

Probabilistic results summary : RESRAD Default Parameters

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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	6.72	3.22																
17	DCACTS(1)	LOGNORMAL-N	6.72	3.22																
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
Eu-154										
Min	0.00E+00	9.90E-07	9.90E-07	9.16E-07	3.00E-08	2.59E-09	1.19E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.04E+02	6.20E-01	1.54E-02	1.29E-02	1.08E-02	4.54E-01	9.73E-02	3.74E-04	5.65E-11	0.00E+00
Avg	1.95E+00	7.47E-03	1.74E-04	1.21E-04	1.08E-04	3.47E-03	6.49E-04	2.24E-06	1.36E-12	0.00E+00
Std	8.64E+00	5.46E-02	5.76E-04	4.16E-04	4.13E-04	3.46E-02	6.48E-03	2.45E-05	6.57E-12	0.00E+00
ALL										
Min	0.00E+00	9.90E-07	9.90E-07	9.16E-07	3.00E-08	2.59E-09	1.19E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.04E+02	6.20E-01	1.54E-02	1.29E-02	1.08E-02	4.54E-01	9.73E-02	3.74E-04	5.65E-11	0.00E+00
Avg	1.95E+00	7.47E-03	1.74E-04	1.21E-04	1.08E-04	3.47E-03	6.49E-04	2.24E-06	1.36E-12	0.00E+00
Std	8.64E+00	5.46E-02	5.76E-04	4.16E-04	4.13E-04	3.46E-02	6.48E-03	2.45E-05	6.57E-12	0.00E+00

ALL is total dose summed for all nuclides.

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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
Eu-154									
Min		2.34E-11	2.17E-11	1.05E-12	1.17E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.17E-06	3.50E-07	4.29E-07	1.09E-05	2.31E-06	8.86E-09	1.34E-15	0.00E+00
Avg		1.20E-08	4.87E-09	4.01E-09	7.76E-08	1.51E-08	5.39E-11	3.21E-17	0.00E+00
Std		6.24E-08	1.29E-08	1.44E-08	7.84E-07	1.50E-07	5.83E-10	1.55E-16	0.00E+00
ALL									
Min		2.34E-11	2.17E-11	1.05E-12	1.17E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.17E-06	3.50E-07	4.29E-07	1.09E-05	2.31E-06	8.86E-09	1.34E-15	0.00E+00
Avg		1.20E-08	4.87E-09	4.01E-09	7.76E-08	1.51E-08	5.39E-11	3.21E-17	0.00E+00
Std		6.24E-08	1.29E-08	1.44E-08	7.84E-07	1.50E-07	5.83E-10	1.55E-16	0.00E+00

ALL is total risk summed for all nuclides.

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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
Eu-154								
Min	4.17E-08	4.03E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.99E-06	3.95E-05	3.86E-03	4.54E-01	9.72E-02	3.74E-04	5.64E-11	0.00E+00
Avg	9.75E-07	1.04E-06	9.31E-06	3.42E-03	6.41E-04	2.22E-06	1.36E-12	0.00E+00
Std	2.45E-07	1.88E-06	1.33E-04	3.46E-02	6.48E-03	2.45E-05	6.57E-12	0.00E+00
ALL								
Min	4.17E-08	4.03E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	3.99E-06	3.95E-05	3.86E-03	4.54E-01	9.72E-02	3.74E-04	5.64E-11	0.00E+00
Avg	9.75E-07	1.04E-06	9.31E-06	3.42E-03	6.41E-04	2.22E-06	1.36E-12	0.00E+00
Std	2.45E-07	1.88E-06	1.33E-04	3.46E-02	6.48E-03	2.45E-05	6.57E-12	0.00E+00

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
Eu-154								
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	4.40E-10	2.63E-07	4.44E-08	1.36E-09	1.31E-16	0.00E+00
Avg	0.00E+00	0.00E+00	2.94E-13	9.73E-10	1.76E-10	1.62E-12	8.55E-19	0.00E+00
Std	0.00E+00	0.00E+00	1.14E-11	1.18E-08	2.25E-09	3.64E-11	5.00E-18	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	4.40E-10	2.63E-07	4.44E-08	1.36E-09	1.31E-16	0.00E+00
Avg	0.00E+00	0.00E+00	2.94E-13	9.73E-10	1.76E-10	1.62E-12	8.55E-19	0.00E+00
Std	0.00E+00	0.00E+00	1.14E-11	1.18E-08	2.25E-09	3.64E-11	5.00E-18	0.00E+00

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							
	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
Eu-154								
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
Eu-154								
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-04	1.08E-04	1.30E-04	7.06E-05	2.48E-05	6.74E-08	1.86E-14	0.00E+00
Avg	4.32E-05	3.81E-05	3.12E-05	1.64E-05	3.01E-06	1.06E-08	1.33E-15	0.00E+00
Std	3.00E-05	2.80E-05	2.44E-05	1.41E-05	2.98E-06	1.24E-08	2.21E-15	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	1.16E-04	1.08E-04	1.30E-04	7.06E-05	2.48E-05	6.74E-08	1.86E-14	0.00E+00
Avg	4.32E-05	3.81E-05	3.12E-05	1.64E-05	3.01E-06	1.06E-08	1.33E-15	0.00E+00
Std	3.00E-05	2.80E-05	2.44E-05	1.41E-05	2.98E-06	1.24E-08	2.21E-15	0.00E+00

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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
Eu-154								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	6.74E-07	6.24E-07	7.56E-07	1.63E-05	3.06E-06	5.71E-08	5.49E-15	0.00E+00
Avg	2.53E-07	2.22E-07	1.81E-07	1.68E-07	3.30E-08	1.43E-10	6.71E-17	0.00E+00
Std	1.74E-07	1.62E-07	1.41E-07	7.65E-07	1.76E-07	1.57E-09	2.83E-16	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	6.74E-07	6.24E-07	7.56E-07	1.63E-05	3.06E-06	5.71E-08	5.49E-15	0.00E+00
Avg	2.53E-07	2.22E-07	1.81E-07	1.68E-07	3.30E-08	1.43E-10	6.71E-17	0.00E+00
Std	1.74E-07	1.62E-07	1.41E-07	7.65E-07	1.76E-07	1.57E-09	2.83E-16	0.00E+00

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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
Eu-154								
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	1.57E-07	1.45E-07	1.79E-07	1.63E-06	3.20E-07	5.72E-09	5.50E-16	0.00E+00
Avg	5.86E-08	5.15E-08	4.21E-08	2.95E-08	5.61E-09	2.24E-11	7.72E-18	0.00E+00
Std	4.05E-08	3.77E-08	3.29E-08	7.97E-08	1.81E-08	1.58E-10	2.88E-17	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	1.57E-07	1.45E-07	1.79E-07	1.63E-06	3.20E-07	5.72E-09	5.50E-16	0.00E+00
Avg	5.86E-08	5.15E-08	4.21E-08	2.95E-08	5.61E-09	2.24E-11	7.72E-18	0.00E+00
Std	4.05E-08	3.77E-08	3.29E-08	7.97E-08	1.81E-08	1.58E-10	2.88E-17	0.00E+00

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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
Eu-154								
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	2.55E-08	1.16E-05	2.10E-06	4.06E-08	3.91E-15	0.00E+00
Avg	0.00E+00	0.00E+00	1.70E-11	5.30E-08	1.11E-08	5.82E-11	4.24E-17	0.00E+00
Std	0.00E+00	0.00E+00	6.57E-10	5.42E-07	1.23E-07	1.11E-09	1.99E-16	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	2.55E-08	1.16E-05	2.10E-06	4.06E-08	3.91E-15	0.00E+00
Avg	0.00E+00	0.00E+00	1.70E-11	5.30E-08	1.11E-08	5.82E-11	4.24E-17	0.00E+00
Std	0.00E+00	0.00E+00	6.57E-10	5.42E-07	1.23E-07	1.11E-09	1.99E-16	0.00E+00

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Water 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
Eu-154								
Min	6.55E-11	6.07E-11	5.23E-11	3.09E-11	1.10E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.48E-02	1.16E-02	9.70E-03	2.83E-03	2.12E-04	2.90E-07	1.27E-14	0.00E+00
Avg	1.19E-04	7.43E-05	6.19E-05	3.04E-05	4.36E-06	8.71E-09	6.49E-16	0.00E+00
Std	5.43E-04	3.80E-04	3.58E-04	1.34E-04	1.51E-05	2.27E-08	1.29E-15	0.00E+00
ALL								
Min	6.55E-11	6.07E-11	5.23E-11	3.09E-11	1.10E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.48E-02	1.16E-02	9.70E-03	2.83E-03	2.12E-04	2.90E-07	1.27E-14	0.00E+00
Avg	1.19E-04	7.43E-05	6.19E-05	3.04E-05	4.36E-06	8.71E-09	6.49E-16	0.00E+00
Std	5.43E-04	3.80E-04	3.58E-04	1.34E-04	1.51E-05	2.27E-08	1.29E-15	0.00E+00

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
Eu-154								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.RAD

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

Nuclide	DOSE(i,j,t), mrem/yr							
	(j) t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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
Eu-154								
Min	1.10E-11	1.03E-11	8.92E-12	5.44E-12	7.74E-29	0.00E+00	0.00E+00	0.00E+00
Max	6.32E-04	1.20E-03	1.01E-03	2.62E-04	1.79E-05	2.22E-08	2.13E-15	0.00E+00
Avg	9.94E-06	6.63E-06	5.51E-06	2.66E-06	3.86E-07	7.47E-10	6.01E-17	0.00E+00
Std	3.77E-05	3.72E-05	3.46E-05	1.24E-05	1.41E-06	1.94E-09	1.45E-16	0.00E+00
ALL								
Min	1.10E-11	1.03E-11	8.92E-12	5.44E-12	7.74E-29	0.00E+00	0.00E+00	0.00E+00
Max	6.32E-04	1.20E-03	1.01E-03	2.62E-04	1.79E-05	2.22E-08	2.13E-15	0.00E+00
Avg	9.94E-06	6.63E-06	5.51E-06	2.66E-06	3.86E-07	7.47E-10	6.01E-17	0.00E+00
Std	3.77E-05	3.72E-05	3.46E-05	1.24E-05	1.41E-06	1.94E-09	1.45E-16	0.00E+00

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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
Eu-154								
Min	4.06E-13	3.76E-13	3.24E-13	1.91E-13	7.91E-30	0.00E+00	0.00E+00	0.00E+00
Max	6.51E-05	5.67E-05	5.10E-05	1.46E-05	1.03E-06	1.24E-09	5.99E-17	0.00E+00
Avg	6.00E-07	3.53E-07	2.93E-07	1.44E-07	2.05E-08	4.07E-11	3.08E-18	0.00E+00
Std	2.61E-06	1.81E-06	1.76E-06	6.48E-07	7.07E-08	1.03E-10	6.11E-18	0.00E+00
ALL								
Min	4.06E-13	3.76E-13	3.24E-13	1.91E-13	7.91E-30	0.00E+00	0.00E+00	0.00E+00
Max	6.51E-05	5.67E-05	5.10E-05	1.46E-05	1.03E-06	1.24E-09	5.99E-17	0.00E+00
Avg	6.00E-07	3.53E-07	2.93E-07	1.44E-07	2.05E-08	4.07E-11	3.08E-18	0.00E+00
Std	2.61E-06	1.81E-06	1.76E-06	6.48E-07	7.07E-08	1.03E-10	6.11E-18	0.00E+00

ALL is total pathway dose summed for all nuclides.



Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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
Eu-154								
Min	7.17E-14	6.65E-14	5.73E-14	3.38E-14	1.07E-30	0.00E+00	0.00E+00	0.00E+00
Max	8.94E-06	9.50E-06	8.35E-06	2.35E-06	1.66E-07	1.87E-10	9.55E-18	0.00E+00
Avg	9.19E-08	5.62E-08	4.67E-08	2.28E-08	3.27E-09	6.45E-12	4.92E-19	0.00E+00
Std	3.85E-07	2.98E-07	2.85E-07	1.04E-07	1.13E-08	1.63E-11	9.85E-19	0.00E+00
ALL								
Min	7.17E-14	6.65E-14	5.73E-14	3.38E-14	1.07E-30	0.00E+00	0.00E+00	0.00E+00
Max	8.94E-06	9.50E-06	8.35E-06	2.35E-06	1.66E-07	1.87E-10	9.55E-18	0.00E+00
Avg	9.19E-08	5.62E-08	4.67E-08	2.28E-08	3.27E-09	6.45E-12	4.92E-19	0.00E+00
Std	3.85E-07	2.98E-07	2.85E-07	1.04E-07	1.13E-08	1.63E-11	9.85E-19	0.00E+00

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose(t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	1.09E-06	1.03E-06	9.01E-07	5.18E-07	3.36E-08	2.78E-12	0.00E+00	0.00E+00
0.050	1.51E-06	1.44E-06	1.17E-06	6.80E-07	1.16E-07	7.54E-11	2.44E-21	0.00E+00
0.075	2.31E-06	2.29E-06	1.85E-06	9.11E-07	1.86E-07	2.01E-10	1.01E-18	0.00E+00
0.100	4.49E-06	4.45E-06	3.45E-06	1.47E-06	2.52E-07	4.59E-10	4.87E-18	0.00E+00
0.125	1.31E-05	1.04E-05	7.60E-06	2.80E-06	3.78E-07	8.46E-10	1.32E-17	0.00E+00
0.150	2.91E-05	2.42E-05	1.49E-05	4.68E-06	5.52E-07	1.25E-09	2.73E-17	0.00E+00
0.175	3.60E-05	3.27E-05	2.70E-05	7.34E-06	7.83E-07	1.75E-09	4.92E-17	0.00E+00
0.200	3.82E-05	3.44E-05	2.87E-05	1.06E-05	1.06E-06	2.36E-09	6.93E-17	0.00E+00
0.225	3.97E-05	3.63E-05	3.02E-05	1.57E-05	1.46E-06	3.18E-09	1.04E-16	0.00E+00
0.250	4.18E-05	3.79E-05	3.16E-05	1.66E-05	2.22E-06	4.01E-09	1.51E-16	0.00E+00
0.275	4.41E-05	4.01E-05	3.30E-05	1.74E-05	2.82E-06	5.48E-09	2.39E-16	0.00E+00
0.300	4.60E-05	4.21E-05	3.48E-05	1.81E-05	3.28E-06	7.55E-09	3.44E-16	0.00E+00
0.325	4.74E-05	4.34E-05	3.62E-05	1.89E-05	3.49E-06	9.28E-09	5.00E-16	0.00E+00
0.350	4.98E-05	4.53E-05	3.75E-05	1.97E-05	3.66E-06	1.15E-08	7.08E-16	0.00E+00
0.375	5.25E-05	4.77E-05	3.92E-05	2.05E-05	3.78E-06	1.32E-08	1.03E-15	0.00E+00
0.400	5.48E-05	4.98E-05	4.10E-05	2.11E-05	3.93E-06	1.42E-08	1.29E-15	0.00E+00
0.425	5.73E-05	5.20E-05	4.26E-05	2.19E-05	4.12E-06	1.52E-08	1.66E-15	0.00E+00
0.450	5.96E-05	5.44E-05	4.46E-05	2.31E-05	4.33E-06	1.62E-08	1.96E-15	0.00E+00
0.475	6.24E-05	5.67E-05	4.61E-05	2.41E-05	4.50E-06	1.74E-08	2.23E-15	0.00E+00
0.500	6.54E-05	5.92E-05	4.83E-05	2.50E-05	4.64E-06	1.83E-08	2.51E-15	0.00E+00
0.525	6.83E-05	6.18E-05	4.99E-05	2.63E-05	4.83E-06	1.94E-08	2.82E-15	0.00E+00
0.550	7.19E-05	6.44E-05	5.20E-05	2.73E-05	5.04E-06	2.09E-08	3.20E-15	0.00E+00
0.575	7.58E-05	6.75E-05	5.46E-05	2.88E-05	5.31E-06	2.24E-08	3.60E-15	0.00E+00
0.600	8.04E-05	7.08E-05	5.74E-05	3.01E-05	5.60E-06	2.37E-08	3.94E-15	0.00E+00
0.625	8.51E-05	7.56E-05	6.01E-05	3.19E-05	5.92E-06	2.54E-08	4.65E-15	0.00E+00
0.650	8.90E-05	8.01E-05	6.40E-05	3.35E-05	6.23E-06	2.77E-08	5.38E-15	0.00E+00
0.675	9.40E-05	8.29E-05	6.66E-05	3.50E-05	6.62E-06	2.99E-08	6.59E-15	0.00E+00
0.700	9.97E-05	8.86E-05	6.96E-05	3.74E-05	7.01E-06	3.22E-08	7.78E-15	0.00E+00
0.725	1.06E-04	9.26E-05	7.36E-05	3.92E-05	7.45E-06	3.44E-08	9.54E-15	0.00E+00
0.750	1.12E-04	9.79E-05	7.79E-05	4.11E-05	8.05E-06	3.68E-08	1.37E-14	0.00E+00
0.775	1.18E-04	1.02E-04	8.19E-05	4.39E-05	8.52E-06	4.01E-08	1.88E-14	0.00E+00
0.800	1.30E-04	1.07E-04	8.55E-05	4.60E-05	9.15E-06	4.40E-08	3.23E-14	0.00E+00
0.825	1.53E-04	1.16E-04	9.11E-05	4.97E-05	9.74E-06	4.90E-08	6.95E-14	0.00E+00
0.850	1.79E-04	1.31E-04	9.73E-05	5.29E-05	1.05E-05	5.41E-08	1.44E-13	0.00E+00
0.875	2.47E-04	1.58E-04	1.13E-04	5.97E-05	1.17E-05	6.08E-08	2.92E-13	0.00E+00
0.900	3.26E-04	2.02E-04	1.42E-04	7.70E-05	1.50E-05	7.27E-08	6.13E-13	0.00E+00
0.925	4.42E-04	2.47E-04	2.07E-04	1.16E-04	2.35E-05	9.67E-08	1.75E-12	0.00E+00
0.950	6.70E-04	3.64E-04	2.98E-04	2.63E-04	4.39E-05	1.31E-07	5.96E-12	0.00E+00
0.975	1.14E-03	5.85E-04	5.20E-04	7.16E-04	1.08E-04	1.85E-07	1.69E-11	0.00E+00
1.000	1.54E-02	1.29E-02	1.08E-02	4.54E-01	9.73E-02	3.74E-04	5.65E-11	0.00E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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	9.99E-07	5.23E-03	1.66E-04	6.53E-05	3.26E-04	6.98E-04	1.21E-03	2.03E-03
1.00E+00	9.23E-07	3.75E-03	1.20E-04	5.86E-05	1.84E-04	3.93E-04	6.40E-04	1.61E-03
1.06E+00	9.19E-07	3.73E-03	1.19E-04	5.84E-05	1.83E-04	4.00E-04	6.31E-04	1.61E-03
1.12E+00	9.15E-07	3.82E-03	1.19E-04	5.80E-05	1.83E-04	4.02E-04	5.95E-04	1.62E-03
1.19E+00	9.10E-07	3.93E-03	1.18E-04	5.77E-05	1.84E-04	3.89E-04	5.76E-04	1.58E-03
1.25E+00	8.38E-07	4.04E-03	1.17E-04	5.73E-05	1.80E-04	3.76E-04	5.82E-04	1.61E-03
1.33E+00	5.79E-07	4.15E-03	1.16E-04	5.69E-05	1.74E-04	3.62E-04	5.88E-04	1.63E-03
1.40E+00	3.97E-07	4.27E-03	1.16E-04	5.63E-05	1.66E-04	3.70E-04	5.94E-04	1.63E-03
1.49E+00	2.71E-07	4.39E-03	1.15E-04	5.57E-05	1.60E-04	3.68E-04	6.00E-04	1.65E-03
1.57E+00	1.86E-07	4.51E-03	1.14E-04	5.50E-05	1.67E-04	3.50E-04	6.07E-04	1.69E-03
1.66E+00	1.30E-07	4.64E-03	1.14E-04	5.48E-05	1.60E-04	3.31E-04	6.13E-04	1.73E-03
1.76E+00	9.41E-08	4.76E-03	1.13E-04	5.42E-05	1.54E-04	3.00E-04	6.20E-04	1.78E-03
1.86E+00	7.18E-08	4.90E-03	1.12E-04	5.37E-05	1.53E-04	3.08E-04	6.27E-04	1.82E-03
1.97E+00	5.82E-08	5.03E-03	1.12E-04	5.30E-05	1.53E-04	2.97E-04	6.33E-04	1.85E-03
2.09E+00	5.02E-08	5.16E-03	1.11E-04	5.21E-05	1.57E-04	2.88E-04	6.02E-04	1.87E-03
2.21E+00	4.55E-08	5.30E-03	1.11E-04	5.17E-05	1.50E-04	2.88E-04	6.29E-04	1.90E-03
2.24E+00	4.28E-08	5.43E-03	1.11E-04	5.12E-05	1.49E-04	2.90E-04	6.53E-04	1.92E-03
2.27E+00	4.11E-08	5.54E-03	1.11E-04	5.07E-05	1.49E-04	2.93E-04	6.60E-04	1.94E-03
2.26E+00	4.01E-08	5.60E-03	1.11E-04	5.00E-05	1.46E-04	2.98E-04	6.63E-04	1.96E-03
2.27E+00	3.93E-08	5.61E-03	1.12E-04	4.93E-05	1.43E-04	2.95E-04	6.57E-04	2.14E-03
2.29E+00	3.87E-08	5.56E-03	1.13E-04	4.84E-05	1.39E-04	2.95E-04	6.67E-04	2.19E-03
3.00E+00	3.85E-08	5.53E-03	1.14E-04	4.80E-05	1.38E-04	2.96E-04	7.04E-04	2.21E-03
3.31E+00	3.82E-08	5.45E-03	1.16E-04	4.74E-05	1.37E-04	2.95E-04	7.19E-04	2.21E-03
3.32E+00	3.76E-08	7.48E-03	1.21E-04	4.66E-05	1.35E-04	2.88E-04	7.85E-04	2.22E-03
3.48E+00	3.71E-08	1.16E-02	1.29E-04	4.55E-05	1.33E-04	3.03E-04	7.85E-04	2.22E-03
3.68E+00	3.65E-08	1.84E-02	1.44E-04	4.47E-05	1.29E-04	3.03E-04	7.83E-04	2.36E-03
3.89E+00	3.60E-08	3.01E-02	1.69E-04	4.39E-05	1.26E-04	3.04E-04	7.82E-04	2.39E-03
4.12E+00	3.54E-08	5.05E-02	2.14E-04	4.28E-05	1.25E-04	3.04E-04	7.76E-04	2.94E-03
4.36E+00	3.48E-08	8.72E-02	2.96E-04	4.17E-05	1.21E-04	3.03E-04	8.09E-04	2.89E-03
4.61E+00	3.42E-08	1.56E-01	4.46E-04	4.07E-05	1.20E-04	3.02E-04	7.99E-04	2.83E-03
4.88E+00	3.35E-08	2.94E-01	7.46E-04	3.93E-05	1.23E-04	2.95E-04	8.90E-04	2.78E-03
5.17E+00	3.27E-08	4.43E-01	1.09E-03	3.81E-05	1.16E-04	2.99E-04	9.32E-04	2.73E-03
5.47E+00	3.18E-08	5.60E-01	1.40E-03	3.71E-05	1.10E-04	2.91E-04	9.25E-04	3.20E-03
5.78E+00	3.08E-08	6.04E-01	1.63E-03	3.55E-05	1.07E-04	2.91E-04	9.17E-04	2.98E-03
6.12E+00	3.00E-08	5.69E-01	1.84E-03	3.44E-05	1.05E-04	2.91E-04	9.08E-04	4.20E-03
6.48E+00	2.92E-08	5.33E-01	2.24E-03	3.35E-05	1.02E-04	2.87E-04	9.19E-04	6.50E-03
6.86E+00	2.84E-08	4.96E-01	2.74E-03	3.22E-05	1.04E-04	2.86E-04	8.87E-04	1.04E-02
7.26E+00	2.75E-08	4.92E-01	3.07E-03	3.12E-05	9.69E-05	3.19E-04	9.22E-04	1.70E-02
7.68E+00	2.33E-08	5.59E-01	3.17E-03	3.00E-05	9.12E-05	3.05E-04	1.08E-03	2.87E-02
8.13E+00	1.40E-08	5.31E-01	3.14E-03	2.88E-05	8.77E-05	2.91E-04	1.06E-03	5.01E-02
8.60E+00	8.38E-09	5.02E-01	3.27E-03	2.75E-05	8.41E-05	2.79E-04	1.04E-03	9.03E-02
9.10E+00	5.15E-09	4.72E-01	3.42E-03	2.65E-05	8.26E-05	2.62E-04	1.16E-03	1.68E-01
9.63E+00	3.32E-09	4.43E-01	3.55E-03	2.54E-05	7.74E-05	2.72E-04	1.18E-03	2.59E-01
1.00E+01	2.59E-09	4.23E-01	3.56E-03	2.45E-05	7.63E-05	2.69E-04	1.12E-03	2.32E-01
1.02E+01	2.32E-09	4.24E-01	3.53E-03	2.41E-05	7.50E-05	2.68E-04	1.09E-03	2.18E-01
1.08E+01	1.77E-09	3.94E-01	3.31E-03	2.29E-05	7.05E-05	2.63E-04	9.70E-04	1.77E-01
1.14E+01	1.47E-09	3.56E-01	3.15E-03	2.17E-05	6.62E-05	2.57E-04	8.38E-04	1.44E-01
1.21E+01	1.29E-09	3.26E-01	3.14E-03	2.06E-05	6.30E-05	2.39E-04	8.22E-04	1.77E-01
1.28E+01	1.17E-09	2.98E-01	2.78E-03	1.94E-05	6.01E-05	2.21E-04	7.57E-04	1.48E-01
1.35E+01	1.09E-09	2.69E-01	2.35E-03	1.81E-05	5.72E-05	2.03E-04	7.21E-04	1.19E-01
1.43E+01	1.01E-09	3.32E-01	2.34E-03	1.69E-05	5.05E-05	1.99E-04	4.83E-04	9.20E-02
1.51E+01	9.46E-10	3.04E-01	2.14E-03	1.57E-05	4.75E-05	1.92E-04	4.57E-04	8.69E-02
1.60E+01	8.82E-10	2.75E-01	2.04E-03	1.46E-05	4.40E-05	1.87E-04	4.46E-04	1.36E-01
1.70E+01	8.20E-10	2.53E-01	1.96E-03	1.35E-05	4.05E-05	1.99E-04	5.45E-04	1.02E-01
1.80E+01	7.59E-10	2.20E-01	1.65E-03	1.25E-05	3.70E-05	1.76E-04	6.52E-04	6.93E-02
1.90E+01	7.00E-10	1.94E-01	1.41E-03	1.13E-05	3.29E-05	1.34E-04	4.01E-04	5.06E-02

2.01E+01 6.43E-10 1.69E-01 1.22E-03 1.03E-05 3.02E-05 1.11E-04 4.43E-04 8.67E-02

2.13E+01 1.95E-10 1.77E-01 1.17E-03 9.30E-06 2.71E-05 8.51E-05 3.43E-04 6.57E-02

2.25E+01 1.50E-12 1.62E-01 9.47E-04 8.33E-06 2.48E-05 7.45E-05 2.98E-04 3.37E-02

2.38E+01 3.40E-15 1.35E-01 7.29E-04 7.51E-06 2.23E-05 6.71E-05 3.14E-04 7.94E-03

2.52E+01 5.38E-18 1.10E-01 6.00E-04 6.86E-06 1.98E-05 5.37E-05 2.23E-04 1.02E-02



2.67E+01 5.86E-21 8.68E-02 5.14E-04 5.99E-06 1.75E-05 4.42E-05 1.76E-04 1.71E-02

2.82E+01 4.29E-24 6.42E-02 4.52E-04 5.31E-06 1.50E-05 3.86E-05 1.30E-04 2.57E-02

2.99E+01 2.06E-27 5.43E-02 4.07E-04 4.69E-06 1.29E-05 3.78E-05 9.64E-05 1.86E-02

3.00E+01 1.19E-27 5.69E-02 4.07E-04 4.65E-06 1.27E-05 3.75E-05 9.55E-05 1.81E-02

3.16E+01 0.00E+00 7.84E-02 3.80E-04 4.09E-06 1.14E-05 2.96E-05 8.41E-05 1.33E-02

3.35E+01 0.00E+00 6.03E-02 2.89E-04 3.53E-06 9.85E-06 2.37E-05 7.28E-05 9.61E-03

3.54E+01 0.00E+00 4.45E-02 1.98E-04 3.01E-06 8.34E-06 1.84E-05 6.25E-05 4.21E-03

3.75E+01 0.00E+00 3.01E-02 1.51E-04 2.53E-06 7.01E-06 1.53E-05 5.04E-05 1.35E-03



3.97E+01 0.00E+00 1.85E-02 1.24E-04 2.11E-06 5.83E-06 1.25E-05 3.35E-05 1.31E-04

4.20E+01 0.00E+00 3.17E-02 1.17E-04 1.76E-06 4.87E-06 9.40E-06 3.01E-05 1.72E-04

4.44E+01 0.00E+00 2.42E-02 7.85E-05 1.45E-06 3.99E-06 6.82E-06 2.30E-05 5.59E-05

4.70E+01 0.00E+00 1.81E-02 5.87E-05 1.19E-06 3.26E-06 6.06E-06 1.80E-05 6.46E-05

4.97E+01 0.00E+00 1.31E-02 4.31E-05 9.64E-07 2.67E-06 4.90E-06 1.36E-05 8.11E-05

5.26E+01 0.00E+00 9.19E-03 3.11E-05 7.63E-07 2.14E-06 3.90E-06 9.48E-06 1.04E-04

5.57E+01 0.00E+00 5.99E-03 2.19E-05 5.95E-07 1.68E-06 3.07E-06 6.09E-06 1.35E-04

5.90E+01 0.00E+00 3.62E-03 1.56E-05 4.64E-07 1.30E-06 2.36E-06 4.65E-06 1.78E-04



6.24E+01 0.00E+00 2.24E-03 1.24E-05 3.50E-07 9.95E-07 1.65E-06 3.40E-06 2.40E-04

60E+01 0.00E+00 1.57E-03 7.53E-06 2.63E-07 7.55E-07 1.15E-06 2.55E-06 3.18E-04

99E+01 0.00E+00 9.75E-04 4.50E-06 1.95E-07 5.56E-07 7.81E-07 1.66E-06 1.29E-04

7.39E+01 0.00E+00 6.56E-04 3.64E-06 1.41E-07 3.97E-07 5.37E-07 1.20E-06 6.07E-05

7.82E+01 0.00E+00 9.53E-04 3.49E-06 1.00E-07 2.90E-07 3.99E-07 8.69E-07 1.47E-05

8.28E+01 0.00E+00 1.52E-03 4.30E-06 6.96E-08 2.06E-07 2.89E-07 5.21E-07 1.70E-05

8.76E+01 0.00E+00 9.28E-04 3.08E-06 4.75E-08 1.50E-07 2.17E-07 3.64E-07 2.00E-05

9.27E+01 0.00E+00 5.44E-04 2.35E-06 3.15E-08 1.06E-07 1.72E-07 2.69E-07 8.85E-06



9.81E+01 0.00E+00 3.08E-04 1.33E-06 2.06E-08 7.14E-08 1.28E-07 1.85E-07 9.95E-06

1.00E+02 0.00E+00 2.51E-04 1.09E-06 1.77E-08 6.41E-08 1.12E-07 1.71E-07 1.04E-05

1.04E+02 0.00E+00 1.63E-04 7.17E-07 1.31E-08 5.34E-08 8.77E-08 1.48E-07 7.81E-06

1.10E+02 0.00E+00 7.44E-05 3.69E-07 8.25E-09 3.84E-08 6.29E-08 1.26E-07 3.91E-06

1.16E+02 0.00E+00 3.75E-05 1.83E-07 5.08E-09 2.46E-08 4.73E-08 1.02E-07 1.87E-06

1.23E+02 0.00E+00 2.07E-05 1.00E-07 2.99E-09 1.53E-08 3.74E-08 8.74E-08 1.61E-06

1.30E+02 0.00E+00 2.09E-05 8.04E-08 1.72E-09 9.51E-09 2.47E-08 6.80E-08 3.73E-07

1.38E+02 0.00E+00 2.01E-05 6.70E-08 9.56E-10 6.01E-09 1.95E-08 5.75E-08 1.56E-07



1.46E+02 0.00E+00 1.07E-05 4.21E-08 5.06E-10 4.05E-09 1.55E-08 4.83E-08 1.16E-07

1.54E+02 0.00E+00 5.46E-06 1.93E-08 2.58E-10 2.64E-09 1.18E-08 2.97E-08 6.63E-08

1.63E+02 0.00E+00 2.69E-06 1.20E-08 1.28E-10 1.79E-09 7.88E-09 2.40E-08 5.62E-08

1.73E+02 0.00E+00 1.27E-06 6.26E-09 6.24E-11 1.18E-09 5.76E-09 1.93E-08 4.72E-08

1.83E+02 0.00E+00 5.74E-07 2.87E-09 2.81E-11 7.66E-10 4.24E-09 1.53E-08 3.93E-08

1.94E+02 0.00E+00 2.48E-07 1.36E-09 1.26E-11 4.68E-10 3.08E-09 1.19E-08 2.92E-08

2.05E+02 0.00E+00 1.02E-07 8.02E-10 5.24E-12 2.89E-10 2.13E-09 8.25E-09 1.89E-08

2.17E+02 0.00E+00 3.98E-08 4.75E-10 2.13E-12 1.76E-10 1.48E-09 5.58E-09 1.46E-08



2.29E+02 0.00E+00 1.47E-08 2.70E-10 7.86E-13 1.03E-10 9.09E-10 3.78E-09 1.07E-08

2.43E+02 0.00E+00 5.12E-09 1.10E-10 2.75E-13 5.23E-11 4.97E-10 1.75E-09 3.92E-09

2.57E+02 0.00E+00 1.68E-09 4.45E-11 8.68E-14 2.07E-11 1.36E-10 8.31E-10 1.60E-09

2.72E+02 0.00E+00 5.16E-10 1.26E-11 2.55E-14 5.19E-12 3.50E-11 2.24E-10 4.85E-10

2.88E+02 0.00E+00 1.48E-10 3.67E-12 6.94E-15 1.88E-12 1.22E-11 4.33E-11 1.40E-10

3.00E+02 0.00E+00 5.64E-11 1.37E-12 2.54E-15 7.75E-13 6.02E-12 1.42E-11 5.39E-11

3.05E+02 0.00E+00 3.95E-11 9.57E-13 1.81E-15 6.26E-13 4.96E-12 9.95E-12 3.71E-11

3.22E+02 0.00E+00 9.76E-12 2.64E-13 4.34E-16 1.78E-13 1.34E-12 3.73E-12 9.12E-12



3.41E+02 0.00E+00 2.22E-12 6.68E-14 9.08E-17 4.67E-14 3.29E-13 1.17E-12 2.07E-12

3.61E+02 0.00E+00 4.64E-13 1.33E-14 1.79E-17 9.12E-15 5.79E-14 1.89E-13 4.30E-13

3.82E+02 0.00E+00 8.85E-14 3.00E-15 3.22E-18 1.37E-15 1.19E-14 5.99E-14 8.15E-14

4.04E+02 0.00E+00 1.56E-14 5.24E-16 4.84E-19 2.96E-16 3.09E-15 9.65E-15 1.49E-14

4.28E+02 0.00E+00 2.42E-15 8.68E-17 6.04E-20 4.70E-17 6.63E-16 1.40E-15 2.33E-15

4.53E+02 0.00E+00 3.38E-16 1.23E-17 7.48E-21 5.63E-18 1.08E-16 2.07E-16 3.26E-16

4.79E+02 0.00E+00 4.20E-17 1.52E-18 8.18E-22 5.93E-19 7.39E-18 3.15E-17 4.09E-17

5.07E+02 0.00E+00 4.66E-18 1.48E-19 7.58E-23 6.24E-20 9.45E-19 2.45E-18 4.51E-18



5.36E+02 0.00E+00 4.54E-19 1.66E-20 6.60E-24 7.87E-21 1.19E-19 2.97E-19 4.39E-19

5.68E+02 0.00E+00 3.99E-20 1.38E-21 4.16E-25 5.88E-22 8.03E-21 2.73E-20 3.75E-20

0.01E+02 0.00E+00 2.95E-21 9.76E-23 2.76E-26 4.18E-23 5.96E-22 1.99E-21 2.76E-21

6.36E+02 0.00E+00 1.87E-22 6.46E-24 1.53E-27 1.95E-24 3.68E-23 1.24E-22 1.74E-22

6.73E+02 0.00E+00 1.01E-23 3.36E-25 6.22E-29 1.19E-25 1.92E-24 6.26E-24 9.40E-24

7.12E+02 0.00E+00 4.62E-25 1.55E-26 1.17E-30 7.76E-27 7.88E-26 2.93E-25 4.27E-25

7.53E+02 0.00E+00 1.76E-26 5.77E-28 0.00E+00 3.87E-28 3.36E-27 9.73E-27 1.62E-26

7.97E+02 0.00E+00 5.54E-28 1.94E-29 0.00E+00 1.31E-29 1.09E-28 3.71E-28 5.08E-28



8.44E+02 0.00E+00 1.43E-29 4.99E-31 0.00E+00 0.00E+00 2.81E-30 9.98E-30 1.33E-29

9.93E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 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 results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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	9.97E-07	6.86E-03	1.66E-04	6.56E-05	3.15E-04	6.40E-04	1.12E-03	2.11E-03
1.00E+00	9.33E-07	1.29E-02	1.25E-04	5.89E-05	1.99E-04	3.50E-04	5.28E-04	7.91E-04
1.06E+00	9.29E-07	1.32E-02	1.24E-04	5.82E-05	1.96E-04	3.50E-04	5.20E-04	7.70E-04
1.12E+00	9.25E-07	1.35E-02	1.24E-04	5.78E-05	1.92E-04	3.47E-04	5.11E-04	7.85E-04
1.19E+00	8.43E-07	1.38E-02	1.24E-04	5.71E-05	1.90E-04	3.43E-04	5.01E-04	8.06E-04
1.25E+00	6.14E-07	1.41E-02	1.24E-04	5.68E-05	1.87E-04	3.40E-04	5.00E-04	8.28E-04
1.33E+00	4.41E-07	1.44E-02	1.24E-04	5.65E-05	1.82E-04	3.37E-04	4.93E-04	8.51E-04
1.40E+00	3.14E-07	1.46E-02	1.23E-04	5.61E-05	1.72E-04	3.34E-04	4.74E-04	8.75E-04
1.49E+00	2.22E-07	1.49E-02	1.23E-04	5.58E-05	1.66E-04	3.30E-04	4.59E-04	9.00E-04
1.57E+00	1.57E-07	1.50E-02	1.23E-04	5.52E-05	1.64E-04	3.26E-04	4.48E-04	9.25E-04
1.66E+00	1.13E-07	1.50E-02	1.22E-04	5.44E-05	1.62E-04	3.21E-04	4.39E-04	9.51E-04
1.76E+00	8.28E-08	1.50E-02	1.21E-04	5.42E-05	1.61E-04	3.17E-04	4.29E-04	9.79E-04
1.86E+00	6.30E-08	1.50E-02	1.20E-04	5.36E-05	1.61E-04	3.17E-04	4.22E-04	1.01E-03
1.97E+00	5.03E-08	1.48E-02	1.19E-04	5.32E-05	1.65E-04	3.12E-04	4.06E-04	1.04E-03
2.09E+00	4.24E-08	1.44E-02	1.17E-04	5.26E-05	1.61E-04	2.98E-04	3.92E-04	1.07E-03
2.21E+00	3.75E-08	1.40E-02	1.16E-04	5.20E-05	1.56E-04	3.20E-04	3.81E-04	1.10E-03
2.24E+00	3.45E-08	1.34E-02	1.14E-04	5.14E-05	1.57E-04	3.16E-04	4.46E-04	1.13E-03
2.27E+00	3.27E-08	1.28E-02	1.12E-04	5.09E-05	1.53E-04	2.96E-04	4.51E-04	1.16E-03
2.26E+00	3.15E-08	1.22E-02	1.11E-04	5.03E-05	1.51E-04	2.89E-04	4.48E-04	1.19E-03
2.27E+00	3.08E-08	1.16E-02	1.10E-04	4.95E-05	1.47E-04	2.86E-04	4.44E-04	1.23E-03
2.29E+00	3.02E-08	1.10E-02	1.09E-04	4.90E-05	1.43E-04	2.93E-04	4.40E-04	1.44E-03
3.00E+00	3.00E-08	1.08E-02	1.09E-04	4.85E-05	1.43E-04	2.90E-04	4.42E-04	1.64E-03
3.10E+00	2.97E-08	1.04E-02	1.10E-04	4.79E-05	1.40E-04	2.86E-04	4.54E-04	1.89E-03
3.28E+00	2.92E-08	9.82E-03	1.12E-04	4.71E-05	1.36E-04	2.79E-04	4.68E-04	1.85E-03
3.48E+00	2.88E-08	9.21E-03	1.16E-04	4.61E-05	1.33E-04	2.75E-04	4.66E-04	1.80E-03
3.68E+00	2.84E-08	8.61E-03	1.23E-04	4.50E-05	1.30E-04	2.72E-04	4.79E-04	1.76E-03
3.89E+00	2.79E-08	1.09E-02	1.37E-04	4.41E-05	1.28E-04	2.65E-04	4.82E-04	1.72E-03
4.12E+00	2.74E-08	1.74E-02	1.62E-04	4.27E-05	1.25E-04	2.63E-04	4.86E-04	1.91E-03
4.36E+00	2.70E-08	2.86E-02	2.05E-04	4.18E-05	1.21E-04	2.67E-04	4.99E-04	1.88E-03
4.61E+00	2.65E-08	4.83E-02	2.83E-04	4.10E-05	1.18E-04	2.66E-04	5.12E-04	1.85E-03
4.88E+00	2.60E-08	8.43E-02	4.25E-04	4.00E-05	1.17E-04	2.76E-04	5.57E-04	2.66E-03
5.17E+00	2.55E-08	1.52E-01	6.92E-04	3.89E-05	1.14E-04	2.80E-04	5.65E-04	3.93E-03
5.47E+00	2.49E-08	2.81E-01	1.21E-03	3.80E-05	1.20E-04	2.77E-04	5.86E-04	4.72E-03
5.78E+00	2.42E-08	4.56E-01	1.94E-03	3.69E-05	1.18E-04	2.69E-04	6.97E-04	4.25E-03
6.12E+00	2.34E-08	5.84E-01	2.53E-03	3.61E-05	1.13E-04	2.63E-04	7.42E-04	3.81E-03
6.48E+00	2.27E-08	6.15E-01	2.79E-03	3.49E-05	1.09E-04	2.55E-04	7.14E-04	3.40E-03
6.86E+00	2.20E-08	5.87E-01	2.90E-03	3.39E-05	1.04E-04	2.48E-04	6.86E-04	5.17E-03
7.26E+00	2.14E-08	5.58E-01	3.20E-03	3.25E-05	1.00E-04	2.56E-04	7.78E-04	8.12E-03
7.68E+00	2.07E-08	5.29E-01	3.50E-03	3.13E-05	9.89E-05	2.48E-04	7.70E-04	1.31E-02
8.13E+00	2.00E-08	5.23E-01	3.71E-03	3.00E-05	9.41E-05	2.44E-04	7.23E-04	2.19E-02
8.60E+00	1.93E-08	4.91E-01	3.90E-03	2.88E-05	8.72E-05	2.44E-04	6.76E-04	3.77E-02
9.10E+00	1.86E-08	5.02E-01	3.93E-03	2.76E-05	8.34E-05	2.40E-04	7.10E-04	6.69E-02
9.63E+00	1.78E-08	4.73E-01	3.84E-03	2.65E-05	8.01E-05	2.31E-04	6.60E-04	1.23E-01
1.00E+01	1.73E-08	4.54E-01	3.86E-03	2.57E-05	7.83E-05	2.24E-04	6.51E-04	1.92E-01
1.02E+01	1.71E-08	4.44E-01	3.91E-03	2.53E-05	7.66E-05	2.21E-04	6.80E-04	2.41E-01
1.08E+01	1.64E-08	4.15E-01	4.03E-03	2.41E-05	7.28E-05	2.13E-04	6.76E-04	3.43E-01
1.14E+01	1.56E-08	3.86E-01	4.07E-03	2.28E-05	7.51E-05	2.31E-04	6.12E-04	3.18E-01
1.21E+01	1.48E-08	3.76E-01	3.99E-03	2.15E-05	7.39E-05	2.33E-04	5.25E-04	2.91E-01
1.28E+01	1.11E-08	3.30E-01	3.68E-03	2.02E-05	7.08E-05	2.23E-04	4.59E-04	2.61E-01
1.35E+01	7.88E-09	3.00E-01	3.45E-03	1.88E-05	6.67E-05	2.14E-04	4.27E-04	2.30E-01
1.43E+01	5.76E-09	2.88E-01	3.36E-03	1.76E-05	6.16E-05	2.04E-04	4.34E-04	2.08E-01
1.51E+01	4.33E-09	3.14E-01	3.08E-03	1.65E-05	5.84E-05	1.92E-04	3.85E-04	1.77E-01
1.60E+01	3.33E-09	2.92E-01	2.77E-03	1.53E-05	5.57E-05	1.80E-04	3.49E-04	1.42E-01
1.70E+01	2.62E-09	2.70E-01	2.56E-03	1.41E-05	5.13E-05	1.69E-04	3.11E-04	1.20E-01
1.80E+01	2.10E-09	2.48E-01	2.18E-03	1.30E-05	4.86E-05	1.60E-04	3.01E-04	9.31E-02
1.90E+01	1.71E-09	2.27E-01	1.92E-03	1.19E-05	4.60E-05	1.42E-04	2.63E-04	1.18E-01

2.01E+01 1.42E-09 2.07E-01 1.57E-03 1.09E-05 4.11E-05 1.30E-04 2.86E-04 7.88E-02



2.13E+01 1.19E-09 1.88E-01 1.21E-03 9.87E-06 3.75E-05 1.10E-04 3.36E-04 4.17E-02

2.25E+01 1.02E-09 1.69E-01 9.17E-04 8.88E-06 3.41E-05 9.16E-05 1.88E-04 1.40E-02

2.38E+01 8.07E-10 1.52E-01 7.94E-04 7.88E-06 2.95E-05 6.89E-05 1.54E-04 2.41E-02

2.52E+01 7.23E-10 1.35E-01 7.24E-04 7.04E-06 2.69E-05 6.21E-05 1.36E-04 4.27E-02

2.67E+01 6.38E-10 1.19E-01 6.36E-04 6.23E-06 2.25E-05 5.37E-05 1.19E-04 2.66E-02

2.82E+01 5.63E-10 1.05E-01 5.40E-04 5.50E-06 1.97E-05 4.74E-05 1.08E-04 2.88E-02

2.99E+01 4.95E-10 9.14E-02 4.91E-04 4.78E-06 1.75E-05 4.27E-05 1.05E-04 2.08E-02

3.00E+01 4.91E-10 9.05E-02 4.92E-04 4.73E-06 1.74E-05 4.23E-05 1.04E-04 2.03E-02



3.16E+01 2.89E-10 7.97E-02 4.70E-04 4.11E-06 1.59E-05 3.52E-05 7.63E-05 1.41E-02

3.35E+01 5.93E-11 6.76E-02 3.93E-04 3.52E-06 1.28E-05 3.05E-05 7.32E-05 1.29E-02

3.54E+01 1.11E-11 5.74E-02 3.37E-04 2.98E-06 1.06E-05 2.55E-05 5.49E-05 9.81E-03

3.75E+01 1.87E-12 4.83E-02 2.70E-04 2.52E-06 8.90E-06 2.22E-05 4.59E-05 4.68E-03

3.97E+01 2.86E-13 4.01E-02 1.65E-04 2.10E-06 7.33E-06 1.79E-05 3.80E-05 7.51E-04

4.20E+01 3.91E-14 3.30E-02 1.25E-04 1.74E-06 5.70E-06 1.35E-05 2.25E-05 1.84E-04

4.44E+01 4.77E-15 2.69E-02 9.91E-05 1.42E-06 4.71E-06 1.08E-05 1.86E-05 2.44E-04

4.70E+01 5.14E-16 2.16E-02 9.04E-05 1.15E-06 3.76E-06 8.68E-06 1.53E-05 7.68E-05



4.97E+01 4.87E-17 1.71E-02 6.28E-05 9.30E-07 2.96E-06 6.61E-06 1.25E-05 9.79E-05

5.26E+01 4.02E-18 1.34E-02 3.74E-05 7.46E-07 2.37E-06 5.03E-06 9.97E-06 6.37E-05

5.57E+01 2.87E-19 1.03E-02 3.68E-05 5.94E-07 1.81E-06 3.71E-06 7.94E-06 8.03E-05

5.90E+01 1.76E-20 7.86E-03 3.09E-05 4.60E-07 1.41E-06 2.87E-06 6.20E-06 1.03E-04

6.24E+01 9.13E-22 5.87E-03 2.33E-05 3.51E-07 1.08E-06 2.10E-06 4.66E-06 1.44E-04

6.0E+01 4.00E-23 4.30E-03 1.87E-05 2.63E-07 8.19E-07 1.40E-06 3.40E-06 1.08E-04

99E+01 1.46E-24 4.04E-03 1.60E-05 1.98E-07 5.97E-07 1.01E-06 2.11E-06 3.83E-05

7.39E+01 4.39E-26 2.70E-03 1.19E-05 1.44E-07 4.44E-07 7.35E-07 1.45E-06 3.58E-05



7.82E+01 1.08E-27 1.74E-03 9.42E-06 1.03E-07 3.24E-07 5.25E-07 1.00E-06 1.98E-05

8.28E+01 2.03E-29 1.25E-03 6.99E-06 7.23E-08 2.40E-07 3.84E-07 6.73E-07 1.06E-05

8.76E+01 0.00E+00 6.98E-04 4.25E-06 4.99E-08 1.72E-07 2.76E-07 4.59E-07 1.10E-05

9.27E+01 0.00E+00 4.27E-04 2.46E-06 3.33E-08 1.26E-07 2.01E-07 2.97E-07 1.26E-05

9.81E+01 0.00E+00 2.64E-04 1.39E-06 2.18E-08 8.47E-08 1.46E-07 2.00E-07 1.45E-05

1.00E+02 0.00E+00 2.24E-04 1.14E-06 1.89E-08 7.44E-08 1.30E-07 1.82E-07 1.53E-05

1.04E+02 0.00E+00 2.42E-04 9.15E-07 1.39E-08 5.64E-08 9.84E-08 1.55E-07 7.70E-07

1.10E+02 0.00E+00 9.20E-05 2.48E-07 8.58E-09 4.02E-08 6.61E-08 1.01E-07 3.27E-07



1.16E+02 0.00E+00 5.14E-05 1.41E-07 5.17E-09 2.56E-08 4.63E-08 7.89E-08 1.43E-07

1.23E+02 0.00E+00 2.75E-05 7.48E-08 3.07E-09 1.74E-08 3.54E-08 6.22E-08 1.26E-07

1.30E+02 0.00E+00 1.41E-05 3.83E-08 1.78E-09 1.21E-08 2.58E-08 5.16E-08 1.11E-07

1.38E+02 0.00E+00 6.79E-06 1.93E-08 9.72E-10 6.80E-09 1.97E-08 4.26E-08 9.65E-08

1.46E+02 0.00E+00 3.07E-06 1.04E-08 5.20E-10 4.02E-09 1.41E-08 3.36E-08 7.69E-08

1.54E+02 0.00E+00 1.26E-06 6.22E-09 2.66E-10 2.62E-09 1.06E-08 2.73E-08 6.50E-08

1.63E+02 0.00E+00 4.41E-07 3.27E-09 1.33E-10 1.71E-09 8.08E-09 2.21E-08 5.48E-08

1.73E+02 0.00E+00 1.61E-07 1.88E-09 6.33E-11 1.12E-09 6.08E-09 1.76E-08 4.59E-08



1.83E+02 0.00E+00 1.45E-07 1.22E-09 2.90E-11 7.25E-10 4.51E-09 1.27E-08 3.75E-08

1.94E+02 0.00E+00 1.29E-07 9.13E-10 1.26E-11 4.59E-10 3.08E-09 9.60E-09 2.00E-08

2.05E+02 0.00E+00 8.18E-08 6.45E-10 5.22E-12 2.87E-10 2.17E-09 6.80E-09 1.30E-08

2.17E+02 0.00E+00 3.10E-08 4.20E-10 2.07E-12 1.76E-10 1.51E-09 4.56E-09 1.01E-08

2.29E+02 0.00E+00 1.11E-08 2.28E-10 7.76E-13 1.05E-10 1.01E-09 3.32E-09 7.56E-09

2.43E+02 0.00E+00 5.18E-09 1.03E-10 2.64E-13 3.71E-11 3.65E-10 1.60E-09 3.69E-09

2.57E+02 0.00E+00 1.70E-09 3.92E-11 8.54E-14 1.37E-11 1.52E-10 5.85E-10 1.18E-09

2.72E+02 0.00E+00 5.20E-10 1.22E-11 2.46E-14 5.72E-12 4.46E-11 1.90E-10 4.25E-10



2.88E+02 0.00E+00 1.49E-10 3.03E-12 6.76E-15 1.47E-12 9.70E-12 4.48E-11 1.09E-10

3.00E+02 0.00E+00 5.65E-11 1.31E-12 2.45E-15 5.23E-13 4.31E-12 2.65E-11 4.05E-11

3.05E+02 0.00E+00 3.95E-11 9.66E-13 1.71E-15 4.06E-13 3.44E-12 2.09E-11 3.28E-11

3.22E+02 0.00E+00 9.73E-12 2.47E-13 3.88E-16 1.20E-13 7.84E-13 4.27E-12 7.10E-12

3.41E+02 0.00E+00 2.26E-12 5.73E-14 7.88E-17 2.83E-14 1.67E-13 1.06E-12 1.87E-12

3.61E+02 0.00E+00 4.73E-13 1.22E-14 1.58E-17 7.03E-15 4.94E-14 1.94E-13 3.72E-13

3.82E+02 0.00E+00 9.02E-14 2.50E-15 2.85E-18 1.45E-15 1.39E-14 3.80E-14 8.00E-14

4.04E+02 0.00E+00 1.56E-14 4.97E-16 4.30E-19 3.62E-16 3.26E-15 8.37E-15 1.38E-14



4.28E+02 0.00E+00 2.44E-15 7.79E-17 5.40E-20 3.33E-17 5.65E-16 1.35E-15 2.14E-15

4.53E+02 0.00E+00 3.43E-16 9.73E-18 5.94E-21 3.52E-18 5.79E-17 1.80E-16 2.98E-16

4.79E+02 0.00E+00 4.29E-17 1.16E-18 5.82E-22 5.09E-19 6.11E-18 1.95E-17 3.71E-17

5.07E+02 0.00E+00 4.75E-18 1.30E-19 5.74E-23 5.85E-20 5.56E-19 2.13E-18 4.08E-18

5.36E+02 0.00E+00 4.64E-19 1.33E-20 4.61E-24 7.14E-21 5.22E-20 2.37E-19 4.27E-19

5.68E+02 0.00E+00 3.95E-20 1.10E-21 3.40E-25 4.99E-22 5.14E-21 1.87E-20 3.62E-20

0.01E+02 0.00E+00 2.95E-21 8.18E-23 2.07E-26 3.65E-23 3.18E-22 1.27E-21 2.69E-21

6.36E+02 0.00E+00 1.87E-22 5.20E-24 1.22E-27 3.09E-24 2.66E-23 7.75E-23 1.69E-22



6.73E+02 0.00E+00 1.01E-23 3.29E-25 6.25E-29 2.33E-25 2.59E-24 5.19E-24 9.05E-24

7.12E+02 0.00E+00 4.58E-25 1.48E-26 1.05E-30 1.11E-26 8.43E-26 2.21E-25 4.08E-25

7.53E+02 0.00E+00 1.75E-26 5.52E-28 0.00E+00 4.73E-28 2.74E-27 7.74E-27 1.55E-26

7.97E+02 0.00E+00 5.51E-28 1.94E-29 0.00E+00 1.85E-29 1.39E-28 3.20E-28 4.80E-28

8.44E+02 0.00E+00 1.42E-29 4.72E-31 0.00E+00 0.00E+00 3.51E-30 7.78E-30 1.22E-29

9.93E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 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 results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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	9.90E-07	1.54E-02	1.90E-04	6.53E-05	3.37E-04	6.89E-04	1.17E-03	2.20E-03
1.00E+00	9.16E-07	3.77E-03	1.17E-04	5.96E-05	2.15E-04	4.13E-04	6.15E-04	1.35E-03
1.06E+00	9.12E-07	3.85E-03	1.16E-04	5.92E-05	2.11E-04	4.02E-04	6.09E-04	1.27E-03
1.12E+00	9.07E-07	3.92E-03	1.15E-04	5.89E-05	2.14E-04	3.93E-04	6.03E-04	1.20E-03
1.19E+00	9.03E-07	4.00E-03	1.13E-04	5.88E-05	2.07E-04	3.85E-04	5.96E-04	1.12E-03
1.25E+00	8.98E-07	4.08E-03	1.12E-04	5.85E-05	2.01E-04	3.90E-04	5.87E-04	1.13E-03
1.33E+00	8.93E-07	4.16E-03	1.11E-04	5.81E-05	2.04E-04	3.99E-04	5.82E-04	1.13E-03
1.40E+00	8.87E-07	4.24E-03	1.10E-04	5.75E-05	2.06E-04	3.94E-04	5.74E-04	1.07E-03
1.49E+00	8.79E-07	4.32E-03	1.09E-04	5.70E-05	2.09E-04	3.94E-04	5.71E-04	1.10E-03
1.57E+00	8.00E-07	4.40E-03	1.08E-04	5.66E-05	1.95E-04	3.81E-04	5.69E-04	1.13E-03
1.66E+00	7.45E-07	4.48E-03	1.07E-04	5.61E-05	2.00E-04	3.68E-04	5.68E-04	1.14E-03
1.76E+00	7.06E-07	4.56E-03	1.06E-04	5.56E-05	1.97E-04	3.55E-04	5.28E-04	1.14E-03
1.86E+00	6.79E-07	4.63E-03	1.05E-04	5.52E-05	1.92E-04	3.40E-04	5.18E-04	1.15E-03
1.97E+00	6.60E-07	4.71E-03	1.04E-04	5.46E-05	1.85E-04	3.51E-04	4.92E-04	1.15E-03
2.09E+00	6.28E-07	4.78E-03	1.03E-04	5.40E-05	1.85E-04	3.27E-04	4.79E-04	1.15E-03
2.21E+00	5.38E-07	4.85E-03	1.03E-04	5.33E-05	1.80E-04	3.34E-04	5.11E-04	1.15E-03
2.24E+00	4.81E-07	4.92E-03	1.02E-04	5.20E-05	1.75E-04	3.23E-04	5.15E-04	1.15E-03
2.27E+00	3.32E-07	4.99E-03	1.01E-04	5.13E-05	1.66E-04	3.14E-04	5.18E-04	1.15E-03
2.26E+00	2.02E-07	5.05E-03	1.01E-04	5.05E-05	1.64E-04	3.12E-04	5.20E-04	1.15E-03
2.27E+00	1.21E-07	5.10E-03	1.01E-04	4.97E-05	1.59E-04	3.19E-04	5.24E-04	1.48E-03
2.29E+00	7.21E-08	5.15E-03	1.01E-04	4.90E-05	1.51E-04	3.09E-04	5.28E-04	1.55E-03
3.00E+00	5.86E-08	5.17E-03	1.02E-04	4.85E-05	1.48E-04	3.07E-04	5.28E-04	1.56E-03
3.31E+00	4.33E-08	5.19E-03	1.02E-04	4.81E-05	1.42E-04	3.10E-04	5.37E-04	1.59E-03
3.32E+00	2.68E-08	5.23E-03	1.05E-04	4.69E-05	1.38E-04	3.12E-04	5.33E-04	1.62E-03
3.48E+00	1.78E-08	6.18E-03	1.09E-04	4.63E-05	1.38E-04	2.95E-04	5.25E-04	1.68E-03
3.68E+00	1.30E-08	9.44E-03	1.16E-04	4.54E-05	1.35E-04	2.91E-04	5.17E-04	1.71E-03
3.89E+00	1.05E-08	1.48E-02	1.29E-04	4.47E-05	1.32E-04	2.92E-04	5.10E-04	1.85E-03
4.12E+00	9.19E-09	2.40E-02	1.52E-04	4.39E-05	1.30E-04	3.31E-04	5.05E-04	1.74E-03
4.36E+00	8.51E-09	4.00E-02	1.92E-04	4.30E-05	1.26E-04	3.25E-04	5.37E-04	1.68E-03
4.61E+00	8.12E-09	6.87E-02	2.62E-04	4.18E-05	1.20E-04	3.22E-04	5.77E-04	1.63E-03
4.88E+00	7.86E-09	1.22E-01	3.92E-04	4.08E-05	1.16E-04	3.51E-04	6.02E-04	1.58E-03
5.17E+00	7.65E-09	2.31E-01	6.54E-04	3.96E-05	1.14E-04	3.41E-04	5.96E-04	1.54E-03
5.47E+00	7.46E-09	3.66E-01	9.98E-04	3.83E-05	1.12E-04	3.30E-04	6.31E-04	1.91E-03
5.57E+00	7.28E-09	4.77E-01	1.36E-03	3.72E-05	1.13E-04	3.18E-04	7.41E-04	2.79E-03
6.12E+00	7.10E-09	5.19E-01	1.72E-03	3.62E-05	1.08E-04	3.11E-04	7.78E-04	4.19E-03
6.48E+00	6.91E-09	4.96E-01	2.12E-03	3.50E-05	1.04E-04	2.99E-04	7.59E-04	4.93E-03
6.86E+00	6.73E-09	4.81E-01	2.60E-03	3.39E-05	1.03E-04	2.88E-04	7.75E-04	6.94E-03
7.26E+00	6.54E-09	5.05E-01	2.90E-03	3.27E-05	9.75E-05	2.91E-04	8.09E-04	1.11E-02
7.68E+00	6.35E-09	4.88E-01	2.96E-03	3.15E-05	9.44E-05	3.14E-04	7.54E-04	1.83E-02
8.13E+00	6.09E-09	4.63E-01	2.86E-03	3.04E-05	9.13E-05	3.03E-04	7.07E-04	3.17E-02
8.60E+00	5.82E-09	4.42E-01	2.78E-03	2.91E-05	8.81E-05	2.94E-04	7.47E-04	4.70E-02
9.10E+00	5.59E-09	4.20E-01	2.77E-03	2.75E-05	8.39E-05	2.83E-04	7.68E-04	4.97E-02
9.63E+00	5.36E-09	3.98E-01	2.91E-03	2.64E-05	7.91E-05	2.85E-04	7.33E-04	4.61E-02
1.00E+01	5.21E-09	4.21E-01	3.00E-03	2.56E-05	7.53E-05	2.88E-04	7.13E-04	6.79E-02
1.02E+01	5.13E-09	4.52E-01	3.02E-03	2.51E-05	7.41E-05	2.85E-04	7.47E-04	8.29E-02
1.08E+01	4.90E-09	4.48E-01	2.96E-03	2.37E-05	7.07E-05	2.76E-04	7.54E-04	1.58E-01
1.14E+01	4.67E-09	4.26E-01	2.93E-03	2.21E-05	6.74E-05	2.41E-04	7.58E-04	9.90E-02
1.21E+01	4.43E-09	4.04E-01	2.73E-03	2.09E-05	6.42E-05	2.23E-04	7.55E-04	6.91E-02
1.28E+01	4.20E-09	3.82E-01	2.61E-03	1.97E-05	6.15E-05	2.11E-04	7.07E-04	1.28E-01
1.35E+01	2.65E-09	3.60E-01	2.69E-03	1.85E-05	5.82E-05	1.97E-04	5.84E-04	1.92E-01
1.43E+01	1.37E-09	3.38E-01	2.66E-03	1.71E-05	5.58E-05	1.87E-04	4.88E-04	1.73E-01
1.51E+01	6.94E-10	3.16E-01	2.53E-03	1.60E-05	5.23E-05	1.75E-04	4.52E-04	1.55E-01
1.60E+01	3.56E-10	2.95E-01	2.47E-03	1.48E-05	5.03E-05	1.63E-04	4.35E-04	1.37E-01
1.70E+01	1.92E-10	2.74E-01	2.56E-03	1.36E-05	4.70E-05	1.52E-04	4.25E-04	1.21E-01
1.80E+01	1.14E-10	2.53E-01	2.43E-03	1.25E-05	4.23E-05	1.41E-04	3.88E-04	1.05E-01
1.90E+01	7.73E-11	2.33E-01	2.23E-03	1.15E-05	3.90E-05	1.30E-04	3.52E-04	9.07E-02

2.01E+01 5.95E-11 2.13E-01 2.08E-03 1.05E-05 3.59E-05 1.27E-04 3.58E-04 8.40E-02

2.13E+01 4.98E-11 1.95E-01 2.03E-03 9.46E-06 3.25E-05 1.28E-04 2.86E-04 1.24E-01

2.25E+01 4.36E-11 1.76E-01 1.85E-03 8.54E-06 2.92E-05 1.00E-04 2.61E-04 1.09E-01

2.38E+01 3.88E-11 1.59E-01 1.63E-03 7.53E-06 2.62E-05 9.28E-05 2.73E-04 9.57E-02

2.52E+01 3.46E-11 1.42E-01 1.44E-03 6.61E-06 2.24E-05 8.60E-05 2.93E-04 8.33E-02



2.67E+01 3.08E-11 1.27E-01 1.27E-03 5.89E-06 2.09E-05 7.92E-05 2.18E-04 7.18E-02

2.82E+01 2.73E-11 1.12E-01 1.14E-03 5.23E-06 1.73E-05 7.25E-05 2.04E-04 6.16E-02

2.99E+01 2.40E-11 9.82E-02 1.05E-03 4.59E-06 1.53E-05 6.39E-05 2.18E-04 5.73E-02

3.00E+01 2.38E-11 9.73E-02 1.05E-03 4.55E-06 1.52E-05 6.28E-05 2.19E-04 6.04E-02

3.16E+01 2.10E-11 8.55E-02 9.80E-04 4.00E-06 1.37E-05 4.79E-05 2.44E-04 7.15E-02

3.35E+01 1.82E-11 7.39E-02 8.58E-04 3.44E-06 1.21E-05 4.09E-05 2.89E-04 6.12E-02

3.54E+01 5.29E-12 6.33E-02 7.49E-04 2.95E-06 1.06E-05 3.43E-05 3.95E-04 5.19E-02

3.75E+01 4.56E-16 5.37E-02 6.37E-04 2.51E-06 9.20E-06 3.02E-05 5.56E-04 4.35E-02



3.97E+01 2.28E-20 4.52E-02 5.47E-04 2.10E-06 7.74E-06 2.55E-05 5.63E-04 3.62E-02

4.20E+01 6.39E-25 3.76E-02 4.87E-04 1.73E-06 6.05E-06 1.94E-05 2.57E-04 2.98E-02

4.44E+01 9.05E-30 3.09E-02 4.33E-04 1.43E-06 4.82E-06 1.49E-05 3.46E-04 2.43E-02

4.70E+01 0.00E+00 2.52E-02 3.44E-04 1.17E-06 3.91E-06 1.16E-05 4.94E-04 1.95E-02

4.97E+01 0.00E+00 2.03E-02 2.72E-04 9.41E-07 3.24E-06 9.10E-06 3.68E-04 1.54E-02

5.26E+01 0.00E+00 1.61E-02 2.21E-04 7.51E-07 2.54E-06 7.45E-06 2.79E-04 1.44E-02

5.57E+01 0.00E+00 1.26E-02 1.50E-04 5.90E-07 1.87E-06 4.84E-06 1.95E-05 9.30E-03

5.90E+01 0.00E+00 9.75E-03 1.18E-04 4.55E-07 1.38E-06 3.73E-06 1.76E-05 7.07E-03



6.24E+01 0.00E+00 7.42E-03 8.50E-05 3.48E-07 1.06E-06 3.34E-06 1.78E-05 5.27E-03

60E+01 0.00E+00 5.56E-03 5.91E-05 2.64E-07 8.06E-07 2.35E-06 2.03E-05 3.87E-03

99E+01 0.00E+00 4.10E-03 4.27E-05 1.95E-07 5.95E-07 1.51E-06 3.02E-06 2.79E-03

7.39E+01 0.00E+00 2.97E-03 3.11E-05 1.42E-07 4.33E-07 8.24E-07 2.05E-06 1.98E-03

7.82E+01 0.00E+00 2.11E-03 2.37E-05 1.02E-07 3.27E-07 6.24E-07 1.94E-06 1.67E-03

8.28E+01 0.00E+00 1.50E-03 1.71E-05 7.05E-08 2.54E-07 4.20E-07 1.89E-06 1.30E-03

8.76E+01 0.00E+00 1.01E-03 1.16E-05 4.85E-08 1.84E-07 2.72E-07 1.88E-06 8.80E-04

9.27E+01 0.00E+00 6.66E-04 7.83E-06 3.25E-08 1.41E-07 2.10E-07 1.31E-06 5.82E-04



9.81E+01 0.00E+00 4.34E-04 5.32E-06 2.13E-08 9.45E-08 1.57E-07 1.02E-06 3.76E-04

1.00E+02 0.00E+00 3.74E-04 4.49E-06 1.83E-08 8.19E-08 1.48E-07 1.02E-06 3.24E-04

1.04E+02 0.00E+00 2.75E-04 3.11E-06 1.38E-08 6.32E-08 1.32E-07 1.01E-06 2.37E-04

1.10E+02 0.00E+00 1.70E-04 1.86E-06 8.56E-09 4.23E-08 9.40E-08 3.29E-07 1.45E-04

1.16E+02 0.00E+00 1.02E-04 1.12E-06 5.29E-09 2.62E-08 6.31E-08 2.52E-07 8.66E-05

1.23E+02 0.00E+00 5.98E-05 6.55E-07 3.08E-09 1.70E-08 4.95E-08 1.14E-07 5.01E-05

1.30E+02 0.00E+00 3.38E-05 3.80E-07 1.78E-09 1.20E-08 4.01E-08 1.02E-07 2.81E-05

1.38E+02 0.00E+00 1.85E-05 2.22E-07 9.85E-10 7.54E-09 3.23E-08 8.94E-08 1.52E-05



1.46E+02 0.00E+00 9.78E-06 1.23E-07 5.40E-10 4.78E-09 2.60E-08 7.64E-08 7.97E-06

1.54E+02 0.00E+00 4.98E-06 6.05E-08 2.77E-10 3.34E-09 2.07E-08 6.50E-08 4.00E-06

1.63E+02 0.00E+00 2.44E-06 2.73E-08 1.36E-10 2.34E-09 1.53E-08 3.70E-08 1.93E-06

1.73E+02 0.00E+00 1.14E-06 1.30E-08 6.48E-11 1.58E-09 1.10E-08 3.04E-08 8.73E-07

1.83E+02 0.00E+00 5.14E-07 6.25E-09 2.92E-11 1.06E-09 7.40E-09 2.19E-08 3.74E-07

1.94E+02 0.00E+00 2.20E-07 2.70E-09 1.27E-11 7.10E-10 4.59E-09 1.75E-08 1.50E-07

2.05E+02 0.00E+00 8.99E-08 1.28E-09 5.39E-12 4.20E-10 3.32E-09 1.30E-08 5.69E-08

2.17E+02 0.00E+00 3.48E-08 6.66E-10 2.15E-12 2.65E-10 2.37E-09 1.01E-08 2.29E-08



2.29E+02 0.00E+00 1.31E-08 3.18E-10 8.19E-13 1.54E-10 1.43E-09 4.67E-09 9.57E-09

2.43E+02 0.00E+00 5.02E-09 1.23E-10 2.75E-13 6.70E-11 8.50E-10 1.89E-09 3.24E-09

2.57E+02 0.00E+00 1.62E-09 4.15E-11 8.33E-14 2.45E-11 1.54E-10 7.05E-10 1.21E-09

2.72E+02 0.00E+00 4.83E-10 1.30E-11 2.45E-14 9.52E-12 5.13E-11 2.31E-10 3.85E-10

2.88E+02 0.00E+00 1.32E-10 3.34E-12 6.80E-15 2.17E-12 2.10E-11 5.05E-11 9.95E-11

3.00E+02 0.00E+00 4.91E-11 1.40E-12 2.44E-15 5.25E-13 8.92E-12 2.06E-11 4.05E-11

3.05E+02 0.00E+00 4.00E-11 1.04E-12 1.69E-15 4.21E-13 5.60E-12 1.64E-11 3.19E-11

3.22E+02 0.00E+00 9.89E-12 2.99E-13 4.00E-16 1.42E-13 1.77E-12 4.61E-12 7.95E-12



3.41E+02 0.00E+00 2.25E-12 7.23E-14 8.63E-17 2.41E-14 5.20E-13 1.27E-12 1.92E-12

3.61E+02 0.00E+00 4.71E-13 1.67E-14 1.69E-17 7.48E-15 1.18E-13 3.43E-13 3.72E-13

3.82E+02 0.00E+00 8.99E-14 2.89E-15 2.90E-18 1.99E-15 1.13E-14 5.66E-14 7.37E-14

4.04E+02 0.00E+00 1.56E-14 4.14E-16 4.71E-19 3.07E-16 1.94E-15 7.31E-15 1.18E-14

4.28E+02 0.00E+00 2.44E-15 7.26E-17 6.80E-20 4.13E-17 5.87E-16 1.22E-15 1.81E-15

4.53E+02 0.00E+00 3.42E-16 1.14E-17 8.39E-21 9.48E-18 7.33E-17 1.86E-16 2.71E-16

4.79E+02 0.00E+00 4.28E-17 1.28E-18 8.14E-22 9.90E-19 8.01E-18 1.94E-17 3.19E-17

5.07E+02 0.00E+00 4.75E-18 1.49E-19 8.08E-23 8.27E-20 7.49E-19 2.72E-18 3.74E-18



5.36E+02 0.00E+00 4.64E-19 1.26E-20 6.09E-24 1.18E-20 7.78E-20 2.01E-19 3.16E-19

5.68E+02 0.00E+00 3.96E-20 1.05E-21 3.89E-25 8.01E-22 5.68E-21 1.63E-20 2.64E-20

0.01E+02 0.00E+00 2.92E-21 9.05E-23 2.46E-26 7.35E-23 3.80E-22 1.68E-21 2.23E-21

6.36E+02 0.00E+00 1.87E-22 5.57E-24 1.35E-27 4.19E-24 3.51E-23 8.88E-23 1.60E-22

73E+02 0.00E+00 1.01E-23 3.27E-25 6.27E-29 1.83E-25 2.21E-24 5.13E-24 8.51E-24

7.12E+02 0.00E+00 4.58E-25 1.58E-26 1.17E-30 9.18E-27 1.08E-25 2.58E-25 3.74E-25

7.53E+02 0.00E+00 1.74E-26 6.04E-28 0.00E+00 3.12E-28 5.36E-27 9.87E-27 1.46E-26

7.97E+02 0.00E+00 5.48E-28 1.73E-29 0.00E+00 9.42E-30 1.05E-28 2.98E-28 4.53E-28



8.44E+02 0.00E+00 1.43E-29 4.54E-31 0.00E+00 0.00E+00 2.97E-30 8.30E-30 1.28E-29

9.93E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

9.45E+02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

1.00E+03 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 results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA EU-154.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	1.000E+01	3.558E-03
2	1.141E+01	4.075E-03
3	1.019E+01	3.024E-03

Title : RESRAD Default Parameters  
 Input File : FCS BURIED PIPE INSITU UA EU-154.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	12 0.01	12 0.00	11 -0.03	11 -0.02
Contaminated zone b parameter	10 -0.02	10 0.00	18 0.00	18 0.00
Evapotranspiration coefficient	6 -0.03	6 -0.01	7 -0.04	7 -0.03
Wind Speed	13 0.01	13 0.00	14 -0.01	14 -0.01
Runoff coefficient	18 0.00	18 0.00	12 -0.03	12 -0.02
b Parameter of Unsaturated zone 1	2 -0.10	2 -0.03	6 -0.05	6 -0.04
Mass loading for inhalation	9 0.02	9 0.00	10 0.03	10 0.03
Indoor dust filtration factor	5 0.04	5 0.01	17 0.00	17 0.00
Depth of soil mixing layer	15 -0.01	15 0.00	5 -0.05	5 -0.04
Depth of roots	14 0.01	14 0.00	9 0.03	9 0.03
Wet weight crop yield of fruit, grain and non-leafy vegetables	4 -0.04	4 -0.01	16 0.00	16 0.00
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	7 0.02	7 0.01	4 -0.07	4 -0.05
Humidity in air	8 -0.02	8 -0.01	13 -0.02	13 -0.01
Cover erosion rate	1 0.97	1 0.96	2 0.13	2 0.10
Kd of Eu-154 in Contaminated Zone	17 -0.01	17 0.00	1 -0.59	1 -0.59
Kd of Eu-154 in Saturated Zone	11 -0.01	11 0.00	8 -0.04	8 -0.03
Well pump intake depth	3 -0.04	3 -0.01	3 -0.12	3 -0.10

R-SQUARE	0.93	0.93	0.38	0.38
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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 EU-154.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	15 -0.01	15 0.00	15 -0.02	15 -0.02
Contaminated zone b parameter	9 0.03	9 0.01	7 0.08	7 0.06
Evapotranspiration coefficient	16 -0.01	16 0.00	14 -0.02	14 -0.02
Wind Speed	6 0.05	6 0.01	5 0.08	5 0.06
Runoff coefficient	8 -0.03	8 -0.01	16 0.01	16 0.01
b Parameter of Unsaturated zone 1	2 -0.08	2 -0.02	12 0.04	12 0.03
Mass loading for inhalation	11 -0.02	11 0.00	17 -0.01	17 -0.01
Indoor dust filtration factor	5 -0.06	5 -0.01	9 -0.06	9 -0.05
Depth of soil mixing layer	7 0.03	7 0.01	4 0.13	4 0.10
Depth of roots	13 0.02	13 0.00	10 0.05	10 0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	10 0.02	10 0.01	13 -0.04	13 -0.03
Weathering removal constant of all vegetation	14 -0.01	14 0.00	11 -0.04	11 -0.03
Wet foliar interception fraction of leafy vegetables	4 -0.06	4 -0.01	8 0.07	8 0.05
Humidity in air	3 0.07	3 0.02	18 0.00	18 0.00
Cover erosion rate	1 0.97	1 0.97	2 0.15	2 0.12
Kd of Eu-154 in Contaminated Zone	18 0.00	18 0.00	1 -0.61	1 -0.59
Kd of Eu-154 in Saturated Zone	12 -0.02	12 0.00	6 -0.08	6 -0.06
Well pump intake depth	17 0.00	17 0.00	3 -0.15	3 -0.12

R-SQUARE 0.95 0.95 0.40 0.40

-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 EU-154.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	17	0.00	17	0.00	13	-0.03	13	-0.02
Contaminated zone b parameter	3	-0.07	3	-0.03	5	-0.06	5	-0.05
Evapotranspiration coefficient	7	0.04	7	0.02	15	0.02	15	0.01
Wind Speed	2	-0.08	2	-0.03	7	0.05	7	0.04
Runoff coefficient	14	0.01	14	0.00	14	-0.03	14	-0.02
b Parameter of Unsaturated zone 1	13	-0.02	13	-0.01	12	0.03	12	0.02
Mass loading for inhalation	16	0.00	16	0.00	18	0.00	18	0.00
Indoor dust filtration factor	8	0.04	8	0.01	11	-0.03	11	-0.03
Depth of soil mixing layer	12	-0.02	12	-0.01	4	-0.09	4	-0.07
Depth of roots	9	-0.03	9	-0.01	10	0.04	10	0.03
Wet weight crop yield of fruit, grain and non-leafy vegetables	11	0.02	11	0.01	6	0.05	6	0.04
Weathering removal constant of all vegetation	5	0.05	5	0.02	9	0.04	9	0.03
Wet foliar interception fraction of leafy vegetables	10	-0.03	10	-0.01	17	0.01	17	0.01
Humidity in air	4	-0.06	4	-0.02	16	0.01	16	0.01
Cover erosion rate	1	0.92	1	0.92	3	0.12	3	0.09
Kd of Eu-154 in Contaminated Zone	18	0.00	18	0.00	1	-0.66	1	-0.65
Kd of Eu-154 in Saturated Zone	15	0.00	15	0.00	8	-0.05	8	-0.04
Well pump intake depth	6	0.05	6	0.02	2	-0.12	2	-0.09
R-SQUARE	0.85		0.85		0.45		0.45	

-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.