

Probabilistic results summary : RESRAD Default Parameters

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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	DWIBWT	CONTINUOUS LINEAR	6	5	0	24	.29	43	.66	53	.68	76	.95	89	1				
7	BUZ (1)	BOUNDED LOGNORMAL-N	1.28	.334	1.28	10.1													
8	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003	.8119	.00004	.9495	.00006	.9937	.000076	.9983	.0001	1
9	SHE3	UNIFORM	.15	.95															
10	DM	TRIANGULAR	0	.15	.6														
11	DROOT	UNIFORM	.3	4															
12	YV (1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999													
13	WLAM	TRIANGULAR	5.1	18	84														
14	RWET (2)	TRIANGULAR	.06	.67	.95														
15	HUMID	TRUNCATED LOGNORMAL-N	1.98	.334	.001	.999													
16	DCACTC (1)	LOGNORMAL-N	6.72	3.22															
17	DCACTU1 (1)	LOGNORMAL-N	6.72	3.22															
18	DCACTS (1)	LOGNORMAL-N	6.72	3.22															

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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-155										
Min	0.00E+00	5.55E-02	5.55E-02	1.99E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	8.28E-02	8.28E-02	7.20E-02	5.44E-02	2.05E-02	1.25E-03	7.06E-08	5.13E-20	0.00E+00
Avg	0.00E+00	8.21E-02	8.21E-02	7.10E-02	5.32E-02	1.94E-02	1.13E-03	5.87E-08	3.23E-20	0.00E+00
Std	0.00E+00	1.41E-03	1.41E-03	3.08E-03	4.08E-03	3.29E-03	2.94E-04	2.16E-08	2.17E-20	0.00E+00
ALL										
Min	0.00E+00	5.55E-02	5.55E-02	1.99E-02	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	8.28E-02	8.28E-02	7.20E-02	5.44E-02	2.05E-02	1.25E-03	7.06E-08	5.13E-20	0.00E+00
Avg	0.00E+00	8.21E-02	8.21E-02	7.10E-02	5.32E-02	1.94E-02	1.13E-03	5.87E-08	3.23E-20	0.00E+00
Std	0.00E+00	1.41E-03	1.41E-03	3.08E-03	4.08E-03	3.29E-03	2.94E-04	2.16E-08	2.17E-20	0.00E+00

ALL is total dose summed for all nuclides.

Probabilistic Risk Summary

Nuclide		RISK(j,t)							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		1.82E-06	6.66E-07	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.85E-06	1.61E-06	1.22E-06	4.58E-07	2.80E-08	1.58E-12	1.15E-24	0.00E+00
Avg		1.83E-06	1.58E-06	1.19E-06	4.32E-07	2.51E-08	1.31E-12	7.16E-25	0.00E+00
Std		1.35E-08	5.23E-08	8.35E-08	7.16E-08	6.49E-09	4.77E-13	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		1.82E-06	6.66E-07	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.85E-06	1.61E-06	1.22E-06	4.58E-07	2.80E-08	1.58E-12	1.15E-24	0.00E+00
Avg		1.83E-06	1.58E-06	1.19E-06	4.32E-07	2.51E-08	1.31E-12	7.16E-25	0.00E+00
Std		1.35E-08	5.23E-08	8.35E-08	7.16E-08	6.49E-09	4.77E-13	0.00E+00	0.00E+00
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ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-155									
Min		5.47E-02	1.96E-02	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.16E-02	7.09E-02	5.37E-02	2.02E-02	1.23E-03	6.97E-08	5.07E-20	0.00E+00
Avg		8.13E-02	7.03E-02	5.27E-02	1.92E-02	1.12E-03	5.82E-08	3.20E-20	0.00E+00
Std		1.37E-03	3.04E-03	4.03E-03	3.26E-03	2.92E-04	2.14E-08	2.16E-20	0.00E+00
Gd-155									
Min		5.47E-02	1.96E-02	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.16E-02	7.09E-02	5.37E-02	2.02E-02	1.23E-03	6.97E-08	5.07E-20	0.00E+00
Avg		8.13E-02	7.03E-02	5.27E-02	1.92E-02	1.12E-03	5.82E-08	3.20E-20	0.00E+00
Std		1.37E-03	3.04E-03	4.03E-03	3.26E-03	2.92E-04	2.14E-08	2.16E-20	0.00E+00

ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-155									
Min		1.47E-09	1.28E-09	9.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.26E-06	2.84E-06	2.15E-06	8.06E-07	4.93E-08	2.78E-12	2.02E-24	0.00E+00
Avg		5.25E-07	4.54E-07	3.40E-07	1.24E-07	7.20E-09	3.76E-13	1.96E-25	0.00E+00
Std		3.19E-07	2.77E-07	2.10E-07	7.97E-08	4.94E-09	2.84E-13	0.00E+00	0.00E+00
ΣALL									
Min		1.47E-09	1.28E-09	9.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.26E-06	2.84E-06	2.15E-06	8.06E-07	4.93E-08	2.78E-12	2.02E-24	0.00E+00
Avg		5.25E-07	4.54E-07	3.40E-07	1.24E-07	7.20E-09	3.76E-13	1.96E-25	0.00E+00
Std		3.19E-07	2.77E-07	2.10E-07	7.97E-08	4.94E-09	2.84E-13	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-155									
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 Dose vs Pathway(i): Plant (Water Ind.)

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		1.90E-04	1.08E-04	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.03E-04	6.99E-04	5.28E-04	1.99E-04	1.21E-05	6.85E-10	4.98E-22	0.00E+00
Avg		4.51E-04	3.89E-04	2.89E-04	1.05E-04	5.96E-06	2.81E-10	1.23E-22	0.00E+00
Std		2.18E-04	1.89E-04	1.44E-04	5.57E-05	3.49E-06	1.98E-10	1.37E-22	0.00E+00
<hr/>									
TOTAL									
Min		1.90E-04	1.08E-04	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.03E-04	6.99E-04	5.28E-04	1.99E-04	1.21E-05	6.85E-10	4.98E-22	0.00E+00
Avg		4.51E-04	3.89E-04	2.89E-04	1.05E-04	5.96E-06	2.81E-10	1.23E-22	0.00E+00
Std		2.18E-04	1.89E-04	1.44E-04	5.57E-05	3.49E-06	1.98E-10	1.37E-22	0.00E+00
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TOTAL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-155									
Min		2.16E-04	7.81E-05	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.04E-04	2.65E-04	2.00E-04	7.53E-05	4.60E-06	2.60E-10	1.89E-22	0.00E+00
Avg		2.85E-04	2.46E-04	1.85E-04	6.71E-05	3.90E-06	2.02E-10	1.04E-22	0.00E+00
Std		1.24E-05	1.45E-05	1.60E-05	1.19E-05	1.04E-06	7.48E-11	7.46E-23	0.00E+00
ΣALL									
Min		2.16E-04	7.81E-05	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.04E-04	2.65E-04	2.00E-04	7.53E-05	4.60E-06	2.60E-10	1.89E-22	0.00E+00
Avg		2.85E-04	2.46E-04	1.85E-04	6.71E-05	3.90E-06	2.02E-10	1.04E-22	0.00E+00
Std		1.24E-05	1.45E-05	1.60E-05	1.19E-05	1.04E-06	7.48E-11	7.46E-23	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Eu-155									
Min		2.31E-05	8.96E-06	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.61E-05	3.14E-05	2.37E-05	8.92E-06	5.45E-07	3.07E-11	2.24E-23	0.00E+00
Avg		3.16E-05	2.73E-05	2.04E-05	7.43E-06	4.31E-07	2.21E-11	1.12E-23	0.00E+00
Std		2.75E-06	2.63E-06	2.37E-06	1.45E-06	1.20E-07	8.41E-12	8.14E-24	0.00E+00
ΣALL									
Min		2.31E-05	8.96E-06	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.61E-05	3.14E-05	2.37E-05	8.92E-06	5.45E-07	3.07E-11	2.24E-23	0.00E+00
Avg		3.16E-05	2.73E-05	2.04E-05	7.43E-06	4.31E-07	2.21E-11	1.12E-23	0.00E+00
Std		2.75E-06	2.63E-06	2.37E-06	1.45E-06	1.20E-07	8.41E-12	8.14E-24	0.00E+00

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Eu-155									
Min		1.37E-05	4.90E-06	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.04E-05	1.77E-05	1.34E-05	5.04E-06	3.08E-07	1.74E-11	1.26E-23	0.00E+00
Avg		2.03E-05	1.76E-05	1.32E-05	4.79E-06	2.79E-07	1.45E-11	7.57E-24	0.00E+00
Std		3.42E-07	7.60E-07	1.01E-06	8.30E-07	7.35E-08	5.35E-12	5.38E-24	0.00E+00
<hr/>									
ALL									
Min		1.37E-05	4.90E-06	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.04E-05	1.77E-05	1.34E-05	5.04E-06	3.08E-07	1.74E-11	1.26E-23	0.00E+00
Avg		2.03E-05	1.76E-05	1.32E-05	4.79E-06	2.79E-07	1.45E-11	7.57E-24	0.00E+00
Std		3.42E-07	7.60E-07	1.01E-06	8.30E-07	7.35E-08	5.35E-12	5.38E-24	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.09E-06	6.79E-05	1.64E-04	1.49E-04	2.65E-04	9.63E-09	1.24E-20	0.00E+00
Avg		6.33E-09	7.42E-08	2.20E-07	5.09E-07	3.03E-07	2.95E-11	4.61E-23	0.00E+00
Std		1.23E-07	1.83E-06	4.51E-06	5.89E-06	7.06E-06	3.55E-10	4.44E-22	0.00E+00
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Gd-155									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.09E-06	6.79E-05	1.64E-04	1.49E-04	2.65E-04	9.63E-09	1.24E-20	0.00E+00
Avg		6.33E-09	7.42E-08	2.20E-07	5.09E-07	3.03E-07	2.95E-11	4.61E-23	0.00E+00
Std		1.23E-07	1.83E-06	4.51E-06	5.89E-06	7.06E-06	3.55E-10	4.44E-22	0.00E+00
<hr/>									

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide	DOSE(i, j, t), mrem/yr							
(j)	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
Eu-155								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.41E-07	4.14E-06	1.02E-05	1.65E-05	8.18E-05	2.98E-09	2.79E-21	0.00E+00
Avg		4.94E-10	5.71E-09	1.67E-08	4.76E-08	6.78E-08	4.12E-12	5.43E-24	0.00E+00
Std		9.04E-09	1.24E-07	3.09E-07	5.74E-07	2.12E-06	8.07E-11	7.83E-23	0.00E+00
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.41E-07	4.14E-06	1.02E-05	1.65E-05	8.18E-05	2.98E-09	2.79E-21	0.00E+00
Avg		4.94E-10	5.71E-09	1.67E-08	4.76E-08	6.78E-08	4.12E-12	5.43E-24	0.00E+00
Std		9.04E-09	1.24E-07	3.09E-07	5.74E-07	2.12E-06	8.07E-11	7.83E-23	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.48E-08	2.62E-06	7.03E-06	6.58E-06	1.54E-05	5.66E-10	6.37E-22	0.00E+00
Avg		1.63E-10	2.91E-09	9.24E-09	2.14E-08	1.61E-08	1.40E-12	2.08E-24	0.00E+00
Std		2.88E-09	7.15E-08	1.93E-07	2.47E-07	4.07E-07	1.85E-11	2.11E-23	0.00E+00
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ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.48E-08	2.62E-06	7.03E-06	6.58E-06	1.54E-05	5.66E-10	6.37E-22	0.00E+00
Avg		1.63E-10	2.91E-09	9.24E-09	2.14E-08	1.61E-08	1.40E-12	2.08E-24	0.00E+00
Std		2.88E-09	7.15E-08	1.93E-07	2.47E-07	4.07E-07	1.85E-11	2.11E-23	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Eu-155									
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		1.81E-08	4.42E-07	1.14E-06	1.06E-06	2.75E-06	1.01E-10	1.09E-22	0.00E+00
Avg		3.20E-11	4.92E-10	1.50E-09	3.52E-09	2.78E-09	2.32E-13	3.39E-25	0.00E+00
Std		5.92E-10	1.21E-08	3.15E-08	4.13E-08	7.25E-08	3.19E-12	3.48E-24	0.00E+00
<hr/>									
Gd-155									
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		1.81E-08	4.42E-07	1.14E-06	1.06E-06	2.75E-06	1.01E-10	1.09E-22	0.00E+00
Avg		3.20E-11	4.92E-10	1.50E-09	3.52E-09	2.78E-09	2.32E-13	3.39E-25	0.00E+00
Std		5.92E-10	1.21E-08	3.15E-08	4.13E-08	7.25E-08	3.19E-12	3.48E-24	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.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	7.99E-02	6.53E-02	4.37E-02	6.10E-03	2.83E-08	0.00E+00	0.00E+00	0.00E+00
0.050	8.15E-02	6.93E-02	4.99E-02	1.48E-02	1.99E-04	1.15E-12	0.00E+00	0.00E+00
0.075	8.19E-02	7.04E-02	5.21E-02	1.75E-02	6.24E-04	1.93E-09	0.00E+00	0.00E+00
0.100	8.20E-02	7.09E-02	5.29E-02	1.87E-02	8.82E-04	1.34E-08	0.00E+00	0.00E+00
0.125	8.21E-02	7.11E-02	5.33E-02	1.93E-02	1.03E-03	2.81E-08	6.19E-28	0.00E+00
0.150	8.21E-02	7.13E-02	5.36E-02	1.96E-02	1.10E-03	4.16E-08	3.54E-26	0.00E+00
0.175	8.21E-02	7.13E-02	5.37E-02	1.99E-02	1.14E-03	4.88E-08	5.18E-25	0.00E+00
0.200	8.21E-02	7.14E-02	5.38E-02	2.00E-02	1.17E-03	5.49E-08	7.74E-24	0.00E+00
0.225	8.21E-02	7.14E-02	5.39E-02	2.01E-02	1.19E-03	5.90E-08	7.07E-23	0.00E+00
0.250	8.21E-02	7.14E-02	5.39E-02	2.02E-02	1.21E-03	6.20E-08	1.09E-21	0.00E+00
0.275	8.21E-02	7.14E-02	5.40E-02	2.02E-02	1.21E-03	6.41E-08	6.43E-21	0.00E+00
0.300	8.22E-02	7.14E-02	5.40E-02	2.02E-02	1.22E-03	6.54E-08	1.24E-20	0.00E+00
0.325	8.22E-02	7.14E-02	5.40E-02	2.02E-02	1.22E-03	6.62E-08	2.08E-20	0.00E+00
0.350	8.22E-02	7.14E-02	5.40E-02	2.03E-02	1.23E-03	6.70E-08	2.81E-20	0.00E+00
0.375	8.22E-02	7.14E-02	5.40E-02	2.03E-02	1.23E-03	6.75E-08	3.40E-20	0.00E+00
0.400	8.22E-02	7.15E-02	5.40E-02	2.03E-02	1.23E-03	6.82E-08	3.83E-20	0.00E+00
0.425	8.22E-02	7.15E-02	5.40E-02	2.03E-02	1.24E-03	6.86E-08	4.07E-20	0.00E+00
0.450	8.22E-02	7.15E-02	5.40E-02	2.03E-02	1.24E-03	6.89E-08	4.27E-20	0.00E+00
0.475	8.22E-02	7.15E-02	5.40E-02	2.03E-02	1.24E-03	6.92E-08	4.43E-20	0.00E+00
0.500	8.22E-02	7.15E-02	5.40E-02	2.03E-02	1.24E-03	6.94E-08	4.54E-20	0.00E+00
0.525	8.23E-02	7.15E-02	5.40E-02	2.03E-02	1.24E-03	6.95E-08	4.68E-20	0.00E+00
0.550	8.23E-02	7.15E-02	5.41E-02	2.03E-02	1.24E-03	6.97E-08	4.76E-20	0.00E+00
0.575	8.23E-02	7.15E-02	5.41E-02	2.03E-02	1.24E-03	6.98E-08	4.84E-20	0.00E+00
0.600	8.23E-02	7.16E-02	5.41E-02	2.03E-02	1.24E-03	6.98E-08	4.90E-20	0.00E+00
0.625	8.23E-02	7.16E-02	5.41E-02	2.03E-02	1.24E-03	6.99E-08	4.95E-20	0.00E+00
0.650	8.24E-02	7.16E-02	5.41E-02	2.03E-02	1.24E-03	6.99E-08	4.99E-20	0.00E+00
0.675	8.24E-02	7.16E-02	5.41E-02	2.03E-02	1.24E-03	7.00E-08	5.01E-20	0.00E+00
0.700	8.24E-02	7.17E-02	5.42E-02	2.03E-02	1.24E-03	7.00E-08	5.03E-20	0.00E+00
0.725	8.25E-02	7.17E-02	5.42E-02	2.04E-02	1.24E-03	7.00E-08	5.05E-20	0.00E+00
0.750	8.25E-02	7.17E-02	5.42E-02	2.04E-02	1.24E-03	7.00E-08	5.06E-20	0.00E+00
0.775	8.26E-02	7.18E-02	5.42E-02	2.04E-02	1.24E-03	7.00E-08	5.07E-20	0.00E+00
0.800	8.26E-02	7.18E-02	5.43E-02	2.04E-02	1.24E-03	7.01E-08	5.08E-20	0.00E+00
0.825	8.27E-02	7.19E-02	5.43E-02	2.04E-02	1.24E-03	7.01E-08	5.08E-20	0.00E+00
0.850	8.27E-02	7.19E-02	5.43E-02	2.04E-02	1.25E-03	7.01E-08	5.09E-20	0.00E+00
0.875	8.27E-02	7.19E-02	5.44E-02	2.04E-02	1.25E-03	7.02E-08	5.09E-20	0.00E+00
0.900	8.27E-02	7.19E-02	5.44E-02	2.04E-02	1.25E-03	7.03E-08	5.09E-20	0.00E+00
0.925	8.27E-02	7.20E-02	5.44E-02	2.04E-02	1.25E-03	7.03E-08	5.10E-20	0.00E+00
0.950	8.27E-02	7.20E-02	5.44E-02	2.05E-02	1.25E-03	7.04E-08	5.10E-20	0.00E+00
0.975	8.28E-02	7.20E-02	5.44E-02	2.05E-02	1.25E-03	7.05E-08	5.12E-20	0.00E+00
1.000	8.28E-02	7.20E-02	5.44E-02	2.05E-02	1.25E-03	7.06E-08	5.13E-20	0.00E+00

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	6.39E-02	8.28E-02	8.21E-02	8.22E-02	8.27E-02	8.27E-02	8.28E-02	8.28E-02
1.00E+00	3.23E-02	7.20E-02	7.10E-02	7.15E-02	7.19E-02	7.20E-02	7.20E-02	7.20E-02
1.06E+00	3.10E-02	7.14E-02	7.04E-02	7.09E-02	7.14E-02	7.14E-02	7.14E-02	7.14E-02
1.12E+00	2.97E-02	7.08E-02	6.98E-02	7.03E-02	7.07E-02	7.08E-02	7.08E-02	7.08E-02
1.19E+00	2.84E-02	7.01E-02	6.92E-02	6.97E-02	7.01E-02	7.01E-02	7.01E-02	7.01E-02
1.25E+00	2.71E-02	6.94E-02	6.85E-02	6.90E-02	6.94E-02	6.94E-02	6.94E-02	6.94E-02
1.33E+00	2.58E-02	6.87E-02	6.77E-02	6.83E-02	6.87E-02	6.87E-02	6.87E-02	6.87E-02
1.40E+00	2.45E-02	6.80E-02	6.70E-02	6.76E-02	6.80E-02	6.80E-02	6.80E-02	6.80E-02
1.49E+00	2.31E-02	6.72E-02	6.62E-02	6.68E-02	6.72E-02	6.72E-02	6.72E-02	6.72E-02
1.57E+00	2.18E-02	6.64E-02	6.54E-02	6.60E-02	6.64E-02	6.64E-02	6.64E-02	6.64E-02
1.66E+00	2.05E-02	6.56E-02	6.45E-02	6.51E-02	6.56E-02	6.56E-02	6.56E-02	6.56E-02
1.76E+00	1.92E-02	6.47E-02	6.36E-02	6.43E-02	6.47E-02	6.47E-02	6.47E-02	6.47E-02
1.86E+00	1.79E-02	6.38E-02	6.27E-02	6.33E-02	6.38E-02	6.38E-02	6.38E-02	6.38E-02
1.97E+00	1.66E-02	6.28E-02	6.17E-02	6.24E-02	6.28E-02	6.28E-02	6.28E-02	6.28E-02
2.09E+00	1.53E-02	6.18E-02	6.07E-02	6.14E-02	6.18E-02	6.18E-02	6.18E-02	6.18E-02
2.21E+00	1.41E-02	6.08E-02	5.96E-02	6.04E-02	6.08E-02	6.08E-02	6.08E-02	6.08E-02
2.34E+00	1.29E-02	5.97E-02	5.86E-02	5.93E-02	5.97E-02	5.97E-02	5.97E-02	5.97E-02
2.47E+00	1.18E-02	5.86E-02	5.74E-02	5.82E-02	5.85E-02	5.86E-02	5.86E-02	5.86E-02
2.62E+00	1.07E-02	5.74E-02	5.62E-02	5.70E-02	5.74E-02	5.74E-02	5.74E-02	5.74E-02
2.77E+00	9.62E-03	5.62E-02	5.50E-02	5.58E-02	5.62E-02	5.62E-02	5.62E-02	5.62E-02
2.93E+00	8.62E-03	5.49E-02	5.38E-02	5.46E-02	5.49E-02	5.49E-02	5.49E-02	5.49E-02
3.00E+00	8.23E-03	5.44E-02	5.32E-02	5.40E-02	5.44E-02	5.44E-02	5.44E-02	5.44E-02
3.310E+00	7.67E-03	5.36E-02	5.24E-02	5.33E-02	5.36E-02	5.36E-02	5.36E-02	5.36E-02
3.328E+00	6.78E-03	5.23E-02	5.11E-02	5.19E-02	5.23E-02	5.23E-02	5.23E-02	5.23E-02
3.48E+00	5.95E-03	5.09E-02	4.97E-02	5.06E-02	5.09E-02	5.09E-02	5.09E-02	5.09E-02
3.68E+00	5.18E-03	4.95E-02	4.83E-02	4.92E-02	4.95E-02	4.95E-02	4.95E-02	4.95E-02
3.89E+00	4.47E-03	4.80E-02	4.68E-02	4.77E-02	4.80E-02	4.80E-02	4.80E-02	4.80E-02
4.12E+00	3.83E-03	4.65E-02	4.53E-02	4.62E-02	4.65E-02	4.65E-02	4.65E-02	4.65E-02
4.36E+00	3.25E-03	4.50E-02	4.38E-02	4.47E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02
4.61E+00	2.74E-03	4.34E-02	4.22E-02	4.31E-02	4.34E-02	4.34E-02	4.34E-02	4.34E-02
4.88E+00	2.28E-03	4.18E-02	4.06E-02	4.15E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02
5.17E+00	1.87E-03	4.02E-02	3.90E-02	3.99E-02	4.02E-02	4.02E-02	4.02E-02	4.02E-02
5.47E+00	1.53E-03	3.85E-02	3.73E-02	3.83E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02
5.78E+00	5.58E-06	3.69E-02	3.56E-02	3.66E-02	3.68E-02	3.69E-02	3.69E-02	3.69E-02
6.12E+00	5.32E-06	3.52E-02	3.39E-02	3.49E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02
6.48E+00	0.00E+00	3.35E-02	3.22E-02	3.32E-02	3.34E-02	3.35E-02	3.35E-02	3.35E-02
6.86E+00	0.00E+00	3.17E-02	3.05E-02	3.15E-02	3.17E-02	3.17E-02	3.17E-02	3.17E-02
7.26E+00	0.00E+00	3.00E-02	2.88E-02	2.98E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
7.68E+00	0.00E+00	2.83E-02	2.71E-02	2.81E-02	2.83E-02	2.83E-02	2.83E-02	2.83E-02
8.13E+00	0.00E+00	2.66E-02	2.54E-02	2.64E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
8.60E+00	0.00E+00	2.49E-02	2.37E-02	2.47E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02
9.10E+00	0.00E+00	2.32E-02	2.20E-02	2.30E-02	2.32E-02	2.32E-02	2.32E-02	2.32E-02
9.63E+00	0.00E+00	2.15E-02	2.04E-02	2.14E-02	2.15E-02	2.15E-02	2.15E-02	2.15E-02
1.00E+01	0.00E+00	2.05E-02	1.94E-02	2.03E-02	2.04E-02	2.05E-02	2.05E-02	2.05E-02
1.02E+01	0.00E+00	1.99E-02	1.88E-02	1.98E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
1.08E+01	0.00E+00	1.83E-02	1.73E-02	1.82E-02	1.83E-02	1.83E-02	1.83E-02	1.83E-02
1.14E+01	0.00E+00	1.68E-02	1.58E-02	1.67E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
1.21E+01	0.00E+00	1.53E-02	1.44E-02	1.52E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
1.28E+01	0.00E+00	1.39E-02	1.30E-02	1.38E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02
1.35E+01	0.00E+00	1.25E-02	1.17E-02	1.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02
1.43E+01	0.00E+00	1.12E-02	1.04E-02	1.11E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02
1.51E+01	0.00E+00	9.96E-03	9.27E-03	9.89E-03	9.95E-03	9.96E-03	9.96E-03	9.96E-03
1.60E+01	0.00E+00	8.81E-03	8.18E-03	8.74E-03	8.80E-03	8.81E-03	8.81E-03	8.81E-03
1.70E+01	0.00E+00	7.73E-03	7.15E-03	7.67E-03	7.72E-03	7.73E-03	7.73E-03	7.73E-03
1.80E+01	0.00E+00	6.73E-03	6.22E-03	6.68E-03	6.73E-03	6.73E-03	6.73E-03	6.73E-03
1.90E+01	0.00E+00	5.82E-03	5.36E-03	5.77E-03	5.81E-03	5.82E-03	5.82E-03	5.82E-03

2.01E+01	0.00E+00	4.98E-03	4.58E-03	4.94E-03	4.98E-03	4.98E-03	4.98E-03	4.98E-03
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2.13E+01	0.00E+00	4.23E-03	3.88E-03	4.20E-03	4.23E-03	4.23E-03	4.23E-03	4.23E-03
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2.25E+01	0.00E+00	3.56E-03	3.25E-03	3.53E-03	3.55E-03	3.56E-03	3.56E-03	3.56E-03
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2.38E+01	0.00E+00	2.96E-03	2.70E-03	2.94E-03	2.96E-03	2.96E-03	2.96E-03	2.96E-03
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2.52E+01	0.00E+00	2.44E-03	2.22E-03	2.42E-03	2.44E-03	2.44E-03	2.44E-03	2.44E-03
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2.67E+01	0.00E+00	1.99E-03	1.80E-03	1.97E-03	1.98E-03	1.99E-03	1.99E-03	1.99E-03
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2.82E+01	0.00E+00	1.60E-03	1.45E-03	1.59E-03	1.60E-03	1.60E-03	1.60E-03	1.60E-03
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2.99E+01	0.00E+00	1.27E-03	1.14E-03	1.26E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03
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3.00E+01	0.00E+00	1.25E-03	1.13E-03	1.24E-03	1.25E-03	1.25E-03	1.25E-03	1.25E-03	1.25E-03
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3.16E+01	0.00E+00	9.97E-04	8.95E-04	9.88E-04	9.95E-04	9.96E-04	9.97E-04	9.97E-04
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3.35E+01	0.00E+00	7.70E-04	6.89E-04	7.63E-04	7.69E-04	7.70E-04	7.70E-04	7.70E-04
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3.54E+01	0.00E+00	5.87E-04	5.23E-04	5.81E-04	5.85E-04	5.86E-04	5.87E-04	5.87E-04
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3.75E+01	0.00E+00	4.40E-04	3.91E-04	4.36E-04	4.39E-04	4.40E-04	4.40E-04	4.40E-04
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3.97E+01	0.00E+00	3.24E-04	2.87E-04	3.21E-04	3.23E-04	3.24E-04	3.24E-04	3.24E-04
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4.20E+01	0.00E+00	2.35E-04	2.07E-04	2.32E-04	2.34E-04	2.35E-04	2.35E-04	2.35E-04
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4.44E+01 0.00E+00 1.67E-04 1.47E-04 1.65E-04 1.66E-04 1.67E-04 1.67E-04 1.67E-04

4.70E+01	0.00E+00	1.16E-04	1.02E-04	1.15E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04
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4.97E+01 0.00E+00 7.92E-05 6.91E-05 7.84E-05 7.90E-05 7.92E-05 7.92E-05 7.92E-05

5.26E+01	0.00E+00	5.28E-05	4.60E-05	5.22E-05	5.27E-05	5.28E-05	5.28E-05	5.28E-05
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5.57E+01	0.00E+00	3.44E-05	2.98E-05	3.40E-05	3.43E-05	3.44E-05	3.44E-05	3.44E-05
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5.90E+01	0.00E+00	2.19E-05	1.89E-05	2.16E-05	2.18E-05	2.19E-05	2.19E-05	2.19E-05
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6.24E+01	0.00E+00	1.35E-05	1.16E-05	1.34E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05
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6.60E+01	0.00E+00	8.15E-06	6.98E-06	8.04E-06	8.12E-06	8.14E-06	8.14E-06	8.15E-06
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6.99E+01	0.00E+00	4.76E-06	4.06E-06	4.70E-06	4.74E-06	4.75E-06	4.76E-06	4.76E-06
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7.39E+01	0.00E+00	2.69E-06	2.29E-06	2.66E-06	2.68E-06	2.69E-06	2.69E-06	2.69E-06
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7.82E+01	0.00E+00	1.48E-06	1.25E-06	1.45E-06	1.47E-06	1.47E-06	1.48E-06	1.48E-06
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8.28E+01 0.00E+00 7.81E-07 6.58E-07 7.69E-07 7.78E-07 7.80E-07 7.80E-07 7.81E-07

8.76E+01	0.00E+00	3.98E-07	3.34E-07	3.92E-07	3.96E-07	3.97E-07	3.98E-07	3.98E-07
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9.27E+01	0.00E+00	1.95E-07	1.63E-07	1.92E-07	1.94E-07	1.95E-07	1.95E-07	1.95E-07
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9.81E+01	0.00E+00	9.16E-08	7.61E-08	9.01E-08	9.13E-08	9.15E-08	9.16E-08	9.16E-08
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1.00E+02 0.00E+00 7.06E-08 5.85E-08 6.94E-08 7.03E-08 7.05E-08 7.05E-08 7.06E-08

1.04E+02 0.00E+00 4.12E-08 3.41E-08 4.05E-08 4.10E-08 4.12E-08 4.12E-08 4.12E-08

1.10E+02 0.00E+00 1.77E-08 1.46E-08 1.74E-08 1.76E-08 1.77E-08 1.77E-08 1.77E-08

1.16E+02 0.00E+00 7.24E-09 5.94E-09 7.09E-09 7.20E-09 7.22E-09 7.23E-09 7.23E-09

1.23E+02 0.00E+00 2.81E-09 2.29E-09 2.75E-09 2.79E-09 2.80E-09 2.81E-09 2.81E-09

1.30E+02 0.00E+00 1.03E-09 8.37E-10 1.01E-09 1.03E-09 1.03E-09 1.03E-09 1.03E-09

1.38E+02 0.00E+00 3.57E-10 2.88E-10 3.48E-10 3.55E-10 3.56E-10 3.57E-10 3.57E-10

1.46E+02 0.00E+00 1.16E-10 9.35E-11 1.13E-10 1.16E-10 1.16E-10 1.16E-10 1.16E-10

1.54E+02	0.00E+00	3.55E-11	2.84E-11	3.45E-11	3.53E-11	3.54E-11	3.54E-11	3.54E-11
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1.63E+02	0.00E+00	1.01E-11	8.03E-12	9.82E-12	1.00E-11	1.01E-11	1.01E-11	1.01E-11
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1.73E+02 0.00E+00 2.67E-12 2.11E-12 2.59E-12 2.65E-12 2.66E-12 2.67E-12 2.67E-12

1.83E+02 0.00E+00 6.53E-13 5.14E-13 6.33E-13 6.50E-13 6.52E-13 6.53E-13 6.53E-13

1.94E+02 0.00E+00 1.47E-13 1.15E-13 1.42E-13 1.46E-13 1.47E-13 1.47E-13 1.47E-13

2.05E+02 0.00E+00 3.05E-14 2.32E-14 2.92E-14 3.03E-14 3.04E-14 3.04E-14 3.05E-14

2.17E+02 0.00E+00 5.75E-15 4.25E-15 5.48E-15 5.71E-15 5.73E-15 5.74E-15 5.75E-15

2.29E+02	0.00E+00	9.84E-16	7.07E-16	9.30E-16	9.78E-16	9.80E-16	9.83E-16	9.84E-16
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2.43E+02 0.00E+00 1.52E-16 1.06E-16 1.42E-16 1.51E-16 1.51E-16 1.52E-16 1.52E-16

2.57E+02	0.00E+00	2.11E-17	1.43E-17	1.96E-17	2.09E-17	2.10E-17	2.10E-17	2.11E-17
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2.72E+02	0.00E+00	2.60E-18	1.71E-18	2.39E-18	2.58E-18	2.59E-18	2.59E-18	2.60E-18
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2.88E+02	0.00E+00	2.84E-19	1.81E-19	2.55E-19	2.82E-19	2.83E-19	2.84E-19	2.84E-19
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3.00E+02	0.00E+00	5.13E-20	3.18E-20	4.52E-20	5.10E-20	5.11E-20	5.12E-20	5.13E-20
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3.05E+02 0.00E+00 2.73E-20 1.68E-20 2.40E-20 2.71E-20 2.72E-20 2.72E-20 2.73E-20

3.22E+02	0.00E+00	2.29E-21	1.36E-21	1.95E-21	2.27E-21	2.28E-21	2.28E-21	2.29E-21
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3.41E+02 0.00E+00 1.66E-22 9.49E-23 1.36E-22 1.65E-22 1.65E-22 1.66E-22 1.66E-22

3.61E+02 0.00E+00 1.03E-23 5.68E-24 8.12E-24 1.03E-23 1.03E-23 1.03E-23 1.03E-23

3.82E+02 0.00E+00 5.48E-25 2.90E-25 4.07E-25 5.44E-25 5.45E-25 5.46E-25 5.47E-25

4.04E+02 0.00E+00 2.45E-26 1.25E-26 1.71E-26 2.43E-26 2.43E-26 2.44E-26 2.44E-26

4.28E+02	0.00E+00	9.10E-28	4.49E-28	5.78E-28	9.03E-28	9.05E-28	9.07E-28	9.09E-28
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4.53E+02 0.00E+00 2.77E-29 1.32E-29 1.46E-29 2.76E-29 2.76E-29 2.76E-29 2.76E-29

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[illegible]

[illegible]


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6.01E+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
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6.36E+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
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[illegible]

[illegible]

[illegible]

[illegible]

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Summary of dose at graphical times, reptition 2								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	5.55E-02	8.28E-02	8.21E-02	8.22E-02	8.27E-02	8.27E-02	8.28E-02	8.28E-02
1.00E+00	1.99E-02	7.20E-02	7.09E-02	7.15E-02	7.19E-02	7.20E-02	7.20E-02	7.20E-02
1.06E+00	1.88E-02	7.14E-02	7.03E-02	7.09E-02	7.14E-02	7.14E-02	7.14E-02	7.14E-02
1.12E+00	1.76E-02	7.08E-02	6.97E-02	7.03E-02	7.07E-02	7.08E-02	7.08E-02	7.08E-02
1.19E+00	1.65E-02	7.01E-02	6.90E-02	6.97E-02	7.01E-02	7.01E-02	7.01E-02	7.01E-02
1.25E+00	1.54E-02	6.94E-02	6.84E-02	6.90E-02	6.94E-02	6.94E-02	6.94E-02	6.94E-02
1.33E+00	1.42E-02	6.87E-02	6.76E-02	6.83E-02	6.87E-02	6.87E-02	6.87E-02	6.87E-02
1.40E+00	1.32E-02	6.80E-02	6.69E-02	6.76E-02	6.80E-02	6.80E-02	6.80E-02	6.80E-02
1.49E+00	1.21E-02	6.72E-02	6.61E-02	6.68E-02	6.72E-02	6.72E-02	6.72E-02	6.72E-02
1.57E+00	1.11E-02	6.64E-02	6.53E-02	6.60E-02	6.64E-02	6.64E-02	6.64E-02	6.64E-02
1.66E+00	1.01E-02	6.56E-02	6.44E-02	6.51E-02	6.56E-02	6.56E-02	6.56E-02	6.56E-02
1.76E+00	9.13E-03	6.47E-02	6.35E-02	6.43E-02	6.47E-02	6.47E-02	6.47E-02	6.47E-02
1.86E+00	8.22E-03	6.38E-02	6.26E-02	6.34E-02	6.37E-02	6.38E-02	6.38E-02	6.38E-02
1.97E+00	7.35E-03	6.28E-02	6.16E-02	6.24E-02	6.28E-02	6.28E-02	6.28E-02	6.28E-02
2.09E+00	6.53E-03	6.18E-02	6.06E-02	6.14E-02	6.18E-02	6.18E-02	6.18E-02	6.18E-02
2.21E+00	5.77E-03	6.08E-02	5.95E-02	6.04E-02	6.07E-02	6.08E-02	6.08E-02	6.08E-02
2.34E+00	5.06E-03	5.97E-02	5.84E-02	5.93E-02	5.97E-02	5.97E-02	5.97E-02	5.97E-02
2.47E+00	4.40E-03	5.86E-02	5.73E-02	5.82E-02	5.85E-02	5.86E-02	5.86E-02	5.86E-02
2.62E+00	3.79E-03	5.74E-02	5.61E-02	5.70E-02	5.74E-02	5.74E-02	5.74E-02	5.74E-02
2.77E+00	3.24E-03	5.62E-02	5.49E-02	5.58E-02	5.62E-02	5.62E-02	5.62E-02	5.62E-02
2.93E+00	2.75E-03	5.49E-02	5.37E-02	5.46E-02	5.49E-02	5.49E-02	5.49E-02	5.49E-02
3.00E+00	2.57E-03	5.44E-02	5.31E-02	5.40E-02	5.44E-02	5.44E-02	5.44E-02	5.44E-02
3.310E+00	2.31E-03	5.36E-02	5.24E-02	5.33E-02	5.36E-02	5.36E-02	5.36E-02	5.36E-02
3.328E+00	1.92E-03	5.23E-02	5.10E-02	5.19E-02	5.23E-02	5.23E-02	5.23E-02	5.23E-02
3.48E+00	1.58E-03	5.09E-02	4.96E-02	5.06E-02	5.09E-02	5.09E-02	5.09E-02	5.09E-02
3.68E+00	1.28E-03	4.95E-02	4.82E-02	4.92E-02	4.95E-02	4.95E-02	4.95E-02	4.95E-02
3.89E+00	1.03E-03	4.80E-02	4.67E-02	4.77E-02	4.80E-02	4.80E-02	4.80E-02	4.80E-02
4.12E+00	8.15E-04	4.65E-02	4.53E-02	4.62E-02	4.65E-02	4.65E-02	4.65E-02	4.65E-02
4.36E+00	6.38E-04	4.50E-02	4.37E-02	4.47E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02
4.61E+00	4.92E-04	4.34E-02	4.21E-02	4.31E-02	4.34E-02	4.34E-02	4.34E-02	4.34E-02
4.88E+00	3.73E-04	4.18E-02	4.05E-02	4.15E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02
5.17E+00	2.79E-04	4.02E-02	3.88E-02	3.99E-02	4.02E-02	4.02E-02	4.02E-02	4.02E-02
5.47E+00	8.23E-10	3.85E-02	3.72E-02	3.83E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02
5.78E+00	0.00E+00	3.69E-02	3.55E-02	3.66E-02	3.68E-02	3.69E-02	3.69E-02	3.69E-02
6.12E+00	0.00E+00	3.52E-02	3.38E-02	3.49E-02	3.51E-02	3.52E-02	3.52E-02	3.52E-02
6.48E+00	0.00E+00	3.35E-02	3.21E-02	3.32E-02	3.34E-02	3.35E-02	3.35E-02	3.35E-02
6.86E+00	0.00E+00	3.17E-02	3.04E-02	3.15E-02	3.17E-02	3.17E-02	3.17E-02	3.17E-02
7.26E+00	0.00E+00	3.00E-02	2.87E-02	2.98E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
7.68E+00	0.00E+00	2.83E-02	2.70E-02	2.81E-02	2.83E-02	2.83E-02	2.83E-02	2.83E-02
8.13E+00	0.00E+00	2.66E-02	2.53E-02	2.64E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
8.60E+00	0.00E+00	2.49E-02	2.37E-02	2.47E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02
9.10E+00	0.00E+00	2.32E-02	2.20E-02	2.30E-02	2.32E-02	2.32E-02	2.32E-02	2.32E-02
9.63E+00	0.00E+00	2.15E-02	2.04E-02	2.14E-02	2.15E-02	2.15E-02	2.15E-02	2.15E-02
1.00E+01	0.00E+00	2.05E-02	1.94E-02	2.03E-02	2.04E-02	2.05E-02	2.05E-02	2.05E-02
1.02E+01	0.00E+00	1.99E-02	1.88E-02	1.98E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
1.08E+01	0.00E+00	1.83E-02	1.73E-02	1.82E-02	1.83E-02	1.83E-02	1.83E-02	1.83E-02
1.14E+01	0.00E+00	1.68E-02	1.58E-02	1.67E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
1.21E+01	0.00E+00	1.53E-02	1.44E-02	1.52E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
1.28E+01	0.00E+00	1.39E-02	1.30E-02	1.38E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02
1.35E+01	0.00E+00	1.25E-02	1.17E-02	1.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02
1.43E+01	0.00E+00	1.12E-02	1.05E-02	1.11E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02
1.51E+01	0.00E+00	9.96E-03	9.28E-03	9.89E-03	9.95E-03	9.96E-03	9.96E-03	9.96E-03
1.60E+01	0.00E+00	8.81E-03	8.19E-03	8.74E-03	8.79E-03	8.81E-03	8.81E-03	8.81E-03
1.70E+01	0.00E+00	7.73E-03	7.18E-03	7.67E-03	7.72E-03	7.73E-03	7.73E-03	7.73E-03
1.80E+01	0.00E+00	6.73E-03	6.23E-03	6.68E-03	6.72E-03	6.73E-03	6.73E-03	6.73E-03
1.90E+01	0.00E+00	5.82E-03	5.36E-03	5.77E-03	5.81E-03	5.82E-03	5.82E-03	5.82E-03

2.01E+01	0.00E+00	4.98E-03	4.59E-03	4.95E-03	4.98E-03	4.98E-03	4.98E-03	4.98E-03
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2.13E+01 0.00E+00 4.23E-03 3.88E-03 4.20E-03 4.22E-03 4.23E-03 4.23E-03 4.23E-03

2.25E+01	0.00E+00	3.56E-03	3.26E-03	3.53E-03	3.55E-03	3.56E-03	3.56E-03	3.56E-03
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2.38E+01	0.00E+00	2.96E-03	2.70E-03	2.94E-03	2.96E-03	2.96E-03	2.96E-03	2.96E-03
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2.52E+01	0.00E+00	2.44E-03	2.22E-03	2.42E-03	2.44E-03	2.44E-03	2.44E-03	2.44E-03
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2.67E+01	0.00E+00	1.99E-03	1.80E-03	1.97E-03	1.98E-03	1.99E-03	1.99E-03	1.99E-03
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2.82E+01	0.00E+00	1.60E-03	1.45E-03	1.59E-03	1.60E-03	1.60E-03	1.60E-03	1.60E-03
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2.99E+01	0.00E+00	1.27E-03	1.15E-03	1.26E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03
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3.00E+01	0.00E+00	1.25E-03	1.13E-03	1.24E-03	1.25E-03	1.25E-03	1.25E-03	1.25E-03
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3.16E+01	0.00E+00	9.97E-04	8.97E-04	9.88E-04	9.94E-04	9.96E-04	9.96E-04	9.97E-04
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3.35E+01	0.00E+00	7.70E-04	6.92E-04	7.63E-04	7.68E-04	7.70E-04	7.70E-04	7.70E-04
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3.54E+01	0.00E+00	5.87E-04	5.26E-04	5.81E-04	5.85E-04	5.86E-04	5.87E-04	5.87E-04
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3.75E+01 0.00E+00 4.40E-04 3.92E-04 4.35E-04 4.39E-04 4.39E-04 4.40E-04 4.40E-04

3.97E+01	0.00E+00	3.24E-04	2.88E-04	3.21E-04	3.23E-04	3.24E-04	3.24E-04	3.24E-04
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4.20E+01	0.00E+00	2.35E-04	2.08E-04	2.32E-04	2.34E-04	2.34E-04	2.35E-04	2.35E-04
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4.44E+01	0.00E+00	1.67E-04	1.47E-04	1.65E-04	1.66E-04	1.67E-04	1.67E-04	1.67E-04
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4.70E+01	0.00E+00	1.16E-04	1.02E-04	1.15E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04
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4.97E+01 0.00E+00 7.92E-05 6.96E-05 7.84E-05 7.90E-05 7.91E-05 7.92E-05 7.92E-05

5.26E+01	0.00E+00	5.28E-05	4.62E-05	5.23E-05	5.27E-05	5.28E-05	5.28E-05	5.28E-05
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5.57E+01	0.00E+00	3.44E-05	3.00E-05	3.40E-05	3.43E-05	3.44E-05	3.44E-05	3.44E-05
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5.90E+01	0.00E+00	2.19E-05	1.90E-05	2.16E-05	2.18E-05	2.18E-05	2.19E-05	2.19E-05
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6.24E+01	0.00E+00	1.35E-05	1.17E-05	1.34E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05
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6.60E+01 0.00E+00 8.15E-06 7.02E-06 8.04E-06 8.12E-06 8.13E-06 8.14E-06 8.15E-06

6.99E+01	0.00E+00	4.76E-06	4.08E-06	4.70E-06	4.74E-06	4.75E-06	4.76E-06	4.76E-06
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7.39E+01	0.00E+00	2.69E-06	2.30E-06	2.66E-06	2.68E-06	2.69E-06	2.69E-06	2.69E-06
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7.82E+01 0.00E+00 1.48E-06 1.26E-06 1.46E-06 1.47E-06 1.47E-06 1.48E-06 1.48E-06

8.28E+01 0.00E+00 7.81E-07 6.62E-07 7.69E-07 7.78E-07 7.79E-07 7.80E-07 7.81E-07

8.76E+01	0.00E+00	3.98E-07	3.35E-07	3.92E-07	3.96E-07	3.97E-07	3.98E-07	3.98E-07
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9.27E+01	0.00E+00	1.95E-07	1.64E-07	1.92E-07	1.94E-07	1.94E-07	1.95E-07	1.95E-07
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9.81E+01	0.00E+00	9.16E-08	7.66E-08	9.02E-08	9.12E-08	9.14E-08	9.16E-08	9.16E-08
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1.00E+02 0.00E+00 7.06E-08 5.88E-08 6.94E-08 7.03E-08 7.04E-08 7.05E-08 7.06E-08

1.04E+02 0.00E+00 4.12E-08 3.43E-08 4.05E-08 4.10E-08 4.11E-08 4.12E-08 4.12E-08

1.10E+02 0.00E+00 1.77E-08 1.47E-08 1.74E-08 1.76E-08 1.76E-08 1.77E-08 1.77E-08

1.16E+02 0.00E+00 7.24E-09 5.97E-09 7.10E-09 7.20E-09 7.21E-09 7.23E-09 7.23E-09

1.23E+02 0.00E+00 2.81E-09 2.31E-09 2.75E-09 2.79E-09 2.80E-09 2.81E-09 2.81E-09

1.30E+02 0.00E+00 1.03E-09 8.42E-10 1.01E-09 1.03E-09 1.03E-09 1.03E-09 1.03E-09

1.38E+02 0.00E+00 3.57E-10 2.90E-10 3.49E-10 3.55E-10 3.56E-10 3.57E-10 3.57E-10

1.46E+02 0.00E+00 1.16E-10 9.40E-11 1.14E-10 1.16E-10 1.16E-10 1.16E-10 1.16E-10

1.54E+02	0.00E+00	3.55E-11	2.85E-11	3.46E-11	3.52E-11	3.53E-11	3.54E-11	3.54E-11
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1.63E+02	0.00E+00	1.01E-11	8.07E-12	9.84E-12	1.00E-11	1.00E-11	1.01E-11	1.01E-11
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1.73E+02 0.00E+00 2.67E-12 2.12E-12 2.60E-12 2.65E-12 2.66E-12 2.67E-12 2.67E-12

1.83E+02 0.00E+00 6.53E-13 5.16E-13 6.34E-13 6.49E-13 6.51E-13 6.53E-13 6.53E-13

1.94E+02 0.00E+00 1.47E-13 1.15E-13 1.43E-13 1.46E-13 1.47E-13 1.47E-13 1.47E-13

2.05E+02 0.00E+00 3.05E-14 2.33E-14 2.93E-14 3.03E-14 3.03E-14 3.04E-14 3.05E-14

2.17E+02	0.00E+00	5.75E-15	4.30E-15	5.49E-15	5.71E-15	5.72E-15	5.74E-15	5.75E-15
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2.29E+02	0.00E+00	9.84E-16	7.16E-16	9.35E-16	9.77E-16	9.80E-16	9.83E-16	9.84E-16
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2.43E+02 0.00E+00 1.52E-16 1.08E-16 1.43E-16 1.51E-16 1.51E-16 1.52E-16 1.52E-16

2.57E+02	0.00E+00	2.11E-17	1.46E-17	1.96E-17	2.09E-17	2.10E-17	2.10E-17	2.11E-17
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2.72E+02	0.00E+00	2.60E-18	1.74E-18	2.39E-18	2.58E-18	2.59E-18	2.60E-18	2.60E-18
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2.88E+02	0.00E+00	2.84E-19	1.85E-19	2.56E-19	2.82E-19	2.83E-19	2.84E-19	2.84E-19
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3.00E+02 0.00E+00 5.13E-20 3.26E-20 4.55E-20 5.09E-20 5.10E-20 5.12E-20 5.13E-20

3.05E+02 0.00E+00 2.73E-20 1.72E-20 2.41E-20 2.71E-20 2.72E-20 2.72E-20 2.73E-20

3.22E+02 0.00E+00 2.29E-21 1.40E-21 1.98E-21 2.27E-21 2.28E-21 2.28E-21 2.29E-21

3.41E+02 0.00E+00 1.66E-22 9.84E-23 1.38E-22 1.65E-22 1.65E-22 1.66E-22 1.66E-22

3.61E+02	0.00E+00	1.03E-23	5.92E-24	8.31E-24	1.03E-23	1.03E-23	1.03E-23	1.03E-23
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3.82E+02 0.00E+00 5.48E-25 3.03E-25 4.26E-25 5.43E-25 5.44E-25 5.46E-25 5.47E-25

4.04E+02 0.00E+00 2.45E-26 1.31E-26 1.81E-26 2.42E-26 2.43E-26 2.44E-26 2.44E-26

4.28E+02 0.00E+00 9.10E-28 4.72E-28 6.49E-28 9.02E-28 9.04E-28 9.07E-28 9.09E-28

4.53E+02 0.00E+00 2.76E-29 1.39E-29 1.83E-29 2.76E-29 2.76E-29 2.76E-29 2.76E-29

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4.79E+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

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Summary of dose at graphical times, reptition 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	6.38E-02	8.28E-02	8.22E-02	8.22E-02	8.27E-02	8.27E-02	8.28E-02	8.28E-02
1.00E+00	3.22E-02	7.20E-02	7.11E-02	7.15E-02	7.19E-02	7.20E-02	7.20E-02	7.20E-02
1.06E+00	3.09E-02	7.14E-02	7.05E-02	7.09E-02	7.14E-02	7.14E-02	7.14E-02	7.14E-02
1.12E+00	2.97E-02	7.08E-02	6.99E-02	7.03E-02	7.08E-02	7.08E-02	7.08E-02	7.08E-02
1.19E+00	2.84E-02	7.01E-02	6.92E-02	6.97E-02	7.01E-02	7.01E-02	7.01E-02	7.01E-02
1.25E+00	2.71E-02	6.94E-02	6.85E-02	6.90E-02	6.94E-02	6.94E-02	6.94E-02	6.94E-02
1.33E+00	2.57E-02	6.87E-02	6.78E-02	6.83E-02	6.87E-02	6.87E-02	6.87E-02	6.87E-02
1.40E+00	2.44E-02	6.80E-02	6.71E-02	6.76E-02	6.80E-02	6.80E-02	6.80E-02	6.80E-02
1.49E+00	2.31E-02	6.72E-02	6.63E-02	6.68E-02	6.72E-02	6.72E-02	6.72E-02	6.72E-02
1.57E+00	2.18E-02	6.64E-02	6.55E-02	6.60E-02	6.64E-02	6.64E-02	6.64E-02	6.64E-02
1.66E+00	2.04E-02	6.56E-02	6.46E-02	6.51E-02	6.56E-02	6.56E-02	6.56E-02	6.56E-02
1.76E+00	1.91E-02	6.47E-02	6.37E-02	6.43E-02	6.47E-02	6.47E-02	6.47E-02	6.47E-02
1.86E+00	1.78E-02	6.38E-02	6.28E-02	6.33E-02	6.38E-02	6.38E-02	6.38E-02	6.38E-02
1.97E+00	1.65E-02	6.28E-02	6.18E-02	6.24E-02	6.28E-02	6.28E-02	6.28E-02	6.28E-02
2.09E+00	1.53E-02	6.18E-02	6.08E-02	6.14E-02	6.18E-02	6.18E-02	6.18E-02	6.18E-02
2.21E+00	1.41E-02	6.08E-02	5.97E-02	6.04E-02	6.08E-02	6.08E-02	6.08E-02	6.08E-02
2.34E+00	1.29E-02	5.97E-02	5.86E-02	5.93E-02	5.97E-02	5.97E-02	5.97E-02	5.97E-02
2.47E+00	1.17E-02	5.86E-02	5.75E-02	5.82E-02	5.85E-02	5.86E-02	5.86E-02	5.86E-02
2.62E+00	1.06E-02	5.74E-02	5.63E-02	5.70E-02	5.74E-02	5.74E-02	5.74E-02	5.74E-02
2.77E+00	9.59E-03	5.62E-02	5.51E-02	5.58E-02	5.62E-02	5.62E-02	5.62E-02	5.62E-02
2.93E+00	8.59E-03	5.49E-02	5.38E-02	5.46E-02	5.49E-02	5.49E-02	5.49E-02	5.49E-02
3.00E+00	8.20E-03	5.44E-02	5.33E-02	5.40E-02	5.44E-02	5.44E-02	5.44E-02	5.44E-02
3.310E+00	7.64E-03	5.36E-02	5.25E-02	5.33E-02	5.36E-02	5.36E-02	5.36E-02	5.36E-02
3.328E+00	6.75E-03	5.23E-02	5.12E-02	5.19E-02	5.23E-02	5.23E-02	5.23E-02	5.23E-02
3.48E+00	5.92E-03	5.09E-02	4.98E-02	5.06E-02	5.09E-02	5.09E-02	5.09E-02	5.09E-02
3.68E+00	5.16E-03	4.95E-02	4.84E-02	4.91E-02	4.95E-02	4.95E-02	4.95E-02	4.95E-02
3.89E+00	4.45E-03	4.80E-02	4.69E-02	4.77E-02	4.80E-02	4.80E-02	4.80E-02	4.80E-02
4.12E+00	3.81E-03	4.65E-02	4.54E-02	4.62E-02	4.65E-02	4.65E-02	4.65E-02	4.65E-02
4.36E+00	3.24E-03	4.50E-02	4.39E-02	4.47E-02	4.50E-02	4.50E-02	4.50E-02	4.50E-02
4.61E+00	2.72E-03	4.34E-02	4.23E-02	4.31E-02	4.34E-02	4.34E-02	4.34E-02	4.34E-02
4.88E+00	2.26E-03	4.18E-02	4.07E-02	4.15E-02	4.18E-02	4.18E-02	4.18E-02	4.18E-02
5.17E+00	1.86E-03	4.02E-02	3.90E-02	3.99E-02	4.02E-02	4.02E-02	4.02E-02	4.02E-02
5.47E+00	2.18E-08	3.85E-02	3.74E-02	3.83E-02	3.85E-02	3.85E-02	3.85E-02	3.85E-02
5.78E+00	0.00E+00	3.69E-02	3.57E-02	3.66E-02	3.68E-02	3.69E-02	3.69E-02	3.69E-02
6.12E+00	0.00E+00	3.52E-02	3.39E-02	3.49E-02	3.52E-02	3.52E-02	3.52E-02	3.52E-02
6.48E+00	0.00E+00	3.35E-02	3.22E-02	3.32E-02	3.34E-02	3.35E-02	3.35E-02	3.35E-02
6.86E+00	0.00E+00	3.17E-02	3.05E-02	3.15E-02	3.17E-02	3.17E-02	3.17E-02	3.17E-02
7.26E+00	0.00E+00	3.00E-02	2.88E-02	2.98E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
7.68E+00	0.00E+00	2.83E-02	2.71E-02	2.81E-02	2.83E-02	2.83E-02	2.83E-02	2.83E-02
8.13E+00	0.00E+00	2.66E-02	2.54E-02	2.64E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02
8.60E+00	0.00E+00	2.49E-02	2.38E-02	2.47E-02	2.49E-02	2.49E-02	2.49E-02	2.49E-02
9.10E+00	0.00E+00	2.32E-02	2.21E-02	2.30E-02	2.32E-02	2.32E-02	2.32E-02	2.32E-02
9.63E+00	0.00E+00	2.15E-02	2.05E-02	2.14E-02	2.15E-02	2.15E-02	2.15E-02	2.15E-02
1.00E+01	0.00E+00	2.05E-02	1.94E-02	2.03E-02	2.04E-02	2.05E-02	2.05E-02	2.05E-02
1.02E+01	0.00E+00	1.99E-02	1.89E-02	1.98E-02	1.99E-02	1.99E-02	1.99E-02	1.99E-02
1.08E+01	0.00E+00	1.83E-02	1.74E-02	1.82E-02	1.83E-02	1.83E-02	1.83E-02	1.83E-02
1.14E+01	0.00E+00	1.68E-02	1.59E-02	1.67E-02	1.68E-02	1.68E-02	1.68E-02	1.68E-02
1.21E+01	0.00E+00	1.53E-02	1.44E-02	1.52E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
1.28E+01	0.00E+00	1.39E-02	1.31E-02	1.38E-02	1.39E-02	1.39E-02	1.39E-02	1.39E-02
1.35E+01	0.00E+00	1.25E-02	1.17E-02	1.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02
1.43E+01	0.00E+00	1.12E-02	1.05E-02	1.11E-02	1.12E-02	1.12E-02	1.12E-02	1.12E-02
1.51E+01	0.00E+00	9.96E-03	9.31E-03	9.89E-03	9.95E-03	9.96E-03	9.96E-03	9.96E-03
1.60E+01	0.00E+00	8.81E-03	8.21E-03	8.74E-03	8.80E-03	8.81E-03	8.81E-03	8.81E-03
1.70E+01	0.00E+00	7.73E-03	7.19E-03	7.67E-03	7.72E-03	7.73E-03	7.73E-03	7.73E-03
1.80E+01	0.00E+00	6.73E-03	6.25E-03	6.68E-03	6.72E-03	6.73E-03	6.73E-03	6.73E-03
1.90E+01	0.00E+00	5.82E-03	5.39E-03	5.77E-03	5.81E-03	5.82E-03	5.82E-03	5.82E-03

2.01E+01	0.00E+00	4.98E-03	4.60E-03	4.94E-03	4.98E-03	4.98E-03	4.98E-03	4.98E-03
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2.13E+01	0.00E+00	4.23E-03	3.90E-03	4.20E-03	4.22E-03	4.23E-03	4.23E-03	4.23E-03
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2.25E+01	0.00E+00	3.56E-03	3.27E-03	3.53E-03	3.55E-03	3.56E-03	3.56E-03	3.56E-03
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2.38E+01	0.00E+00	2.96E-03	2.71E-03	2.94E-03	2.96E-03	2.96E-03	2.96E-03	2.96E-03
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2.52E+01	0.00E+00	2.44E-03	2.22E-03	2.42E-03	2.44E-03	2.44E-03	2.44E-03	2.44E-03
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2.67E+01	0.00E+00	1.99E-03	1.81E-03	1.97E-03	1.98E-03	1.99E-03	1.99E-03	1.99E-03
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2.82E+01	0.00E+00	1.60E-03	1.45E-03	1.59E-03	1.60E-03	1.60E-03	1.60E-03	1.60E-03
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2.99E+01	0.00E+00	1.27E-03	1.15E-03	1.26E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03	1.27E-03
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3.00E+01	0.00E+00	1.25E-03	1.13E-03	1.24E-03	1.25E-03	1.25E-03	1.25E-03	1.25E-03
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3.16E+01 0.00E+00 9.97E-04 8.99E-04 9.88E-04 9.94E-04 9.96E-04 9.97E-04 9.97E-04

3.35E+01	0.00E+00	7.70E-04	6.93E-04	7.63E-04	7.68E-04	7.70E-04	7.70E-04	7.70E-04
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3.54E+01	0.00E+00	5.87E-04	5.26E-04	5.81E-04	5.85E-04	5.86E-04	5.87E-04	5.87E-04
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3.75E+01	0.00E+00	4.40E-04	3.93E-04	4.36E-04	4.39E-04	4.39E-04	4.40E-04	4.40E-04
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3.97E+01	0.00E+00	3.24E-04	2.88E-04	3.21E-04	3.23E-04	3.24E-04	3.24E-04	3.24E-04
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4.20E+01	0.00E+00	2.35E-04	2.08E-04	2.32E-04	2.34E-04	2.34E-04	2.35E-04	2.35E-04
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4.44E+01	0.00E+00	1.67E-04	1.47E-04	1.65E-04	1.66E-04	1.67E-04	1.67E-04	1.67E-04
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4.70E+01	0.00E+00	1.16E-04	1.02E-04	1.15E-04	1.16E-04	1.16E-04	1.16E-04	1.16E-04
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4.97E+01 0.00E+00 7.92E-05 6.95E-05 7.83E-05 7.90E-05 7.91E-05 7.92E-05 7.92E-05

5.26E+01	0.00E+00	5.28E-05	4.62E-05	5.22E-05	5.27E-05	5.28E-05	5.28E-05	5.28E-05
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5.57E+01	0.00E+00	3.44E-05	3.00E-05	3.40E-05	3.43E-05	3.44E-05	3.44E-05	3.44E-05
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5.90E+01	0.00E+00	2.19E-05	1.90E-05	2.16E-05	2.18E-05	2.18E-05	2.19E-05	2.19E-05
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6.24E+01	0.00E+00	1.35E-05	1.17E-05	1.34E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05
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6.60E+01	0.00E+00	8.15E-06	7.02E-06	8.04E-06	8.12E-06	8.13E-06	8.14E-06	8.15E-06
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6.99E+01	0.00E+00	4.76E-06	4.09E-06	4.69E-06	4.74E-06	4.75E-06	4.76E-06	4.76E-06
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7.39E+01	0.00E+00	2.69E-06	2.30E-06	2.66E-06	2.68E-06	2.69E-06	2.69E-06	2.69E-06
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7.82E+01	0.00E+00	1.48E-06	1.26E-06	1.45E-06	1.47E-06	1.47E-06	1.48E-06	1.48E-06
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8.28E+01	0.00E+00	7.81E-07	6.62E-07	7.68E-07	7.78E-07	7.79E-07	7.80E-07	7.81E-07
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8.76E+01	0.00E+00	3.98E-07	3.36E-07	3.91E-07	3.96E-07	3.97E-07	3.98E-07	3.98E-07
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9.27E+01	0.00E+00	1.95E-07	1.64E-07	1.91E-07	1.94E-07	1.95E-07	1.95E-07	1.95E-07
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9.81E+01 0.00E+00 9.16E-08 7.65E-08 8.99E-08 9.12E-08 9.14E-08 9.16E-08 9.16E-08

1.00E+02 0.00E+00 7.06E-08 5.88E-08 6.92E-08 7.02E-08 7.04E-08 7.05E-08 7.06E-08

1.04E+02 0.00E+00 4.12E-08 3.43E-08 4.04E-08 4.10E-08 4.11E-08 4.12E-08 4.12E-08

1.10E+02 0.00E+00 1.77E-08 1.47E-08 1.73E-08 1.76E-08 1.77E-08 1.77E-08 1.77E-08

1.16E+02 0.00E+00 7.24E-09 5.95E-09 7.08E-09 7.20E-09 7.22E-09 7.23E-09 7.23E-09

1.23E+02 0.00E+00 2.81E-09 2.30E-09 2.75E-09 2.79E-09 2.80E-09 2.81E-09 2.81E-09

1.30E+02 0.00E+00 1.03E-09 8.41E-10 1.01E-09 1.03E-09 1.03E-09 1.03E-09 1.03E-09

1.38E+02 0.00E+00 3.57E-10 2.90E-10 3.49E-10 3.55E-10 3.56E-10 3.57E-10 3.57E-10

1.46E+02 0.00E+00 1.16E-10 9.41E-11 1.13E-10 1.16E-10 1.16E-10 1.16E-10 1.16E-10

1.54E+02	0.00E+00	3.55E-11	2.86E-11	3.45E-11	3.52E-11	3.53E-11	3.54E-11	3.55E-11
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1.63E+02	0.00E+00	1.01E-11	8.07E-12	9.82E-12	1.00E-11	1.01E-11	1.01E-11	1.01E-11
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1.73E+02	0.00E+00	2.67E-12	2.12E-12	2.59E-12	2.65E-12	2.66E-12	2.67E-12	2.67E-12
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1.83E+02 0.00E+00 6.53E-13 5.16E-13 6.33E-13 6.49E-13 6.51E-13 6.53E-13 6.53E-13

1.94E+02 0.00E+00 1.47E-13 1.15E-13 1.42E-13 1.46E-13 1.47E-13 1.47E-13 1.47E-13

2.05E+02 0.00E+00 3.05E-14 2.34E-14 2.93E-14 3.03E-14 3.03E-14 3.04E-14 3.05E-14

2.17E+02	0.00E+00	5.75E-15	4.32E-15	5.49E-15	5.71E-15	5.72E-15	5.74E-15	5.75E-15
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2.29E+02	0.00E+00	9.84E-16	7.18E-16	9.35E-16	9.77E-16	9.80E-16	9.83E-16	9.84E-16
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2.43E+02 0.00E+00 1.52E-16 1.08E-16 1.43E-16 1.51E-16 1.51E-16 1.52E-16 1.52E-16

2.57E+02	0.00E+00	2.11E-17	1.45E-17	1.96E-17	2.09E-17	2.10E-17	2.10E-17	2.11E-17
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2.72E+02	0.00E+00	2.60E-18	1.73E-18	2.39E-18	2.58E-18	2.59E-18	2.59E-18	2.60E-18
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2.88E+02 0.00E+00 2.84E-19 1.83E-19 2.57E-19 2.82E-19 2.83E-19 2.83E-19 2.84E-19

3.00E+02 0.00E+00 5.13E-20 3.24E-20 4.54E-20 5.09E-20 5.10E-20 5.12E-20 5.13E-20

3.05E+02 0.00E+00 2.73E-20 1.71E-20 2.40E-20 2.71E-20 2.72E-20 2.72E-20 2.73E-20

3.22E+02	0.00E+00	2.29E-21	1.38E-21	1.97E-21	2.27E-21	2.28E-21	2.28E-21	2.29E-21
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3.41E+02 0.00E+00 1.66E-22 9.70E-23 1.40E-22 1.65E-22 1.65E-22 1.65E-22 1.66E-22

3.61E+02 0.00E+00 1.03E-23 5.84E-24 8.36E-24 1.03E-23 1.03E-23 1.03E-23 1.03E-23

3.82E+02	0.00E+00	5.48E-25	2.98E-25	4.30E-25	5.43E-25	5.44E-25	5.46E-25	5.47E-25
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4.04E+02 0.00E+00 2.45E-26 1.29E-26 1.84E-26 2.43E-26 2.43E-26 2.43E-26 2.44E-26

4.28E+02 0.00E+00 9.10E-28 4.65E-28 6.45E-28 9.02E-28 9.04E-28 9.06E-28 9.09E-28

4.53E+02 0.00E+00 2.77E-29 1.37E-29 1.75E-29 2.76E-29 2.76E-29 2.76E-29 2.76E-29

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[illegible]

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6.01E+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
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

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

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	8.214E-02
2	0.000E+00	8.208E-02
3	0.000E+00	8.216E-02

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
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Contaminated zone erosion rate	12	0.02	12	0.02	7	0.07	7	0.03
Contaminated zone b parameter	8	-0.03	8	-0.03	13	0.03	13	0.01
Evapotranspiration coefficient	4	0.04	4	0.04	3	0.17	3	0.07
Wind Speed	3	0.07	3	0.07	18	0.01	18	0.00
Runoff coefficient	2	0.11	2	0.10	5	0.08	5	0.03
Well pump intake depth	17	-0.01	17	-0.01	14	0.03	14	0.01
b Parameter of Unsaturated zone 1	16	0.01	16	0.01	11	-0.04	11	-0.02
Mass loading for inhalation	10	-0.03	10	-0.02	15	-0.02	15	-0.01
Indoor dust filtration factor	18	0.00	18	0.00	10	0.04	10	0.02
Depth of soil mixing layer	7	0.04	7	0.04	12	0.03	12	0.01
Depth of roots	1	-0.25	1	-0.25	1	-0.88	1	-0.81
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	0.01	13	0.01	4	-0.09	4	-0.04
Weathering removal constant of all vegetation	9	0.03	9	0.03	9	0.05	9	0.02
Wet foliar interception fraction of leafy vegetables	5	-0.04	6	-0.04	8	-0.06	8	-0.03
Humidity in air	15	0.01	15	0.01	16	0.01	16	0.01
Kd of Eu-155 in Contaminated Zone	6	0.04	5	0.04	2	0.64	2	0.36
Kd of Eu-155 in Unsaturated Zone 1	11	0.02	11	0.02	6	0.07	6	0.03
Kd of Eu-155 in Saturated Zone	14	-0.01	14	-0.01	17	0.01	17	0.00

R-SQUARE	0.08	0.08	0.82	0.82
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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 SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
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Contaminated zone erosion rate	17	0.01	17	0.01	7	-0.06	7	-0.03
Contaminated zone b parameter	3	-0.09	3	-0.09	16	0.00	16	0.00
Evapotranspiration coefficient	1	0.14	1	0.13	3	0.19	3	0.09
Wind Speed	14	-0.02	14	-0.02	12	0.02	12	0.01
Runoff coefficient	7	0.05	7	0.05	4	0.07	4	0.03
Well pump intake depth	4	0.07	4	0.07	15	0.01	15	0.00
b Parameter of Unsaturated zone 1	9	-0.04	9	-0.04	5	-0.06	5	-0.03
Mass loading for inhalation	8	-0.04	8	-0.04	6	0.06	6	0.03
Indoor dust filtration factor	11	0.03	11	0.03	17	0.00	17	0.00
Depth of soil mixing layer	6	-0.06	6	-0.06	9	0.05	9	0.02
Depth of roots	2	-0.09	2	-0.09	1	-0.87	1	-0.79
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.01	16	-0.01	14	0.01	14	0.00
Weathering removal constant of all vegetation	5	-0.06	5	-0.06	13	0.01	13	0.01
Wet foliar interception fraction of leafy vegetables	13	0.02	13	0.02	8	0.05	8	0.02
Humidity in air	10	-0.03	10	-0.03	18	0.00	18	0.00
Kd of Eu-155 in Contaminated Zone	15	0.02	15	0.02	2	0.63	2	0.37
Kd of Eu-155 in Unsaturated Zone 1	18	0.00	18	0.00	11	-0.04	11	-0.02
Kd of Eu-155 in Saturated Zone	12	0.02	12	0.02	10	-0.05	10	-0.02

R-SQUARE	0.05	0.05	0.79	0.79
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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 SOIL UNCERTAINTY ANALYSIS EU-155.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	3	3	3	3

Description of Probabilistic Variable	Sig Coeff	Sig Coeff	Sig Coeff	Sig Coeff
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Contaminated zone erosion rate	14	0.02	14	0.02	6	0.07	6	0.03
Contaminated zone b parameter	11	0.04	11	0.04	7	-0.06	7	-0.02
Evapotranspiration coefficient	2	0.10	2	0.10	4	0.10	4	0.04
Wind Speed	5	-0.06	5	-0.06	17	0.01	17	0.00
Runoff coefficient	8	0.05	8	0.05	9	0.04	9	0.02
Well pump intake depth	18	0.01	18	0.01	18	-0.01	18	0.00
b Parameter of Unsaturated zone 1	17	-0.01	17	-0.01	8	0.05	8	0.02
Mass loading for inhalation	3	-0.07	3	-0.07	10	-0.04	10	-0.02
Indoor dust filtration factor	13	-0.03	13	-0.03	3	0.11	3	0.04
Depth of soil mixing layer	6	0.06	6	0.06	16	0.01	16	0.00
Depth of roots	1	-0.25	1	-0.25	1	-0.90	1	-0.84
Wet weight crop yield of fruit, grain and non-leafy vegetables	15	0.01	15	0.01	11	0.03	11	0.01
Weathering removal constant of all vegetation	4	-0.07	4	-0.06	5	-0.08	5	-0.03
Wet foliar interception fraction of leafy vegetables	9	-0.04	9	-0.04	15	0.01	15	0.01
Humidity in air	7	0.06	7	0.06	13	0.02	13	0.01
Kd of Eu-155 in Contaminated Zone	10	0.04	10	0.04	2	0.65	2	0.34
Kd of Eu-155 in Unsaturated Zone 1	12	-0.03	12	-0.03	12	-0.02	12	-0.01
Kd of Eu-155 in Saturated Zone	16	0.01	16	0.01	14	0.02	14	0.01

R-SQUARE	0.10	0.10	0.84	0.84
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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.