

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Input

Number of Sample Runs: 3000

Number	Name	Distribution	Parameters																	
1	VCZ	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22	.005	.95	.2	1										
2	BCZ	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1														
3	EVAPTR	UNIFORM	.5	.99																
4	WIND	UNIFORM	2.8	4.7																
5	RUNOFF	UNIFORM	.1	.8																
6	BUZ(1)	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1														
7	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003	.8119	.00004	.9495	.00006	.9937	.000076	.9983	.0001	1	
8	SHF3	UNIFORM	.15	.95																
9	DM	TRIANGULAR	0	.15	.6															
10	DROOT	UNIFORM	.3	4																
11	YV(1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999														
12	WLAM	TRIANGULAR	5.1	18	84															
13	RWET(2)	TRIANGULAR	.06	.67	.95															
14	HUMID	TRUNCATED LOGNORMAL-N	1.98	.334	.001	.999														
15	DCACTC(1)	LOGNORMAL-N	6.27	1.79																
16	DCACTS(1)	LOGNORMAL-N	6.27	1.79																
17	VCV	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22	.005	.95	.2	1										
18	DWIBWT	CONTINUOUS LINEAR	6	5	0	24	.29	43	.66	53	.68	76	.95	89	1					

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Probabilistic Total Dose Summary

Nuclide (j)	Peak Time	Peak Dose	DOSE(j,t), mrem/yr								
			t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03	
Cs-137											
Min	0.00E+00	7.33E-07	1.46E-07	1.46E-07	1.45E-07	1.39E-07	3.55E-08	0.00E+00	0.00E+00	0.00E+00	
Max	3.80E+02	4.46E-01	2.04E-02	1.76E-02	2.22E-02	4.23E-01	2.64E-01	5.14E-02	5.11E-04	4.82E-11	
Avg	1.30E+01	1.42E-02	5.87E-03	5.57E-03	5.13E-03	6.83E-03	4.15E-03	5.71E-04	1.28E-05	9.66E-13	
Std	4.47E+01	4.90E-02	3.87E-03	3.68E-03	3.50E-03	3.02E-02	1.92E-02	3.01E-03	5.29E-05	4.74E-12	
ALL											
Min	0.00E+00	7.33E-07	1.46E-07	1.46E-07	1.45E-07	1.39E-07	3.55E-08	0.00E+00	0.00E+00	0.00E+00	
Max	3.80E+02	4.46E-01	2.04E-02	1.76E-02	2.22E-02	4.23E-01	2.64E-01	5.14E-02	5.11E-04	4.82E-11	
Avg	1.30E+01	1.42E-02	5.87E-03	5.57E-03	5.13E-03	6.83E-03	4.15E-03	5.71E-04	1.28E-05	9.66E-13	
Std	4.47E+01	4.90E-02	3.87E-03	3.68E-03	3.50E-03	3.02E-02	1.92E-02	3.01E-03	5.29E-05	4.74E-12	

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
<hr/>									
Cs-137									
Min		3.00E-12	3.00E-12	3.01E-12	2.90E-12	6.80E-13	0.00E+00	0.00E+00	0.00E+00
Max		5.73E-07	3.77E-07	4.89E-07	9.59E-06	5.98E-06	1.16E-06	1.16E-08	1.09E-15
Avg		1.35E-07	1.27E-07	1.17E-07	1.50E-07	9.38E-08	1.29E-08	2.91E-10	2.19E-17
Std		8.96E-08	8.43E-08	7.97E-08	6.62E-07	4.34E-07	6.81E-08	1.20E-09	1.07E-16
<hr/>									
ALL									
Min		3.00E-12	3.00E-12	3.01E-12	2.90E-12	6.80E-13	0.00E+00	0.00E+00	0.00E+00
Max		5.73E-07	3.77E-07	4.89E-07	9.59E-06	5.98E-06	1.16E-06	1.16E-08	1.09E-15
Avg		1.35E-07	1.27E-07	1.17E-07	1.50E-07	9.38E-08	1.29E-08	2.91E-10	2.19E-17
Std		8.96E-08	8.43E-08	7.97E-08	6.62E-07	4.34E-07	6.81E-08	1.20E-09	1.07E-16
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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							
	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
CS-137								
Min	2.06E-08	6.97E-10	7.98E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.85E-07	6.04E-06	1.49E-03	4.02E-01	2.52E-01	4.91E-02	4.90E-04	4.53E-11
Avg	7.34E-08	9.20E-08	2.36E-06	2.80E-03	1.99E-03	2.45E-04	1.04E-05	8.89E-13
Std	1.84E-08	2.42E-07	4.15E-05	2.94E-02	1.87E-02	2.92E-03	5.11E-05	4.58E-12
ALL								
Min	2.06E-08	6.97E-10	7.98E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.85E-07	6.04E-06	1.49E-03	4.02E-01	2.52E-01	4.91E-02	4.90E-04	4.53E-11
Avg	7.34E-08	9.20E-08	2.36E-06	2.80E-03	1.99E-03	2.45E-04	1.04E-05	8.89E-13
Std	1.84E-08	2.42E-07	4.15E-05	2.94E-02	1.87E-02	2.92E-03	5.11E-05	4.58E-12

ALL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<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	6.00E-09	1.55E-07	6.89E-08	1.20E-08	1.38E-10	1.75E-17
Avg	0.00E+00	0.00E+00	2.01E-12	2.74E-10	1.94E-10	1.93E-11	1.29E-12	9.05E-20
Std	0.00E+00	0.00E+00	1.09E-10	4.11E-09	2.27E-09	3.06E-10	6.46E-12	6.17E-19
<hr/>								
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	6.00E-09	1.55E-07	6.89E-08	1.20E-08	1.38E-10	1.75E-17
Avg	0.00E+00	0.00E+00	2.01E-12	2.74E-10	1.94E-10	1.93E-11	1.29E-12	9.05E-20
Std	0.00E+00	0.00E+00	1.09E-10	4.11E-09	2.27E-09	3.06E-10	6.46E-12	6.17E-19
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ALL is total pathway dose summed for all nuclides.

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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	1.16E-02	1.21E-02	1.67E-02	2.27E-02	1.28E-02	1.81E-03	3.22E-05	2.82E-12
Avg	4.47E-03	4.26E-03	3.93E-03	3.05E-03	1.62E-03	2.43E-04	1.77E-06	5.00E-14
Std	3.03E-03	2.93E-03	2.79E-03	2.38E-03	1.48E-03	2.83E-04	3.15E-06	1.82E-13
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	1.16E-02	1.21E-02	1.67E-02	2.27E-02	1.28E-02	1.81E-03	3.22E-05	2.82E-12
Avg	4.47E-03	4.26E-03	3.93E-03	3.05E-03	1.62E-03	2.43E-04	1.77E-06	5.00E-14
Std	3.03E-03	2.93E-03	2.79E-03	2.38E-03	1.48E-03	2.83E-04	3.15E-06	1.82E-13

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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	1.10E-03	1.14E-03	1.58E-03	1.29E-02	7.83E-03	1.36E-03	9.14E-06	6.92E-13
Avg	4.25E-04	4.04E-04	3.73E-04	3.07E-04	1.65E-04	2.45E-05	2.40E-07	1.00E-14
Std	2.88E-04	2.77E-04	2.65E-04	3.77E-04	2.29E-04	4.00E-05	5.14E-07	4.11E-14
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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	1.10E-03	1.14E-03	1.58E-03	1.29E-02	7.83E-03	1.36E-03	9.14E-06	6.92E-13
Avg	4.25E-04	4.04E-04	3.73E-04	3.07E-04	1.65E-04	2.45E-05	2.40E-07	1.00E-14
Std	2.88E-04	2.77E-04	2.65E-04	3.77E-04	2.29E-04	4.00E-05	5.14E-07	4.11E-14
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Probabilistic Dose vs Pathway(i): Milk (Water Ind.)

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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	1.91E-03	1.99E-03	2.75E-03	1.00E-02	6.08E-03	1.06E-03	7.10E-06	5.92E-13
Avg	7.39E-04	7.04E-04	6.49E-04	5.17E-04	2.76E-04	4.12E-05	3.46E-07	1.22E-14
Std	5.01E-04	4.83E-04	4.61E-04	4.60E-04	2.84E-04	5.22E-05	6.42E-07	4.49E-14
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	1.91E-03	1.99E-03	2.75E-03	1.00E-02	6.08E-03	1.06E-03	7.10E-06	5.92E-13
Avg	7.39E-04	7.04E-04	6.49E-04	5.17E-04	2.76E-04	4.12E-05	3.46E-07	1.22E-14
Std	5.01E-04	4.83E-04	4.61E-04	4.60E-04	2.84E-04	5.22E-05	6.42E-07	4.49E-14

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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	1.30E-05	5.49E-04	3.33E-04	5.78E-05	3.89E-07	2.71E-14
Avg	0.00E+00	0.00E+00	4.38E-09	8.00E-07	5.38E-07	6.74E-08	3.20E-09	2.33E-16
Std	0.00E+00	0.00E+00	2.38E-07	1.26E-05	7.52E-06	1.24E-06	1.50E-08	1.35E-15
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	1.30E-05	5.49E-04	3.33E-04	5.78E-05	3.89E-07	2.71E-14
Avg	0.00E+00	0.00E+00	4.38E-09	8.00E-07	5.38E-07	6.74E-08	3.20E-09	2.33E-16
Std	0.00E+00	0.00E+00	2.38E-07	1.26E-05	7.52E-06	1.24E-06	1.50E-08	1.35E-15

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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
<b>Cs-137</b>								
Min	6.10E-08	6.19E-08	5.95E-08	5.20E-08	2.99E-08	0.00E+00	0.00E+00	0.00E+00
Max	9.38E-03	8.49E-03	6.97E-03	1.31E-02	4.11E-03	2.90E-04	1.34E-06	3.77E-14
Avg	1.89E-04	1.64E-04	1.44E-04	1.22E-04	7.89E-05	1.42E-05	1.02E-07	3.94E-15
Std	5.78E-04	4.32E-04	3.71E-04	4.16E-04	2.34E-04	2.95E-05	1.63E-07	5.55E-15
<b>ALL</b>								
Min	6.10E-08	6.19E-08	5.95E-08	5.20E-08	2.99E-08	0.00E+00	0.00E+00	0.00E+00
Max	9.38E-03	8.49E-03	6.97E-03	1.31E-02	4.11E-03	2.90E-04	1.34E-06	3.77E-14
Avg	1.89E-04	1.64E-04	1.44E-04	1.22E-04	7.89E-05	1.42E-05	1.02E-07	3.94E-15
Std	5.78E-04	4.32E-04	3.71E-04	4.16E-04	2.34E-04	2.95E-05	1.63E-07	5.55E-15

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<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	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
<hr/>								
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 CS-137.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<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	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
<hr/>								
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
<hr/>								

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 CS-137.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Cs-137								
Min	1.95E-09	1.91E-09	1.84E-09	1.61E-09	1.09E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.62E-03	1.47E-03	1.21E-03	8.35E-04	6.26E-04	4.13E-05	2.00E-07	6.80E-15
Avg	1.74E-05	1.51E-05	1.32E-05	1.10E-05	7.30E-06	1.28E-06	9.47E-09	3.69E-16
Std	5.88E-05	4.58E-05	3.87E-05	3.63E-05	2.49E-05	2.87E-06	1.75E-08	6.40E-16
ALL								
Min	1.95E-09	1.91E-09	1.84E-09	1.61E-09	1.09E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.62E-03	1.47E-03	1.21E-03	8.35E-04	6.26E-04	4.13E-05	2.00E-07	6.80E-15
Avg	1.74E-05	1.51E-05	1.32E-05	1.10E-05	7.30E-06	1.28E-06	9.47E-09	3.69E-16
Std	5.88E-05	4.58E-05	3.87E-05	3.63E-05	2.49E-05	2.87E-06	1.75E-08	6.40E-16

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 CS-137.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
CS-137								
Min	3.93E-09	3.85E-09	3.70E-09	3.24E-09	2.04E-09	0.00E+00	0.00E+00	0.00E+00
Max	8.23E-04	7.46E-04	6.12E-04	8.81E-04	2.82E-04	2.49E-05	1.14E-07	3.32E-15
Avg	1.47E-05	1.27E-05	1.11E-05	9.32E-06	6.08E-06	1.09E-06	7.91E-09	3.05E-16
Std	4.58E-05	3.34E-05	2.80E-05	3.03E-05	1.80E-05	2.24E-06	1.27E-08	4.38E-16
ALL								
Min	3.93E-09	3.85E-09	3.70E-09	3.24E-09	2.04E-09	0.00E+00	0.00E+00	0.00E+00
Max	8.23E-04	7.46E-04	6.12E-04	8.81E-04	2.82E-04	2.49E-05	1.14E-07	3.32E-15
Avg	1.47E-05	1.27E-05	1.11E-05	9.32E-06	6.08E-06	1.09E-06	7.91E-09	3.05E-16
Std	4.58E-05	3.34E-05	2.80E-05	3.03E-05	1.80E-05	2.24E-06	1.27E-08	4.38E-16

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 CS-137.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
CS-137								
Min	4.18E-09	4.10E-09	3.94E-09	3.45E-09	2.26E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.03E-03	9.36E-04	7.68E-04	9.86E-04	3.67E-04	3.21E-05	1.49E-07	4.20E-15
Avg	1.75E-05	1.51E-05	1.32E-05	1.11E-05	7.27E-06	1.30E-06	9.47E-09	3.66E-16
Std	5.41E-05	3.98E-05	3.34E-05	3.55E-05	2.17E-05	2.67E-06	1.54E-08	5.34E-16
ALL								
Min	4.18E-09	4.10E-09	3.94E-09	3.45E-09	2.26E-09	0.00E+00	0.00E+00	0.00E+00
Max	1.03E-03	9.36E-04	7.68E-04	9.86E-04	3.67E-04	3.21E-05	1.49E-07	4.20E-15
Avg	1.75E-05	1.51E-05	1.32E-05	1.11E-05	7.27E-06	1.30E-06	9.47E-09	3.66E-16
Std	5.41E-05	3.98E-05	3.34E-05	3.55E-05	2.17E-05	2.67E-06	1.54E-08	5.34E-16

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 CS-137.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	5.03E-06	5.17E-06	5.22E-06	5.24E-06	2.80E-06	4.12E-07	4.09E-10	0.00E+00
0.050	1.06E-05	1.08E-05	1.12E-05	1.09E-05	6.61E-06	1.20E-06	3.00E-09	0.00E+00
0.075	1.97E-05	2.07E-05	2.16E-05	2.03E-05	1.20E-05	2.11E-06	6.77E-09	0.00E+00
0.100	3.81E-05	4.07E-05	4.06E-05	3.55E-05	1.86E-05	2.93E-06	1.15E-08	0.00E+00
0.125	6.49E-05	6.61E-05	6.79E-05	5.96E-05	2.88E-05	4.12E-06	1.70E-08	5.87E-23
0.150	1.15E-04	1.19E-04	1.19E-04	9.67E-05	4.60E-05	5.58E-06	2.35E-08	7.51E-18
0.175	2.33E-04	2.41E-04	2.17E-04	1.58E-04	6.86E-05	7.67E-06	2.99E-08	7.41E-17
0.200	6.97E-04	6.94E-04	5.47E-04	3.37E-04	1.13E-04	1.05E-05	3.84E-08	1.71E-16
0.225	4.19E-03	3.86E-03	2.32E-03	8.16E-04	1.83E-04	1.40E-05	4.84E-08	2.83E-16
0.250	4.34E-03	4.11E-03	3.57E-03	1.63E-03	3.23E-04	1.88E-05	6.15E-08	4.22E-16
0.275	4.44E-03	4.24E-03	3.87E-03	2.31E-03	5.61E-04	2.52E-05	7.70E-08	6.18E-16
0.300	4.56E-03	4.36E-03	4.00E-03	2.74E-03	7.71E-04	3.57E-05	9.91E-08	7.89E-16
0.325	4.66E-03	4.47E-03	4.11E-03	3.07E-03	9.96E-04	5.08E-05	1.24E-07	1.03E-15
0.350	4.80E-03	4.58E-03	4.20E-03	3.25E-03	1.27E-03	6.53E-05	1.51E-07	1.33E-15
0.375	4.96E-03	4.71E-03	4.30E-03	3.35E-03	1.49E-03	8.24E-05	1.81E-07	1.62E-15
0.400	5.09E-03	4.85E-03	4.40E-03	3.45E-03	1.67E-03	1.02E-04	2.21E-07	1.99E-15
0.425	5.25E-03	4.96E-03	4.54E-03	3.55E-03	1.80E-03	1.32E-04	2.82E-07	2.33E-15
0.450	5.40E-03	5.12E-03	4.69E-03	3.64E-03	1.92E-03	1.59E-04	3.66E-07	2.70E-15
0.475	5.56E-03	5.27E-03	4.83E-03	3.74E-03	2.03E-03	1.89E-04	4.78E-07	3.16E-15
0.500	5.74E-03	5.43E-03	4.97E-03	3.89E-03	2.09E-03	2.30E-04	5.99E-07	3.65E-15
0.525	5.92E-03	5.63E-03	5.15E-03	4.03E-03	2.17E-03	2.67E-04	7.73E-07	4.15E-15
0.550	6.14E-03	5.79E-03	5.36E-03	4.17E-03	2.25E-03	2.91E-04	9.77E-07	4.90E-15
0.575	6.31E-03	6.02E-03	5.55E-03	4.33E-03	2.34E-03	3.27E-04	1.30E-06	5.51E-15
0.600	6.52E-03	6.20E-03	5.72E-03	4.50E-03	2.44E-03	3.61E-04	1.67E-06	6.49E-15
0.625	6.76E-03	6.42E-03	5.91E-03	4.63E-03	2.55E-03	3.93E-04	2.09E-06	7.43E-15
0.650	7.07E-03	6.68E-03	6.11E-03	4.82E-03	2.64E-03	4.12E-04	2.55E-06	8.67E-15
0.675	7.33E-03	6.94E-03	6.36E-03	5.01E-03	2.75E-03	4.36E-04	3.05E-06	1.02E-14
0.700	7.63E-03	7.18E-03	6.57E-03	5.21E-03	2.88E-03	4.58E-04	3.47E-06	1.24E-14
0.725	7.92E-03	7.48E-03	6.87E-03	5.44E-03	3.02E-03	4.83E-04	4.01E-06	1.52E-14
0.750	8.27E-03	7.81E-03	7.22E-03	5.74E-03	3.20E-03	5.11E-04	4.51E-06	1.83E-14
0.775	8.61E-03	8.16E-03	7.56E-03	6.04E-03	3.39E-03	5.47E-04	5.08E-06	2.42E-14
0.800	9.03E-03	8.54E-03	7.91E-03	6.39E-03	3.63E-03	5.85E-04	5.77E-06	3.47E-14
0.825	9.51E-03	9.04E-03	8.33E-03	6.81E-03	3.90E-03	6.30E-04	6.60E-06	6.76E-14
0.850	1.00E-02	9.50E-03	8.84E-03	7.19E-03	4.13E-03	6.92E-04	7.90E-06	1.65E-13
0.875	1.06E-02	1.01E-02	9.38E-03	7.72E-03	4.52E-03	7.61E-04	9.68E-06	3.35E-13
0.900	1.12E-02	1.07E-02	9.96E-03	8.25E-03	4.95E-03	8.53E-04	1.30E-05	5.22E-13
0.925	1.19E-02	1.14E-02	1.06E-02	8.97E-03	5.43E-03	9.62E-04	2.05E-05	8.56E-13
0.950	1.28E-02	1.22E-02	1.14E-02	9.71E-03	5.98E-03	1.08E-03	4.51E-05	3.33E-12
0.975	1.38E-02	1.31E-02	1.25E-02	1.09E-02	6.81E-03	1.35E-03	1.58E-04	1.43E-11
1.000	2.04E-02	1.76E-02	2.22E-02	4.23E-01	2.64E-01	5.14E-02	5.11E-04	4.82E-11

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA CS-137.RAD

Summary of dose at graphical times, reptition 1

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.91E-07	2.04E-02	5.88E-03	5.77E-03	1.12E-02	1.27E-02	1.37E-02	1.42E-02
1.00E+00	3.12E-07	1.42E-02	5.59E-03	5.47E-03	1.06E-02	1.22E-02	1.31E-02	1.37E-02
1.06E+00	3.13E-07	1.42E-02	5.58E-03	5.47E-03	1.05E-02	1.22E-02	1.31E-02	1.37E-02
1.12E+00	3.14E-07	1.42E-02	5.57E-03	5.45E-03	1.05E-02	1.21E-02	1.31E-02	1.37E-02
1.19E+00	3.15E-07	1.41E-02	5.55E-03	5.44E-03	1.05E-02	1.21E-02	1.31E-02	1.37E-02
1.25E+00	3.17E-07	1.41E-02	5.53E-03	5.42E-03	1.05E-02	1.20E-02	1.31E-02	1.36E-02
1.33E+00	3.18E-07	1.41E-02	5.52E-03	5.38E-03	1.05E-02	1.21E-02	1.30E-02	1.36E-02
1.40E+00	3.20E-07	1.41E-02	5.50E-03	5.36E-03	1.04E-02	1.21E-02	1.30E-02	1.36E-02
1.49E+00	3.21E-07	1.40E-02	5.48E-03	5.34E-03	1.04E-02	1.20E-02	1.30E-02	1.36E-02
1.57E+00	3.23E-07	1.46E-02	5.46E-03	5.31E-03	1.04E-02	1.20E-02	1.30E-02	1.35E-02
1.66E+00	3.25E-07	1.51E-02	5.44E-03	5.27E-03	1.03E-02	1.20E-02	1.29E-02	1.35E-02
1.76E+00	3.27E-07	1.53E-02	5.42E-03	5.23E-03	1.03E-02	1.20E-02	1.29E-02	1.35E-02
1.86E+00	3.29E-07	1.53E-02	5.40E-03	5.21E-03	1.02E-02	1.20E-02	1.29E-02	1.34E-02
1.97E+00	3.31E-07	1.53E-02	5.37E-03	5.19E-03	1.02E-02	1.19E-02	1.28E-02	1.34E-02
2.09E+00	3.33E-07	1.52E-02	5.35E-03	5.16E-03	1.01E-02	1.19E-02	1.28E-02	1.33E-02
2.21E+00	3.35E-07	1.52E-02	5.33E-03	5.14E-03	1.01E-02	1.19E-02	1.28E-02	1.33E-02
2.24E+00	3.38E-07	1.51E-02	5.30E-03	5.13E-03	1.01E-02	1.18E-02	1.27E-02	1.33E-02
2.27E+00	3.40E-07	1.51E-02	5.27E-03	5.10E-03	1.00E-02	1.18E-02	1.27E-02	1.34E-02
2.62E+00	3.43E-07	1.67E-02	5.24E-03	5.07E-03	9.98E-03	1.17E-02	1.26E-02	1.34E-02
2.77E+00	3.46E-07	1.84E-02	5.21E-03	5.03E-03	9.94E-03	1.17E-02	1.26E-02	1.33E-02
2.93E+00	3.49E-07	1.85E-02	5.18E-03	5.00E-03	9.91E-03	1.16E-02	1.25E-02	1.33E-02
3.00E+00	3.50E-07	1.84E-02	5.16E-03	4.99E-03	9.90E-03	1.16E-02	1.25E-02	1.32E-02
3.310E+00	3.52E-07	1.83E-02	5.14E-03	4.97E-03	9.86E-03	1.15E-02	1.25E-02	1.32E-02
3.328E+00	3.55E-07	1.82E-02	5.11E-03	4.94E-03	9.80E-03	1.15E-02	1.24E-02	1.31E-02
3.48E+00	3.58E-07	1.80E-02	5.07E-03	4.91E-03	9.76E-03	1.14E-02	1.23E-02	1.30E-02
3.68E+00	3.62E-07	1.79E-02	5.03E-03	4.89E-03	9.69E-03	1.14E-02	1.23E-02	1.30E-02
3.89E+00	3.66E-07	1.78E-02	5.00E-03	4.86E-03	9.63E-03	1.13E-02	1.22E-02	1.29E-02
4.12E+00	3.70E-07	2.44E-02	4.96E-03	4.83E-03	9.57E-03	1.13E-02	1.22E-02	1.30E-02
4.36E+00	3.74E-07	3.92E-02	4.94E-03	4.80E-03	9.52E-03	1.12E-02	1.22E-02	1.31E-02
4.61E+00	3.78E-07	6.93E-02	4.94E-03	4.74E-03	9.46E-03	1.11E-02	1.21E-02	1.30E-02
4.88E+00	3.83E-07	1.36E-01	4.98E-03	4.70E-03	9.40E-03	1.10E-02	1.20E-02	1.29E-02
5.17E+00	3.87E-07	2.29E-01	5.07E-03	4.66E-03	9.34E-03	1.11E-02	1.21E-02	1.28E-02
5.547E+00	3.92E-07	3.10E-01	5.20E-03	4.63E-03	9.24E-03	1.09E-02	1.20E-02	1.28E-02
5.578E+00	3.97E-07	3.61E-01	5.39E-03	4.58E-03	9.16E-03	1.08E-02	1.19E-02	1.27E-02
6.12E+00	4.03E-07	3.61E-01	5.58E-03	4.54E-03	9.06E-03	1.07E-02	1.18E-02	1.26E-02
6.48E+00	4.08E-07	4.34E-01	5.78E-03	4.47E-03	8.99E-03	1.06E-02	1.17E-02	1.27E-02
6.86E+00	4.14E-07	4.30E-01	5.95E-03	4.42E-03	8.95E-03	1.06E-02	1.16E-02	1.35E-02
7.26E+00	4.20E-07	4.21E-01	6.08E-03	4.35E-03	8.85E-03	1.05E-02	1.15E-02	2.04E-02
7.68E+00	4.26E-07	4.11E-01	6.21E-03	4.28E-03	8.78E-03	1.03E-02	1.14E-02	1.94E-02
8.13E+00	4.32E-07	4.01E-01	6.33E-03	4.23E-03	8.68E-03	1.03E-02	1.12E-02	1.61E-02
8.60E+00	4.39E-07	3.90E-01	6.46E-03	4.14E-03	8.58E-03	1.01E-02	1.12E-02	1.45E-02
9.10E+00	4.45E-07	4.00E-01	6.59E-03	4.07E-03	8.53E-03	1.01E-02	1.10E-02	2.23E-02
9.63E+00	4.52E-07	4.01E-01	6.71E-03	4.01E-03	8.41E-03	9.93E-03	1.09E-02	3.84E-02
1.00E+01	4.52E-07	4.10E-01	6.79E-03	3.96E-03	8.31E-03	9.83E-03	1.09E-02	5.84E-02
1.02E+01	4.51E-07	4.08E-01	6.82E-03	3.94E-03	8.26E-03	9.78E-03	1.08E-02	7.30E-02
1.08E+01	4.48E-07	4.03E-01	6.85E-03	3.86E-03	8.13E-03	9.62E-03	1.07E-02	1.50E-01
1.14E+01	4.45E-07	3.97E-01	6.88E-03	3.79E-03	8.02E-03	9.55E-03	1.05E-02	1.54E-01
1.21E+01	4.41E-07	3.91E-01	6.80E-03	3.71E-03	7.86E-03	9.43E-03	1.04E-02	1.43E-01
1.28E+01	4.38E-07	3.84E-01	6.55E-03	3.60E-03	7.68E-03	9.27E-03	1.02E-02	1.89E-01
1.35E+01	4.34E-07	3.78E-01	6.53E-03	3.52E-03	7.50E-03	9.04E-03	1.00E-02	1.75E-01
1.43E+01	4.21E-07	3.71E-01	6.45E-03	3.43E-03	7.31E-03	8.93E-03	9.82E-03	1.54E-01
1.51E+01	4.13E-07	3.63E-01	6.36E-03	3.33E-03	7.13E-03	8.76E-03	9.63E-03	1.51E-01
1.60E+01	4.04E-07	3.56E-01	6.37E-03	3.24E-03	6.94E-03	8.55E-03	9.45E-03	1.38E-01
1.70E+01	3.96E-07	3.48E-01	6.34E-03	3.15E-03	6.78E-03	8.34E-03	9.25E-03	1.63E-01
1.80E+01	3.87E-07	3.40E-01	6.31E-03	3.07E-03	6.65E-03	8.21E-03	9.04E-03	1.73E-01
1.90E+01	3.78E-07	3.32E-01	6.33E-03	2.97E-03	6.47E-03	8.02E-03	8.82E-03	1.86E-01

2.01E+01 3.68E-07 3.23E-01 6.12E-03 2.88E-03 6.32E-03 7.79E-03 8.56E-03 1.66E-01

2.13E+01 3.58E-07 3.15E-01 5.94E-03 2.77E-03 6.09E-03 7.53E-03 8.31E-03 1.93E-01

2.25E+01 3.48E-07 3.06E-01 5.65E-03 2.67E-03 5.95E-03 7.27E-03 8.08E-03 1.70E-01

2.38E+01 3.38E-07 2.96E-01 5.21E-03 2.56E-03 5.73E-03 7.09E-03 7.87E-03 1.33E-01

2.52E+01 3.27E-07 2.87E-01 4.91E-03 2.45E-03 5.51E-03 6.84E-03 7.64E-03 1.38E-01



2.67E+01 3.16E-07 2.77E-01 4.57E-03 2.35E-03 5.31E-03 6.59E-03 7.58E-03 9.20E-02

2.82E+01 3.05E-07 2.67E-01 4.06E-03 2.26E-03 5.11E-03 6.32E-03 7.12E-03 7.21E-02

2.99E+01 3.56E-08 2.57E-01 3.83E-03 2.14E-03 4.85E-03 6.11E-03 6.85E-03 6.41E-02

3.00E+01 3.55E-08 2.56E-01 3.82E-03 2.13E-03 4.84E-03 6.09E-03 6.84E-03 6.35E-02

3.16E+01 3.42E-08 2.47E-01 3.42E-03 2.03E-03 4.64E-03 5.88E-03 6.58E-03 5.65E-02

3.35E+01 3.28E-08 2.36E-01 3.17E-03 1.91E-03 4.38E-03 5.59E-03 6.25E-03 5.22E-02

3.54E+01 3.14E-08 2.26E-01 2.96E-03 1.81E-03 4.17E-03 5.31E-03 5.98E-03 4.15E-02

3.75E+01 2.99E-08 2.15E-01 2.80E-03 1.70E-03 3.98E-03 5.05E-03 5.70E-03 3.60E-02



3.97E+01 2.84E-08 2.04E-01 2.65E-03 1.60E-03 3.74E-03 4.79E-03 5.41E-03 2.39E-02

4.20E+01 2.69E-08 1.93E-01 2.54E-03 1.49E-03 3.53E-03 4.54E-03 5.09E-03 1.46E-02

4.44E+01 1.02E-08 1.82E-01 2.33E-03 1.38E-03 3.30E-03 4.27E-03 4.85E-03 1.19E-02

4.70E+01 9.57E-09 1.72E-01 2.10E-03 1.27E-03 3.10E-03 3.98E-03 4.56E-03 1.24E-02

4.97E+01 8.98E-09 1.61E-01 1.93E-03 1.16E-03 2.85E-03 3.71E-03 4.25E-03 1.07E-02

5.26E+01 8.40E-09 1.50E-01 1.79E-03 1.07E-03 2.67E-03 3.42E-03 3.97E-03 6.65E-03

5.57E+01 7.83E-09 1.40E-01 1.65E-03 9.71E-04 2.46E-03 3.15E-03 3.70E-03 9.71E-03

5.90E+01 7.26E-09 1.30E-01 1.49E-03 8.66E-04 2.28E-03 2.96E-03 3.49E-03 6.12E-03



6.24E+01 6.71E-09 1.19E-01 1.28E-03 7.70E-04 2.08E-03 2.63E-03 3.17E-03 3.91E-03

6.0E+01 6.17E-09 1.10E-01 1.19E-03 6.79E-04 1.90E-03 2.40E-03 2.91E-03 3.59E-03

99E+01 5.64E-09 1.00E-01 1.08E-03 5.95E-04 1.73E-03 2.30E-03 2.68E-03 3.63E-03

7.39E+01 5.14E-09 9.10E-02 9.59E-04 5.28E-04 1.56E-03 2.07E-03 2.51E-03 3.14E-03

7.82E+01 4.65E-09 8.22E-02 8.66E-04 4.68E-04 1.42E-03 1.86E-03 2.24E-03 3.93E-03

8.28E+01 4.19E-09 7.39E-02 8.03E-04 4.12E-04 1.27E-03 1.67E-03 2.08E-03 4.06E-03

8.76E+01 3.74E-09 6.59E-02 7.03E-04 3.54E-04 1.14E-03 1.48E-03 1.86E-03 3.23E-03

9.27E+01 0.00E+00 5.85E-02 6.34E-04 3.02E-04 1.02E-03 1.32E-03 1.65E-03 2.49E-03



9.81E+01 0.00E+00 5.15E-02 5.94E-04 2.52E-04 8.95E-04 1.15E-03 1.46E-03 2.19E-03

1.00E+02 0.00E+00 4.93E-02 5.25E-04 2.39E-04 8.49E-04 1.10E-03 1.39E-03 2.07E-03

1.04E+02 0.00E+00 4.50E-02 4.78E-04 2.16E-04 7.79E-04 1.01E-03 1.27E-03 1.89E-03

1.10E+02 0.00E+00 3.90E-02 4.12E-04 1.80E-04 6.76E-04 8.96E-04 1.13E-03 1.67E-03

1.16E+02 0.00E+00 3.36E-02 3.51E-04 1.46E-04 5.79E-04 7.66E-04 1.01E-03 1.44E-03

1.23E+02 0.00E+00 2.86E-02 2.97E-04 1.18E-04 4.92E-04 6.54E-04 8.57E-04 1.23E-03

1.30E+02 0.00E+00 2.42E-02 2.58E-04 9.53E-05 4.15E-04 5.69E-04 7.56E-04 1.05E-03

1.38E+02 0.00E+00 2.02E-02 2.23E-04 8.07E-05 3.48E-04 4.94E-04 6.35E-04 9.31E-04



1.46E+02 0.00E+00 1.67E-02 1.87E-04 6.50E-05 2.95E-04 4.20E-04 5.68E-04 1.13E-03

1.54E+02 0.00E+00 1.37E-02 1.47E-04 5.05E-05 2.43E-04 3.49E-04 4.84E-04 1.11E-03

1.63E+02 0.00E+00 1.11E-02 1.18E-04 3.82E-05 2.01E-04 2.80E-04 3.92E-04 8.49E-04

1.73E+02 0.00E+00 8.86E-03 9.36E-05 3.00E-05 1.63E-04 2.41E-04 3.16E-04 7.42E-04

1.83E+02 0.00E+00 6.99E-03 7.63E-05 2.18E-05 1.36E-04 1.98E-04 2.95E-04 7.20E-04

1.94E+02 0.00E+00 5.44E-03 6.34E-05 1.63E-05 1.12E-04 1.67E-04 3.18E-04 7.11E-04

2.05E+02 0.00E+00 4.17E-03 5.27E-05 1.27E-05 8.84E-05 1.47E-04 3.36E-04 8.21E-04

2.17E+02 0.00E+00 3.15E-03 5.13E-05 9.33E-06 7.66E-05 1.34E-04 4.41E-04 1.08E-03



2.29E+02 0.00E+00 2.61E-03 5.39E-05 6.58E-06 6.35E-05 1.34E-04 5.07E-04 1.41E-03

2.43E+02 0.00E+00 1.71E-03 4.07E-05 4.34E-06 4.70E-05 1.23E-04 4.75E-04 1.08E-03

2.57E+02 0.00E+00 1.36E-03 3.18E-05 2.92E-06 3.49E-05 1.06E-04 3.51E-04 8.61E-04

2.72E+02 0.00E+00 9.85E-04 2.17E-05 1.70E-06 2.56E-05 6.73E-05 2.15E-04 5.86E-04

2.88E+02 0.00E+00 6.80E-04 1.59E-05 9.94E-07 1.82E-05 5.60E-05 2.06E-04 4.23E-04

3.00E+02 0.00E+00 5.11E-04 1.25E-05 6.45E-07 1.36E-05 4.60E-05 1.36E-04 3.55E-04

3.05E+02 0.00E+00 4.60E-04 1.15E-05 5.65E-07 1.18E-05 4.50E-05 1.37E-04 3.39E-04

3.22E+02 0.00E+00 3.04E-04 7.66E-06 3.28E-07 7.69E-06 3.33E-05 9.31E-05 2.03E-04



3.41E+02 0.00E+00 1.96E-04 5.12E-06 1.71E-07 4.98E-06 1.93E-05 7.07E-05 1.34E-04

3.61E+02 0.00E+00 1.23E-04 3.24E-06 9.30E-08 3.16E-06 1.43E-05 4.58E-05 7.92E-05

3.82E+02 0.00E+00 7.55E-05 2.05E-06 5.06E-08 1.85E-06 7.99E-06 2.58E-05 5.24E-05

4.04E+02 0.00E+00 4.49E-05 1.14E-06 2.50E-08 1.14E-06 4.99E-06 1.40E-05 3.06E-05

4.28E+02 0.00E+00 2.59E-05 6.77E-07 1.21E-08 6.38E-07 2.48E-06 9.12E-06 1.85E-05

4.53E+02 0.00E+00 1.45E-05 4.03E-07 6.11E-09 3.65E-07 1.64E-06 6.34E-06 1.20E-05

4.79E+02 0.00E+00 7.88E-06 2.08E-07 2.87E-09 1.86E-07 9.44E-07 2.95E-06 5.95E-06

5.07E+02 0.00E+00 4.13E-06 1.16E-07 1.34E-09 9.83E-08 4.92E-07 1.75E-06 3.37E-06



5.36E+02 0.00E+00 2.08E-06 5.65E-08 5.73E-10 4.24E-08 2.56E-07 8.20E-07 1.69E-06

5.68E+02 0.00E+00 1.01E-06 2.52E-08 2.44E-10 2.15E-08 9.55E-08 3.62E-07 8.01E-07

0.01E+02 0.00E+00 4.68E-07 1.29E-08 9.86E-11 9.70E-09 4.58E-08 2.11E-07 3.72E-07

6.36E+02 0.00E+00 2.08E-07 5.62E-09 3.89E-11 4.90E-09 1.99E-08 8.93E-08 1.62E-07

6.73E+02 0.00E+00 8.81E-08 2.19E-09 1.42E-11 1.61E-09 7.67E-09 3.45E-08 6.76E-08

7.12E+02 0.00E+00 3.55E-08 9.06E-10 5.25E-12 6.75E-10 3.47E-09 1.33E-08 2.68E-08

7.53E+02 0.00E+00 1.36E-08 3.38E-10 1.93E-12 2.37E-10 1.41E-09 5.05E-09 1.01E-08

7.97E+02 0.00E+00 4.91E-09 1.25E-10 6.12E-13 8.44E-11 5.84E-10 1.87E-09 3.63E-09



8.44E+02 0.00E+00 1.67E-09 4.16E-11 1.87E-13 2.52E-11 1.91E-10 6.47E-10 1.22E-09

93E+02 0.00E+00 5.35E-10 1.30E-11 5.45E-14 6.91E-12 5.48E-11 2.14E-10 3.82E-10

9.45E+02 0.00E+00 1.60E-10 3.69E-12 1.46E-14 1.78E-12 1.40E-11 6.00E-11 1.19E-10

1.00E+03 0.00E+00 4.46E-11 9.73E-13 3.79E-15 4.53E-13 2.51E-12 1.54E-11 3.26E-11

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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 CS-137.RAD

Summary of dose at graphical times, reptition 2

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.46E-07	1.49E-02	5.86E-03	5.71E-03	1.12E-02	1.28E-02	1.38E-02	1.45E-02
1.00E+00	1.46E-07	1.52E-02	5.56E-03	5.36E-03	1.08E-02	1.22E-02	1.32E-02	1.39E-02
1.06E+00	1.46E-07	1.52E-02	5.55E-03	5.35E-03	1.07E-02	1.22E-02	1.32E-02	1.39E-02
1.12E+00	1.46E-07	1.52E-02	5.53E-03	5.34E-03	1.07E-02	1.21E-02	1.31E-02	1.38E-02
1.19E+00	1.46E-07	1.51E-02	5.51E-03	5.32E-03	1.07E-02	1.21E-02	1.31E-02	1.38E-02
1.25E+00	1.46E-07	1.51E-02	5.49E-03	5.30E-03	1.07E-02	1.20E-02	1.31E-02	1.38E-02
1.33E+00	1.46E-07	1.51E-02	5.48E-03	5.29E-03	1.07E-02	1.20E-02	1.30E-02	1.38E-02
1.40E+00	1.46E-07	1.51E-02	5.46E-03	5.28E-03	1.06E-02	1.19E-02	1.30E-02	1.37E-02
1.49E+00	1.46E-07	1.50E-02	5.43E-03	5.27E-03	1.06E-02	1.18E-02	1.29E-02	1.37E-02
1.57E+00	1.46E-07	1.50E-02	5.41E-03	5.25E-03	1.06E-02	1.18E-02	1.29E-02	1.37E-02
1.66E+00	1.46E-07	1.49E-02	5.39E-03	5.23E-03	1.06E-02	1.17E-02	1.29E-02	1.37E-02
1.76E+00	1.46E-07	1.49E-02	5.37E-03	5.20E-03	1.05E-02	1.17E-02	1.29E-02	1.36E-02
1.86E+00	1.46E-07	1.49E-02	5.34E-03	5.18E-03	1.04E-02	1.17E-02	1.28E-02	1.36E-02
1.97E+00	1.46E-07	1.48E-02	5.32E-03	5.15E-03	1.03E-02	1.16E-02	1.28E-02	1.36E-02
2.09E+00	1.46E-07	1.48E-02	5.30E-03	5.13E-03	1.03E-02	1.16E-02	1.27E-02	1.35E-02
2.21E+00	1.46E-07	1.47E-02	5.27E-03	5.09E-03	1.02E-02	1.16E-02	1.27E-02	1.35E-02
2.24E+00	1.46E-07	1.47E-02	5.24E-03	5.07E-03	1.02E-02	1.15E-02	1.26E-02	1.34E-02
2.27E+00	1.46E-07	1.46E-02	5.21E-03	5.04E-03	1.01E-02	1.15E-02	1.26E-02	1.34E-02
2.62E+00	1.46E-07	1.67E-02	5.19E-03	5.01E-03	1.01E-02	1.15E-02	1.26E-02	1.34E-02
2.77E+00	1.46E-07	1.93E-02	5.16E-03	4.98E-03	1.00E-02	1.14E-02	1.26E-02	1.33E-02
2.93E+00	1.45E-07	2.00E-02	5.12E-03	4.95E-03	9.88E-03	1.14E-02	1.26E-02	1.33E-02
3.00E+00	1.45E-07	2.00E-02	5.11E-03	4.93E-03	9.85E-03	1.13E-02	1.26E-02	1.32E-02
3.10E+00	1.45E-07	2.00E-02	5.09E-03	4.92E-03	9.82E-03	1.13E-02	1.26E-02	1.33E-02
3.28E+00	1.45E-07	1.99E-02	5.05E-03	4.90E-03	9.77E-03	1.12E-02	1.25E-02	1.32E-02
3.48E+00	1.45E-07	1.99E-02	5.02E-03	4.87E-03	9.66E-03	1.11E-02	1.25E-02	1.32E-02
3.68E+00	1.45E-07	2.09E-02	4.98E-03	4.83E-03	9.60E-03	1.11E-02	1.24E-02	1.31E-02
3.89E+00	1.45E-07	2.86E-02	4.95E-03	4.78E-03	9.55E-03	1.10E-02	1.24E-02	1.30E-02
4.12E+00	1.45E-07	4.35E-02	4.93E-03	4.75E-03	9.52E-03	1.09E-02	1.23E-02	1.29E-02
4.36E+00	1.45E-07	7.37E-02	4.93E-03	4.71E-03	9.50E-03	1.09E-02	1.22E-02	1.29E-02
4.61E+00	1.45E-07	1.40E-01	4.97E-03	4.67E-03	9.53E-03	1.09E-02	1.22E-02	1.29E-02
4.88E+00	1.45E-07	2.48E-01	5.08E-03	4.63E-03	9.42E-03	1.09E-02	1.22E-02	1.31E-02
5.17E+00	1.45E-07	3.51E-01	5.21E-03	4.58E-03	9.29E-03	1.08E-02	1.21E-02	1.32E-02
5.47E+00	1.46E-07	4.30E-01	5.34E-03	4.52E-03	9.20E-03	1.07E-02	1.20E-02	1.31E-02
5.78E+00	1.46E-07	4.44E-01	5.45E-03	4.46E-03	9.13E-03	1.07E-02	1.19E-02	1.30E-02
6.12E+00	1.46E-07	4.39E-01	5.54E-03	4.41E-03	9.06E-03	1.06E-02	1.18E-02	1.50E-02
6.48E+00	1.45E-07	4.34E-01	5.64E-03	4.33E-03	8.93E-03	1.05E-02	1.17E-02	1.62E-02
6.86E+00	1.45E-07	4.29E-01	5.76E-03	4.27E-03	8.83E-03	1.04E-02	1.16E-02	1.86E-02
7.26E+00	1.44E-07	4.24E-01	5.90E-03	4.22E-03	8.73E-03	1.03E-02	1.15E-02	2.23E-02
7.68E+00	1.43E-07	4.23E-01	6.09E-03	4.13E-03	8.59E-03	1.02E-02	1.16E-02	2.35E-02
8.13E+00	1.42E-07	4.17E-01	6.16E-03	4.07E-03	8.50E-03	1.01E-02	1.14E-02	2.57E-02
8.60E+00	1.41E-07	4.20E-01	6.20E-03	4.00E-03	8.41E-03	9.97E-03	1.13E-02	2.87E-02
9.10E+00	1.40E-07	4.31E-01	6.34E-03	3.94E-03	8.30E-03	9.89E-03	1.11E-02	3.42E-02
9.63E+00	1.40E-07	4.25E-01	6.48E-03	3.86E-03	8.16E-03	9.74E-03	1.11E-02	4.59E-02
1.00E+01	1.39E-07	4.22E-01	6.57E-03	3.82E-03	8.04E-03	9.65E-03	1.10E-02	6.04E-02
1.02E+01	1.39E-07	4.20E-01	6.58E-03	3.80E-03	7.99E-03	9.61E-03	1.09E-02	6.85E-02
1.08E+01	1.37E-07	4.14E-01	6.58E-03	3.74E-03	7.91E-03	9.50E-03	1.08E-02	6.15E-02
1.14E+01	1.36E-07	4.08E-01	6.61E-03	3.67E-03	7.79E-03	9.37E-03	1.07E-02	8.25E-02
1.21E+01	1.35E-07	4.02E-01	6.72E-03	3.60E-03	7.65E-03	9.21E-03	1.05E-02	8.85E-02
1.28E+01	1.34E-07	3.95E-01	6.82E-03	3.50E-03	7.55E-03	9.06E-03	1.04E-02	9.75E-02
1.35E+01	1.33E-07	3.88E-01	6.86E-03	3.41E-03	7.41E-03	8.89E-03	1.02E-02	1.37E-01
1.43E+01	1.31E-07	3.81E-01	6.87E-03	3.32E-03	7.27E-03	8.74E-03	9.98E-03	2.29E-01
1.51E+01	1.30E-07	3.74E-01	6.83E-03	3.25E-03	7.24E-03	8.56E-03	9.82E-03	2.18E-01
1.60E+01	1.29E-07	3.66E-01	6.77E-03	3.17E-03	7.07E-03	8.42E-03	9.76E-03	2.22E-01
1.70E+01	1.27E-07	3.58E-01	6.66E-03	3.08E-03	6.93E-03	8.41E-03	9.89E-03	2.29E-01
1.80E+01	1.25E-07	3.50E-01	6.46E-03	2.99E-03	6.77E-03	8.19E-03	9.66E-03	1.86E-01
1.90E+01	1.24E-07	3.42E-01	6.27E-03	2.91E-03	6.62E-03	7.97E-03	9.48E-03	1.52E-01

2.01E+01 1.22E-07 3.33E-01 6.14E-03 2.82E-03 6.44E-03 7.77E-03 9.19E-03 2.05E-01



2.13E+01 1.20E-07 3.24E-01 5.96E-03 2.72E-03 6.21E-03 7.51E-03 8.81E-03 1.92E-01

2.25E+01 1.19E-07 3.15E-01 5.76E-03 2.61E-03 5.98E-03 7.20E-03 8.39E-03 1.74E-01

2.38E+01 1.17E-07 3.05E-01 5.56E-03 2.52E-03 5.79E-03 6.98E-03 8.14E-03 1.60E-01

2.52E+01 1.15E-07 2.95E-01 5.31E-03 2.42E-03 5.59E-03 6.73E-03 7.88E-03 1.37E-01

2.67E+01 1.13E-07 2.85E-01 5.08E-03 2.32E-03 5.38E-03 6.47E-03 7.61E-03 1.84E-01

2.82E+01 1.10E-07 2.75E-01 4.83E-03 2.22E-03 5.19E-03 6.21E-03 7.29E-03 1.53E-01

2.99E+01 1.08E-07 2.65E-01 4.57E-03 2.09E-03 4.98E-03 5.99E-03 7.19E-03 1.22E-01

3.00E+01 1.08E-07 2.64E-01 4.55E-03 2.08E-03 4.97E-03 5.98E-03 7.17E-03 1.20E-01



3.16E+01 1.06E-07 2.54E-01 4.40E-03 1.98E-03 4.78E-03 5.74E-03 6.87E-03 1.38E-01

3.35E+01 9.84E-09 2.44E-01 4.20E-03 1.88E-03 4.56E-03 5.47E-03 6.55E-03 1.47E-01

3.54E+01 9.41E-09 2.33E-01 3.99E-03 1.78E-03 4.35E-03 5.21E-03 6.43E-03 1.31E-01

3.75E+01 8.97E-09 2.22E-01 3.76E-03 1.67E-03 4.10E-03 4.92E-03 6.04E-03 1.15E-01

97E+01 8.53E-09 2.11E-01 3.54E-03 1.57E-03 3.88E-03 4.65E-03 5.62E-03 9.70E-02

4.20E+01 8.09E-09 2.00E-01 3.33E-03 1.46E-03 3.63E-03 4.38E-03 5.44E-03 9.52E-02

4.44E+01 7.64E-09 1.89E-01 3.06E-03 1.35E-03 3.42E-03 4.13E-03 5.14E-03 6.97E-02

4.70E+01 7.20E-09 1.78E-01 2.71E-03 1.24E-03 3.18E-03 3.86E-03 4.61E-03 4.91E-02



4.97E+01 6.76E-09 1.67E-01 2.48E-03 1.14E-03 2.91E-03 3.60E-03 4.40E-03 3.50E-02

5.26E+01 6.32E-09 1.56E-01 2.30E-03 1.04E-03 2.75E-03 3.36E-03 4.21E-03 2.77E-02

5.57E+01 5.89E-09 1.45E-01 2.16E-03 9.36E-04 2.51E-03 3.11E-03 3.92E-03 2.03E-02

9.0E+01 5.46E-09 1.34E-01 2.00E-03 8.43E-04 2.29E-03 2.87E-03 3.58E-03 4.18E-02

6.24E+01 5.05E-09 1.24E-01 1.89E-03 7.49E-04 2.10E-03 2.65E-03 3.31E-03 7.12E-02

60E+01 4.64E-09 1.14E-01 1.72E-03 6.60E-04 1.93E-03 2.43E-03 3.04E-03 5.66E-02

99E+01 4.24E-09 1.04E-01 1.59E-03 5.92E-04 1.77E-03 2.22E-03 2.78E-03 4.94E-02

7.39E+01 3.86E-09 9.46E-02 1.36E-03 5.29E-04 1.60E-03 2.01E-03 2.53E-03 2.86E-02



7.82E+01 3.50E-09 8.56E-02 1.17E-03 4.45E-04 1.41E-03 1.79E-03 2.07E-03 1.49E-02

8.28E+01 3.15E-09 7.69E-02 1.03E-03 3.96E-04 1.26E-03 1.59E-03 1.84E-03 7.64E-03

8.76E+01 2.82E-09 6.87E-02 8.93E-04 3.45E-04 1.12E-03 1.42E-03 1.73E-03 1.19E-02

9.27E+01 2.50E-09 6.10E-02 7.67E-04 2.96E-04 9.90E-04 1.26E-03 1.55E-03 1.51E-02

9.81E+01 1.62E-09 5.37E-02 6.44E-04 2.45E-04 8.67E-04 1.10E-03 1.37E-03 7.14E-03

1.00E+02 5.02E-14 5.14E-02 6.06E-04 2.30E-04 8.26E-04 1.06E-03 1.31E-03 3.00E-03

1.04E+02 0.00E+00 4.70E-02 5.36E-04 2.00E-04 7.45E-04 9.57E-04 1.12E-03 1.57E-03

1.10E+02 0.00E+00 4.08E-02 4.58E-04 1.66E-04 6.48E-04 8.34E-04 1.02E-03 1.40E-03



1.16E+02 0.00E+00 3.51E-02 3.90E-04 1.37E-04 5.58E-04 7.11E-04 8.68E-04 1.30E-03

1.23E+02 0.00E+00 3.00E-02 3.32E-04 1.14E-04 4.75E-04 6.16E-04 7.75E-04 1.41E-03

1.30E+02 0.00E+00 2.54E-02 2.81E-04 9.02E-05 3.98E-04 5.25E-04 6.98E-04 1.19E-03

1.38E+02 0.00E+00 2.12E-02 2.32E-04 7.03E-05 3.35E-04 4.37E-04 5.75E-04 9.95E-04

1.46E+02 0.00E+00 1.76E-02 1.92E-04 5.71E-05 2.77E-04 3.64E-04 4.96E-04 8.65E-04

1.54E+02 0.00E+00 1.44E-02 1.60E-04 4.49E-05 2.36E-04 3.08E-04 4.08E-04 8.09E-04

1.63E+02 0.00E+00 1.17E-02 1.27E-04 3.28E-05 1.92E-04 2.50E-04 3.58E-04 7.01E-04

1.73E+02 0.00E+00 9.37E-03 1.04E-04 2.66E-05 1.61E-04 2.02E-04 3.32E-04 7.59E-04



1.83E+02 0.00E+00 7.40E-03 8.34E-05 2.02E-05 1.32E-04 1.73E-04 2.71E-04 6.17E-04

1.94E+02 0.00E+00 5.77E-03 7.05E-05 1.52E-05 1.07E-04 1.69E-04 3.13E-04 7.38E-04

2.05E+02 0.00E+00 4.43E-03 6.13E-05 1.19E-05 9.01E-05 1.58E-04 3.37E-04 1.09E-03

2.17E+02 0.00E+00 3.36E-03 5.78E-05 9.15E-06 7.44E-05 1.48E-04 4.78E-04 1.27E-03

2.29E+02 0.00E+00 2.52E-03 5.75E-05 6.34E-06 6.68E-05 1.63E-04 6.45E-04 1.49E-03

2.43E+02 0.00E+00 1.83E-03 4.51E-05 4.03E-06 5.42E-05 1.64E-04 5.53E-04 1.09E-03

2.57E+02 0.00E+00 1.31E-03 3.24E-05 2.31E-06 3.51E-05 1.23E-04 3.53E-04 9.43E-04

2.72E+02 0.00E+00 9.25E-04 2.40E-05 1.44E-06 2.48E-05 8.52E-05 2.68E-04 7.46E-04



2.88E+02 0.00E+00 6.39E-04 1.66E-05 8.00E-07 1.55E-05 5.50E-05 1.90E-04 4.80E-04

3.00E+02 0.00E+00 4.80E-04 1.32E-05 5.08E-07 1.23E-05 3.90E-05 1.71E-04 3.80E-04

3.05E+02 0.00E+00 4.32E-04 1.20E-05 4.29E-07 1.16E-05 4.18E-05 1.62E-04 3.57E-04

3.22E+02 0.00E+00 2.85E-04 7.79E-06 2.57E-07 6.73E-06 3.10E-05 9.74E-05 2.26E-04

3.41E+02 0.00E+00 1.84E-04 5.05E-06 1.41E-07 4.27E-06 2.08E-05 5.90E-05 1.47E-04

3.61E+02 0.00E+00 1.16E-04 3.16E-06 7.05E-08 2.63E-06 1.48E-05 4.29E-05 8.77E-05

3.82E+02 0.00E+00 7.18E-05 2.04E-06 3.91E-08 1.55E-06 8.20E-06 2.80E-05 5.92E-05

4.04E+02 0.00E+00 4.28E-05 1.13E-06 2.01E-08 9.14E-07 3.85E-06 1.57E-05 3.49E-05



4.28E+02 0.00E+00 2.47E-05 6.28E-07 1.03E-08 5.03E-07 2.04E-06 8.57E-06 2.01E-05

4.53E+02 0.00E+00 1.38E-05 3.49E-07 5.45E-09 2.91E-07 1.22E-06 4.60E-06 1.11E-05

4.79E+02 0.00E+00 7.49E-06 2.03E-07 2.81E-09 1.61E-07 6.99E-07 2.47E-06 5.87E-06

5.07E+02 0.00E+00 4.11E-06 1.10E-07 1.40E-09 9.02E-08 3.72E-07 1.61E-06 3.29E-06

5.36E+02 0.00E+00 2.06E-06 5.36E-08 6.30E-10 4.41E-08 2.16E-07 6.37E-07 1.63E-06

5.68E+02 0.00E+00 9.95E-07 2.67E-08 2.74E-10 2.04E-08 9.56E-08 3.81E-07 8.31E-07

0.01E+02 0.00E+00 4.60E-07 1.30E-08 1.13E-10 1.00E-08 4.82E-08 2.13E-07 3.86E-07

6.36E+02 0.00E+00 2.03E-07 5.71E-09 4.47E-11 4.40E-09 2.11E-08 9.65E-08 1.68E-07



6.73E+02 0.00E+00 8.90E-08 2.46E-09 1.68E-11 1.83E-09 8.17E-09 4.38E-08 7.12E-08

7.12E+02 0.00E+00 3.51E-08 1.02E-09 6.12E-12 8.14E-10 4.50E-09 1.75E-08 2.87E-08

7.53E+02 0.00E+00 1.31E-08 3.93E-10 2.06E-12 2.65E-10 1.60E-09 6.78E-09 1.10E-08

7.97E+02 0.00E+00 4.72E-09 1.39E-10 6.35E-13 9.57E-11 5.11E-10 2.35E-09 3.94E-09

8.44E+02 0.00E+00 1.60E-09 4.48E-11 1.89E-13 3.00E-11 1.53E-10 7.75E-10 1.36E-09

93E+02 0.00E+00 5.08E-10 1.46E-11 5.58E-14 8.97E-12 5.24E-11 2.43E-10 4.53E-10

9.45E+02 0.00E+00 1.72E-10 4.48E-12 1.53E-14 2.33E-12 1.62E-11 8.04E-11 1.36E-10

1.00E+03 0.00E+00 4.82E-11 1.16E-12 3.79E-15 6.06E-13 4.45E-12 1.85E-11 3.72E-11



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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 CS-137.RAD

Summary of dose at graphical times, reptition 3

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	9.31E-07	1.94E-02	5.88E-03	5.73E-03	1.13E-02	1.29E-02	1.39E-02	1.44E-02
1.00E+00	9.18E-07	1.76E-02	5.56E-03	5.43E-03	1.07E-02	1.22E-02	1.32E-02	1.41E-02
1.06E+00	9.18E-07	1.75E-02	5.55E-03	5.42E-03	1.06E-02	1.22E-02	1.31E-02	1.40E-02
1.12E+00	9.17E-07	1.74E-02	5.53E-03	5.40E-03	1.06E-02	1.21E-02	1.31E-02	1.40E-02
1.19E+00	9.16E-07	1.72E-02	5.52E-03	5.39E-03	1.06E-02	1.21E-02	1.31E-02	1.40E-02
1.25E+00	9.15E-07	1.71E-02	5.50E-03	5.38E-03	1.05E-02	1.21E-02	1.31E-02	1.39E-02
1.33E+00	9.14E-07	1.70E-02	5.48E-03	5.36E-03	1.05E-02	1.21E-02	1.30E-02	1.39E-02
1.40E+00	9.13E-07	1.69E-02	5.46E-03	5.33E-03	1.05E-02	1.20E-02	1.30E-02	1.38E-02
1.49E+00	9.12E-07	1.67E-02	5.44E-03	5.31E-03	1.05E-02	1.20E-02	1.30E-02	1.38E-02
1.57E+00	9.11E-07	1.66E-02	5.43E-03	5.29E-03	1.05E-02	1.20E-02	1.30E-02	1.38E-02
1.66E+00	9.10E-07	1.64E-02	5.41E-03	5.27E-03	1.04E-02	1.20E-02	1.30E-02	1.37E-02
1.76E+00	9.09E-07	1.63E-02	5.39E-03	5.25E-03	1.04E-02	1.19E-02	1.30E-02	1.38E-02
1.86E+00	9.08E-07	1.69E-02	5.36E-03	5.22E-03	1.04E-02	1.19E-02	1.29E-02	1.37E-02
1.97E+00	9.06E-07	1.84E-02	5.34E-03	5.20E-03	1.03E-02	1.19E-02	1.29E-02	1.37E-02
2.09E+00	9.05E-07	1.88E-02	5.32E-03	5.18E-03	1.03E-02	1.18E-02	1.29E-02	1.37E-02
2.21E+00	9.03E-07	1.90E-02	5.29E-03	5.16E-03	1.03E-02	1.17E-02	1.28E-02	1.37E-02
2.24E+00	9.02E-07	2.13E-02	5.26E-03	5.13E-03	1.03E-02	1.17E-02	1.28E-02	1.36E-02
2.27E+00	9.00E-07	2.19E-02	5.23E-03	5.09E-03	1.02E-02	1.17E-02	1.27E-02	1.36E-02
2.262E+00	8.99E-07	2.19E-02	5.20E-03	5.05E-03	1.02E-02	1.16E-02	1.27E-02	1.35E-02
2.277E+00	8.97E-07	2.19E-02	5.17E-03	5.02E-03	1.01E-02	1.16E-02	1.26E-02	1.34E-02
2.293E+00	8.95E-07	2.21E-02	5.14E-03	5.00E-03	1.01E-02	1.15E-02	1.25E-02	1.33E-02
3.00E+00	8.94E-07	2.22E-02	5.12E-03	4.97E-03	1.01E-02	1.15E-02	1.25E-02	1.33E-02
3.310E+00	8.93E-07	2.25E-02	5.10E-03	4.94E-03	1.00E-02	1.15E-02	1.25E-02	1.32E-02
3.328E+00	8.91E-07	2.35E-02	5.07E-03	4.91E-03	1.00E-02	1.15E-02	1.24E-02	1.32E-02
3.48E+00	8.88E-07	2.52E-02	5.04E-03	4.87E-03	9.95E-03	1.14E-02	1.24E-02	1.31E-02
3.68E+00	8.86E-07	2.81E-02	5.00E-03	4.83E-03	9.90E-03	1.13E-02	1.23E-02	1.31E-02
3.89E+00	8.84E-07	3.34E-02	4.97E-03	4.80E-03	9.85E-03	1.13E-02	1.22E-02	1.30E-02
4.12E+00	8.81E-07	4.32E-02	4.94E-03	4.74E-03	9.78E-03	1.12E-02	1.23E-02	1.29E-02
4.36E+00	8.78E-07	6.22E-02	4.93E-03	4.68E-03	9.72E-03	1.12E-02	1.23E-02	1.30E-02
4.61E+00	8.76E-07	1.01E-01	4.95E-03	4.63E-03	9.66E-03	1.11E-02	1.22E-02	1.29E-02
4.88E+00	8.73E-07	1.84E-01	5.04E-03	4.58E-03	9.56E-03	1.11E-02	1.20E-02	1.29E-02
5.17E+00	8.69E-07	2.80E-01	5.19E-03	4.51E-03	9.48E-03	1.10E-02	1.19E-02	1.27E-02
5.47E+00	8.66E-07	3.62E-01	5.44E-03	4.47E-03	9.36E-03	1.09E-02	1.19E-02	1.28E-02
5.578E+00	8.63E-07	4.03E-01	5.71E-03	4.41E-03	9.36E-03	1.08E-02	1.17E-02	1.27E-02
6.12E+00	8.59E-07	4.11E-01	5.95E-03	4.37E-03	9.30E-03	1.07E-02	1.18E-02	1.26E-02
6.48E+00	8.55E-07	4.18E-01	6.15E-03	4.33E-03	9.20E-03	1.06E-02	1.17E-02	1.25E-02
6.86E+00	8.51E-07	4.04E-01	6.34E-03	4.28E-03	9.13E-03	1.05E-02	1.16E-02	1.25E-02
7.26E+00	8.47E-07	4.07E-01	6.47E-03	4.23E-03	9.03E-03	1.04E-02	1.15E-02	1.30E-02
7.68E+00	8.43E-07	4.29E-01	6.59E-03	4.17E-03	8.94E-03	1.03E-02	1.14E-02	1.54E-02
8.13E+00	8.38E-07	4.18E-01	6.76E-03	4.11E-03	8.75E-03	1.02E-02	1.12E-02	2.02E-02
8.60E+00	8.34E-07	4.10E-01	6.88E-03	4.05E-03	8.64E-03	1.01E-02	1.11E-02	2.99E-02
9.10E+00	8.29E-07	4.33E-01	6.95E-03	3.99E-03	8.57E-03	9.92E-03	1.09E-02	5.01E-02
9.63E+00	8.24E-07	4.27E-01	7.05E-03	3.92E-03	8.54E-03	9.78E-03	1.09E-02	9.36E-02
1.00E+01	8.21E-07	4.23E-01	7.12E-03	3.88E-03	8.45E-03	9.72E-03	1.08E-02	1.49E-01
1.02E+01	8.19E-07	4.21E-01	7.16E-03	3.85E-03	8.41E-03	9.70E-03	1.08E-02	1.93E-01
1.08E+01	8.13E-07	4.15E-01	7.27E-03	3.78E-03	8.31E-03	9.56E-03	1.07E-02	2.29E-01
1.14E+01	8.08E-07	4.08E-01	7.31E-03	3.69E-03	8.18E-03	9.47E-03	1.06E-02	2.47E-01
1.21E+01	8.02E-07	4.02E-01	7.26E-03	3.60E-03	8.07E-03	9.39E-03	1.05E-02	2.23E-01
1.28E+01	7.96E-07	3.95E-01	7.22E-03	3.52E-03	7.91E-03	9.21E-03	1.03E-02	2.10E-01
1.35E+01	7.90E-07	3.87E-01	7.14E-03	3.42E-03	7.82E-03	9.02E-03	1.01E-02	2.21E-01
1.43E+01	7.84E-07	3.80E-01	7.06E-03	3.34E-03	7.64E-03	8.95E-03	1.01E-02	2.52E-01
1.51E+01	7.78E-07	3.72E-01	6.92E-03	3.25E-03	7.46E-03	8.78E-03	9.99E-03	2.46E-01
1.60E+01	2.47E-07	3.64E-01	6.72E-03	3.17E-03	7.30E-03	8.53E-03	9.76E-03	2.25E-01
1.70E+01	5.03E-08	3.55E-01	6.44E-03	3.10E-03	7.13E-03	8.41E-03	9.64E-03	2.05E-01
1.80E+01	4.91E-08	3.47E-01	6.22E-03	3.02E-03	6.96E-03	8.22E-03	9.42E-03	1.89E-01
1.90E+01	4.80E-08	3.38E-01	6.12E-03	2.91E-03	6.75E-03	7.81E-03	9.02E-03	1.72E-01

2.01E+01 4.68E-08 3.28E-01 5.97E-03 2.82E-03 6.54E-03 7.60E-03 8.67E-03 1.79E-01

2.13E+01 4.55E-08 3.19E-01 5.65E-03 2.71E-03 6.35E-03 7.57E-03 8.49E-03 1.59E-01

2.25E+01 4.42E-08 3.09E-01 5.37E-03 2.61E-03 6.12E-03 7.17E-03 8.13E-03 1.53E-01

2.38E+01 4.29E-08 2.99E-01 5.01E-03 2.51E-03 5.91E-03 6.95E-03 7.85E-03 1.34E-01

2.52E+01 4.16E-08 2.89E-01 4.71E-03 2.41E-03 5.71E-03 6.72E-03 7.57E-03 1.15E-01



2.67E+01 4.02E-08 2.79E-01 4.50E-03 2.28E-03 5.50E-03 6.45E-03 7.20E-03 9.61E-02

2.82E+01 3.87E-08 2.68E-01 4.32E-03 2.19E-03 5.30E-03 6.25E-03 6.98E-03 7.78E-02

2.99E+01 3.73E-08 2.57E-01 4.09E-03 2.08E-03 5.08E-03 5.97E-03 6.68E-03 9.79E-02

3.00E+01 3.72E-08 2.56E-01 4.07E-03 2.08E-03 5.06E-03 5.95E-03 6.66E-03 1.03E-01

3.16E+01 3.58E-08 2.46E-01 3.93E-03 1.97E-03 4.83E-03 5.65E-03 6.38E-03 1.11E-01

3.35E+01 3.43E-08 2.35E-01 3.77E-03 1.86E-03 4.62E-03 5.34E-03 6.06E-03 1.01E-01

3.54E+01 3.28E-08 2.24E-01 3.40E-03 1.75E-03 4.39E-03 5.12E-03 5.78E-03 8.39E-02

3.75E+01 3.13E-08 2.13E-01 3.23E-03 1.64E-03 4.16E-03 4.84E-03 5.46E-03 6.88E-02



3.97E+01 2.98E-08 2.01E-01 3.00E-03 1.53E-03 3.99E-03 4.60E-03 5.18E-03 5.46E-02

4.20E+01 2.82E-08 1.90E-01 2.81E-03 1.43E-03 3.75E-03 4.38E-03 4.90E-03 4.45E-02

4.44E+01 2.67E-08 1.79E-01 2.67E-03 1.33E-03 3.56E-03 4.14E-03 4.94E-03 5.82E-02

4.70E+01 2.51E-08 1.68E-01 2.61E-03 1.23E-03 3.33E-03 3.90E-03 4.67E-03 5.10E-02

4.97E+01 2.36E-08 1.56E-01 2.39E-03 1.13E-03 3.11E-03 3.68E-03 4.37E-03 6.59E-02

5.26E+01 2.20E-08 1.46E-01 2.21E-03 1.02E-03 2.90E-03 3.36E-03 4.05E-03 4.95E-02

5.57E+01 2.05E-08 1.35E-01 1.97E-03 9.27E-04 2.68E-03 3.19E-03 3.84E-03 3.28E-02

5.90E+01 1.91E-08 1.24E-01 1.77E-03 8.31E-04 2.47E-03 2.93E-03 3.55E-03 2.78E-02



6.24E+01 1.76E-08 1.14E-01 1.64E-03 7.37E-04 2.27E-03 2.72E-03 3.27E-03 2.34E-02

6.0E+01 1.62E-08 1.04E-01 1.48E-03 6.49E-04 2.07E-03 2.50E-03 3.00E-03 2.19E-02

99E+01 4.52E-09 9.46E-02 1.32E-03 5.79E-04 1.88E-03 2.28E-03 2.74E-03 2.12E-02

7.39E+01 6.95E-10 8.54E-02 1.18E-03 5.10E-04 1.70E-03 2.06E-03 2.48E-03 2.43E-02

7.82E+01 9.59E-11 7.69E-02 1.09E-03 4.45E-04 1.53E-03 1.87E-03 2.23E-03 1.80E-02

1.28E+01 1.18E-11 6.88E-02 9.75E-04 3.84E-04 1.37E-03 1.66E-03 2.00E-03 1.68E-02

8.76E+01 1.28E-12 6.29E-02 8.96E-04 3.24E-04 1.23E-03 1.48E-03 1.82E-03 1.43E-02

9.27E+01 1.23E-13 5.40E-02 7.63E-04 2.78E-04 1.08E-03 1.32E-03 1.64E-03 1.11E-02



9.81E+01 1.02E-14 4.73E-02 6.05E-04 2.29E-04 9.36E-04 1.15E-03 1.42E-03 5.37E-03

1.00E+02 4.32E-15 4.52E-02 5.81E-04 2.15E-04 8.96E-04 1.10E-03 1.36E-03 6.77E-03

1.04E+02 0.00E+00 4.11E-02 5.34E-04 1.90E-04 8.18E-04 1.00E-03 1.25E-03 7.05E-03

1.10E+02 0.00E+00 3.55E-02 4.81E-04 1.63E-04 7.08E-04 8.71E-04 1.09E-03 5.48E-03

1.16E+02 0.00E+00 3.03E-02 4.24E-04 1.37E-04 6.08E-04 7.53E-04 9.74E-04 4.44E-03

1.23E+02 0.00E+00 2.57E-02 3.44E-04 1.10E-04 5.09E-04 6.39E-04 8.26E-04 3.18E-03

1.30E+02 0.00E+00 2.16E-02 2.98E-04 8.97E-05 4.35E-04 5.41E-04 7.29E-04 2.52E-03

1.38E+02 0.00E+00 2.00E-02 2.56E-04 7.11E-05 3.62E-04 4.52E-04 6.16E-04 3.44E-03



1.46E+02 0.00E+00 1.65E-02 2.15E-04 5.55E-05 2.97E-04 3.79E-04 5.10E-04 4.25E-03

1.54E+02 0.00E+00 1.35E-02 1.79E-04 4.50E-05 2.42E-04 3.11E-04 4.39E-04 3.21E-03

1.63E+02 0.00E+00 1.09E-02 1.39E-04 3.62E-05 2.01E-04 2.60E-04 4.13E-04 8.70E-04

1.73E+02 0.00E+00 8.67E-03 1.12E-04 2.82E-05 1.68E-04 2.13E-04 3.60E-04 8.10E-04

1.83E+02 0.00E+00 6.81E-03 9.14E-05 2.10E-05 1.40E-04 1.95E-04 3.71E-04 8.29E-04

1.94E+02 0.00E+00 5.28E-03 7.66E-05 1.72E-05 1.10E-04 1.90E-04 3.92E-04 8.82E-04

2.05E+02 0.00E+00 4.03E-03 6.68E-05 1.23E-05 8.80E-05 1.89E-04 4.44E-04 1.22E-03

2.17E+02 0.00E+00 3.03E-03 6.54E-05 9.08E-06 7.52E-05 2.01E-04 5.61E-04 1.63E-03



2.29E+02 0.00E+00 2.36E-03 5.93E-05 6.53E-06 6.12E-05 1.87E-04 7.00E-04 1.47E-03

2.43E+02 0.00E+00 1.63E-03 4.32E-05 3.97E-06 4.04E-05 1.52E-04 5.26E-04 1.13E-03

2.57E+02 0.00E+00 1.16E-03 3.08E-05 2.34E-06 3.13E-05 1.09E-04 4.16E-04 7.89E-04

2.72E+02 0.00E+00 9.47E-04 2.43E-05 1.45E-06 2.27E-05 9.00E-05 2.76E-04 6.03E-04

2.88E+02 0.00E+00 6.44E-04 1.71E-05 8.84E-07 1.69E-05 7.21E-05 2.38E-04 4.15E-04

3.00E+02 0.00E+00 4.81E-04 1.28E-05 5.95E-07 1.30E-05 4.75E-05 1.83E-04 3.06E-04

3.05E+02 0.00E+00 4.28E-04 1.11E-05 5.13E-07 1.14E-05 3.92E-05 1.29E-04 2.82E-04

3.22E+02 0.00E+00 2.92E-04 7.26E-06 2.99E-07 7.33E-06 2.76E-05 8.47E-05 1.86E-04



3.41E+02 0.00E+00 1.88E-04 4.67E-06 1.76E-07 4.48E-06 1.76E-05 6.82E-05 1.17E-04

3.61E+02 0.00E+00 1.19E-04 3.11E-06 9.62E-08 2.96E-06 1.17E-05 4.77E-05 7.35E-05

3.82E+02 0.00E+00 7.28E-05 1.89E-06 5.13E-08 1.80E-06 7.34E-06 2.81E-05 4.58E-05

4.04E+02 0.00E+00 4.34E-05 1.08E-06 2.58E-08 9.57E-07 4.34E-06 1.59E-05 2.89E-05

4.28E+02 0.00E+00 2.51E-05 5.57E-07 1.13E-08 5.35E-07 1.92E-06 7.98E-06 1.39E-05

4.53E+02 0.00E+00 1.40E-05 3.32E-07 5.67E-09 2.90E-07 1.05E-06 4.66E-06 8.16E-06

4.79E+02 0.00E+00 7.61E-06 1.71E-07 2.86E-09 1.75E-07 5.72E-07 2.30E-06 4.33E-06

5.07E+02 0.00E+00 3.97E-06 8.62E-08 1.29E-09 8.84E-08 3.08E-07 1.15E-06 2.49E-06



5.36E+02 0.00E+00 2.00E-06 4.63E-08 5.78E-10 4.52E-08 1.75E-07 6.62E-07 1.21E-06

5.68E+02 0.00E+00 9.66E-07 2.11E-08 2.35E-10 1.85E-08 1.08E-07 2.42E-07 5.68E-07

0.01E+02 0.00E+00 4.48E-07 9.29E-09 9.65E-11 8.03E-09 3.20E-08 1.24E-07 2.42E-07

6.36E+02 0.00E+00 1.98E-07 4.67E-09 3.85E-11 3.47E-09 1.90E-08 7.19E-08 1.24E-07

6.73E+02 0.00E+00 8.38E-08 1.70E-09 1.39E-11 1.33E-09 5.67E-09 2.40E-08 4.81E-08

7.12E+02 0.00E+00 3.37E-08 6.33E-10 5.02E-12 5.31E-10 2.03E-09 8.75E-09 1.78E-08

7.53E+02 0.00E+00 1.28E-08 2.43E-10 1.73E-12 1.85E-10 5.67E-10 3.54E-09 7.92E-09

7.97E+02 0.00E+00 4.62E-09 8.79E-11 5.79E-13 6.91E-11 2.31E-10 1.20E-09 2.77E-09



8.44E+02 0.00E+00 1.68E-09 3.19E-11 1.74E-13 2.35E-11 1.17E-10 4.36E-10 9.58E-10

93E+02 0.00E+00 5.39E-10 1.03E-11 5.24E-14 7.56E-12 5.00E-11 1.28E-10 2.97E-10

9.45E+02 0.00E+00 1.61E-10 2.94E-12 1.37E-14 2.21E-12 1.31E-11 3.63E-11 8.78E-11

1.00E+03 0.00E+00 4.51E-11 7.63E-13 3.38E-15 5.45E-13 3.08E-12 9.98E-12 2.30E-11

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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 CS-137.RAD

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

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	1.141E+01	6.883E-03
2	1.431E+01	6.870E-03
3	1.141E+01	7.314E-03

Title : RESRAD Default Parameters  
 Input File : FCS BURIED PIPE INSITU UA CS-137.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	1	1	1	1

Description of Probabilistic Variable

	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	11	0.01	11	0.01	10	0.01	10	0.01
Contaminated zone b parameter	18	0.00	18	0.00	15	0.00	15	0.00
Evapotranspiration coefficient	4	0.04	4	0.02	13	0.01	13	0.01
Wind Speed	10	-0.01	10	-0.01	5	-0.05	5	-0.04
Runoff coefficient	17	0.00	17	0.00	4	0.05	4	0.05
b Parameter of Unsaturated zone 1	16	0.00	16	0.00	11	-0.01	11	-0.01
Mass loading for inhalation	12	0.01	12	0.01	18	0.00	18	0.00
Indoor dust filtration factor	2	0.04	2	0.02	12	-0.01	12	-0.01
Depth of soil mixing layer	13	0.01	13	0.00	8	-0.02	8	-0.02
Depth of roots	14	0.01	14	0.00	17	0.00	17	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	0.01	9	0.01	2	-0.06	2	-0.06
Weathering removal constant of all vegetation	7	0.04	7	0.02	7	0.03	7	0.03
Wet foliar interception fraction of leafy vegetables	6	0.04	6	0.02	16	0.00	16	0.00
Humidity in air	3	-0.04	3	-0.02	6	-0.04	6	-0.04
Kd of Cs-137 in Contaminated Zone	5	0.04	5	0.02	3	-0.06	3	-0.06
Kd of Cs-137 in Saturated Zone	15	-0.01	15	0.00	9	0.02	9	0.02
Cover erosion rate	1	0.88	1	0.88	1	0.15	1	0.15
Well pump intake depth	8	0.02	8	0.01	14	0.01	14	0.01

R-SQUARE 0.77 0.77 0.04 0.04

-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 CS-137.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
Contaminated zone erosion rate	7 -0.03	7 -0.02	11 0.01	11 0.01
Contaminated zone b parameter	2 -0.06	2 -0.03	5 -0.05	5 -0.05
Evapotranspiration coefficient	3 0.06	3 0.03	12 -0.01	12 -0.01
Wind Speed	11 -0.03	11 -0.01	18 0.00	18 0.00
Runoff coefficient	18 0.00	18 0.00	13 0.01	13 0.01
b Parameter of Unsaturated zone 1	6 -0.04	6 -0.02	7 -0.02	7 -0.02
Mass loading for inhalation	14 -0.02	14 -0.01	2 -0.07	2 -0.07
Indoor dust filtration factor	15 -0.01	15 -0.01	9 -0.02	9 -0.02
Depth of soil mixing layer	10 0.03	10 0.02	8 0.02	8 0.02
Depth of roots	9 0.03	9 0.02	17 0.00	17 0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	13 0.02	13 0.01	6 0.04	6 0.04
Weathering removal constant of all vegetation	16 -0.01	16 0.00	15 0.01	15 0.01
Wet foliar interception fraction of leafy vegetables	5 0.04	5 0.02	10 -0.02	10 -0.01
Humidity in air	4 0.04	4 0.02	16 0.01	16 0.01
Kd of Cs-137 in Contaminated Zone	8 0.03	8 0.02	3 -0.07	3 -0.07
Kd of Cs-137 in Saturated Zone	17 0.01	17 0.00	14 -0.01	14 -0.01
Cover erosion rate	1 0.87	1 0.86	1 0.14	1 0.14
Well pump intake depth	12 -0.02	12 -0.01	4 -0.05	4 -0.05
R-SQUARE	0.75	0.75	0.04	0.04

-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 CS-137.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	15	0.01	15	0.00	11	0.01	11	0.01
Contaminated zone b parameter	14	0.01	14	0.00	12	-0.01	12	-0.01
Evapotranspiration coefficient	6	0.04	6	0.01	17	0.01	17	0.01
Wind Speed	10	-0.02	10	-0.01	18	0.00	18	0.00
Runoff coefficient	3	0.05	3	0.02	14	0.01	14	0.01
b Parameter of Unsaturated zone 1	7	-0.03	7	-0.01	6	-0.04	6	-0.04
Mass loading for inhalation	17	-0.01	17	0.00	13	-0.01	13	-0.01
Indoor dust filtration factor	5	-0.04	5	-0.01	4	-0.04	4	-0.04
Depth of soil mixing layer	9	0.03	9	0.01	9	0.02	9	0.02
Depth of roots	2	0.09	2	0.03	8	0.02	8	0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	-0.01	13	0.00	15	-0.01	15	-0.01
Weathering removal constant of all vegetation	16	0.01	16	0.00	3	0.04	3	0.04
Wet foliar interception fraction of leafy vegetables	4	-0.04	4	-0.02	16	-0.01	16	-0.01
Humidity in air	18	0.00	18	0.00	2	0.06	2	0.06
Kd of Cs-137 in Contaminated Zone	12	0.02	12	0.01	10	-0.02	10	-0.02
Kd of Cs-137 in Saturated Zone	11	-0.02	11	-0.01	7	-0.03	7	-0.03
Cover erosion rate	1	0.94	1	0.94	1	0.16	1	0.16
Well pump intake depth	8	0.03	8	0.01	5	-0.04	5	-0.04
R-SQUARE		0.88		0.88		0.04		0.04

-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.