	1.98E-04	1.20E-04	5.00E-05	2.01E-05	1.24E-05	1.17E-06
Std	2.69E-04	2.51E-04	2.29E-04	2.65E-04	1.21E-04	1.30E-04	1.65E-04	1.54E-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	1.11E-03	1.09E-03	1.06E-03	4.95E-03	9.20E-04	2.87E-03	4.44E-03	3.02E-04
Avg	3.75E-04	2.78E-04	1.98E-04	1.20E-04	5.00E-05	2.01E-05	1.24E-05	1.17E-06
Std	2.69E-04	2.51E-04	2.29E-04	2.65E-04	1.21E-04	1.30E-04	1.65E-04	1.54E-05

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	9.34E-05	9.21E-05	8.96E-05	3.00E-04	7.78E-05	1.25E-04	2.13E-04	1.63E-05
Avg	3.12E-05	2.32E-05	1.66E-05	9.75E-06	4.14E-06	1.50E-06	6.78E-07	6.91E-08
Std	2.26E-05	2.11E-05	1.93E-05	1.85E-05	9.97E-06	7.79E-06	8.00E-06	8.80E-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	9.34E-05	9.21E-05	8.96E-05	3.00E-04	7.78E-05	1.25E-04	2.13E-04	1.63E-05
Avg	3.12E-05	2.32E-05	1.66E-05	9.75E-06	4.14E-06	1.50E-06	6.78E-07	6.91E-08
Std	2.26E-05	2.11E-05	1.93E-05	1.85E-05	9.97E-06	7.79E-06	8.00E-06	8.80E-07

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.10E-03	4.40E-03	6.08E-03	4.34E-04
Avg	0.00E+00	0.00E+00	0.00E+00	1.27E-05	3.17E-06	7.21E-06	1.38E-05	1.13E-06
Std	0.00E+00	0.00E+00	0.00E+00	2.27E-04	4.77E-05	1.62E-04	2.28E-04	1.99E-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	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.10E-03	4.40E-03	6.08E-03	4.34E-04
Avg	0.00E+00	0.00E+00	0.00E+00	1.27E-05	3.17E-06	7.21E-06	1.38E-05	1.13E-06
Std	0.00E+00	0.00E+00	0.00E+00	2.27E-04	4.77E-05	1.62E-04	2.28E-04	1.99E-05

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	1.19E-03	1.71E-03	2.00E-03	7.40E-07	1.82E-08	1.70E-08	1.11E-08	7.61E-10
Max	5.73E+00	6.49E+00	7.56E+00	3.19E+00	1.20E+00	3.78E-01	1.26E-01	3.34E-02
Avg	3.10E-01	3.41E-01	3.95E-01	3.56E-01	1.83E-01	4.53E-02	6.58E-03	3.76E-04
Std	5.15E-01	6.38E-01	7.41E-01	4.70E-01	2.10E-01	6.77E-02	1.86E-02	2.44E-03
∑ALL								
Min	1.19E-03	1.71E-03	2.00E-03	7.40E-07	1.82E-08	1.70E-08	1.11E-08	7.61E-10
Max	5.73E+00	6.49E+00	7.56E+00	3.19E+00	1.20E+00	3.78E-01	1.26E-01	3.34E-02
Avg	3.10E-01	3.41E-01	3.95E-01	3.56E-01	1.83E-01	4.53E-02	6.58E-03	3.76E-04
Std	5.15E-01	6.38E-01	7.41E-01	4.70E-01	2.10E-01	6.77E-02	1.86E-02	2.44E-03

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑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 NP-237.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
∑ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

∑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 NP-237.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	5.26E-05	7.15E-05	1.09E-04	6.53E-08	8.40E-10	7.64E-10	5.00E-10	3.40E-11
Max	1.80E+00	2.00E+00	2.12E+00	5.09E-01	2.67E-01	8.93E-02	3.23E-02	2.32E-03
Avg	2.98E-02	3.24E-02	3.72E-02	3.27E-02	1.69E-02	4.24E-03	6.17E-04	2.99E-05
Std	8.13E-02	9.18E-02	1.01E-01	5.45E-02	2.47E-02	7.73E-03	2.15E-03	1.96E-04
∑ALL								
Min	5.26E-05	7.15E-05	1.09E-04	6.53E-08	8.40E-10	7.64E-10	5.00E-10	3.40E-11
Max	1.80E+00	2.00E+00	2.12E+00	5.09E-01	2.67E-01	8.93E-02	3.23E-02	2.32E-03
Avg	2.98E-02	3.24E-02	3.72E-02	3.27E-02	1.69E-02	4.24E-03	6.17E-04	2.99E-05
Std	8.13E-02	9.18E-02	1.01E-01	5.45E-02	2.47E-02	7.73E-03	2.15E-03	1.96E-04

∑ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	1.93E-06	2.80E-06	3.28E-06	1.53E-09	6.46E-12	5.81E-12	3.66E-12	7.72E-14
Max	1.31E-02	1.46E-02	1.56E-02	6.37E-03	2.58E-03	8.47E-04	2.68E-04	5.63E-05
Avg	5.82E-04	6.31E-04	7.37E-04	6.65E-04	3.44E-04	8.51E-05	1.24E-05	6.85E-07
Std	1.00E-03	1.21E-03	1.43E-03	8.94E-04	4.00E-04	1.27E-04	3.55E-05	4.42E-06
∑ALL								
Min	1.93E-06	2.80E-06	3.28E-06	1.53E-09	6.46E-12	5.81E-12	3.66E-12	7.72E-14
Max	1.31E-02	1.46E-02	1.56E-02	6.37E-03	2.58E-03	8.47E-04	2.68E-04	5.63E-05
Avg	5.82E-04	6.31E-04	7.37E-04	6.65E-04	3.44E-04	8.51E-05	1.24E-05	6.85E-07
Std	1.00E-03	1.21E-03	1.43E-03	8.94E-04	4.00E-04	1.27E-04	3.55E-05	4.42E-06

∑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 NP-237.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
(j) t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Np-237								
Min	1.13E-07	1.53E-07	1.79E-07	1.47E-10	6.03E-11	5.39E-11	3.34E-11	2.05E-14
Max	8.32E-04	9.25E-04	9.83E-04	3.80E-04	1.58E-04	5.28E-05	1.67E-05	3.11E-06
Avg	3.38E-05	3.68E-05	4.29E-05	3.85E-05	1.99E-05	4.93E-06	7.24E-07	3.96E-08
Std	5.95E-05	7.24E-05	8.49E-05	5.26E-05	2.36E-05	7.47E-06	2.10E-06	2.55E-07
∑ALL								
Min	1.13E-07	1.53E-07	1.79E-07	1.47E-10	6.03E-11	5.39E-11	3.34E-11	2.05E-14
Max	8.32E-04	9.25E-04	9.83E-04	3.80E-04	1.58E-04	5.28E-05	1.67E-05	3.11E-06
Avg	3.38E-05	3.68E-05	4.29E-05	3.85E-05	1.99E-05	4.93E-06	7.24E-07	3.96E-08
Std	5.95E-05	7.24E-05	8.49E-05	5.26E-05	2.36E-05	7.47E-06	2.10E-06	2.55E-07

∑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 NP-237.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose(t), mrem/yr t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	2.79E-02	3.27E-02	2.45E-02	1.76E-02	1.85E-07	7.09E-08	4.27E-08	2.75E-09
0.050	5.08E-02	5.07E-02	4.15E-02	2.85E-02	7.67E-06	1.08E-07	6.72E-08	4.39E-09
0.075	8.68E-02	7.42E-02	5.96E-02	4.06E-02	9.53E-04	1.42E-07	8.26E-08	5.33E-09
0.100	1.25E-01	9.78E-02	7.60E-02	5.37E-02	6.20E-03	1.67E-07	9.65E-08	6.19E-09
0.125	1.58E-01	1.32E-01	9.55E-02	6.71E-02	1.40E-02	2.15E-07	1.13E-07	7.50E-09
0.150	1.78E-01	1.56E-01	1.10E-01	7.75E-02	1.99E-02	2.59E-07	1.30E-07	8.46E-09
0.175	1.91E-01	1.69E-01	1.30E-01	9.13E-02	2.85E-02	3.05E-07	1.50E-07	9.57E-09
0.200	1.99E-01	1.81E-01	1.48E-01	1.10E-01	3.56E-02	3.65E-07	1.65E-07	1.04E-08
0.225	2.14E-01	1.88E-01	1.64E-01	1.19E-01	4.50E-02	4.94E-07	1.79E-07	1.16E-08
0.250	2.28E-01	1.94E-01	1.77E-01	1.33E-01	5.18E-02	6.93E-07	2.03E-07	1.26E-08
0.275	2.43E-01	2.07E-01	1.85E-01	1.47E-01	6.25E-02	9.87E-07	2.32E-07	1.42E-08
0.300	2.53E-01	2.19E-01	1.96E-01	1.56E-01	6.94E-02	1.42E-06	2.57E-07	1.58E-08
0.325	2.64E-01	2.30E-01	2.07E-01	1.65E-01	8.29E-02	6.64E-06	2.86E-07	1.73E-08
0.350	2.75E-01	2.44E-01	2.18E-01	1.79E-01	9.37E-02	5.51E-05	3.14E-07	1.88E-08
0.375	2.89E-01	2.56E-01	2.30E-01	1.92E-01	1.04E-01	2.46E-04	3.65E-07	2.04E-08
0.400	3.05E-01	2.65E-01	2.41E-01	2.03E-01	1.14E-01	8.57E-04	4.12E-07	2.29E-08
0.425	3.14E-01	2.79E-01	2.52E-01	2.14E-01	1.23E-01	2.78E-03	4.74E-07	2.55E-08
0.450	3.26E-01	2.89E-01	2.61E-01	2.28E-01	1.35E-01	7.02E-03	5.38E-07	2.82E-08
0.475	3.36E-01	2.99E-01	2.71E-01	2.44E-01	1.49E-01	1.15E-02	5.92E-07	3.02E-08
0.500	3.49E-01	3.12E-01	2.86E-01	2.60E-01	1.60E-01	1.55E-02	6.54E-07	3.25E-08
0.525	3.59E-01	3.24E-01	3.00E-01	2.74E-01	1.69E-01	2.10E-02	7.16E-07	3.56E-08
0.550	3.78E-01	3.42E-01	3.24E-01	2.92E-01	1.80E-01	2.82E-02	8.26E-07	3.85E-08
0.575	3.92E-01	3.53E-01	3.44E-01	3.14E-01	1.93E-01	3.40E-02	9.60E-07	4.10E-08
0.600	4.09E-01	3.67E-01	3.56E-01	3.34E-01	2.04E-01	3.99E-02	1.10E-06	4.51E-08
0.625	4.31E-01	3.87E-01	3.76E-01	3.57E-01	2.13E-01	4.81E-02	1.35E-06	5.18E-08
0.650	4.51E-01	4.04E-01	3.89E-01	3.88E-01	2.31E-01	5.62E-02	1.70E-06	5.58E-08
0.675	4.63E-01	4.22E-01	4.19E-01	4.22E-01	2.46E-01	6.32E-02	2.54E-06	6.37E-08
0.700	4.86E-01	4.48E-01	4.40E-01	4.50E-01	2.65E-01	6.94E-02	6.25E-06	7.19E-08
0.725	5.12E-01	4.66E-01	4.74E-01	4.81E-01	2.84E-01	7.93E-02	4.65E-05	7.84E-08
0.750	5.40E-01	5.02E-01	5.20E-01	5.28E-01	3.00E-01	8.92E-02	2.53E-04	8.69E-08
0.775	5.72E-01	5.36E-01	5.65E-01	5.71E-01	3.23E-01	9.70E-02	1.28E-03	9.72E-08
0.800	6.21E-01	5.96E-01	6.23E-01	6.49E-01	3.47E-01	1.06E-01	3.93E-03	1.15E-07
0.825	6.93E-01	6.63E-01	7.07E-01	7.07E-01	3.70E-01	1.18E-01	8.59E-03	1.33E-07
0.850	7.41E-01	7.20E-01	7.79E-01	7.91E-01	4.08E-01	1.32E-01	1.41E-02	1.53E-07
0.875	8.52E-01	8.33E-01	9.05E-01	8.93E-01	4.50E-01	1.54E-01	2.13E-02	1.87E-07
0.900	9.81E-01	9.52E-01	1.03E+00	1.06E+00	5.12E-01	1.73E-01	3.10E-02	2.32E-07
0.925	1.12E+00	1.11E+00	1.30E+00	1.23E+00	6.21E-01	1.94E-01	4.20E-02	2.91E-07
0.950	1.41E+00	1.42E+00	1.72E+00	1.57E+00	7.60E-01	2.43E-01	5.40E-02	9.41E-07
0.975	1.94E+00	2.13E+00	2.70E+00	2.05E+00	9.13E-01	2.90E-01	9.85E-02	8.51E-03
1.000	7.65E+00	8.39E+00	8.84E+00	3.67E+00	1.35E+00	5.63E-01	5.18E-01	8.81E-02

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

Summary of dose at graphical times, reptition 1

Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.96E-03	4.51E+00	5.07E-01	3.51E-01	1.05E+00	1.55E+00	2.25E+00	3.78E+00
1.00E+00	3.62E-03	6.94E+00	4.92E-01	3.15E-01	1.01E+00	1.58E+00	2.17E+00	4.46E+00
1.06E+00	3.65E-03	6.98E+00	4.93E-01	3.13E-01	1.01E+00	1.60E+00	2.19E+00	4.53E+00
1.12E+00	3.69E-03	7.03E+00	4.93E-01	3.11E-01	9.96E-01	1.60E+00	2.21E+00	4.61E+00
1.19E+00	3.73E-03	7.07E+00	4.94E-01	3.09E-01	1.01E+00	1.54E+00	2.23E+00	4.69E+00
1.25E+00	3.78E-03	7.11E+00	4.95E-01	3.10E-01	1.00E+00	1.54E+00	2.26E+00	4.77E+00
1.33E+00	3.82E-03	7.14E+00	4.96E-01	3.12E-01	9.98E-01	1.57E+00	2.28E+00	4.86E+00
1.40E+00	3.87E-03	7.18E+00	4.97E-01	3.14E-01	1.00E+00	1.60E+00	2.30E+00	4.94E+00
1.49E+00	3.93E-03	7.21E+00	4.98E-01	3.16E-01	1.01E+00	1.63E+00	2.32E+00	5.02E+00
1.57E+00	3.98E-03	7.24E+00	4.99E-01	3.19E-01	1.02E+00	1.65E+00	2.34E+00	5.10E+00
1.66E+00	4.04E-03	7.26E+00	5.00E-01	3.15E-01	1.02E+00	1.65E+00	2.36E+00	5.18E+00
1.76E+00	4.10E-03	7.28E+00	5.01E-01	3.12E-01	1.02E+00	1.65E+00	2.41E+00	5.26E+00
1.86E+00	4.16E-03	7.30E+00	5.02E-01	3.11E-01	1.03E+00	1.65E+00	2.45E+00	5.27E+00
1.97E+00	4.23E-03	7.32E+00	5.04E-01	3.10E-01	1.05E+00	1.65E+00	2.46E+00	5.27E+00
2.09E+00	4.30E-03	7.33E+00	5.05E-01	3.11E-01	1.04E+00	1.66E+00	2.46E+00	5.28E+00
2.21E+00	4.38E-03	7.34E+00	5.06E-01	3.05E-01	1.06E+00	1.66E+00	2.47E+00	5.28E+00
2.34E+00	4.46E-03	7.36E+00	5.08E-01	3.07E-01	1.08E+00	1.66E+00	2.48E+00	5.28E+00
2.47E+00	4.54E-03	7.36E+00	5.10E-01	3.10E-01	1.10E+00	1.66E+00	2.48E+00	5.28E+00
2.62E+00	4.63E-03	7.37E+00	5.11E-01	3.12E-01	1.11E+00	1.66E+00	2.48E+00	5.28E+00
2.77E+00	4.72E-03	7.38E+00	5.13E-01	3.09E-01	1.13E+00	1.66E+00	2.48E+00	5.28E+00
2.93E+00	4.82E-03	7.38E+00	5.14E-01	3.09E-01	1.14E+00	1.66E+00	2.49E+00	5.29E+00
3.00E+00	4.86E-03	7.38E+00	5.15E-01	3.10E-01	1.14E+00	1.66E+00	2.49E+00	5.29E+00
3.10E+00	4.93E-03	7.38E+00	5.15E-01	3.11E-01	1.14E+00	1.66E+00	2.49E+00	5.29E+00
3.28E+00	5.03E-03	7.39E+00	5.16E-01	3.13E-01	1.14E+00	1.66E+00	2.50E+00	5.29E+00
3.48E+00	5.15E-03	7.39E+00	5.17E-01	3.05E-01	1.17E+00	1.66E+00	2.50E+00	5.29E+00
3.68E+00	5.27E-03	7.39E+00	5.18E-01	3.03E-01	1.17E+00	1.66E+00	2.50E+00	5.29E+00
3.89E+00	5.40E-03	7.39E+00	5.18E-01	3.03E-01	1.17E+00	1.66E+00	2.51E+00	5.29E+00
4.12E+00	5.53E-03	7.39E+00	5.19E-01	3.03E-01	1.17E+00	1.66E+00	2.51E+00	5.28E+00
4.36E+00	5.67E-03	7.39E+00	5.19E-01	3.00E-01	1.17E+00	1.67E+00	2.51E+00	5.29E+00
4.61E+00	5.82E-03	7.39E+00	5.19E-01	2.99E-01	1.17E+00	1.70E+00	2.52E+00	5.29E+00
4.88E+00	5.97E-03	7.39E+00	5.19E-01	2.96E-01	1.17E+00	1.74E+00	2.52E+00	5.29E+00
5.17E+00	6.13E-03	7.15E+00	5.18E-01	2.93E-01	1.17E+00	1.78E+00	2.39E+00	5.29E+00
5.47E+00	6.30E-03	6.39E+00	5.14E-01	2.89E-01	1.17E+00	1.82E+00	2.40E+00	5.29E+00
5.78E+00	6.48E-03	6.21E+00	5.07E-01	2.87E-01	1.17E+00	1.79E+00	2.40E+00	4.46E+00
6.12E+00	6.67E-03	5.62E+00	4.95E-01	2.86E-01	1.18E+00	1.82E+00	2.41E+00	3.74E+00
6.48E+00	6.87E-03	4.65E+00	4.83E-01	2.86E-01	1.18E+00	1.82E+00	2.34E+00	3.56E+00
6.86E+00	7.07E-03	3.65E+00	4.71E-01	2.86E-01	1.17E+00	1.71E+00	2.17E+00	3.39E+00
7.26E+00	7.29E-03	3.65E+00	4.64E-01	2.87E-01	1.11E+00	1.75E+00	2.12E+00	2.74E+00
7.68E+00	7.51E-03	3.65E+00	4.57E-01	2.85E-01	1.11E+00	1.77E+00	2.05E+00	2.56E+00
8.13E+00	5.09E-03	3.66E+00	4.49E-01	2.81E-01	1.10E+00	1.66E+00	2.05E+00	2.56E+00
8.60E+00	2.85E-03	3.66E+00	4.43E-01	2.76E-01	1.10E+00	1.66E+00	2.07E+00	2.56E+00
9.10E+00	1.55E-03	3.66E+00	4.39E-01	2.72E-01	9.86E-01	1.66E+00	2.07E+00	2.53E+00
9.63E+00	6.47E-04	3.67E+00	4.36E-01	2.67E-01	9.88E-01	1.66E+00	2.05E+00	2.36E+00
1.00E+01	2.37E-04	3.67E+00	4.33E-01	2.65E-01	9.89E-01	1.66E+00	2.03E+00	2.25E+00
1.02E+01	1.41E-04	3.67E+00	4.32E-01	2.64E-01	9.90E-01	1.58E+00	2.02E+00	2.22E+00
1.08E+01	2.84E-05	3.68E+00	4.27E-01	2.61E-01	9.92E-01	1.56E+00	1.99E+00	2.26E+00
1.14E+01	5.28E-06	3.41E+00	4.22E-01	2.62E-01	9.89E-01	1.59E+00	1.91E+00	2.30E+00
1.21E+01	9.83E-07	2.56E+00	4.11E-01	2.59E-01	9.90E-01	1.59E+00	1.81E+00	2.11E+00
1.28E+01	2.61E-07	2.56E+00	4.02E-01	2.55E-01	9.34E-01	1.41E+00	1.78E+00	2.13E+00
1.35E+01	1.39E-07	2.56E+00	3.94E-01	2.44E-01	9.24E-01	1.37E+00	1.75E+00	2.14E+00
1.43E+01	9.73E-08	2.56E+00	3.87E-01	2.44E-01	9.01E-01	1.28E+00	1.75E+00	2.15E+00
1.51E+01	9.34E-08	2.56E+00	3.79E-01	2.41E-01	9.02E-01	1.23E+00	1.75E+00	2.16E+00
1.60E+01	9.28E-08	2.17E+00	3.69E-01	2.38E-01	9.00E-01	1.23E+00	1.74E+00	2.12E+00
1.70E+01	9.26E-08	2.18E+00	3.57E-01	2.35E-01	8.86E-01	1.11E+00	1.65E+00	1.95E+00
1.80E+01	5.21E-08	2.15E+00	3.45E-01	2.25E-01	8.39E-01	1.09E+00	1.51E+00	1.95E+00
1.90E+01	2.97E-08	1.98E+00	3.33E-01	2.12E-01	8.27E-01	1.03E+00	1.37E+00	1.83E+00

2.01E+01 2.33E-08 1.96E+00 3.21E-01 2.10E-01 7.99E-01 1.01E+00 1.36E+00 1.66E+00

2.13E+01 2.16E-08 1.84E+00 3.09E-01 2.07E-01 7.74E-01 9.80E-01 1.20E+00 1.45E+00

2.25E+01 2.12E-08 1.67E+00 2.92E-01 2.04E-01 7.47E-01 9.09E-01 1.09E+00 1.32E+00

2.38E+01 2.11E-08 1.67E+00 2.77E-01 1.94E-01 6.73E-01 8.94E-01 1.02E+00 1.32E+00

2.52E+01 2.07E-08 1.48E+00 2.66E-01 1.83E-01 6.53E-01 8.99E-01 9.92E-01 1.30E+00

2.67E+01 2.07E-08 1.43E+00 2.52E-01 1.74E-01 6.46E-01 8.22E-01 9.65E-01 1.09E+00

2.82E+01 2.06E-08 1.30E+00 2.37E-01 1.68E-01 5.97E-01 8.08E-01 9.15E-01 9.90E-01

2.99E+01 2.05E-08 1.30E+00 2.27E-01 1.62E-01 5.21E-01 8.10E-01 9.07E-01 9.91E-01

3.00E+01 2.05E-08 1.30E+00 2.26E-01 1.62E-01 5.11E-01 8.10E-01 9.07E-01 9.91E-01

3.16E+01 2.05E-08 1.30E+00 2.19E-01 1.57E-01 5.11E-01 7.68E-01 9.07E-01 9.92E-01

3.35E+01 2.04E-08 1.09E+00 2.07E-01 1.46E-01 4.85E-01 7.50E-01 8.97E-01 9.75E-01

3.54E+01 2.04E-08 1.09E+00 1.97E-01 1.32E-01 4.55E-01 7.49E-01 8.63E-01 9.74E-01

3.75E+01 2.03E-08 1.09E+00 1.88E-01 1.25E-01 4.42E-01 7.03E-01 8.34E-01 9.72E-01

3.97E+01 2.03E-08 1.09E+00 1.76E-01 1.17E-01 4.02E-01 6.11E-01 8.29E-01 9.71E-01

4.20E+01 2.02E-08 9.74E-01 1.66E-01 1.09E-01 3.83E-01 5.45E-01 8.07E-01 9.12E-01

4.44E+01 2.01E-08 9.71E-01 1.53E-01 1.00E-01 3.73E-01 4.60E-01 6.60E-01 8.90E-01

4.70E+01 2.01E-08 9.15E-01 1.41E-01 9.17E-02 3.55E-01 4.38E-01 6.23E-01 8.20E-01

4.97E+01 1.97E-08 9.17E-01 1.34E-01 8.64E-02 3.39E-01 4.26E-01 5.66E-01 7.81E-01

5.26E+01 1.97E-08 6.64E-01 1.21E-01 8.11E-02 3.11E-01 3.85E-01 4.54E-01 6.20E-01

5.57E+01 1.96E-08 6.66E-01 1.14E-01 6.92E-02 3.08E-01 3.87E-01 4.36E-01 6.29E-01

5.90E+01 1.94E-08 6.67E-01 1.08E-01 6.12E-02 2.82E-01 3.82E-01 4.36E-01 6.20E-01

6.24E+01 1.93E-08 6.69E-01 1.02E-01 5.28E-02 2.81E-01 3.75E-01 4.36E-01 5.39E-01

6.60E+01 1.92E-08 5.83E-01 9.60E-02 4.77E-02 2.80E-01 3.65E-01 4.06E-01 4.65E-01

6.99E+01 1.91E-08 5.29E-01 8.90E-02 4.47E-02 2.63E-01 3.45E-01 4.00E-01 4.63E-01

7.39E+01 1.90E-08 5.29E-01 8.34E-02 3.66E-02 2.49E-01 3.37E-01 3.95E-01 4.47E-01

7.82E+01 1.89E-08 4.74E-01 7.81E-02 3.44E-02 2.44E-01 3.16E-01 3.96E-01 4.48E-01

8.28E+01 1.87E-08 4.64E-01 7.29E-02 2.87E-02 2.30E-01 3.13E-01 3.86E-01 4.25E-01

8.76E+01 1.86E-08 4.48E-01 6.86E-02 2.62E-02 2.08E-01 2.83E-01 3.69E-01 3.99E-01

9.27E+01 1.85E-08 4.25E-01 6.41E-02 2.38E-02 1.91E-01 2.83E-01 3.52E-01 3.96E-01

9.81E+01 1.84E-08 3.98E-01 5.91E-02 1.58E-02 1.81E-01 2.75E-01 3.44E-01 3.77E-01

1.00E+02 1.81E-08 3.98E-01 5.75E-02 1.51E-02 1.76E-01 2.65E-01 3.44E-01 3.75E-01

1.04E+02 1.80E-08 3.99E-01 5.43E-02 1.28E-02 1.73E-01 2.45E-01 3.12E-01 3.72E-01

1.10E+02 1.79E-08 3.99E-01 4.89E-02 7.57E-03 1.41E-01 2.39E-01 2.99E-01 3.68E-01

1.16E+02 1.81E-08 3.74E-01 4.47E-02 5.26E-03 1.33E-01 2.13E-01 2.80E-01 3.61E-01

1.23E+02 1.79E-08 3.75E-01 4.01E-02 2.26E-03 1.18E-01 2.03E-01 2.62E-01 3.12E-01

1.30E+02 1.72E-08 3.50E-01 3.54E-02 6.03E-04 1.14E-01 1.73E-01 2.37E-01 2.80E-01

1.38E+02 1.67E-08 3.44E-01 3.24E-02 2.75E-04 1.07E-01 1.47E-01 1.99E-01 2.62E-01

1.46E+02 1.65E-08 3.39E-01 2.86E-02 1.02E-04 9.79E-02 1.27E-01 1.79E-01 2.44E-01

1.54E+02 1.63E-08 3.33E-01 2.53E-02 2.94E-05 8.74E-02 1.21E-01 1.57E-01 2.03E-01

1.63E+02 1.60E-08 3.27E-01 2.28E-02 7.10E-06 8.05E-02 1.13E-01 1.54E-01 2.04E-01

1.73E+02 1.57E-08 3.21E-01 2.11E-02 3.09E-06 7.25E-02 1.05E-01 1.39E-01 2.04E-01

1.83E+02 1.54E-08 3.15E-01 1.94E-02 2.23E-06 6.61E-02 1.04E-01 1.38E-01 1.90E-01

1.94E+02 1.51E-08 3.09E-01 1.79E-02 1.59E-06 5.77E-02 9.84E-02 1.30E-01 1.72E-01

2.05E+02 1.47E-08 3.02E-01 1.63E-02 1.08E-06 5.30E-02 9.42E-02 1.15E-01 1.68E-01

2.17E+02 1.44E-08 2.85E-01 1.47E-02 9.92E-07 5.05E-02 8.42E-02 1.09E-01 1.64E-01

2.29E+02 1.40E-08 2.67E-01 1.36E-02 8.97E-07 4.70E-02 8.29E-02 1.08E-01 1.60E-01

2.43E+02 1.36E-08 2.49E-01 1.24E-02 8.43E-07 4.48E-02 7.94E-02 1.03E-01 1.48E-01

2.57E+02 1.31E-08 2.31E-01 1.12E-02 7.60E-07 4.21E-02 6.68E-02 1.01E-01 1.45E-01

2.72E+02 1.26E-08 2.14E-01 1.01E-02 7.12E-07 3.50E-02 6.48E-02 1.00E-01 1.42E-01

2.88E+02 1.22E-08 1.97E-01 9.19E-03 6.74E-07 3.05E-02 6.47E-02 1.00E-01 1.39E-01

3.00E+02 1.18E-08 1.84E-01 8.73E-03 6.44E-07 2.99E-02 6.45E-02 1.00E-01 1.36E-01

3.05E+02 1.16E-08 1.80E-01 8.55E-03 6.33E-07 2.99E-02 6.45E-02 1.00E-01 1.35E-01

3.22E+02 1.11E-08 1.64E-01 7.78E-03 5.85E-07 2.75E-02 5.35E-02 1.00E-01 1.32E-01

3.41E+02 1.05E-08 1.49E-01 7.16E-03 5.41E-07 2.30E-02 5.19E-02 1.00E-01 1.29E-01

3.61E+02 9.86E-09 1.34E-01 6.29E-03 4.83E-07 1.60E-02 4.43E-02 9.05E-02 1.25E-01

3.82E+02 9.21E-09 1.22E-01 5.62E-03 4.29E-07 1.51E-02 4.16E-02 8.13E-02 1.20E-01

4.04E+02 8.49E-09 1.18E-01 5.15E-03 3.69E-07 1.35E-02 4.10E-02 8.13E-02 1.09E-01

4.28E+02 7.76E-09 1.15E-01 4.62E-03 3.32E-07 1.24E-02 3.47E-02 5.13E-02 1.02E-01

4.53E+02 6.93E-09 1.10E-01 3.96E-03 2.75E-07 9.07E-03 3.40E-02 4.56E-02 8.38E-02

4.79E+02 6.07E-09 1.06E-01 3.48E-03 2.07E-07 5.77E-03 3.03E-02 4.39E-02 7.97E-02

5.07E+02 5.16E-09 1.02E-01 3.21E-03 1.58E-07 1.72E-03 2.89E-02 4.34E-02 7.98E-02

5.36E+02 2.83E-09 9.77E-02 2.86E-03 9.71E-08 4.53E-04 1.63E-02 4.23E-02 7.99E-02

5.68E+02 1.45E-09 9.58E-02 2.44E-03 6.24E-08 6.29E-05 1.55E-02 3.76E-02 5.35E-02

6.01E+02 1.14E-09 9.88E-02 2.32E-03 5.61E-08 3.28E-05 1.55E-02 3.44E-02 5.35E-02

6.36E+02 1.05E-09 1.17E-01 2.13E-03 5.22E-08 1.91E-05 1.48E-02 2.65E-02 5.35E-02

6.73E+02 1.02E-09 1.22E-01 1.95E-03 4.84E-08 1.07E-05 1.38E-02 2.51E-02 5.35E-02

7.12E+02 9.95E-10 1.14E-01 1.72E-03 4.47E-08 1.46E-06 1.21E-02 1.88E-02 5.34E-02

7.53E+02 9.64E-10 1.06E-01 1.52E-03 4.26E-08 5.70E-07 7.33E-03 1.66E-02 5.34E-02

7.97E+02 9.34E-10 9.89E-02 1.39E-03 3.92E-08 3.52E-07 6.12E-03 1.58E-02 5.34E-02

8.44E+02 9.01E-10 9.16E-02 1.31E-03 3.73E-08 3.29E-07 6.06E-03 1.51E-02 5.34E-02

8.93E+02 8.68E-10 8.47E-02 9.98E-04 3.57E-08 3.06E-07 1.77E-03 1.36E-02 2.59E-02

9.45E+02 8.33E-10 7.82E-02 8.67E-04 3.34E-08 2.57E-07 1.23E-04 1.03E-02 2.59E-02

1.00E+03 7.98E-10 7.21E-02 8.03E-04 3.25E-08 2.40E-07 7.61E-05 9.50E-03 2.59E-02

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

Summary of dose at graphical times, reptition 2

Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	7.94E-03	7.65E+00	5.08E-01	3.45E-01	9.34E-01	1.43E+00	2.25E+00	3.95E+00
1.00E+00	8.95E-03	8.39E+00	5.18E-01	3.02E-01	9.56E-01	1.41E+00	2.61E+00	6.82E+00
1.06E+00	9.01E-03	8.42E+00	5.19E-01	3.00E-01	9.59E-01	1.41E+00	2.64E+00	6.91E+00
1.12E+00	9.07E-03	8.45E+00	5.21E-01	2.99E-01	9.59E-01	1.44E+00	2.68E+00	7.01E+00
1.19E+00	9.14E-03	8.47E+00	5.22E-01	2.97E-01	9.62E-01	1.48E+00	2.71E+00	7.06E+00
1.25E+00	9.20E-03	8.50E+00	5.23E-01	2.96E-01	9.62E-01	1.52E+00	2.75E+00	6.97E+00
1.33E+00	9.28E-03	8.53E+00	5.24E-01	2.93E-01	9.68E-01	1.56E+00	2.78E+00	6.80E+00
1.40E+00	9.35E-03	8.55E+00	5.25E-01	2.88E-01	9.69E-01	1.60E+00	2.82E+00	6.58E+00
1.49E+00	9.43E-03	8.58E+00	5.26E-01	2.87E-01	9.65E-01	1.64E+00	2.86E+00	6.30E+00
1.57E+00	9.52E-03	8.61E+00	5.27E-01	2.86E-01	9.59E-01	1.64E+00	2.90E+00	5.94E+00
1.66E+00	9.61E-03	8.63E+00	5.28E-01	2.85E-01	9.76E-01	1.65E+00	2.93E+00	5.52E+00
1.76E+00	9.71E-03	8.66E+00	5.28E-01	2.81E-01	9.81E-01	1.65E+00	2.99E+00	5.03E+00
1.86E+00	9.81E-03	8.68E+00	5.29E-01	2.79E-01	9.89E-01	1.66E+00	3.07E+00	4.96E+00
1.97E+00	9.92E-03	8.70E+00	5.29E-01	2.79E-01	1.00E+00	1.67E+00	3.15E+00	5.01E+00
2.09E+00	1.00E-02	8.73E+00	5.29E-01	2.77E-01	1.02E+00	1.67E+00	3.01E+00	5.05E+00
2.21E+00	1.01E-02	8.75E+00	5.29E-01	2.76E-01	1.02E+00	1.72E+00	2.82E+00	5.10E+00
2.34E+00	1.03E-02	8.77E+00	5.30E-01	2.75E-01	1.02E+00	1.77E+00	2.87E+00	5.14E+00
2.47E+00	1.04E-02	8.79E+00	5.31E-01	2.74E-01	1.04E+00	1.71E+00	2.91E+00	5.18E+00
2.62E+00	1.05E-02	8.80E+00	5.33E-01	2.72E-01	1.04E+00	1.74E+00	2.96E+00	5.21E+00
2.77E+00	1.07E-02	8.82E+00	5.35E-01	2.70E-01	1.02E+00	1.76E+00	3.03E+00	5.25E+00
2.93E+00	1.09E-02	8.84E+00	5.37E-01	2.70E-01	1.02E+00	1.79E+00	3.13E+00	5.28E+00
3.00E+00	1.09E-02	8.84E+00	5.38E-01	2.69E-01	1.03E+00	1.80E+00	3.17E+00	5.29E+00
3.10E+00	1.10E-02	8.85E+00	5.39E-01	2.69E-01	1.03E+00	1.81E+00	3.23E+00	5.31E+00
3.28E+00	1.06E-02	8.86E+00	5.42E-01	2.70E-01	1.03E+00	1.83E+00	3.34E+00	5.33E+00
3.48E+00	9.83E-03	8.88E+00	5.44E-01	2.66E-01	1.04E+00	1.86E+00	3.44E+00	5.35E+00
3.68E+00	9.18E-03	8.89E+00	5.46E-01	2.66E-01	1.05E+00	1.88E+00	3.55E+00	5.37E+00
3.89E+00	8.62E-03	8.90E+00	5.49E-01	2.65E-01	1.07E+00	1.90E+00	3.67E+00	5.39E+00
4.12E+00	8.13E-03	8.90E+00	5.51E-01	2.64E-01	1.08E+00	1.92E+00	3.74E+00	5.41E+00
4.36E+00	7.71E-03	8.91E+00	5.51E-01	2.64E-01	1.10E+00	1.94E+00	3.75E+00	5.42E+00
4.61E+00	7.36E-03	8.92E+00	5.51E-01	2.64E-01	1.07E+00	1.96E+00	3.77E+00	5.43E+00
4.88E+00	7.08E-03	8.75E+00	5.48E-01	2.65E-01	1.09E+00	1.98E+00	3.79E+00	5.44E+00
5.17E+00	6.84E-03	8.08E+00	5.43E-01	2.60E-01	1.10E+00	2.00E+00	3.79E+00	4.86E+00
5.47E+00	4.75E-03	6.93E+00	5.38E-01	2.59E-01	1.12E+00	2.02E+00	3.45E+00	4.92E+00
5.78E+00	2.58E-03	5.47E+00	5.31E-01	2.57E-01	1.13E+00	2.03E+00	3.45E+00	4.98E+00
6.12E+00	1.35E-03	5.47E+00	5.24E-01	2.55E-01	1.15E+00	1.97E+00	3.44E+00	4.48E+00
6.48E+00	6.81E-04	5.48E+00	5.18E-01	2.56E-01	1.15E+00	1.98E+00	3.17E+00	4.42E+00
6.86E+00	3.30E-04	5.48E+00	5.11E-01	2.50E-01	1.17E+00	1.88E+00	3.16E+00	4.42E+00
7.26E+00	1.53E-04	5.47E+00	5.03E-01	2.47E-01	1.17E+00	1.82E+00	3.15E+00	4.42E+00
7.68E+00	6.80E-05	4.96E+00	4.94E-01	2.50E-01	1.11E+00	1.84E+00	3.07E+00	4.21E+00
8.13E+00	2.88E-05	3.80E+00	4.81E-01	2.45E-01	1.12E+00	1.87E+00	2.91E+00	3.60E+00
8.60E+00	1.16E-05	3.38E+00	4.65E-01	2.43E-01	1.13E+00	1.89E+00	2.67E+00	2.96E+00
9.10E+00	4.46E-06	3.20E+00	4.51E-01	2.43E-01	1.09E+00	1.72E+00	2.54E+00	2.76E+00
9.63E+00	1.62E-06	3.01E+00	4.42E-01	2.35E-01	1.06E+00	1.66E+00	2.37E+00	2.67E+00
1.00E+01	8.07E-07	2.88E+00	4.37E-01	2.35E-01	1.06E+00	1.53E+00	2.23E+00	2.67E+00
1.02E+01	5.66E-07	2.82E+00	4.34E-01	2.33E-01	1.06E+00	1.44E+00	2.18E+00	2.67E+00
1.08E+01	1.94E-07	2.78E+00	4.26E-01	2.33E-01	1.06E+00	1.41E+00	2.14E+00	2.63E+00
1.14E+01	7.19E-08	2.79E+00	4.19E-01	2.30E-01	9.90E-01	1.41E+00	2.04E+00	2.45E+00
1.21E+01	3.42E-08	2.79E+00	4.10E-01	2.24E-01	9.74E-01	1.41E+00	2.04E+00	2.45E+00
1.28E+01	2.35E-08	2.80E+00	4.01E-01	2.23E-01	9.82E-01	1.40E+00	1.91E+00	2.22E+00
1.35E+01	2.08E-08	2.80E+00	3.90E-01	2.22E-01	9.74E-01	1.31E+00	1.70E+00	2.24E+00
1.43E+01	2.01E-08	2.69E+00	3.79E-01	2.17E-01	9.18E-01	1.26E+00	1.64E+00	2.26E+00
1.51E+01	1.98E-08	2.68E+00	3.68E-01	2.16E-01	8.94E-01	1.24E+00	1.55E+00	2.10E+00
1.60E+01	1.96E-08	2.29E+00	3.52E-01	2.16E-01	9.12E-01	1.20E+00	1.37E+00	2.03E+00
1.70E+01	1.97E-08	2.18E+00	3.37E-01	2.13E-01	8.35E-01	1.08E+00	1.28E+00	2.03E+00
1.80E+01	1.97E-08	2.11E+00	3.25E-01	2.05E-01	7.92E-01	1.06E+00	1.25E+00	1.82E+00
1.90E+01	1.96E-08	2.04E+00	3.14E-01	2.04E-01	7.72E-01	1.01E+00	1.21E+00	1.72E+00

2.01E+01 1.96E-08 2.04E+00 3.03E-01 2.03E-01 7.76E-01 9.74E-01 1.19E+00 1.45E+00

2.13E+01 1.98E-08 1.73E+00 2.92E-01 1.97E-01 7.33E-01 9.60E-01 1.10E+00 1.35E+00

2.25E+01 1.96E-08 1.73E+00 2.77E-01 1.91E-01 7.07E-01 8.96E-01 1.02E+00 1.28E+00

2.38E+01 1.97E-08 1.38E+00 2.62E-01 1.83E-01 6.26E-01 8.39E-01 9.90E-01 1.23E+00

2.52E+01 1.99E-08 1.39E+00 2.49E-01 1.82E-01 5.58E-01 8.20E-01 9.71E-01 1.23E+00

2.67E+01 1.97E-08 1.34E+00 2.38E-01 1.76E-01 5.41E-01 7.96E-01 9.44E-01 1.23E+00

2.82E+01 1.99E-08 1.29E+00 2.27E-01 1.68E-01 5.12E-01 7.73E-01 9.45E-01 1.22E+00

2.99E+01 1.99E-08 1.29E+00 2.15E-01 1.58E-01 4.66E-01 7.23E-01 9.46E-01 1.18E+00

3.00E+01 1.99E-08 1.29E+00 2.14E-01 1.58E-01 4.66E-01 7.23E-01 9.46E-01 1.18E+00

3.16E+01	1.96E-08	1.30E+00	2.05E-01	1.49E-01	4.64E-01	6.79E-01	8.94E-01	1.17E+00

3.35E+01 1.95E-08 1.30E+00 1.93E-01 1.36E-01 4.42E-01 6.30E-01 8.50E-01 1.05E+00

3.54E+01 1.96E-08 1.23E+00 1.82E-01 1.28E-01 4.26E-01 6.08E-01 7.95E-01 9.84E-01

3.75E+01 1.95E-08 1.08E+00 1.70E-01 1.17E-01 4.02E-01 5.31E-01 7.00E-01 9.21E-01

3.97E+01 1.97E-08 9.88E-01 1.61E-01 1.10E-01 3.99E-01 5.31E-01 6.62E-01 8.74E-01

4.20E+01 1.95E-08 9.26E-01 1.51E-01 1.06E-01 3.73E-01 5.17E-01 6.12E-01 8.31E-01

4.44E+01 1.95E-08 8.32E-01 1.41E-01 1.01E-01 3.76E-01 4.70E-01 5.64E-01 6.73E-01

4.70E+01 1.97E-08 8.32E-01 1.34E-01 9.18E-02 3.57E-01 4.73E-01 5.44E-01 6.78E-01

4.97E+01 1.95E-08 8.02E-01 1.28E-01 8.68E-02 3.45E-01 4.64E-01 5.24E-01 6.06E-01

5.26E+01 1.95E-08 8.04E-01 1.22E-01 8.48E-02 2.91E-01 4.41E-01 5.05E-01 6.06E-01

5.57E+01 1.95E-08 8.06E-01 1.16E-01 7.57E-02 2.86E-01 4.39E-01 5.06E-01 6.05E-01

5.90E+01 1.96E-08 8.09E-01 1.11E-01 6.40E-02 2.80E-01 4.16E-01 4.94E-01 6.05E-01

6.24E+01 1.96E-08 8.12E-01 1.03E-01 5.77E-02 2.69E-01 4.10E-01 4.80E-01 6.05E-01

6.60E+01 1.93E-08 8.00E-01 9.87E-02 5.18E-02 2.57E-01 4.03E-01 4.81E-01 6.05E-01

6.99E+01 1.91E-08 7.98E-01 9.41E-02 4.86E-02 2.53E-01 3.93E-01 4.71E-01 5.47E-01

7.39E+01 1.90E-08 5.16E-01 8.69E-02 4.36E-02 2.44E-01 3.45E-01 4.38E-01 5.04E-01

7.82E+01 1.89E-08 5.16E-01 8.13E-02 3.85E-02 2.20E-01 3.15E-01 4.03E-01 4.73E-01

8.28E+01 1.88E-08 5.16E-01 7.59E-02 3.46E-02 2.13E-01 2.75E-01 3.94E-01 4.44E-01

8.76E+01 1.89E-08 4.70E-01 7.09E-02 2.99E-02 2.06E-01 2.59E-01 3.80E-01 4.35E-01

9.27E+01 1.86E-08 4.14E-01 6.62E-02 2.26E-02 1.98E-01 2.57E-01 3.52E-01 3.97E-01

9.81E+01 1.86E-08 4.14E-01 5.96E-02 1.74E-02 1.83E-01 2.34E-01 2.87E-01 3.47E-01

1.00E+02 1.85E-08 4.08E-01 5.72E-02 1.57E-02 1.77E-01 2.22E-01 2.72E-01 3.47E-01

1.04E+02 1.84E-08 3.70E-01 5.41E-02 1.27E-02 1.75E-01 2.19E-01 2.57E-01 3.42E-01

1.10E+02 1.84E-08 3.65E-01 4.96E-02 9.52E-03 1.70E-01 2.14E-01 2.55E-01 3.09E-01

1.16E+02 1.82E-08 3.59E-01 4.54E-02 6.08E-03 1.55E-01 1.94E-01 2.32E-01 2.91E-01

1.23E+02 1.80E-08 3.54E-01 4.12E-02 3.69E-03 1.31E-01 1.87E-01 2.28E-01 2.73E-01

1.30E+02 1.75E-08 3.48E-01 3.80E-02 8.15E-04 1.19E-01 1.80E-01 2.25E-01 2.65E-01

1.38E+02 1.74E-08 3.40E-01 3.46E-02 2.71E-04 1.04E-01 1.77E-01 2.25E-01 2.67E-01

1.46E+02 1.75E-08 3.32E-01 3.11E-02 7.42E-05 9.61E-02 1.70E-01 2.11E-01 2.62E-01

1.54E+02 1.74E-08 3.24E-01 2.84E-02 3.49E-05 8.79E-02 1.69E-01 2.06E-01 2.62E-01

1.63E+02 1.69E-08 3.16E-01 2.55E-02 1.26E-05 8.60E-02 1.57E-01 1.92E-01 2.31E-01

1.73E+02 1.67E-08 3.07E-01 2.31E-02 2.13E-06 7.60E-02 1.36E-01 1.88E-01 2.25E-01

1.83E+02 1.63E-08 2.99E-01 2.14E-02 1.80E-06 7.44E-02 1.31E-01 1.71E-01 2.23E-01

1.94E+02 1.59E-08 2.89E-01 2.00E-02 1.51E-06 6.94E-02 1.19E-01 1.71E-01 2.20E-01

2.05E+02 1.56E-08 2.80E-01 1.75E-02 1.24E-06 6.26E-02 9.17E-02 1.47E-01 2.17E-01

2.17E+02 1.53E-08 2.71E-01 1.56E-02 1.19E-06 5.37E-02 8.34E-02 1.34E-01 2.14E-01

2.29E+02 1.48E-08 2.61E-01 1.39E-02 1.10E-06 5.03E-02 7.62E-02 1.14E-01 2.11E-01

2.43E+02 1.44E-08 2.51E-01 1.26E-02 9.27E-07 4.57E-02 7.63E-02 1.01E-01 2.02E-01

2.57E+02 1.37E-08 2.41E-01 1.15E-02 8.70E-07 4.16E-02 6.94E-02 9.76E-02 1.92E-01

2.72E+02 1.32E-08 2.31E-01 1.06E-02 8.19E-07 3.56E-02 6.89E-02 9.62E-02 1.83E-01

2.88E+02 1.28E-08 2.20E-01 9.70E-03 7.31E-07 3.44E-02 5.78E-02 9.54E-02 1.73E-01

3.00E+02 1.22E-08 2.13E-01 9.18E-03 6.70E-07 3.08E-02 5.72E-02 9.54E-02 1.66E-01

3.05E+02 1.21E-08 2.10E-01 8.69E-03 6.58E-07 2.95E-02 5.17E-02 8.82E-02 1.64E-01

3.22E+02 1.15E-08 1.99E-01 7.69E-03 5.98E-07 2.39E-02 4.67E-02 8.50E-02 1.54E-01

3.41E+02 1.08E-08 1.89E-01 7.19E-03 5.47E-07 2.25E-02 4.56E-02 7.97E-02 1.45E-01

3.61E+02 1.03E-08 1.82E-01 6.26E-03 4.97E-07 1.84E-02 4.35E-02 6.66E-02 1.35E-01

3.82E+02 9.45E-09 1.78E-01 5.46E-03 4.32E-07 1.51E-02 3.56E-02 5.45E-02 1.26E-01

4.04E+02 8.70E-09 1.73E-01 4.94E-03 3.85E-07 1.41E-02 3.10E-02 4.94E-02 1.17E-01

4.28E+02 8.05E-09 1.69E-01 4.46E-03 3.32E-07 1.18E-02 2.94E-02 4.68E-02 1.09E-01

4.53E+02 7.10E-09 1.64E-01 4.00E-03 2.85E-07 9.34E-03 2.27E-02 4.45E-02 1.03E-01

4.79E+02 6.33E-09 1.59E-01 3.63E-03 2.31E-07 7.12E-03 2.24E-02 4.45E-02 1.04E-01

5.07E+02 5.03E-09 1.54E-01 3.33E-03 1.64E-07 5.47E-03 1.81E-02 3.97E-02 1.11E-01

5.36E+02 3.07E-09 1.49E-01 2.58E-03 1.02E-07 1.39E-03 1.46E-02 3.28E-02 5.83E-02

5.68E+02 2.55E-09 1.44E-01 2.33E-03 7.43E-08 9.16E-04 1.42E-02 3.28E-02 5.83E-02

6.01E+02 1.96E-09 1.39E-01 2.02E-03 6.03E-08 2.67E-05 1.17E-02 2.68E-02 5.83E-02

6.36E+02 1.52E-09 1.33E-01 1.85E-03 5.22E-08 1.16E-05 1.10E-02 2.27E-02 5.84E-02

6.73E+02 1.28E-09 1.28E-01 1.71E-03 4.83E-08 6.31E-06 9.29E-03 2.04E-02 5.84E-02

7.12E+02 1.14E-09 1.22E-01 1.41E-03 4.51E-08 7.95E-07 5.86E-03 1.65E-02 4.34E-02

7.53E+02 1.03E-09 1.17E-01 1.34E-03 4.18E-08 6.73E-07 5.83E-03 1.65E-02 4.35E-02

7.97E+02 9.75E-10 1.11E-01 1.23E-03 3.95E-08 5.11E-07 7.56E-04 1.62E-02 4.35E-02

8.44E+02 9.36E-10 1.05E-01 1.14E-03 3.74E-08 3.53E-07 1.14E-04 1.56E-02 4.35E-02

8.93E+02 8.99E-10 9.95E-02 1.02E-03 3.60E-08 2.85E-07 1.20E-06 1.18E-02 3.81E-02

9.45E+02 8.61E-10 9.38E-02 9.80E-04 3.40E-08 2.43E-07 5.82E-07 1.18E-02 3.55E-02

1.00E+03 8.26E-10 8.81E-02 7.99E-04 3.23E-08 2.24E-07 5.35E-07 1.02E-02 2.79E-02

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

Summary of dose at graphical times, reptition 3

Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.28E-03	4.43E+00	4.76E-01	3.52E-01	9.81E-01	1.23E+00	1.71E+00	2.59E+00
1.00E+00	2.69E-03	3.74E+00	4.64E-01	3.20E-01	8.97E-01	1.41E+00	1.91E+00	3.22E+00
1.06E+00	2.77E-03	3.85E+00	4.66E-01	3.19E-01	8.96E-01	1.43E+00	1.95E+00	3.22E+00
1.12E+00	2.86E-03	3.97E+00	4.67E-01	3.17E-01	9.02E-01	1.43E+00	2.00E+00	3.22E+00
1.19E+00	2.95E-03	4.09E+00	4.68E-01	3.16E-01	8.97E-01	1.44E+00	2.04E+00	3.22E+00
1.25E+00	3.05E-03	4.22E+00	4.70E-01	3.13E-01	8.88E-01	1.45E+00	2.08E+00	3.22E+00
1.33E+00	3.15E-03	4.35E+00	4.72E-01	3.11E-01	8.81E-01	1.49E+00	2.13E+00	3.22E+00
1.40E+00	3.26E-03	4.50E+00	4.74E-01	3.10E-01	8.82E-01	1.53E+00	2.18E+00	3.22E+00
1.49E+00	3.38E-03	4.64E+00	4.76E-01	3.07E-01	8.86E-01	1.57E+00	2.23E+00	3.27E+00
1.57E+00	3.50E-03	4.80E+00	4.78E-01	3.05E-01	9.04E-01	1.59E+00	2.28E+00	3.36E+00
1.66E+00	3.63E-03	4.96E+00	4.80E-01	3.03E-01	9.01E-01	1.60E+00	2.33E+00	3.45E+00
1.76E+00	3.76E-03	5.11E+00	4.82E-01	3.02E-01	9.06E-01	1.61E+00	2.38E+00	3.54E+00
1.86E+00	3.91E-03	5.23E+00	4.84E-01	2.98E-01	9.15E-01	1.62E+00	2.43E+00	3.64E+00
1.97E+00	4.06E-03	5.34E+00	4.87E-01	2.97E-01	9.25E-01	1.63E+00	2.49E+00	3.73E+00
2.09E+00	4.22E-03	5.48E+00	4.89E-01	2.95E-01	9.29E-01	1.63E+00	2.54E+00	3.83E+00
2.21E+00	4.39E-03	5.65E+00	4.92E-01	2.89E-01	9.33E-01	1.64E+00	2.60E+00	3.93E+00
2.34E+00	4.58E-03	5.79E+00	4.94E-01	2.86E-01	9.49E-01	1.65E+00	2.65E+00	4.03E+00
2.47E+00	4.77E-03	5.88E+00	4.96E-01	2.85E-01	9.66E-01	1.67E+00	2.71E+00	4.14E+00
2.62E+00	4.97E-03	5.93E+00	4.98E-01	2.86E-01	9.79E-01	1.71E+00	2.77E+00	4.24E+00
2.77E+00	5.18E-03	5.93E+00	4.99E-01	2.85E-01	9.89E-01	1.75E+00	2.82E+00	4.35E+00
2.93E+00	5.41E-03	5.86E+00	5.01E-01	2.85E-01	1.00E+00	1.79E+00	2.88E+00	4.45E+00
3.00E+00	5.51E-03	5.81E+00	5.01E-01	2.85E-01	1.01E+00	1.81E+00	2.91E+00	4.50E+00
3.10E+00	5.65E-03	5.72E+00	5.02E-01	2.83E-01	1.01E+00	1.83E+00	2.94E+00	4.56E+00
3.28E+00	5.91E-03	5.52E+00	5.03E-01	2.85E-01	1.01E+00	1.88E+00	2.98E+00	4.67E+00
3.48E+00	6.18E-03	5.32E+00	5.03E-01	2.87E-01	1.02E+00	1.92E+00	3.00E+00	4.64E+00
3.68E+00	6.46E-03	5.12E+00	5.04E-01	2.86E-01	1.03E+00	1.95E+00	3.01E+00	4.49E+00
3.89E+00	6.76E-03	4.91E+00	5.04E-01	2.85E-01	1.04E+00	1.95E+00	3.03E+00	4.34E+00
4.12E+00	7.08E-03	4.72E+00	5.04E-01	2.83E-01	1.05E+00	1.96E+00	3.08E+00	4.19E+00
4.36E+00	7.14E-03	4.49E+00	5.04E-01	2.83E-01	1.06E+00	1.96E+00	3.12E+00	4.03E+00
4.61E+00	6.36E-03	4.27E+00	5.04E-01	2.83E-01	1.06E+00	1.96E+00	3.16E+00	3.88E+00
4.88E+00	5.72E-03	4.05E+00	5.03E-01	2.83E-01	1.07E+00	1.94E+00	3.18E+00	3.72E+00
5.17E+00	5.21E-03	3.84E+00	5.03E-01	2.85E-01	1.08E+00	1.87E+00	3.19E+00	3.55E+00
5.47E+00	4.80E-03	3.82E+00	5.01E-01	2.85E-01	1.08E+00	1.80E+00	3.14E+00	3.39E+00
5.78E+00	4.48E-03	3.91E+00	4.99E-01	2.84E-01	1.09E+00	1.76E+00	3.09E+00	3.40E+00
6.12E+00	4.24E-03	4.00E+00	4.96E-01	2.83E-01	1.05E+00	1.78E+00	3.01E+00	3.22E+00
6.48E+00	4.06E-03	4.09E+00	4.92E-01	2.83E-01	1.05E+00	1.68E+00	2.75E+00	3.22E+00
6.86E+00	3.92E-03	4.12E+00	4.88E-01	2.84E-01	1.07E+00	1.71E+00	2.58E+00	3.23E+00
7.26E+00	3.83E-03	3.99E+00	4.81E-01	2.84E-01	1.07E+00	1.67E+00	2.48E+00	3.23E+00
7.68E+00	3.76E-03	3.70E+00	4.73E-01	2.83E-01	1.07E+00	1.63E+00	2.32E+00	3.23E+00
8.13E+00	3.71E-03	3.73E+00	4.66E-01	2.87E-01	1.06E+00	1.63E+00	2.24E+00	3.23E+00
8.60E+00	3.68E-03	3.77E+00	4.62E-01	2.83E-01	1.06E+00	1.62E+00	2.06E+00	3.09E+00
9.10E+00	3.66E-03	3.77E+00	4.57E-01	2.75E-01	1.07E+00	1.62E+00	1.94E+00	3.00E+00
9.63E+00	3.65E-03	3.49E+00	4.50E-01	2.66E-01	1.09E+00	1.61E+00	1.95E+00	3.00E+00
1.00E+01	3.64E-03	3.27E+00	4.45E-01	2.67E-01	1.09E+00	1.57E+00	1.96E+00	3.00E+00
1.02E+01	3.64E-03	3.27E+00	4.42E-01	2.65E-01	1.09E+00	1.57E+00	1.97E+00	2.95E+00
1.08E+01	3.63E-03	3.25E+00	4.32E-01	2.65E-01	1.08E+00	1.52E+00	1.98E+00	2.45E+00
1.14E+01	2.13E-03	3.22E+00	4.23E-01	2.64E-01	1.06E+00	1.33E+00	1.94E+00	2.34E+00
1.21E+01	6.70E-04	3.22E+00	4.11E-01	2.65E-01	1.01E+00	1.30E+00	1.66E+00	2.34E+00
1.28E+01	1.97E-04	3.22E+00	3.99E-01	2.64E-01	9.87E-01	1.25E+00	1.48E+00	2.35E+00
1.35E+01	5.39E-05	2.60E+00	3.82E-01	2.63E-01	9.61E-01	1.18E+00	1.40E+00	2.28E+00
1.43E+01	1.37E-05	2.35E+00	3.64E-01	2.58E-01	8.92E-01	1.11E+00	1.36E+00	2.08E+00
1.51E+01	3.30E-06	2.35E+00	3.55E-01	2.56E-01	8.17E-01	1.11E+00	1.34E+00	1.76E+00
1.60E+01	7.95E-07	2.35E+00	3.43E-01	2.54E-01	7.67E-01	1.06E+00	1.26E+00	1.62E+00
1.70E+01	2.43E-07	2.36E+00	3.31E-01	2.49E-01	7.36E-01	1.05E+00	1.23E+00	1.53E+00
1.80E+01	7.13E-08	2.34E+00	3.20E-01	2.46E-01	7.20E-01	1.03E+00	1.17E+00	1.41E+00
1.90E+01	4.17E-08	1.80E+00	3.08E-01	2.24E-01	6.83E-01	9.71E-01	1.09E+00	1.42E+00

2.01E+01 3.73E-08 1.63E+00 2.95E-01 2.11E-01 6.65E-01 9.69E-01 1.09E+00 1.31E+00

2.13E+01 3.67E-08 1.63E+00 2.84E-01 2.06E-01 6.52E-01 9.34E-01 1.06E+00 1.32E+00

2.25E+01 3.66E-08 1.63E+00 2.74E-01 1.99E-01 6.46E-01 9.18E-01 1.03E+00 1.33E+00

2.38E+01 3.65E-08 1.58E+00 2.65E-01 1.88E-01 6.21E-01 9.05E-01 1.04E+00 1.35E+00

2.52E+01 3.65E-08 1.46E+00 2.55E-01 1.82E-01 6.24E-01 8.70E-01 1.01E+00 1.14E+00

2.67E+01 3.64E-08 1.42E+00 2.45E-01 1.74E-01 5.87E-01 8.14E-01 9.86E-01 1.15E+00

2.82E+01 3.64E-08 1.37E+00 2.35E-01 1.69E-01 5.65E-01 7.98E-01 9.87E-01 1.14E+00

2.99E+01 3.64E-08 1.36E+00 2.25E-01 1.64E-01 5.40E-01 7.63E-01 9.52E-01 1.07E+00

3.00E+01	3.64E-08	1.35E+00	2.24E-01	1.63E-01	5.38E-01	7.60E-01	9.47E-01	1.07E+00

3.16E+01 3.64E-08 1.18E+00 2.17E-01 1.53E-01 5.18E-01 7.23E-01 8.79E-01 1.07E+00

3.35E+01 3.57E-08 1.17E+00 2.09E-01 1.47E-01 5.02E-01 6.86E-01 8.73E-01 9.97E-01

3.54E+01 3.55E-08 1.07E+00 2.01E-01 1.44E-01 4.91E-01 6.48E-01 8.06E-01 9.98E-01

3.75E+01 3.54E-08 1.06E+00 1.94E-01 1.39E-01 4.59E-01 6.23E-01 7.97E-01 9.92E-01

3.97E+01 3.53E-08 1.00E+00 1.83E-01 1.28E-01 4.35E-01 5.72E-01 7.49E-01 9.90E-01

4.20E+01 3.51E-08 1.00E+00 1.73E-01 1.21E-01 4.15E-01 5.71E-01 7.22E-01 9.32E-01

4.44E+01 3.50E-08 1.00E+00 1.62E-01 1.07E-01 3.81E-01 5.32E-01 6.42E-01 7.66E-01

4.70E+01 3.49E-08 1.01E+00 1.54E-01 9.93E-02 3.60E-01 4.95E-01 6.23E-01 7.66E-01

4.97E+01 3.47E-08 8.16E-01 1.44E-01 9.60E-02 3.46E-01 4.57E-01 5.85E-01 7.25E-01

5.26E+01 3.46E-08 7.36E-01 1.33E-01 8.86E-02 3.30E-01 4.33E-01 5.45E-01 6.51E-01

5.57E+01 3.45E-08 6.68E-01 1.25E-01 7.81E-02 3.16E-01 4.25E-01 5.15E-01 5.88E-01

5.90E+01 3.44E-08 6.68E-01 1.19E-01 6.71E-02 3.16E-01 4.27E-01 5.02E-01 5.89E-01

6.24E+01 3.43E-08 6.46E-01 1.13E-01 6.49E-02 2.91E-01 3.67E-01 5.03E-01 5.80E-01

6.60E+01 3.35E-08 5.79E-01 1.03E-01 5.73E-02 2.84E-01 3.58E-01 4.63E-01 5.71E-01

6.99E+01 3.32E-08 5.77E-01 9.65E-02 4.89E-02 2.61E-01 3.59E-01 4.49E-01 5.37E-01

7.39E+01 3.30E-08 5.75E-01 8.69E-02 4.53E-02 2.52E-01 3.22E-01 4.10E-01 4.97E-01

7.82E+01 3.27E-08 5.73E-01 8.12E-02 3.86E-02 2.34E-01 3.12E-01 3.82E-01 4.97E-01

8.28E+01 3.24E-08 5.71E-01 7.58E-02 3.18E-02 2.16E-01 2.95E-01 3.60E-01 4.87E-01

8.76E+01 3.21E-08 5.68E-01 6.78E-02 2.64E-02 1.90E-01 2.85E-01 3.52E-01 4.32E-01

9.27E+01 3.18E-08 5.66E-01 6.32E-02 2.22E-02 1.84E-01 2.77E-01 3.18E-01 3.62E-01

9.81E+01 3.15E-08 5.63E-01 5.82E-02 1.82E-02 1.72E-01 2.46E-01 2.92E-01 3.61E-01

1.00E+02 3.14E-08 5.63E-01 5.61E-02 1.65E-02 1.67E-01 2.37E-01 2.84E-01 3.62E-01

1.04E+02 3.12E-08 5.61E-01 5.29E-02 1.28E-02 1.64E-01 2.38E-01 2.84E-01 3.55E-01

1.10E+02 3.09E-08 5.58E-01 4.93E-02 9.78E-03 1.59E-01 2.09E-01 2.62E-01 3.55E-01

1.16E+02 3.05E-08 5.55E-01 4.49E-02 6.29E-03 1.45E-01 1.89E-01 2.43E-01 3.17E-01

1.23E+02 3.02E-08 5.52E-01 3.97E-02 3.69E-03 1.32E-01 1.79E-01 2.22E-01 2.89E-01

1.30E+02 2.96E-08 5.49E-01 3.58E-02 1.93E-03 1.26E-01 1.61E-01 2.06E-01 2.51E-01

1.38E+02 2.88E-08 5.45E-01 3.29E-02 6.14E-04 1.15E-01 1.55E-01 2.06E-01 2.52E-01

1.46E+02 2.83E-08 5.41E-01 3.03E-02 6.89E-05 1.08E-01 1.50E-01 2.04E-01 2.52E-01

1.54E+02 2.77E-08 5.38E-01 2.80E-02 1.50E-05 9.80E-02 1.44E-01 1.97E-01 2.36E-01

1.63E+02 2.71E-08 5.34E-01 2.58E-02 4.64E-06 9.37E-02 1.37E-01 1.87E-01 2.36E-01

1.73E+02 2.65E-08 5.29E-01 2.48E-02 2.36E-06 8.19E-02 1.35E-01 1.83E-01 2.37E-01

1.83E+02 2.61E-08 5.25E-01 2.26E-02 1.61E-06 7.04E-02 1.33E-01 1.70E-01 2.16E-01

1.94E+02 2.55E-08 5.20E-01 2.13E-02 1.28E-06 6.22E-02 1.32E-01 1.70E-01 2.14E-01

2.05E+02 2.47E-08 5.15E-01 1.93E-02 1.19E-06 5.45E-02 1.29E-01 1.61E-01 2.11E-01

2.17E+02 2.40E-08 5.10E-01 1.76E-02 1.13E-06 4.99E-02 1.20E-01 1.50E-01 2.08E-01

2.29E+02 2.32E-08 5.05E-01 1.65E-02 1.04E-06 4.76E-02 1.20E-01 1.46E-01 2.06E-01

2.43E+02 2.24E-08 5.00E-01 1.55E-02 9.62E-07 4.75E-02 1.05E-01 1.35E-01 2.04E-01

2.57E+02 2.15E-08 4.96E-01 1.40E-02 8.73E-07 3.70E-02 9.81E-02 1.28E-01 1.92E-01

2.72E+02 2.02E-08 5.04E-01 1.28E-02 7.66E-07 3.34E-02 9.37E-02 1.28E-01 1.72E-01

2.88E+02 1.91E-08 5.06E-01 1.19E-02 7.10E-07 3.28E-02 9.35E-02 1.23E-01 1.53E-01

3.00E+02 1.83E-08 5.18E-01 1.05E-02 6.41E-07 3.24E-02 5.40E-02 1.15E-01 1.39E-01

3.05E+02 1.80E-08 5.26E-01 1.02E-02 6.34E-07 3.16E-02 5.33E-02 1.14E-01 1.36E-01

3.22E+02 1.68E-08 6.08E-01 9.06E-03 5.76E-07 2.60E-02 4.77E-02 9.60E-02 1.27E-01

3.41E+02 1.56E-08 1.30E-01 5.91E-03 5.30E-07 1.96E-02 3.64E-02 5.89E-02 1.04E-01

3.61E+02 1.45E-08 1.20E-01 5.46E-03 4.81E-07 1.91E-02 3.56E-02 5.44E-02 9.86E-02

3.82E+02 1.30E-08 1.20E-01 4.78E-03 4.41E-07 1.83E-02 3.27E-02 4.97E-02 9.47E-02

4.04E+02 1.15E-08 1.20E-01 3.94E-03 3.87E-07 1.47E-02 3.11E-02 3.76E-02 9.08E-02

4.28E+02 9.94E-09 1.20E-01 3.48E-03 3.39E-07 1.12E-02 2.58E-02 3.43E-02 8.68E-02

4.53E+02 8.24E-09 8.46E-02 2.84E-03 2.69E-07 8.74E-03 2.38E-02 3.23E-02 4.76E-02

4.79E+02 6.40E-09 7.92E-02 2.32E-03 2.09E-07 4.76E-03 1.98E-02 3.20E-02 3.83E-02

5.07E+02 4.46E-09 7.52E-02 2.13E-03 1.49E-07 3.53E-03 1.85E-02 3.13E-02 3.28E-02

5.36E+02 2.44E-09 7.12E-02 1.82E-03 9.44E-08 1.74E-03 1.64E-02 2.56E-02 3.22E-02

5.68E+02 1.77E-09 6.72E-02 1.61E-03 6.74E-08 4.16E-04 1.32E-02 2.45E-02 3.16E-02

6.01E+02 1.63E-09 6.32E-02 1.33E-03 5.42E-08 7.35E-05 1.06E-02 1.88E-02 3.16E-02

6.36E+02 1.58E-09 5.92E-02 1.12E-03 4.92E-08 3.81E-05 9.86E-03 1.76E-02 3.12E-02

6.73E+02 1.53E-09 5.53E-02 9.59E-04 4.54E-08 1.56E-05 6.52E-03 1.58E-02 2.60E-02

7.12E+02 1.48E-09 5.14E-02 8.54E-04 4.24E-08 2.06E-06 4.46E-03 1.32E-02 2.34E-02

7.53E+02 1.45E-09 4.76E-02 7.79E-04 3.97E-08 6.22E-07 2.49E-03 1.30E-02 2.34E-02

7.97E+02 1.40E-09 4.39E-02 7.22E-04 3.83E-08 3.48E-07 8.38E-05 1.30E-02 2.35E-02

8.44E+02 1.34E-09 4.02E-02 6.67E-04 3.67E-08 3.07E-07 8.65E-06 1.30E-02 2.31E-02

8.93E+02 1.29E-09 3.67E-02 5.90E-04 3.53E-08 2.87E-07 3.77E-06 1.06E-02 2.31E-02

9.45E+02 1.23E-09 3.33E-02 5.05E-04 3.39E-08 2.72E-07 1.66E-06 1.04E-02 1.89E-02

1.00E+03 1.17E-09 3.01E-02 4.53E-04 3.25E-08 2.53E-07 7.45E-07 7.51E-03 1.90E-02

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NP-237.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	4.359E+00	5.188E-01
2	4.359E+00	5.512E-01
3	3.892E+00	5.043E-01

Title : RESRAD Default Parameters

Input File : FCS BURIED PIPE INSITU UA NP-237.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
Repetition =	1		1		1		1	
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	14	-0.02	14	-0.02	12	0.03	12	0.01
Contaminated zone b parameter	9	-0.08	9	-0.07	16	-0.02	16	-0.01
Evapotranspiration coefficient	12	-0.04	12	-0.03	10	0.05	10	0.03
Wind Speed	13	0.03	13	0.02	11	0.05	11	0.02
Runoff coefficient	7	-0.09	7	-0.07	13	0.03	13	0.01
b Parameter of Unsaturated zone 1	16	-0.02	16	-0.01	6	0.11	6	0.05
Mass loading for inhalation	5	0.10	5	0.09	4	0.12	4	0.06
Indoor dust filtration factor	15	-0.02	15	-0.01	18	0.01	18	0.00
Depth of soil mixing layer	17	0.01	17	0.01	17	-0.01	17	0.00
Depth of roots	10	0.06	10	0.05	14	0.02	14	0.01
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	-0.01	18	-0.01	8	-0.08	8	-0.04
Weathering removal constant of all vegetation	6	-0.09	6	-0.07	9	-0.07	9	-0.03
Wet foliar interception fraction of leafy vegetables	11	-0.04	11	-0.03	7	-0.10	7	-0.05
Humidity in air	8	-0.08	8	-0.07	5	-0.11	5	-0.05
Cover erosion rate	4	0.18	4	0.16	15	0.02	15	0.01
Kd of Np-237 in Contaminated Zone	3	-0.18	3	-0.16	3	-0.62	3	-0.38
Kd of Np-237 in Saturated Zone	2	-0.23	2	-0.21	1	-0.77	1	-0.57
Well pump intake depth	1	-0.42	1	-0.40	2	-0.74	2	-0.52
R-SQUARE		0.28		0.28		0.78		0.78

-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 NP-237.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
Repetition =	2		2		2		2	
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	8	-0.05	7	-0.04	9	-0.05	9	-0.03
Contaminated zone b parameter	14	0.03	14	0.03	5	-0.10	5	-0.05
Evapotranspiration coefficient	15	-0.02	15	-0.02	16	0.01	16	0.00
Wind Speed	9	0.04	9	0.04	13	0.03	13	0.01
Runoff coefficient	12	0.04	12	0.03	8	0.06	8	0.03
b Parameter of Unsaturated zone 1	18	0.01	18	0.01	6	0.08	6	0.04
Mass loading for inhalation	5	0.06	5	0.05	11	-0.05	11	-0.02
Indoor dust filtration factor	6	0.05	6	0.05	10	-0.05	10	-0.03
Depth of soil mixing layer	13	0.03	13	0.03	15	-0.02	15	-0.01
Depth of roots	10	-0.04	10	-0.03	17	-0.01	17	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	11	-0.04	11	-0.03	14	-0.03	14	-0.01
Weathering removal constant of all vegetation	7	-0.05	8	-0.04	18	0.01	18	0.00
Wet foliar interception fraction of leafy vegetables	3	0.13	3	0.11	7	0.07	7	0.03
Humidity in air	17	-0.01	17	-0.01	12	0.05	12	0.02
Cover erosion rate	16	-0.02	16	-0.02	4	0.12	4	0.07
Kd of Np-237 in Contaminated Zone	4	-0.11	4	-0.10	3	-0.52	3	-0.32
Kd of Np-237 in Saturated Zone	2	-0.18	2	-0.17	1	-0.73	1	-0.56
Well pump intake depth	1	-0.41	1	-0.40	2	-0.73	2	-0.56
R-SQUARE		0.22		0.22		0.73		0.73

-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 NP-237.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
Repetition =	3		3		3		3	
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	14	-0.02	13	-0.02	9	-0.05	9	-0.03
Contaminated zone b parameter	10	0.03	10	0.03	8	0.05	8	0.03
Evapotranspiration coefficient	3	-0.11	3	-0.10	18	-0.01	18	-0.01
Wind Speed	5	-0.06	5	-0.05	7	-0.05	7	-0.03
Runoff coefficient	6	0.05	6	0.05	5	0.09	5	0.05
b Parameter of Unsaturated zone 1	17	0.01	17	0.01	15	0.03	15	0.01
Mass loading for inhalation	9	-0.03	9	-0.03	6	-0.07	6	-0.04
Indoor dust filtration factor	12	0.02	14	0.02	11	0.03	11	0.02
Depth of soil mixing layer	11	0.03	11	0.03	14	0.03	14	0.01
Depth of roots	15	-0.01	15	-0.01	12	-0.03	12	-0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	7	-0.05	7	-0.04	10	-0.04	10	-0.02
Weathering removal constant of all vegetation	8	0.04	8	0.04	16	0.02	16	0.01
Wet foliar interception fraction of leafy vegetables	18	-0.01	18	-0.01	13	0.03	13	0.02
Humidity in air	16	-0.01	16	-0.01	17	-0.01	17	-0.01
Cover erosion rate	13	0.02	12	0.02	4	0.11	4	0.06
Kd of Np-237 in Contaminated Zone	4	-0.09	4	-0.08	3	-0.48	3	-0.30
Kd of Np-237 in Saturated Zone	2	-0.20	2	-0.18	2	-0.70	2	-0.54
Well pump intake depth	1	-0.42	1	-0.42	1	-0.71	1	-0.55
R-SQUARE		0.22		0.22		0.70		0.70

-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.