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Part VI: Uncertainty Analysis

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Probabilistic Input

Number of Sample Runs: 1500

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	VCV	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22													.005	.95	.2	1					
16	DCACTC(1)	LOGNORMAL-N	3.09	1.79																							
17	DCACTS(1)	LOGNORMAL-N	3.09	1.79																							
18	DWIBWT	CONTINUOUS LINEAR	6	5	0	24													.29	43	.66	53	.68	76	.91	89	1

Probabilistic Total Dose Summary

Nuclide (j)	Peak	Peak	DOSE(j,t), mrem/yr							
	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
<hr/>										
Sr-90										
Min	0.00E+00	6.96E-05	1.32E-05	1.70E-05	2.41E-05	2.31E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.34E+02	5.19E-01	3.57E-01	4.88E-01	3.15E-01	2.21E-01	1.64E-01	2.74E-02	3.77E-04	7.25E-12
Avg	2.86E+00	1.07E-01	1.03E-01	8.39E-02	6.64E-02	3.79E-02	1.35E-02	1.14E-03	3.68E-06	3.41E-14
Std	1.31E+01	6.89E-02	6.85E-02	6.58E-02	6.02E-02	4.32E-02	2.16E-02	2.94E-03	1.80E-05	3.53E-13
ALL										
Min	0.00E+00	6.96E-05	1.32E-05	1.70E-05	2.41E-05	2.31E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.34E+02	5.19E-01	3.57E-01	4.88E-01	3.15E-01	2.21E-01	1.64E-01	2.74E-02	3.77E-04	7.25E-12
Avg	2.86E+00	1.07E-01	1.03E-01	8.39E-02	6.64E-02	3.79E-02	1.35E-02	1.14E-03	3.68E-06	3.41E-14
Std	1.31E+01	6.89E-02	6.85E-02	6.58E-02	6.02E-02	4.32E-02	2.16E-02	2.94E-03	1.80E-05	3.53E-13
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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
Sr-90									
Min		1.67E-10	2.26E-10	3.34E-10	2.95E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.73E-06	6.86E-06	6.02E-06	4.35E-06	3.12E-06	5.19E-07	7.15E-09	1.37E-16
Avg		2.28E-06	1.66E-06	1.27E-06	7.05E-07	2.48E-07	2.10E-08	6.87E-11	6.39E-19
Std		1.52E-06	1.24E-06	1.14E-06	8.21E-07	4.09E-07	5.57E-08	3.42E-10	6.70E-18
ALL									
Min		1.67E-10	2.26E-10	3.34E-10	2.95E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.73E-06	6.86E-06	6.02E-06	4.35E-06	3.12E-06	5.19E-07	7.15E-09	1.37E-16
Avg		2.28E-06	1.66E-06	1.27E-06	7.05E-07	2.48E-07	2.10E-08	6.87E-11	6.39E-19
Std		1.52E-06	1.24E-06	1.14E-06	8.21E-07	4.09E-07	5.57E-08	3.42E-10	6.70E-18

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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Sr-90									
Min		5.60E-13	1.71E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.43E-11	2.21E-09	1.22E-06	2.70E-03	1.11E-03	9.50E-05	1.99E-06	1.20E-13
Avg		1.16E-11	1.63E-11	2.08E-09	8.88E-06	2.03E-06	1.16E-07	5.22E-09	2.87E-16
Std		5.51E-12	9.32E-11	4.10E-08	1.37E-04	3.56E-05	2.77E-06	7.28E-08	4.80E-15
ALL									
Min		5.60E-13	1.71E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		9.43E-11	2.21E-09	1.22E-06	2.70E-03	1.11E-03	9.50E-05	1.99E-06	1.20E-13
Avg		1.16E-11	1.63E-11	2.08E-09	8.88E-06	2.03E-06	1.16E-07	5.22E-09	2.87E-16
Std		5.51E-12	9.32E-11	4.10E-08	1.37E-04	3.56E-05	2.77E-06	7.28E-08	4.80E-15
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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
<hr/>									
Sr-90									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	3.89E-10	1.42E-06	5.69E-07	2.62E-08	1.33E-09	5.65E-17
Avg		0.00E+00	0.00E+00	2.59E-13	2.51E-09	8.45E-10	5.24E-11	3.86E-12	1.44E-19
Std		0.00E+00	0.00E+00	1.00E-11	4.41E-08	1.77E-08	1.02E-09	4.83E-11	2.26E-18
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TOTAL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	3.89E-10	1.42E-06	5.69E-07	2.62E-08	1.33E-09	5.65E-17
Avg		0.00E+00	0.00E+00	2.59E-13	2.51E-09	8.45E-10	5.24E-11	3.86E-12	1.44E-19
Std		0.00E+00	0.00E+00	1.00E-11	4.41E-08	1.77E-08	1.02E-09	4.83E-11	2.26E-18
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TOTAL 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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Sr-90									
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
<hr/>									
Sr-90									
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		2.65E-01	2.54E-01	2.99E-01	2.08E-01	1.56E-01	2.59E-02	3.54E-04	6.89E-12
Avg		8.82E-02	6.96E-02	5.24E-02	2.86E-02	1.03E-02	9.23E-04	3.18E-06	2.97E-14
Std		6.50E-02	6.16E-02	5.63E-02	4.13E-02	2.06E-02	2.78E-03	1.70E-05	3.28E-13
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Cs-137									
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		2.65E-01	2.54E-01	2.99E-01	2.08E-01	1.56E-01	2.59E-02	3.54E-04	6.89E-12
Avg		8.82E-02	6.96E-02	5.24E-02	2.86E-02	1.03E-02	9.23E-04	3.18E-06	2.97E-14
Std		6.50E-02	6.16E-02	5.63E-02	4.13E-02	2.06E-02	2.78E-03	1.70E-05	3.28E-13
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ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Sr-90									
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		5.02E-03	4.81E-03	5.67E-03	4.90E-03	2.95E-03	4.90E-04	7.48E-06	2.34E-13
Avg		1.73E-03	1.35E-03	1.00E-03	5.47E-04	1.96E-04	1.75E-05	6.37E-08	7.41E-16
Std		1.24E-03	1.17E-03	1.07E-03	7.88E-04	3.91E-04	5.26E-05	3.46E-07	8.73E-15
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.02E-03	4.81E-03	5.67E-03	4.90E-03	2.95E-03	4.90E-04	7.48E-06	2.34E-13
Avg		1.73E-03	1.35E-03	1.00E-03	5.47E-04	1.96E-04	1.75E-05	6.37E-08	7.41E-16
Std		1.24E-03	1.17E-03	1.07E-03	7.88E-04	3.91E-04	5.26E-05	3.46E-07	8.73E-15
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ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Sr-90									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.83E-03	8.46E-03	9.95E-03	7.58E-03	5.19E-03	8.62E-04	1.24E-05	2.93E-13
Avg		3.00E-03	2.35E-03	1.76E-03	9.58E-04	3.43E-04	3.07E-05	1.08E-07	1.12E-15
Std		2.17E-03	2.05E-03	1.87E-03	1.38E-03	6.86E-04	9.25E-05	5.83E-07	1.27E-14
<hr/>									
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.83E-03	8.46E-03	9.95E-03	7.58E-03	5.19E-03	8.62E-04	1.24E-05	2.93E-13
Avg		3.00E-03	2.35E-03	1.76E-03	9.58E-04	3.43E-04	3.07E-05	1.08E-07	1.12E-15
Std		2.17E-03	2.05E-03	1.87E-03	1.38E-03	6.86E-04	9.25E-05	5.83E-07	1.27E-14
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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
<hr/>									
Sr-90									
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	7.86E-08	2.25E-04	8.99E-05	5.48E-06	2.15E-07	2.56E-14
Avg		0.00E+00	0.00E+00	5.24E-11	4.98E-07	1.74E-07	8.87E-09	7.83E-10	3.94E-17
Std		0.00E+00	0.00E+00	2.03E-09	7.34E-06	3.21E-06	1.84E-07	8.98E-09	7.47E-16
<hr/>									
Cs-137									
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	7.86E-08	2.25E-04	8.99E-05	5.48E-06	2.15E-07	2.56E-14
Avg		0.00E+00	0.00E+00	5.24E-11	4.98E-07	1.74E-07	8.87E-09	7.83E-10	3.94E-17
Std		0.00E+00	0.00E+00	2.03E-09	7.34E-06	3.21E-06	1.84E-07	8.98E-09	7.47E-16
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ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Sr-90									
Min		6.30E-06	7.31E-06	9.19E-06	1.99E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.43E-01	3.85E-01	2.52E-01	9.18E-02	1.98E-02	1.17E-03	3.45E-06	5.90E-14
Avg		8.93E-03	9.34E-03	9.82E-03	6.79E-03	2.35E-03	1.45E-04	2.81E-07	1.86E-15
Std		1.80E-02	2.28E-02	2.24E-02	1.09E-02	2.95E-03	2.00E-04	5.54E-07	6.46E-15
ΣALL									
Min		6.30E-06	7.31E-06	9.19E-06	1.99E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.43E-01	3.85E-01	2.52E-01	9.18E-02	1.98E-02	1.17E-03	3.45E-06	5.90E-14
Avg		8.93E-03	9.34E-03	9.82E-03	6.79E-03	2.35E-03	1.45E-04	2.81E-07	1.86E-15
Std		1.80E-02	2.28E-02	2.24E-02	1.09E-02	2.95E-03	2.00E-04	5.54E-07	6.46E-15
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Sr-90									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Sr-90									
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 SR-90.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/>									
Sr-90									
Min		8.70E-07	1.00E-06	1.06E-06	1.73E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.83E-02	4.68E-02	3.59E-02	1.17E-02	4.68E-03	2.36E-04	9.04E-07	9.95E-15
Avg		9.40E-04	9.95E-04	1.05E-03	7.38E-04	2.64E-04	1.63E-05	2.99E-08	2.08E-16
Std		1.89E-03	2.51E-03	2.50E-03	1.27E-03	4.17E-04	2.68E-05	6.79E-08	8.34E-16
<hr/>									
ΣALL									
Min		8.70E-07	1.00E-06	1.06E-06	1.73E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.83E-02	4.68E-02	3.59E-02	1.17E-02	4.68E-03	2.36E-04	9.04E-07	9.95E-15
Avg		9.40E-04	9.95E-04	1.05E-03	7.38E-04	2.64E-04	1.63E-05	2.99E-08	2.08E-16
Std		1.89E-03	2.51E-03	2.50E-03	1.27E-03	4.17E-04	2.68E-05	6.79E-08	8.34E-16
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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 SR-90.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Sr-90									
Min		1.25E-07	1.46E-07	1.61E-07	7.45E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.58E-03	6.28E-03	4.17E-03	1.50E-03	3.51E-04	2.06E-05	7.04E-08	1.05E-15
Avg		1.39E-04	1.43E-04	1.52E-04	1.06E-04	3.68E-05	2.27E-06	4.33E-09	2.93E-17
Std		2.74E-04	3.47E-04	3.51E-04	1.71E-04	4.71E-05	3.23E-06	8.66E-09	1.04E-16
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ALL									
Min		1.25E-07	1.46E-07	1.61E-07	7.45E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.58E-03	6.28E-03	4.17E-03	1.50E-03	3.51E-04	2.06E-05	7.04E-08	1.05E-15
Avg		1.39E-04	1.43E-04	1.52E-04	1.06E-04	3.68E-05	2.27E-06	4.33E-09	2.93E-17
Std		2.74E-04	3.47E-04	3.51E-04	1.71E-04	4.71E-05	3.23E-06	8.66E-09	1.04E-16
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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 SR-90.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Sr-90									
Min		1.64E-07	1.79E-07	1.89E-07	6.73E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.62E-03	7.94E-03	5.45E-03	1.86E-03	4.57E-04	2.73E-05	9.56E-08	1.35E-15
Avg		1.68E-04	1.74E-04	1.84E-04	1.28E-04	4.46E-05	2.76E-06	5.23E-09	3.57E-17
Std		3.31E-04	4.26E-04	4.27E-04	2.07E-04	5.82E-05	4.01E-06	1.06E-08	1.29E-16
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Cs-137									
Min		1.64E-07	1.79E-07	1.89E-07	6.73E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.62E-03	7.94E-03	5.45E-03	1.86E-03	4.57E-04	2.73E-05	9.56E-08	1.35E-15
Avg		1.68E-04	1.74E-04	1.84E-04	1.28E-04	4.46E-05	2.76E-06	5.23E-09	3.57E-17
Std		3.31E-04	4.26E-04	4.27E-04	2.07E-04	5.82E-05	4.01E-06	1.06E-08	1.29E-16
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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 SR-90.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	3.30E-04	3.99E-04	3.32E-04	1.87E-04	2.38E-13	0.00E+00	0.00E+00	0.00E+00
0.050	9.59E-04	9.76E-04	7.83E-04	4.45E-04	1.66E-07	0.00E+00	0.00E+00	0.00E+00
0.075	1.91E-03	1.72E-03	1.29E-03	6.90E-04	4.83E-05	0.00E+00	0.00E+00	0.00E+00
0.100	3.36E-03	2.59E-03	1.93E-03	9.12E-04	1.23E-04	4.61E-23	0.00E+00	0.00E+00
0.125	5.75E-03	4.05E-03	2.86E-03	1.37E-03	2.31E-04	6.49E-17	0.00E+00	0.00E+00
0.150	8.38E-03	5.81E-03	3.86E-03	1.72E-03	3.32E-04	5.11E-13	0.00E+00	0.00E+00
0.175	1.37E-02	8.57E-03	5.38E-03	2.16E-03	4.23E-04	1.56E-10	0.00E+00	0.00E+00
0.200	2.63E-02	1.15E-02	6.75E-03	2.65E-03	5.38E-04	4.35E-09	0.00E+00	0.00E+00
0.225	4.83E-02	1.57E-02	9.05E-03	3.22E-03	6.97E-04	1.50E-07	0.00E+00	0.00E+00
0.250	6.26E-02	2.07E-02	1.13E-02	3.93E-03	9.02E-04	1.67E-06	0.00E+00	0.00E+00
0.275	7.17E-02	2.94E-02	1.43E-02	4.87E-03	1.08E-03	6.63E-06	0.00E+00	0.00E+00
0.300	7.86E-02	3.58E-02	1.73E-02	5.85E-03	1.27E-03	1.37E-05	2.92E-28	0.00E+00
0.325	8.14E-02	4.64E-02	2.15E-02	7.04E-03	1.48E-03	2.19E-05	1.45E-24	0.00E+00
0.350	8.39E-02	5.41E-02	2.52E-02	8.06E-03	1.71E-03	3.46E-05	4.26E-21	0.00E+00
0.375	8.60E-02	6.19E-02	3.08E-02	9.71E-03	2.04E-03	4.66E-05	1.45E-18	0.00E+00
0.400	8.88E-02	6.84E-02	3.66E-02	1.11E-02	2.38E-03	5.71E-05	1.93E-16	0.00E+00
0.425	9.17E-02	7.26E-02	4.26E-02	1.31E-02	2.79E-03	7.27E-05	3.21E-14	0.00E+00
0.450	9.47E-02	7.70E-02	4.84E-02	1.50E-02	3.13E-03	9.20E-05	1.16E-12	0.00E+00
0.475	9.71E-02	7.91E-02	5.30E-02	1.74E-02	3.67E-03	1.09E-04	1.94E-11	0.00E+00
0.500	1.01E-01	8.21E-02	6.05E-02	2.05E-02	4.05E-03	1.33E-04	2.03E-10	0.00E+00
0.525	1.04E-01	8.49E-02	6.39E-02	2.31E-02	4.46E-03	1.59E-04	1.26E-09	0.00E+00
0.550	1.07E-01	8.83E-02	6.88E-02	2.63E-02	5.04E-03	1.88E-04	9.27E-09	0.00E+00
0.575	1.10E-01	9.18E-02	7.23E-02	3.03E-02	5.85E-03	2.11E-04	4.28E-08	0.00E+00
0.600	1.14E-01	9.51E-02	7.50E-02	3.40E-02	6.72E-03	2.38E-04	9.45E-08	0.00E+00
0.625	1.19E-01	9.85E-02	7.83E-02	3.93E-02	7.37E-03	2.67E-04	1.41E-07	0.00E+00
0.650	1.23E-01	1.01E-01	8.27E-02	4.50E-02	8.54E-03	2.95E-04	2.08E-07	0.00E+00
0.675	1.28E-01	1.04E-01	8.58E-02	4.86E-02	9.47E-03	3.36E-04	2.92E-07	0.00E+00
0.700	1.32E-01	1.09E-01	8.97E-02	5.39E-02	1.08E-02	4.04E-04	3.94E-07	0.00E+00
0.725	1.38E-01	1.14E-01	9.39E-02	5.75E-02	1.30E-02	4.64E-04	4.78E-07	0.00E+00
0.750	1.43E-01	1.21E-01	9.84E-02	6.15E-02	1.58E-02	5.81E-04	5.91E-07	1.90E-27
0.775	1.50E-01	1.28E-01	1.04E-01	6.49E-02	1.92E-02	6.72E-04	7.08E-07	2.19E-23
0.800	1.56E-01	1.34E-01	1.11E-01	6.98E-02	2.28E-02	8.58E-04	9.16E-07	1.07E-20
0.825	1.66E-01	1.42E-01	1.17E-01	7.38E-02	2.63E-02	1.08E-03	1.21E-06	2.24E-18
0.850	1.74E-01	1.51E-01	1.27E-01	7.81E-02	3.08E-02	1.43E-03	1.54E-06	2.92E-16
0.875	1.85E-01	1.64E-01	1.39E-01	8.43E-02	3.59E-02	2.02E-03	2.01E-06	3.32E-15
0.900	2.00E-01	1.77E-01	1.54E-01	9.69E-02	4.26E-02	3.28E-03	2.92E-06	8.24E-15
0.925	2.10E-01	1.90E-01	1.68E-01	1.12E-01	5.07E-02	4.99E-03	5.70E-06	1.30E-14
0.950	2.29E-01	2.10E-01	1.88E-01	1.31E-01	6.38E-02	6.95E-03	1.82E-05	2.39E-14
0.975	2.50E-01	2.30E-01	2.10E-01	1.55E-01	7.72E-02	1.02E-02	4.43E-05	4.46E-14
1.000	3.57E-01	4.88E-01	3.15E-01	2.21E-01	1.64E-01	2.74E-02	3.77E-04	7.25E-12

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.90E-05	2.80E-01	1.03E-01	1.00E-01	2.01E-01	2.32E-01	2.50E-01	2.70E-01
1.00E+00	2.70E-05	3.09E-01	8.41E-02	8.13E-02	1.85E-01	2.17E-01	2.32E-01	2.61E-01
1.06E+00	2.75E-05	3.11E-01	8.34E-02	8.08E-02	1.84E-01	2.15E-01	2.33E-01	2.60E-01
1.12E+00	2.80E-05	3.13E-01	8.27E-02	8.04E-02	1.84E-01	2.14E-01	2.34E-01	2.59E-01
1.19E+00	2.85E-05	3.15E-01	8.20E-02	8.00E-02	1.83E-01	2.13E-01	2.34E-01	2.58E-01
1.25E+00	2.90E-05	3.16E-01	8.12E-02	7.85E-02	1.82E-01	2.12E-01	2.33E-01	2.58E-01
1.33E+00	2.95E-05	3.18E-01	8.05E-02	7.73E-02	1.82E-01	2.11E-01	2.32E-01	2.57E-01
1.40E+00	3.01E-05	3.19E-01	7.97E-02	7.60E-02	1.81E-01	2.09E-01	2.30E-01	2.56E-01
1.49E+00	3.08E-05	3.21E-01	7.89E-02	7.50E-02	1.80E-01	2.07E-01	2.28E-01	2.56E-01
1.57E+00	3.14E-05	3.22E-01	7.81E-02	7.31E-02	1.78E-01	2.07E-01	2.26E-01	2.55E-01
1.66E+00	3.21E-05	3.24E-01	7.72E-02	7.14E-02	1.77E-01	2.06E-01	2.24E-01	2.54E-01
1.76E+00	3.28E-05	3.25E-01	7.64E-02	7.06E-02	1.76E-01	2.04E-01	2.22E-01	2.53E-01
1.86E+00	3.36E-05	3.26E-01	7.55E-02	6.98E-02	1.75E-01	2.03E-01	2.21E-01	2.52E-01
1.97E+00	3.44E-05	3.25E-01	7.46E-02	6.87E-02	1.74E-01	2.02E-01	2.20E-01	2.51E-01
2.09E+00	3.53E-05	3.22E-01	7.36E-02	6.73E-02	1.73E-01	2.01E-01	2.19E-01	2.50E-01
2.21E+00	3.61E-05	3.13E-01	7.27E-02	6.58E-02	1.72E-01	2.00E-01	2.19E-01	2.49E-01
2.34E+00	3.71E-05	3.01E-01	7.17E-02	6.34E-02	1.71E-01	2.00E-01	2.18E-01	2.48E-01
2.47E+00	3.79E-05	2.83E-01	7.06E-02	6.15E-02	1.68E-01	1.99E-01	2.17E-01	2.47E-01
2.62E+00	3.80E-05	2.66E-01	6.96E-02	6.04E-02	1.66E-01	1.98E-01	2.15E-01	2.46E-01
2.77E+00	3.81E-05	2.64E-01	6.85E-02	5.75E-02	1.63E-01	1.96E-01	2.13E-01	2.43E-01
2.93E+00	3.82E-05	2.63E-01	6.74E-02	5.61E-02	1.62E-01	1.93E-01	2.11E-01	2.42E-01
3.00E+00	3.83E-05	2.63E-01	6.69E-02	5.52E-02	1.61E-01	1.92E-01	2.10E-01	2.41E-01
3.10E+00	3.84E-05	2.62E-01	6.63E-02	5.46E-02	1.60E-01	1.91E-01	2.09E-01	2.41E-01
3.28E+00	3.85E-05	2.61E-01	6.52E-02	5.31E-02	1.55E-01	1.87E-01	2.08E-01	2.39E-01
3.48E+00	3.86E-05	2.59E-01	6.42E-02	5.11E-02	1.55E-01	1.85E-01	2.07E-01	2.38E-01
3.68E+00	3.88E-05	2.58E-01	6.31E-02	4.98E-02	1.53E-01	1.87E-01	2.06E-01	2.36E-01
3.89E+00	3.89E-05	2.91E-01	6.21E-02	4.77E-02	1.51E-01	1.85E-01	2.05E-01	2.35E-01
4.12E+00	3.91E-05	3.48E-01	6.09E-02	4.55E-02	1.50E-01	1.83E-01	2.03E-01	2.33E-01
4.36E+00	3.92E-05	3.33E-01	5.97E-02	4.30E-02	1.47E-01	1.82E-01	2.02E-01	2.31E-01
4.61E+00	3.94E-05	3.15E-01	5.84E-02	4.06E-02	1.45E-01	1.80E-01	2.00E-01	2.28E-01
4.88E+00	3.95E-05	2.98E-01	5.71E-02	3.94E-02	1.44E-01	1.78E-01	1.98E-01	2.25E-01
5.17E+00	3.97E-05	2.79E-01	5.58E-02	3.79E-02	1.42E-01	1.76E-01	1.96E-01	2.23E-01
5.47E+00	3.99E-05	2.57E-01	5.45E-02	3.61E-02	1.39E-01	1.74E-01	1.93E-01	2.20E-01
5.78E+00	4.01E-05	2.44E-01	5.32E-02	3.42E-02	1.36E-01	1.69E-01	1.90E-01	2.16E-01
6.12E+00	4.03E-05	2.42E-01	5.17E-02	3.21E-02	1.30E-01	1.65E-01	1.88E-01	2.11E-01
6.48E+00	4.05E-05	2.39E-01	5.03E-02	3.08E-02	1.29E-01	1.62E-01	1.85E-01	2.08E-01
6.86E+00	3.36E-05	2.37E-01	4.88E-02	2.94E-02	1.26E-01	1.60E-01	1.83E-01	2.05E-01
7.26E+00	1.42E-05	2.34E-01	4.74E-02	2.78E-02	1.23E-01	1.50E-01	1.80E-01	2.01E-01
7.68E+00	8.08E-07	2.32E-01	4.59E-02	2.60E-02	1.17E-01	1.48E-01	1.77E-01	1.97E-01
8.13E+00	1.83E-08	2.29E-01	4.44E-02	2.39E-02	1.14E-01	1.45E-01	1.73E-01	1.94E-01
8.60E+00	3.31E-10	2.26E-01	4.28E-02	2.26E-02	1.09E-01	1.42E-01	1.71E-01	1.90E-01
9.10E+00	4.75E-12	2.23E-01	4.13E-02	2.13E-02	1.06E-01	1.39E-01	1.68E-01	1.85E-01
9.63E+00	5.32E-14	2.20E-01	3.99E-02	2.08E-02	1.03E-01	1.37E-01	1.65E-01	1.81E-01
1.00E+01	2.31E-15	2.17E-01	3.88E-02	1.98E-02	1.01E-01	1.35E-01	1.63E-01	1.78E-01
1.02E+01	4.59E-16	2.16E-01	3.83E-02	1.95E-02	1.00E-01	1.34E-01	1.61E-01	1.77E-01
1.08E+01	3.00E-18	2.13E-01	3.67E-02	1.76E-02	9.77E-02	1.30E-01	1.58E-01	1.72E-01
1.14E+01	1.46E-20	2.09E-01	3.52E-02	1.59E-02	9.31E-02	1.27E-01	1.54E-01	1.67E-01
1.21E+01	5.24E-23	2.06E-01	3.36E-02	1.51E-02	9.05E-02	1.24E-01	1.51E-01	1.63E-01
1.28E+01	1.35E-25	2.02E-01	3.21E-02	1.40E-02	8.63E-02	1.21E-01	1.47E-01	1.58E-01
1.35E+01	2.46E-28	1.98E-01	3.07E-02	1.30E-02	8.35E-02	1.17E-01	1.42E-01	1.55E-01
1.43E+01	0.00E+00	1.94E-01	2.94E-02	1.24E-02	7.98E-02	1.14E-01	1.38E-01	1.52E-01
1.51E+01	0.00E+00	1.89E-01	2.81E-02	1.19E-02	7.58E-02	1.10E-01	1.34E-01	1.48E-01
1.60E+01	0.00E+00	1.85E-01	2.68E-02	1.12E-02	7.23E-02	1.07E-01	1.29E-01	1.45E-01
1.70E+01	0.00E+00	1.80E-01	2.55E-02	1.00E-02	6.95E-02	1.03E-01	1.24E-01	1.42E-01
1.80E+01	0.00E+00	1.75E-01	2.42E-02	9.32E-03	6.62E-02	9.83E-02	1.19E-01	1.38E-01
1.90E+01	0.00E+00	1.70E-01	2.29E-02	8.82E-03	6.29E-02	9.43E-02	1.13E-01	1.34E-01

2.01E+01 0.00E+00 1.65E-01 2.17E-02 7.99E-03 5.98E-02 9.02E-02 1.09E-01 1.31E-01

2.13E+01 0.00E+00 1.60E-01 2.05E-02 7.30E-03 5.77E-02 8.64E-02 1.04E-01 1.27E-01

2.25E+01 0.00E+00 1.55E-01 1.93E-02 6.78E-03 5.57E-02 8.36E-02 9.91E-02 1.23E-01

2.38E+01 0.00E+00 1.50E-01 1.82E-02 5.88E-03 5.24E-02 8.03E-02 9.46E-02 1.18E-01

2.52E+01 0.00E+00 1.44E-01 1.71E-02 5.51E-03 5.15E-02 7.64E-02 8.99E-02 1.13E-01

2.67E+01 0.00E+00 1.38E-01 1.60E-02 5.13E-03 4.94E-02 7.30E-02 8.45E-02 1.09E-01

2.82E+01 0.00E+00 1.33E-01 1.51E-02 4.82E-03 4.68E-02 6.99E-02 7.95E-02 1.04E-01

2.99E+01 0.00E+00 1.27E-01 1.42E-02 4.52E-03 4.50E-02 6.63E-02 7.42E-02 1.01E-01

3.00E+01 0.00E+00 1.27E-01 1.41E-02 4.45E-03 4.48E-02 6.61E-02 7.38E-02 1.01E-01

3.16E+01 0.00E+00 1.21E-01 1.33E-02 4.08E-03 4.25E-02 6.34E-02 7.25E-02 9.67E-02

3.35E+01	0.00E+00	1.26E-01	1.23E-02	3.65E-03	3.99E-02	5.94E-02	7.45E-02	9.25E-02
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3.54E+01 0.00E+00 1.19E-01 1.14E-02 3.24E-03 3.69E-02 5.48E-02 7.09E-02 8.99E-02

3.75E+01 0.00E+00 1.13E-01 1.05E-02 2.77E-03 3.40E-02 5.15E-02 6.60E-02 8.46E-02

3.97E+01 0.00E+00 1.07E-01 9.56E-03 2.40E-03 3.13E-02 4.72E-02 6.12E-02 8.08E-02

4.20E+01 0.00E+00 1.01E-01 8.68E-03 2.08E-03 2.87E-02 4.26E-02 5.64E-02 7.46E-02

4.44E+01 0.00E+00 9.44E-02 7.88E-03 1.82E-03 2.65E-02 3.82E-02 5.18E-02 6.95E-02

4.70E+01 0.00E+00 8.82E-02 7.13E-03 1.55E-03 2.46E-02 3.50E-02 4.73E-02 6.51E-02

4.97E+01 0.00E+00 8.21E-02 6.43E-03 1.30E-03 2.23E-02 3.14E-02 4.32E-02 6.08E-02

5.26E+01 0.00E+00 7.61E-02 5.80E-03 1.15E-03 2.05E-02 2.84E-02 3.96E-02 5.65E-02

5.57E+01	0.00E+00	7.02E-02	5.21E-03	9.87E-04	1.89E-02	2.62E-02	3.62E-02	5.23E-02
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5.90E+01 0.00E+00 6.45E-02 4.66E-03 8.32E-04 1.71E-02 2.30E-02 3.42E-02 4.82E-02

6.24E+01	0.00E+00	5.89E-02	4.15E-03	7.14E-04	1.51E-02	2.00E-02	3.07E-02	5.14E-02
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6.60E+01 0.00E+00 5.51E-02 3.65E-03 5.98E-04 1.31E-02 1.80E-02 2.75E-02 4.68E-02

6.99E+01 0.00E+00 4.97E-02 3.21E-03 5.18E-04 1.12E-02 1.61E-02 2.46E-02 4.23E-02

7.39E+01	0.00E+00	4.46E-02	2.85E-03	4.49E-04	9.98E-03	1.49E-02	2.30E-02	3.82E-02
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7.82E+01	0.00E+00	4.84E-02	2.50E-03	3.66E-04	8.40E-03	1.34E-02	2.02E-02	3.41E-02
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8.28E+01 0.00E+00 4.29E-02 2.14E-03 3.07E-04 7.31E-03 1.20E-02 1.76E-02 3.02E-02

8.76E+01 0.00E+00 3.78E-02 1.83E-03 2.52E-04 6.24E-03 1.06E-02 1.53E-02 2.66E-02

9.27E+01	0.00E+00	3.31E-02	1.54E-03	1.99E-04	5.03E-03	9.12E-03	1.31E-02	2.32E-02
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9.81E+01 0.00E+00 2.87E-02 1.29E-03 1.51E-04 4.21E-03 7.60E-03 1.12E-02 2.00E-02

1.00E+02 0.00E+00 2.74E-02 1.21E-03 1.31E-04 3.96E-03 7.13E-03 1.06E-02 1.90E-02

1.04E+02 0.00E+00 2.47E-02 1.07E-03 1.10E-04 3.40E-03 6.24E-03 9.41E-03 1.72E-02

1.10E+02 0.00E+00 2.11E-02 8.86E-04 8.43E-05 2.67E-03 5.09E-03 7.86E-03 1.46E-02

1.16E+02 0.00E+00 1.79E-02 7.24E-04 6.33E-05 2.07E-03 4.27E-03 6.55E-03 1.23E-02

1.23E+02 0.00E+00 1.50E-02 5.87E-04 4.96E-05 1.58E-03 3.59E-03 5.50E-03 1.02E-02

1.30E+02 0.00E+00 1.24E-02 4.71E-04 3.57E-05 1.19E-03 2.97E-03 4.59E-03 8.40E-03

1.38E+02 0.00E+00 1.02E-02 3.74E-04 2.82E-05 8.79E-04 2.33E-03 3.80E-03 6.86E-03

1.46E+02 0.00E+00 8.24E-03 2.93E-04 1.96E-05 6.39E-04 1.85E-03 3.10E-03 5.52E-03

1.54E+02 0.00E+00 6.60E-03 2.27E-04 1.44E-05 4.55E-04 1.44E-03 2.50E-03 4.39E-03

1.63E+02 0.00E+00 5.21E-03 1.73E-04 8.92E-06 3.19E-04 1.07E-03 2.00E-03 3.49E-03

1.73E+02 0.00E+00 4.06E-03 1.31E-04 4.83E-06 2.19E-04 7.97E-04 1.57E-03 2.75E-03

1.83E+02 0.00E+00 3.12E-03 9.80E-05 3.55E-06 1.47E-04 5.81E-04 1.22E-03 2.13E-03

1.94E+02 0.00E+00 2.36E-03 7.24E-05 2.01E-06 9.58E-05 4.04E-04 9.32E-04 1.63E-03

2.05E+02 0.00E+00 1.76E-03 5.25E-05 1.24E-06 6.20E-05 2.83E-04 7.02E-04 1.23E-03

2.17E+02 0.00E+00 1.28E-03 3.74E-05 5.83E-07 3.83E-05 1.98E-04 5.19E-04 9.09E-04

2.29E+02 0.00E+00 9.23E-04 2.67E-05 3.64E-07 2.39E-05 1.37E-04 3.78E-04 6.62E-04

2.43E+02 0.00E+00 6.50E-04 1.86E-05 1.70E-07 1.71E-05 9.22E-05 2.69E-04 4.68E-04

2.57E+02 0.00E+00 4.49E-04 1.23E-05 6.32E-08 1.17E-05 6.06E-05 1.88E-04 3.24E-04

2.72E+02	0.00E+00	3.04E-04	7.88E-06	1.36E-08	7.20E-06	3.60E-05	1.28E-04	2.19E-04
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2.88E+02 0.00E+00 2.04E-04 4.87E-06 2.12E-09 4.00E-06 1.84E-05 8.27E-05 1.45E-04

3.00E+02 0.00E+00 1.37E-04 3.44E-06 5.37E-10 2.64E-06 1.27E-05 6.12E-05 1.05E-04

3.05E+02 0.00E+00 1.03E-04 3.05E-06 4.00E-10 2.27E-06 1.31E-05 5.48E-05 8.81E-05

3.22E+02 0.00E+00 1.07E-04 1.92E-06 7.32E-11 1.31E-06 6.63E-06 3.53E-05 5.90E-05

3.41E+02 0.00E+00 6.32E-05 1.14E-06 4.72E-12 8.04E-07 3.82E-06 2.11E-05 3.62E-05

3.61E+02	0.00E+00	3.63E-05	6.42E-07	7.63E-13	4.02E-07	2.05E-06	1.08E-05	2.15E-05
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3.82E+02	0.00E+00	2.02E-05	3.51E-07	6.46E-14	2.12E-07	1.07E-06	5.50E-06	1.23E-05
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4.04E+02 0.00E+00 1.09E-05 1.89E-07 1.18E-15 1.13E-07 2.71E-07 2.97E-06 6.83E-06

4.28E+02 0.00E+00 5.68E-06 1.02E-07 5.57E-18 5.71E-08 1.36E-07 1.58E-06 3.65E-06

4.53E+02 0.00E+00 2.84E-06 5.20E-08 3.25E-19 2.59E-08 6.60E-08 7.97E-07 1.88E-06

4.79E+02 0.00E+00 1.24E-06 2.22E-08 2.77E-21 1.10E-08 3.02E-08 3.18E-07 7.77E-07

5.07E+02 0.00E+00 6.15E-07 9.05E-09 7.56E-25 4.92E-09 1.09E-08 7.40E-08 3.64E-07

5.36E+02 0.00E+00 2.93E-07 4.08E-09 1.79E-29 2.20E-09 4.96E-09 2.62E-08 1.75E-07

5.68E+02 0.00E+00 1.33E-07 1.78E-09 0.00E+00 8.65E-10 2.09E-09 9.24E-09 8.04E-08

6.01E+02 0.00E+00 5.80E-08 7.50E-10 0.00E+00 3.63E-10 7.64E-10 3.60E-09 3.54E-08

6.36E+02	0.00E+00	2.40E-08	3.03E-10	0.00E+00	1.51E-10	3.14E-10	1.33E-09	1.46E-08
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6.73E+02	0.00E+00	9.47E-09	1.16E-10	0.00E+00	5.33E-11	1.13E-10	4.67E-10	5.44E-09
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7.12E+02	0.00E+00	3.53E-09	4.22E-11	0.00E+00	1.65E-11	3.98E-11	1.56E-10	1.92E-09
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7.53E+02 0.00E+00 1.24E-09 1.25E-11 0.00E+00 4.74E-12 1.42E-11 3.18E-11 6.09E-10

7.97E+02 0.00E+00 4.12E-10 4.11E-12 0.00E+00 1.67E-12 5.23E-12 1.73E-11 1.98E-10

8.44E+02 0.00E+00 1.28E-10 1.18E-12 0.00E+00 4.46E-13 1.30E-12 3.31E-12 5.74E-11

8.93E+02	0.00E+00	3.72E-11	3.31E-13	0.00E+00	1.33E-13	3.98E-13	8.98E-13	1.55E-11
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9.45E+02 0.00E+00 1.01E-11 8.62E-14 0.00E+00 3.60E-14 1.05E-13 2.28E-13 3.88E-12

1.00E+03	0.00E+00	2.55E-12	2.09E-14	0.00E+00	7.95E-15	2.74E-14	5.24E-14	9.28E-13
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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA SR-90.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	3.92E-05	3.57E-01	1.03E-01	1.02E-01	1.98E-01	2.26E-01	2.51E-01	2.68E-01
1.00E+00	4.40E-05	4.88E-01	8.47E-02	8.42E-02	1.75E-01	2.04E-01	2.39E-01	2.62E-01
1.06E+00	4.43E-05	4.93E-01	8.40E-02	8.27E-02	1.74E-01	2.03E-01	2.39E-01	2.61E-01
1.12E+00	4.46E-05	4.97E-01	8.34E-02	8.14E-02	1.73E-01	2.03E-01	2.38E-01	2.61E-01
1.19E+00	4.49E-05	5.02E-01	8.27E-02	8.09E-02	1.71E-01	2.02E-01	2.38E-01	2.60E-01
1.25E+00	4.52E-05	5.07E-01	8.19E-02	8.05E-02	1.71E-01	2.03E-01	2.37E-01	2.59E-01
1.33E+00	4.55E-05	5.12E-01	8.12E-02	8.01E-02	1.69E-01	2.04E-01	2.37E-01	2.59E-01
1.40E+00	4.59E-05	5.16E-01	8.05E-02	7.99E-02	1.68E-01	2.02E-01	2.36E-01	2.58E-01
1.49E+00	4.62E-05	5.17E-01	7.97E-02	7.89E-02	1.68E-01	2.00E-01	2.35E-01	2.57E-01
1.57E+00	4.66E-05	5.18E-01	7.89E-02	7.79E-02	1.65E-01	1.99E-01	2.35E-01	2.56E-01
1.66E+00	4.70E-05	5.14E-01	7.80E-02	7.74E-02	1.64E-01	1.98E-01	2.36E-01	2.56E-01
1.76E+00	4.75E-05	5.07E-01	7.72E-02	7.66E-02	1.63E-01	1.97E-01	2.35E-01	2.57E-01
1.86E+00	4.79E-05	4.94E-01	7.63E-02	7.57E-02	1.61E-01	1.96E-01	2.34E-01	2.56E-01
1.97E+00	4.84E-05	4.78E-01	7.53E-02	7.41E-02	1.60E-01	1.95E-01	2.33E-01	2.55E-01
2.09E+00	4.89E-05	4.56E-01	7.43E-02	7.35E-02	1.59E-01	1.92E-01	2.32E-01	2.54E-01
2.21E+00	4.94E-05	4.29E-01	7.33E-02	7.04E-02	1.57E-01	1.90E-01	2.31E-01	2.53E-01
2.34E+00	5.00E-05	3.96E-01	7.22E-02	6.85E-02	1.55E-01	1.89E-01	2.32E-01	2.50E-01
2.47E+00	5.06E-05	3.59E-01	7.10E-02	6.72E-02	1.54E-01	1.88E-01	2.30E-01	2.49E-01
2.62E+00	5.12E-05	3.23E-01	6.99E-02	6.61E-02	1.53E-01	1.87E-01	2.27E-01	2.48E-01
2.77E+00	5.18E-05	3.18E-01	6.88E-02	6.47E-02	1.52E-01	1.88E-01	2.25E-01	2.47E-01
2.93E+00	5.25E-05	3.16E-01	6.76E-02	6.35E-02	1.51E-01	1.85E-01	2.24E-01	2.46E-01
3.00E+00	5.28E-05	3.15E-01	6.71E-02	6.26E-02	1.50E-01	1.85E-01	2.23E-01	2.44E-01
3.10E+00	5.32E-05	3.14E-01	6.64E-02	6.13E-02	1.49E-01	1.84E-01	2.22E-01	2.43E-01
3.28E+00	5.40E-05	3.11E-01	6.52E-02	5.94E-02	1.46E-01	1.83E-01	2.17E-01	2.41E-01
3.48E+00	5.48E-05	3.09E-01	6.40E-02	5.78E-02	1.44E-01	1.82E-01	2.16E-01	2.39E-01
3.68E+00	5.56E-05	3.06E-01	6.27E-02	5.64E-02	1.43E-01	1.80E-01	2.14E-01	2.38E-01
3.89E+00	5.64E-05	3.03E-01	6.15E-02	5.40E-02	1.41E-01	1.79E-01	2.11E-01	2.36E-01
4.12E+00	5.73E-05	3.00E-01	6.02E-02	5.21E-02	1.39E-01	1.77E-01	2.08E-01	2.35E-01
4.36E+00	5.82E-05	2.97E-01	5.89E-02	5.04E-02	1.37E-01	1.75E-01	2.06E-01	2.33E-01
4.61E+00	5.92E-05	2.94E-01	5.76E-02	4.83E-02	1.35E-01	1.73E-01	2.03E-01	2.31E-01
4.88E+00	6.02E-05	2.91E-01	5.63E-02	4.66E-02	1.32E-01	1.71E-01	2.01E-01	2.28E-01
5.17E+00	6.13E-05	2.88E-01	5.49E-02	4.45E-02	1.30E-01	1.70E-01	1.98E-01	2.26E-01
5.47E+00	6.23E-05	2.84E-01	5.35E-02	4.11E-02	1.28E-01	1.67E-01	1.95E-01	2.23E-01
5.78E+00	5.92E-05	2.81E-01	5.22E-02	3.83E-02	1.25E-01	1.65E-01	1.92E-01	2.20E-01
6.12E+00	5.66E-05	2.77E-01	5.08E-02	3.60E-02	1.22E-01	1.62E-01	1.89E-01	2.17E-01
6.48E+00	5.49E-05	2.72E-01	4.94E-02	3.36E-02	1.20E-01	1.60E-01	1.87E-01	2.15E-01
6.86E+00	5.37E-05	2.68E-01	4.80E-02	3.23E-02	1.18E-01	1.57E-01	1.84E-01	2.12E-01
7.26E+00	5.27E-05	2.64E-01	4.66E-02	3.05E-02	1.14E-01	1.54E-01	1.81E-01	2.09E-01
7.68E+00	2.35E-05	2.59E-01	4.52E-02	2.91E-02	1.13E-01	1.51E-01	1.76E-01	2.05E-01
8.13E+00	4.29E-06	2.55E-01	4.38E-02	2.73E-02	1.08E-01	1.48E-01	1.71E-01	2.02E-01
8.60E+00	7.08E-07	2.50E-01	4.23E-02	2.62E-02	1.06E-01	1.45E-01	1.68E-01	1.99E-01
9.10E+00	1.05E-07	2.40E-01	4.09E-02	2.43E-02	1.02E-01	1.42E-01	1.64E-01	1.95E-01
9.63E+00	1.40E-08	2.29E-01	3.94E-02	2.32E-02	9.87E-02	1.38E-01	1.61E-01	1.91E-01
1.00E+01	3.42E-09	2.21E-01	3.85E-02	2.14E-02	9.69E-02	1.35E-01	1.58E-01	1.89E-01
1.02E+01	1.66E-09	2.18E-01	3.80E-02	2.11E-02	9.56E-02	1.34E-01	1.57E-01	1.87E-01
1.08E+01	1.73E-10	2.06E-01	3.65E-02	1.98E-02	9.15E-02	1.30E-01	1.53E-01	1.83E-01
1.14E+01	1.58E-11	1.94E-01	3.50E-02	1.80E-02	8.98E-02	1.27E-01	1.49E-01	1.79E-01
1.21E+01	1.26E-12	1.89E-01	3.35E-02	1.64E-02	8.81E-02	1.22E-01	1.46E-01	1.75E-01
1.28E+01	8.67E-14	1.85E-01	3.21E-02	1.54E-02	8.49E-02	1.18E-01	1.43E-01	1.70E-01
1.35E+01	5.10E-15	1.82E-01	3.09E-02	1.42E-02	8.23E-02	1.16E-01	1.43E-01	1.66E-01
1.43E+01	2.54E-16	2.34E-01	2.96E-02	1.31E-02	7.86E-02	1.13E-01	1.39E-01	1.63E-01
1.51E+01	1.06E-17	2.24E-01	2.81E-02	1.23E-02	7.50E-02	1.10E-01	1.33E-01	1.59E-01
1.60E+01	3.71E-19	2.14E-01	2.68E-02	1.16E-02	7.08E-02	1.07E-01	1.29E-01	1.55E-01
1.70E+01	1.06E-20	2.03E-01	2.55E-02	1.06E-02	6.80E-02	1.05E-01	1.27E-01	1.60E-01
1.80E+01	2.47E-22	1.93E-01	2.41E-02	9.50E-03	6.41E-02	1.01E-01	1.22E-01	1.55E-01
1.90E+01	4.61E-24	1.82E-01	2.27E-02	8.96E-03	6.19E-02	9.62E-02	1.17E-01	1.50E-01

2.01E+01 6.84E-26 1.72E-01 2.14E-02 8.36E-03 5.93E-02 9.14E-02 1.12E-01 1.45E-01

2.13E+01 0.00E+00 1.62E-01 2.01E-02 7.32E-03 5.62E-02 8.67E-02 1.08E-01 1.40E-01

2.25E+01 0.00E+00 1.51E-01 1.89E-02 6.48E-03 5.25E-02 8.13E-02 1.03E-01 1.35E-01

2.38E+01 0.00E+00 1.41E-01 1.76E-02 5.97E-03 4.96E-02 7.67E-02 9.89E-02 1.29E-01

2.52E+01	0.00E+00	1.37E-01	1.65E-02	5.52E-03	4.77E-02	7.35E-02	9.50E-02	1.24E-01
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2.67E+01 0.00E+00 1.32E-01 1.54E-02 5.11E-03 4.51E-02 7.04E-02 9.11E-02 1.18E-01

2.82E+01 0.00E+00 1.27E-01 1.44E-02 4.60E-03 4.23E-02 6.73E-02 8.72E-02 1.12E-01

2.99E+01 0.00E+00 1.22E-01 1.34E-02 4.07E-03 3.94E-02 6.42E-02 8.29E-02 1.04E-01

3.00E+01 0.00E+00 1.22E-01 1.33E-02 4.05E-03 3.92E-02 6.40E-02 8.26E-02 1.03E-01

3.16E+01 0.00E+00 1.17E-01 1.24E-02 3.58E-03 3.71E-02 6.10E-02 7.86E-02 9.85E-02

3.35E+01 0.00E+00 1.12E-01 1.14E-02 3.22E-03 3.55E-02 5.78E-02 7.03E-02 9.33E-02

3.54E+01 0.00E+00 1.07E-01 1.04E-02 2.90E-03 3.36E-02 5.36E-02 6.64E-02 8.73E-02

3.75E+01 0.00E+00 1.01E-01 9.51E-03 2.53E-03 3.02E-02 4.94E-02 6.25E-02 8.03E-02

3.97E+01 0.00E+00 9.62E-02 8.65E-03 2.22E-03 2.78E-02 4.68E-02 5.86E-02 7.35E-02

4.20E+01 0.00E+00 9.10E-02 7.89E-03 1.97E-03 2.48E-02 4.34E-02 5.48E-02 6.89E-02

4.44E+01 0.00E+00 8.57E-02 7.15E-03 1.75E-03 2.19E-02 3.96E-02 5.10E-02 6.49E-02

4.70E+01 0.00E+00 8.05E-02 6.46E-03 1.53E-03 1.99E-02 3.62E-02 4.72E-02 6.09E-02

4.97E+01 0.00E+00 7.53E-02 5.83E-03 1.25E-03 1.79E-02 3.31E-02 4.32E-02 5.69E-02

5.26E+01 0.00E+00 7.02E-02 5.23E-03 1.08E-03 1.53E-02 3.02E-02 3.91E-02 5.25E-02

5.57E+01 0.00E+00 6.52E-02 4.70E-03 9.03E-04 1.36E-02 2.74E-02 3.55E-02 4.77E-02

5.90E+01 0.00E+00 6.02E-02 4.23E-03 7.67E-04 1.33E-02 2.61E-02 3.33E-02 4.31E-02

6.24E+01	0.00E+00	5.54E-02	3.77E-03	6.52E-04	1.20E-02	2.32E-02	2.97E-02	3.88E-02
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6.60E+01	0.00E+00	5.08E-02	3.34E-03	5.68E-04	1.07E-02	2.17E-02	2.83E-02	3.46E-02
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6.99E+01	0.00E+00	4.62E-02	2.93E-03	4.76E-04	9.40E-03	1.92E-02	2.53E-02	3.24E-02
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7.39E+01 0.00E+00 4.19E-02 2.55E-03 3.74E-04 7.94E-03 1.64E-02 2.25E-02 2.88E-02

7.82E+01	0.00E+00	3.77E-02	2.19E-03	3.18E-04	6.62E-03	1.39E-02	1.98E-02	2.54E-02
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8.28E+01	0.00E+00	3.38E-02	1.88E-03	2.66E-04	5.63E-03	1.19E-02	1.73E-02	2.23E-02
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8.76E+01 0.00E+00 3.00E-02 1.60E-03 2.16E-04 4.77E-03 1.02E-02 1.52E-02 1.94E-02

9.27E+01	0.00E+00	2.65E-02	1.34E-03	1.74E-04	3.82E-03	8.69E-03	1.28E-02	1.67E-02
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9.81E+01 0.00E+00 2.33E-02 1.12E-03 1.33E-04 2.99E-03 7.32E-03 1.10E-02 1.43E-02

1.00E+02 0.00E+00 2.22E-02 1.06E-03 1.26E-04 2.76E-03 6.91E-03 1.05E-02 1.35E-02

1.04E+02 0.00E+00 2.03E-02 9.30E-04 1.09E-04 2.34E-03 6.13E-03 9.36E-03 1.21E-02

1.10E+02 0.00E+00 1.75E-02 7.72E-04 8.05E-05 2.11E-03 5.15E-03 7.84E-03 1.02E-02

1.16E+02 0.00E+00 1.50E-02 6.33E-04 5.95E-05 1.67E-03 4.38E-03 6.47E-03 8.51E-03

1.23E+02 0.00E+00 1.27E-02 5.12E-04 4.41E-05 1.29E-03 3.69E-03 5.33E-03 7.08E-03

1.30E+02 0.00E+00 1.07E-02 4.10E-04 3.36E-05 9.74E-04 3.03E-03 4.43E-03 5.83E-03

1.38E+02 0.00E+00 8.88E-03 3.25E-04 2.54E-05 7.26E-04 2.42E-03 3.63E-03 4.75E-03

1.46E+02 0.00E+00 7.31E-03 2.59E-04 1.71E-05 5.65E-04 2.00E-03 2.86E-03 3.82E-03

1.54E+02 0.00E+00 5.95E-03 2.08E-04 1.25E-05 3.99E-04 1.48E-03 2.32E-03 3.60E-03

1.63E+02 0.00E+00 1.26E-02 1.85E-04 7.34E-06 3.55E-04 1.19E-03 1.95E-03 3.00E-03

1.73E+02 0.00E+00 9.89E-03 1.41E-04 4.83E-06 2.58E-04 8.99E-04 1.54E-03 2.31E-03

1.83E+02 0.00E+00 7.64E-03 1.06E-04 2.93E-06 1.84E-04 6.65E-04 1.19E-03 1.76E-03

1.94E+02 0.00E+00 5.82E-03 7.83E-05 1.60E-06 1.45E-04 4.85E-04 8.95E-04 1.31E-03

2.05E+02 0.00E+00 4.36E-03 5.72E-05 8.60E-07 9.57E-05 3.49E-04 6.60E-04 9.62E-04

2.17E+02 0.00E+00 3.23E-03 4.10E-05 4.05E-07 6.19E-05 2.53E-04 4.77E-04 6.93E-04

2.29E+02 0.00E+00 2.34E-03 3.09E-05 1.37E-07 4.54E-05 1.87E-04 3.77E-04 7.03E-04

2.43E+02 0.00E+00 1.66E-03 2.20E-05 2.56E-08 2.78E-05 1.24E-04 2.65E-04 5.04E-04

2.57E+02 0.00E+00 1.15E-03 1.48E-05 6.68E-09 1.63E-05 8.10E-05 1.81E-04 3.37E-04

2.72E+02	0.00E+00	7.81E-04	9.53E-06	1.47E-09	9.51E-06	5.15E-05	1.12E-04	1.53E-04
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2.88E+02 0.00E+00 5.18E-04 6.10E-06 4.18E-10 5.21E-06 3.05E-05 7.31E-05 1.04E-04

3.00E+02 0.00E+00 3.77E-04 4.38E-06 7.26E-11 3.44E-06 2.13E-05 5.26E-05 7.67E-05

3.05E+02 0.00E+00 3.35E-04 3.87E-06 4.19E-11 2.92E-06 1.86E-05 4.66E-05 6.87E-05

3.22E+02 0.00E+00 2.11E-04 2.39E-06 1.51E-12 1.71E-06 1.11E-05 2.89E-05 4.44E-05

3.41E+02 0.00E+00 1.30E-04 1.42E-06 1.46E-13 9.38E-07 6.00E-06 1.74E-05 2.79E-05

3.61E+02 0.00E+00 7.75E-05 8.36E-07 3.90E-15 5.22E-07 3.37E-06 1.02E-05 1.71E-05

3.82E+02 0.00E+00 4.49E-05 4.80E-07 1.20E-16 2.55E-07 1.77E-06 5.86E-06 1.03E-05

4.04E+02 0.00E+00 2.52E-05 2.68E-07 1.01E-18 1.42E-07 8.95E-07 3.27E-06 5.90E-06

4.28E+02 0.00E+00 1.37E-05 1.38E-07 3.12E-21 6.57E-08 2.43E-07 1.63E-06 3.30E-06

4.53E+02 0.00E+00 7.15E-06 6.75E-08 3.62E-23 3.08E-08 1.04E-07 6.57E-07 1.78E-06

4.79E+02 0.00E+00 3.60E-06 3.29E-08 4.61E-26 1.40E-08 3.47E-08 2.37E-07 9.31E-07

5.07E+02 0.00E+00 1.74E-06 1.60E-08 3.33E-30 6.14E-09 1.40E-08 1.06E-07 4.68E-07

5.36E+02	0.00E+00	8.10E-07	7.47E-09	0.00E+00	2.45E-09	6.52E-09	4.53E-08	2.26E-07
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5.68E+02	0.00E+00	3.59E-07	3.37E-09	0.00E+00	1.08E-09	2.82E-09	1.84E-08	1.07E-07
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6.01E+02 0.00E+00 1.52E-07 1.46E-09 0.00E+00 4.45E-10 1.22E-09 7.07E-09 4.73E-08

6.36E+02	0.00E+00	6.26E-08	6.13E-10	0.00E+00	1.92E-10	4.89E-10	4.18E-09	2.01E-08
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6.73E+02	0.00E+00	2.48E-08	2.39E-10	0.00E+00	7.57E-11	1.91E-10	1.43E-09	8.16E-09
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7.12E+02	0.00E+00	9.28E-09	8.25E-11	0.00E+00	2.44E-11	5.82E-11	3.65E-10	1.89E-09
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7.53E+02 0.00E+00 3.28E-09 2.86E-11 0.00E+00 7.89E-12 1.59E-11 6.21E-11 6.75E-10

7.97E+02 0.00E+00 1.09E-09 9.35E-12 0.00E+00 2.47E-12 4.69E-12 1.79E-11 2.27E-10

8.44E+02 0.00E+00 3.41E-10 3.17E-12 0.00E+00 6.37E-13 1.53E-12 4.07E-12 1.53E-10

8.93E+02	0.00E+00	9.95E-11	9.15E-13	0.00E+00	1.73E-13	3.96E-13	8.52E-13	4.74E-11
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9.45E+02	0.00E+00	2.76E-11	2.43E-13	0.00E+00	4.04E-14	1.00E-13	1.53E-13	1.23E-11
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1.00E+03 0.00E+00 7.25E-12 5.99E-14 0.00E+00 1.02E-14 2.44E-14 3.84E-14 2.71E-12

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	1.32E-05	3.17E-01	1.03E-01	1.00E-01	2.00E-01	2.29E-01	2.55E-01	2.75E-01
1.00E+00	1.70E-05	3.02E-01	8.29E-02	8.14E-02	1.72E-01	2.03E-01	2.28E-01	2.57E-01
1.06E+00	1.72E-05	3.02E-01	8.22E-02	8.07E-02	1.71E-01	2.02E-01	2.28E-01	2.56E-01
1.12E+00	1.75E-05	3.01E-01	8.14E-02	8.02E-02	1.71E-01	2.02E-01	2.27E-01	2.55E-01
1.19E+00	1.77E-05	3.01E-01	8.07E-02	7.95E-02	1.71E-01	2.01E-01	2.25E-01	2.54E-01
1.25E+00	1.80E-05	3.01E-01	7.99E-02	7.91E-02	1.70E-01	2.01E-01	2.23E-01	2.54E-01
1.33E+00	1.82E-05	3.00E-01	7.91E-02	7.86E-02	1.70E-01	2.01E-01	2.21E-01	2.53E-01
1.40E+00	1.85E-05	3.00E-01	7.83E-02	7.81E-02	1.70E-01	2.00E-01	2.20E-01	2.52E-01
1.49E+00	1.88E-05	2.99E-01	7.75E-02	7.71E-02	1.69E-01	2.00E-01	2.20E-01	2.51E-01
1.57E+00	1.91E-05	2.98E-01	7.67E-02	7.61E-02	1.69E-01	1.99E-01	2.19E-01	2.54E-01
1.66E+00	1.95E-05	2.98E-01	7.58E-02	7.57E-02	1.68E-01	1.99E-01	2.18E-01	2.62E-01
1.76E+00	1.98E-05	3.02E-01	7.50E-02	7.47E-02	1.68E-01	1.98E-01	2.17E-01	2.61E-01
1.86E+00	2.02E-05	3.10E-01	7.40E-02	7.37E-02	1.67E-01	1.97E-01	2.16E-01	2.61E-01
1.97E+00	2.06E-05	3.10E-01	7.31E-02	7.28E-02	1.65E-01	1.95E-01	2.15E-01	2.60E-01
2.09E+00	2.10E-05	3.08E-01	7.21E-02	7.14E-02	1.63E-01	1.94E-01	2.14E-01	2.59E-01
2.21E+00	2.14E-05	3.11E-01	7.11E-02	7.02E-02	1.61E-01	1.93E-01	2.12E-01	2.58E-01
2.34E+00	2.19E-05	3.15E-01	7.00E-02	6.88E-02	1.58E-01	1.92E-01	2.10E-01	2.57E-01
2.47E+00	2.23E-05	3.17E-01	6.89E-02	6.72E-02	1.55E-01	1.90E-01	2.09E-01	2.56E-01
2.62E+00	2.28E-05	3.16E-01	6.78E-02	6.53E-02	1.53E-01	1.88E-01	2.07E-01	2.55E-01
2.77E+00	2.34E-05	3.15E-01	6.67E-02	6.35E-02	1.49E-01	1.86E-01	2.08E-01	2.54E-01
2.93E+00	2.39E-05	3.16E-01	6.55E-02	6.12E-02	1.47E-01	1.84E-01	2.06E-01	2.53E-01
3.00E+00	2.41E-05	3.14E-01	6.51E-02	6.03E-02	1.46E-01	1.82E-01	2.05E-01	2.52E-01
3.10E+00	2.45E-05	3.11E-01	6.44E-02	5.92E-02	1.44E-01	1.81E-01	2.05E-01	2.52E-01
3.28E+00	2.51E-05	3.04E-01	6.32E-02	5.69E-02	1.43E-01	1.79E-01	2.05E-01	2.50E-01
3.48E+00	2.57E-05	2.91E-01	6.19E-02	5.49E-02	1.42E-01	1.77E-01	2.05E-01	2.49E-01
3.68E+00	2.64E-05	2.87E-01	6.07E-02	5.26E-02	1.41E-01	1.74E-01	2.03E-01	2.33E-01
3.89E+00	2.71E-05	2.84E-01	5.94E-02	5.02E-02	1.39E-01	1.72E-01	2.00E-01	2.24E-01
4.12E+00	2.78E-05	2.81E-01	5.82E-02	4.78E-02	1.39E-01	1.71E-01	1.94E-01	2.25E-01
4.36E+00	2.30E-05	2.78E-01	5.68E-02	4.56E-02	1.35E-01	1.70E-01	1.89E-01	2.19E-01
4.61E+00	1.77E-05	2.75E-01	5.54E-02	4.37E-02	1.31E-01	1.68E-01	1.85E-01	2.06E-01
4.88E+00	1.44E-05	2.72E-01	5.40E-02	4.14E-02	1.28E-01	1.63E-01	1.82E-01	2.03E-01
5.17E+00	1.24E-05	2.68E-01	5.26E-02	3.87E-02	1.26E-01	1.63E-01	1.79E-01	2.01E-01
5.47E+00	1.12E-05	2.65E-01	5.13E-02	3.64E-02	1.21E-01	1.59E-01	1.77E-01	2.00E-01
5.78E+00	1.05E-05	2.61E-01	4.99E-02	3.43E-02	1.19E-01	1.57E-01	1.75E-01	1.98E-01
6.12E+00	1.00E-05	2.57E-01	4.86E-02	3.20E-02	1.17E-01	1.55E-01	1.73E-01	1.96E-01
6.48E+00	9.78E-06	2.53E-01	4.72E-02	2.95E-02	1.11E-01	1.52E-01	1.70E-01	1.94E-01
6.86E+00	9.61E-06	2.48E-01	4.59E-02	2.82E-02	1.08E-01	1.50E-01	1.69E-01	1.94E-01
7.26E+00	9.48E-06	2.44E-01	4.45E-02	2.71E-02	1.06E-01	1.46E-01	1.67E-01	1.92E-01
7.68E+00	9.36E-06	2.39E-01	4.32E-02	2.66E-02	1.04E-01	1.43E-01	1.65E-01	1.88E-01
8.13E+00	9.26E-06	2.35E-01	4.17E-02	2.51E-02	1.01E-01	1.39E-01	1.62E-01	1.86E-01
8.60E+00	9.16E-06	2.31E-01	4.03E-02	2.27E-02	9.89E-02	1.36E-01	1.58E-01	1.83E-01
9.10E+00	4.99E-06	2.27E-01	3.89E-02	2.13E-02	9.71E-02	1.33E-01	1.54E-01	1.81E-01
9.63E+00	2.25E-06	2.23E-01	3.74E-02	1.98E-02	9.50E-02	1.30E-01	1.49E-01	1.78E-01
1.00E+01	2.98E-07	2.20E-01	3.64E-02	1.89E-02	9.37E-02	1.28E-01	1.47E-01	1.77E-01
1.02E+01	9.25E-08	2.18E-01	3.59E-02	1.85E-02	9.30E-02	1.27E-01	1.45E-01	1.76E-01
1.08E+01	2.42E-09	2.15E-01	3.45E-02	1.68E-02	8.99E-02	1.23E-01	1.42E-01	1.73E-01
1.14E+01	5.14E-11	2.11E-01	3.31E-02	1.54E-02	8.80E-02	1.21E-01	1.38E-01	1.70E-01
1.21E+01	8.70E-13	2.07E-01	3.18E-02	1.42E-02	8.55E-02	1.19E-01	1.35E-01	1.67E-01
1.28E+01	1.16E-14	2.03E-01	3.05E-02	1.34E-02	8.23E-02	1.16E-01	1.33E-01	1.64E-01
1.35E+01	1.21E-16	1.99E-01	2.91E-02	1.23E-02	8.06E-02	1.13E-01	1.30E-01	1.60E-01
1.43E+01	9.60E-19	1.95E-01	2.78E-02	1.10E-02	7.69E-02	1.09E-01	1.27E-01	1.57E-01
1.51E+01	5.77E-21	1.90E-01	2.66E-02	1.01E-02	7.33E-02	1.05E-01	1.24E-01	1.54E-01
1.60E+01	2.57E-23	1.86E-01	2.54E-02	9.67E-03	7.17E-02	1.01E-01	1.21E-01	1.50E-01
1.70E+01	8.36E-26	1.81E-01	2.44E-02	9.46E-03	6.91E-02	9.82E-02	1.20E-01	1.46E-01
1.80E+01	1.95E-28	2.39E-01	2.34E-02	8.72E-03	6.73E-02	9.51E-02	1.16E-01	1.53E-01
1.90E+01	0.00E+00	2.32E-01	2.21E-02	8.02E-03	6.48E-02	9.13E-02	1.12E-01	1.46E-01

2.01E+01 0.00E+00 2.24E-01 2.09E-02 7.37E-03 6.14E-02 8.75E-02 1.08E-01 1.39E-01

2.13E+01	0.00E+00	2.16E-01	1.97E-02	6.68E-03	5.77E-02	8.31E-02	1.05E-01	1.31E-01
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2.25E+01 0.00E+00 2.08E-01 1.85E-02 6.39E-03 5.55E-02 7.87E-02 1.01E-01 1.26E-01

2.38E+01 0.00E+00 1.99E-01 1.74E-02 5.43E-03 5.24E-02 7.54E-02 9.79E-02 1.22E-01

2.52E+01 0.00E+00 1.91E-01 1.63E-02 4.86E-03 4.99E-02 7.18E-02 9.42E-02 1.17E-01

2.67E+01 0.00E+00 1.82E-01 1.53E-02 4.51E-03 4.77E-02 6.78E-02 9.03E-02 1.12E-01

2.82E+01 0.00E+00 1.74E-01 1.42E-02 4.14E-03 4.55E-02 6.41E-02 8.59E-02 1.08E-01

2.99E+01 0.00E+00 1.65E-01 1.32E-02 3.73E-03 4.31E-02 6.05E-02 8.14E-02 1.03E-01

3.00E+01 0.00E+00 1.64E-01 1.32E-02 3.72E-03 4.30E-02 6.02E-02 8.11E-02 1.03E-01

3.16E+01 0.00E+00 1.56E-01 1.23E-02 3.33E-03 3.99E-02 5.68E-02 7.70E-02 9.84E-02

3.35E+01 0.00E+00 1.48E-01 1.14E-02 2.99E-03 3.81E-02 5.34E-02 7.25E-02 9.31E-02

3.54E+01 0.00E+00 1.39E-01 1.06E-02 2.71E-03 3.51E-02 4.96E-02 6.85E-02 8.73E-02

3.75E+01 0.00E+00 1.30E-01 9.77E-03 2.44E-03 3.20E-02 4.62E-02 6.42E-02 8.15E-02

3.97E+01 0.00E+00 1.22E-01 8.97E-03 2.19E-03 2.92E-02 4.27E-02 6.04E-02 7.65E-02

4.20E+01 0.00E+00 1.13E-01 8.18E-03 1.85E-03 2.71E-02 3.93E-02 5.53E-02 7.22E-02

4.44E+01 0.00E+00 1.05E-01 7.45E-03 1.61E-03 2.49E-02 3.62E-02 5.09E-02 6.79E-02

4.70E+01 0.00E+00 9.68E-02 6.77E-03 1.41E-03 2.26E-02 3.35E-02 4.75E-02 6.36E-02

4.97E+01 0.00E+00 8.90E-02 6.13E-03 1.26E-03 2.03E-02 3.10E-02 4.41E-02 5.93E-02

5.26E+01 0.00E+00 8.21E-02 5.54E-03 1.13E-03 1.85E-02 2.86E-02 4.08E-02 5.52E-02

5.57E+01	0.00E+00	6.31E-02	4.82E-03	9.17E-04	1.63E-02	2.56E-02	3.59E-02	4.75E-02
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5.90E+01 0.00E+00 5.78E-02 4.31E-03 7.61E-04 1.50E-02 2.34E-02 3.42E-02 4.37E-02

6.24E+01	0.00E+00	5.26E-02	3.83E-03	6.49E-04	1.32E-02	2.12E-02	3.08E-02	4.10E-02
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6.60E+01	0.00E+00	4.77E-02	3.38E-03	5.55E-04	1.15E-02	1.82E-02	2.76E-02	3.65E-02
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6.99E+01 0.00E+00 4.29E-02 2.96E-03 4.72E-04 9.88E-03 1.63E-02 2.46E-02 3.29E-02

7.39E+01 0.00E+00 3.84E-02 2.61E-03 4.18E-04 8.56E-03 1.51E-02 2.21E-02 2.96E-02

7.82E+01 0.00E+00 4.26E-02 2.31E-03 3.58E-04 7.29E-03 1.33E-02 2.01E-02 2.79E-02

8.28E+01	0.00E+00	3.75E-02	1.97E-03	2.85E-04	6.26E-03	1.16E-02	1.74E-02	2.47E-02
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8.76E+01 0.00E+00 3.28E-02 1.68E-03 2.47E-04 5.14E-03 1.00E-02 1.50E-02 2.17E-02

9.27E+01 0.00E+00 2.84E-02 1.43E-03 1.97E-04 4.28E-03 8.58E-03 1.27E-02 1.89E-02

9.81E+01 0.00E+00 2.45E-02 1.21E-03 1.53E-04 3.78E-03 7.35E-03 1.08E-02 1.63E-02

1.00E+02 0.00E+00 2.32E-02 1.14E-03 1.44E-04 3.56E-03 6.95E-03 1.02E-02 1.55E-02

1.04E+02 0.00E+00 2.09E-02 1.01E-03 1.17E-04 3.00E-03 6.21E-03 9.04E-03 1.40E-02

1.10E+02 0.00E+00 1.76E-02 8.44E-04 8.94E-05 2.58E-03 5.29E-03 7.68E-03 1.19E-02

1.16E+02 0.00E+00 1.48E-02 6.94E-04 6.87E-05 2.09E-03 4.48E-03 6.44E-03 9.99E-03

1.23E+02 0.00E+00 1.22E-02 5.67E-04 5.07E-05 1.62E-03 3.75E-03 5.38E-03 8.60E-03

1.30E+02 0.00E+00 1.08E-02 4.76E-04 3.72E-05 1.24E-03 3.13E-03 4.68E-03 7.20E-03

1.38E+02 0.00E+00 1.55E-02 3.90E-04 2.51E-05 9.54E-04 2.56E-03 3.77E-03 5.82E-03

1.46E+02 0.00E+00 1.25E-02 3.06E-04 1.78E-05 7.06E-04 2.06E-03 3.03E-03 4.65E-03

1.54E+02 0.00E+00 9.86E-03 2.38E-04 1.27E-05 5.17E-04 1.64E-03 2.46E-03 3.73E-03

1.63E+02 0.00E+00 7.71E-03 1.84E-04 7.88E-06 4.15E-04 1.27E-03 1.97E-03 3.00E-03

1.73E+02 0.00E+00 5.94E-03 1.40E-04 4.92E-06 3.04E-04 9.47E-04 1.56E-03 2.38E-03

1.83E+02 0.00E+00 4.51E-03 1.04E-04 2.89E-06 2.11E-04 6.90E-04 1.22E-03 1.86E-03

1.94E+02 0.00E+00 3.37E-03 7.66E-05 1.67E-06 1.37E-04 4.92E-04 9.39E-04 1.44E-03

2.05E+02 0.00E+00 2.49E-03 5.55E-05 1.08E-06 9.32E-05 3.45E-04 6.98E-04 1.07E-03

2.17E+02 0.00E+00 1.80E-03 3.96E-05 5.55E-07 6.25E-05 2.44E-04 5.03E-04 7.70E-04

2.29E+02 0.00E+00 6.47E-04 2.52E-05 2.14E-07 3.64E-05 1.69E-04 3.23E-04 5.37E-04

2.43E+02 0.00E+00 4.62E-04 1.66E-05 6.93E-08 2.35E-05 1.11E-04 2.00E-04 3.78E-04

2.57E+02 0.00E+00 3.24E-04 1.11E-05 1.86E-08 1.24E-05 7.17E-05 1.39E-04 2.57E-04

2.72E+02 0.00E+00 2.22E-04 7.27E-06 4.51E-09 7.51E-06 4.50E-05 9.47E-05 1.73E-04

2.88E+02 0.00E+00 1.49E-04 4.52E-06 5.79E-10 4.48E-06 2.63E-05 6.14E-05 1.15E-04

3.00E+02 0.00E+00 1.10E-04 3.22E-06 2.15E-10 2.84E-06 1.82E-05 4.37E-05 8.39E-05

3.05E+02 0.00E+00 9.80E-05 2.84E-06 5.60E-11 2.50E-06 1.57E-05 3.86E-05 7.47E-05

3.22E+02 0.00E+00 6.30E-05 1.70E-06 6.62E-12 1.61E-06 9.07E-06 2.25E-05 4.48E-05

3.41E+02 0.00E+00 3.98E-05 9.00E-07 1.19E-12 8.32E-07 4.67E-06 1.25E-05 2.57E-05

3.61E+02	0.00E+00	2.45E-05	4.53E-07	7.53E-14	4.63E-07	1.73E-06	6.55E-06	1.15E-05
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3.82E+02 0.00E+00 1.47E-05 2.39E-07 7.31E-16 2.29E-07 7.80E-07 3.39E-06 6.40E-06

4.04E+02	0.00E+00	8.56E-06	1.29E-07	1.85E-17	1.12E-07	3.89E-07	1.81E-06	3.45E-06
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4.28E+02	0.00E+00	4.83E-06	6.80E-08	7.58E-19	5.17E-08	1.85E-07	9.22E-07	1.79E-06
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4.53E+02 0.00E+00 2.63E-06 3.38E-08 2.17E-21 2.54E-08 8.11E-08 4.31E-07 9.00E-07

4.79E+02 0.00E+00 1.39E-06 1.54E-08 8.92E-27 1.16E-08 3.34E-08 1.61E-07 4.57E-07

5.07E+02 0.00E+00 7.03E-07 7.33E-09 5.38E-29 5.54E-09 1.53E-08 7.02E-08 2.24E-07

5.36E+02 0.00E+00 3.43E-07 3.35E-09 0.00E+00 2.29E-09 5.67E-09 2.96E-08 1.05E-07

5.68E+02 0.00E+00 1.60E-07 1.48E-09 0.00E+00 1.02E-09 2.41E-09 1.20E-08 4.73E-08

6.01E+02 0.00E+00 7.17E-08 6.25E-10 0.00E+00 4.13E-10 9.94E-10 4.64E-09 2.02E-08

6.36E+02	0.00E+00	3.06E-08	2.51E-10	0.00E+00	1.64E-10	3.38E-10	1.74E-09	7.62E-09
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6.73E+02	0.00E+00	1.26E-08	9.64E-11	0.00E+00	5.55E-11	1.35E-10	5.89E-10	2.75E-09
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7.12E+02	0.00E+00	4.87E-09	3.54E-11	0.00E+00	1.75E-11	5.02E-11	1.88E-10	9.95E-10
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7.53E+02 0.00E+00 1.78E-09 1.22E-11 0.00E+00 5.35E-12 1.42E-11 5.25E-11 3.40E-10

7.97E+02	0.00E+00	6.19E-10	3.92E-12	0.00E+00	1.65E-12	4.22E-12	1.13E-11	1.09E-10
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8.44E+02 0.00E+00 2.01E-10 1.22E-12 0.00E+00 4.71E-13 1.40E-12 3.44E-12 3.28E-11

8.93E+02 0.00E+00 6.00E-11 3.38E-13 0.00E+00 1.32E-13 3.59E-13 8.21E-13 9.17E-12

9.45E+02	0.00E+00	1.67E-11	9.05E-14	0.00E+00	3.05E-14	8.86E-14	2.10E-13	2.38E-12
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1.00E+03	0.00E+00	4.32E-12	2.14E-14	0.00E+00	7.57E-15	2.30E-14	4.95E-14	2.93E-13
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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA SR-90.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	1.029E-01
2	0.000E+00	1.031E-01
3	0.000E+00	1.032E-01

Title : RESRAD Default Parameters
Input File : FCS BURIED PIPE INSITU UA SR-90.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	14	0.03	14	0.03	5	-0.05	5	-0.05
Contaminated zone b parameter	16	0.01	16	0.01	13	0.02	13	0.02
Evapotranspiration coefficient	2	0.13	2	0.13	3	0.11	3	0.11
Wind Speed	8	0.05	8	0.05	7	0.04	7	0.04
Runoff coefficient	7	0.06	7	0.06	8	0.04	8	0.03
b Parameter of Unsaturated zone 1	6	-0.09	6	-0.09	6	-0.05	6	-0.05
Mass loading for inhalation	10	0.04	10	0.04	17	0.01	17	0.01
Indoor dust filtration factor	15	-0.02	15	-0.02	14	-0.02	14	-0.02
Depth of soil mixing layer	12	-0.03	12	-0.03	16	-0.01	16	-0.01
Depth of roots	5	0.09	5	0.09	4	0.08	4	0.08
Wet weight crop yield of fruit, grain and non-leafy vegetables	17	-0.01	17	-0.01	18	0.00	18	0.00
Weathering removal constant of all vegetation	13	-0.03	13	-0.03	15	-0.02	15	-0.02
Wet foliar interception fraction of leafy vegetables	9	-0.05	9	-0.05	10	-0.03	10	-0.03
Humidity in air	18	0.01	18	0.01	11	-0.03	11	-0.03
Cover erosion rate	1	0.14	1	0.13	9	0.03	9	0.03
Kd of Sr-90 in Contaminated Zone	11	0.04	11	0.04	1	0.19	1	0.19
Kd of Sr-90 in Saturated Zone	3	0.11	3	0.11	12	-0.03	12	-0.02
Well pump intake depth	4	-0.10	4	-0.10	2	-0.13	2	-0.13

R-SQUARE	0.08	0.08	0.08	0.08
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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 SR-90.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
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Contaminated zone erosion rate	16 -0.01	16 -0.01	6 -0.08	6 -0.08
Contaminated zone b parameter	13 -0.02	13 -0.02	15 -0.01	15 -0.01
Evapotranspiration coefficient	5 0.08	5 0.08	7 0.08	7 0.08
Wind Speed	18 0.00	18 0.00	16 0.01	16 0.01
Runoff coefficient	4 0.08	4 0.08	4 0.10	4 0.09
b Parameter of Unsaturated zone 1	8 0.05	8 0.05	11 0.05	11 0.05
Mass loading for inhalation	17 -0.01	17 -0.01	17 0.01	17 0.01
Indoor dust filtration factor	6 -0.07	6 -0.07	9 -0.06	9 -0.06
Depth of soil mixing layer	3 0.08	3 0.08	5 0.09	5 0.08
Depth of roots	2 0.09	2 0.09	8 0.07	8 0.06
Wet weight crop yield of fruit, grain and non-leafy vegetables	10 -0.04	10 -0.04	10 -0.05	10 -0.05
Weathering removal constant of all vegetation	9 -0.05	9 -0.05	14 -0.04	14 -0.03
Wet foliar interception fraction of leafy vegetables	7 0.05	7 0.05	12 0.05	12 0.04
Humidity in air	15 -0.01	15 -0.01	18 0.00	18 0.00
Cover erosion rate	12 0.03	12 0.03	13 0.04	13 0.04
Kd of Sr-90 in Contaminated Zone	11 0.03	11 0.03	1 0.16	1 0.16
Kd of Sr-90 in Saturated Zone	14 0.02	14 0.02	3 -0.13	3 -0.12
Well pump intake depth	1 -0.10	1 -0.10	2 -0.14	2 -0.13

R-SQUARE	0.05	0.05	0.10	0.10
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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 SR-90.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	9	0.04	9	0.04	14	0.01	14	0.01
Contaminated zone b parameter	5	-0.07	5	-0.07	7	-0.05	7	-0.05
Evapotranspiration coefficient	1	0.15	1	0.15	1	0.15	1	0.15
Wind Speed	8	0.04	8	0.04	6	0.05	6	0.05
Runoff coefficient	16	0.01	16	0.01	15	0.01	15	0.01
b Parameter of Unsaturated zone 1	18	0.00	18	0.00	17	0.00	17	0.00
Mass loading for inhalation	14	-0.02	14	-0.02	10	-0.02	10	-0.02
Indoor dust filtration factor	15	-0.01	15	-0.01	16	0.00	16	0.00
Depth of soil mixing layer	13	-0.02	13	-0.02	13	-0.01	13	-0.01
Depth of roots	2	0.09	2	0.09	4	0.07	4	0.07
Wet weight crop yield of fruit, grain and non-leafy vegetables	11	0.03	11	0.03	18	0.00	18	0.00
Weathering removal constant of all vegetation	6	0.05	6	0.05	8	0.04	8	0.04
Wet foliar interception fraction of leafy vegetables	4	-0.08	4	-0.08	5	-0.06	5	-0.06
Humidity in air	12	0.02	12	0.02	11	0.02	11	0.02
Cover erosion rate	3	0.09	3	0.09	12	0.01	12	0.01
Kd of Sr-90 in Contaminated Zone	17	-0.01	17	-0.01	2	0.10	2	0.10
Kd of Sr-90 in Saturated Zone	7	-0.05	7	-0.05	3	-0.08	3	-0.08
Well pump intake depth	10	-0.03	10	-0.03	9	-0.04	9	-0.04

R-SQUARE	0.06	0.06	0.06	0.06
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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.