

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	SHF3	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-154										
Min	0.00E+00	2.33E+00	2.33E+00	8.88E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.49E+00	3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.91E-10	0.00E+00
Avg	0.00E+00	3.48E+00	3.48E+00	3.19E+00	2.71E+00	1.51E+00	2.97E-01	1.11E-03	1.18E-10	0.00E+00
Std	0.00E+00	5.92E-02	5.92E-02	1.39E-01	2.07E-01	2.58E-01	7.78E-02	4.07E-04	8.07E-11	0.00E+00
ALL										
Min	0.00E+00	2.33E+00	2.33E+00	8.88E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.49E+00	3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.91E-10	0.00E+00
Avg	0.00E+00	3.48E+00	3.48E+00	3.19E+00	2.71E+00	1.51E+00	2.97E-01	1.11E-03	1.18E-10	0.00E+00
Std	0.00E+00	5.92E-02	5.92E-02	1.39E-01	2.07E-01	2.58E-01	7.78E-02	4.07E-04	8.07E-11	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
Eu-154									
Min		8.26E-05	3.16E-05	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.28E-05	7.66E-05	6.54E-05	3.77E-05	7.80E-06	3.14E-08	4.53E-15	0.00E+00
Avg		8.27E-05	7.60E-05	6.43E-05	3.59E-05	7.06E-06	2.62E-08	2.80E-15	0.00E+00
Std		7.27E-08	2.44E-06	4.50E-06	5.97E-06	1.84E-06	9.65E-09	1.91E-15	0.00E+00
ΣALL									
Min		8.26E-05	3.16E-05	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.28E-05	7.66E-05	6.54E-05	3.77E-05	7.80E-06	3.14E-08	4.53E-15	0.00E+00
Avg		8.27E-05	7.60E-05	6.43E-05	3.59E-05	7.06E-06	2.62E-08	2.80E-15	0.00E+00
Std		7.27E-08	2.44E-06	4.50E-06	5.97E-06	1.84E-06	9.65E-09	1.91E-15	0.00E+00

ΣALL 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-154									
Min		2.32E+00	8.86E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
Avg		3.47E+00	3.19E+00	2.70E+00	1.51E+00	2.97E-01	1.10E-03	1.18E-10	0.00E+00
Std		5.91E-02	1.38E-01	2.07E-01	2.57E-01	7.77E-02	4.07E-04	8.06E-11	0.00E+00
ΣALL									
Min		2.32E+00	8.86E-01	1.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
Avg		3.47E+00	3.19E+00	2.70E+00	1.51E+00	2.97E-01	1.10E-03	1.18E-10	0.00E+00
Std		5.91E-02	1.38E-01	2.07E-01	2.57E-01	7.77E-02	4.07E-04	8.06E-11	0.00E+00

ΣALL 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-154									
Min		1.05E-08	9.68E-09	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.32E-05	2.15E-05	1.83E-05	1.06E-05	2.19E-06	8.80E-09	1.27E-15	0.00E+00
Avg		3.73E-06	3.43E-06	2.91E-06	1.62E-06	3.19E-07	1.19E-09	1.23E-16	0.00E+00
Std		2.27E-06	2.10E-06	1.79E-06	1.04E-06	2.19E-07	9.00E-10	1.31E-16	0.00E+00
ΣALL									
Min		1.05E-08	9.68E-09	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.32E-05	2.15E-05	1.83E-05	1.06E-05	2.19E-06	8.80E-09	1.27E-15	0.00E+00
Avg		3.73E-06	3.43E-06	2.91E-06	1.62E-06	3.19E-07	1.19E-09	1.23E-16	0.00E+00
Std		2.27E-06	2.10E-06	1.79E-06	1.04E-06	2.19E-07	9.00E-10	1.31E-16	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
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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
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic 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
Eu-154									
Min		1.22E-03	7.39E-04	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.17E-03	4.77E-03	4.08E-03	2.35E-03	4.86E-04	1.96E-06	2.82E-13	0.00E+00
Avg		2.90E-03	2.66E-03	2.24E-03	1.24E-03	2.39E-04	8.05E-07	6.94E-14	0.00E+00
Std		1.40E-03	1.30E-03	1.11E-03	6.59E-04	1.40E-04	5.66E-07	7.78E-14	0.00E+00
ΣALL									
Min		1.22E-03	7.39E-04	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.17E-03	4.77E-03	4.08E-03	2.35E-03	4.86E-04	1.96E-06	2.82E-13	0.00E+00
Avg		2.90E-03	2.66E-03	2.24E-03	1.24E-03	2.39E-04	8.05E-07	6.94E-14	0.00E+00
Std		1.40E-03	1.30E-03	1.11E-03	6.59E-04	1.40E-04	5.66E-07	7.78E-14	0.00E+00

ΣALL 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-154									
Min		1.38E-03	5.31E-04	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.96E-03	1.81E-03	1.55E-03	8.91E-04	1.84E-04	7.43E-07	1.07E-13	0.00E+00
Avg		1.83E-03	1.68E-03	1.42E-03	7.94E-04	1.56E-04	5.77E-07	5.88E-14	0.00E+00
Std		7.98E-05	9.93E-05	1.24E-04	1.41E-04	4.17E-05	2.14E-07	4.23E-14	0.00E+00
ΣALL									
Min		1.38E-03	5.31E-04	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.96E-03	1.81E-03	1.55E-03	8.91E-04	1.84E-04	7.43E-07	1.07E-13	0.00E+00
Avg		1.83E-03	1.68E-03	1.42E-03	7.94E-04	1.56E-04	5.77E-07	5.88E-14	0.00E+00
Std		7.98E-05	9.93E-05	1.24E-04	1.41E-04	4.17E-05	2.14E-07	4.23E-14	0.00E+00

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Eu-154									
Min		1.48E-04	6.10E-05	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.32E-04	2.14E-04	1.83E-04	1.06E-04	2.18E-05	8.80E-08	1.27E-14	0.00E+00
Avg		2.03E-04	1.87E-04	1.58E-04	8.79E-05	1.73E-05	6.32E-08	6.35E-15	0.00E+00
Std		1.77E-05	1.80E-05	1.83E-05	1.71E-05	4.80E-06	2.41E-08	4.63E-15	0.00E+00
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Gd-153									
Min		1.48E-04	6.10E-05	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.32E-04	2.14E-04	1.83E-04	1.06E-04	2.18E-05	8.80E-08	1.27E-14	0.00E+00
Avg		2.03E-04	1.87E-04	1.58E-04	8.79E-05	1.73E-05	6.32E-08	6.35E-15	0.00E+00
Std		1.77E-05	1.80E-05	1.83E-05	1.71E-05	4.80E-06	2.41E-08	4.63E-15	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-154									
Min		8.75E-05	3.34E-05	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.31E-04	1.21E-04	1.03E-04	5.96E-05	1.23E-05	4.97E-08	7.16E-15	0.00E+00
Avg		1.31E-04	1.20E-04	1.02E-04	5.67E-05	1.12E-05	4.16E-08	4.29E-15	0.00E+00
Std		2.22E-06	5.21E-06	7.79E-06	9.82E-06	2.95E-06	1.53E-08	3.07E-15	0.00E+00
<hr/>									
ALL									
Min		8.75E-05	3.34E-05	4.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.31E-04	1.21E-04	1.03E-04	5.96E-05	1.23E-05	4.97E-08	7.16E-15	0.00E+00
Avg		1.31E-04	1.20E-04	1.02E-04	5.67E-05	1.12E-05	4.16E-08	4.29E-15	0.00E+00
Std		2.22E-06	5.21E-06	7.79E-06	9.82E-06	2.95E-06	1.53E-08	3.07E-15	0.00E+00
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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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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		2.70E-05	4.67E-04	1.27E-03	1.77E-03	1.06E-02	2.76E-05	7.03E-12	0.00E+00
Avg		4.16E-08	5.11E-07	1.71E-06	6.05E-06	1.22E-05	8.44E-08	2.62E-14	0.00E+00
Std		8.14E-07	1.26E-05	3.49E-05	7.00E-05	2.83E-04	1.02E-06	2.52E-13	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		2.70E-05	4.67E-04	1.27E-03	1.77E-03	1.06E-02	2.76E-05	7.03E-12	0.00E+00
Avg		4.16E-08	5.11E-07	1.71E-06	6.05E-06	1.22E-05	8.44E-08	2.62E-14	0.00E+00
Std		8.14E-07	1.26E-05	3.49E-05	7.00E-05	2.83E-04	1.02E-06	2.52E-13	0.00E+00
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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-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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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-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
<hr/>									
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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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-154.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-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		1.58E-06	2.85E-05	7.87E-05	1.98E-04	3.28E-03	8.53E-06	1.58E-12	0.00E+00
Avg		3.25E-09	3.93E-08	1.29E-07	5.66E-07	2.72E-06	1.18E-08	3.08E-15	0.00E+00
Std		5.95E-08	8.54E-07	2.39E-06	6.85E-06	8.51E-05	2.31E-07	4.44E-14	0.00E+00
<hr/>									
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.58E-06	2.85E-05	7.87E-05	1.98E-04	3.28E-03	8.53E-06	1.58E-12	0.00E+00
Avg		3.25E-09	3.93E-08	1.29E-07	5.66E-07	2.72E-06	1.18E-08	3.08E-15	0.00E+00
Std		5.95E-08	8.54E-07	2.39E-06	6.85E-06	8.51E-05	2.31E-07	4.44E-14	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-154.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-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		5.60E-07	1.81E-05	5.44E-05	7.78E-05	6.17E-04	1.62E-06	3.61E-13	0.00E+00
Avg		1.07E-09	2.00E-08	7.15E-08	2.54E-07	6.44E-07	4.00E-09	1.18E-15	0.00E+00
Std		1.90E-08	4.92E-07	1.50E-06	2.93E-06	1.63E-05	5.29E-08	1.20E-14	0.00E+00
<hr/>									
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.60E-07	1.81E-05	5.44E-05	7.78E-05	6.17E-04	1.62E-06	3.61E-13	0.00E+00
Avg		1.07E-09	2.00E-08	7.15E-08	2.54E-07	6.44E-07	4.00E-09	1.18E-15	0.00E+00
Std		1.90E-08	4.92E-07	1.50E-06	2.93E-06	1.63E-05	5.29E-08	1.20E-14	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-154.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-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		1.20E-07	3.04E-06	8.84E-06	1.26E-05	1.10E-04	2.88E-07	6.17E-14	0.00E+00
Avg		2.11E-10	3.38E-09	1.16E-08	4.18E-08	1.11E-07	6.63E-10	1.92E-16	0.00E+00
Std		3.90E-09	8.30E-08	2.44E-07	4.91E-07	2.90E-06	9.13E-09	2.00E-15	0.00E+00
<hr/>									
Gd-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		1.20E-07	3.04E-06	8.84E-06	1.26E-05	1.10E-04	2.88E-07	6.17E-14	0.00E+00
Avg		2.11E-10	3.38E-09	1.16E-08	4.18E-08	1.11E-07	6.63E-10	1.92E-16	0.00E+00
Std		3.90E-09	8.30E-08	2.44E-07	4.91E-07	2.90E-06	9.13E-09	2.00E-15	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-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		3.38E+00	2.94E+00	2.22E+00	4.71E-01	1.13E-06	0.00E+00	0.00E+00	0.00E+00
0.050		3.45E+00	3.11E+00	2.53E+00	1.13E+00	5.04E-02	1.21E-08	0.00E+00	0.00E+00
0.075		3.47E+00	3.17E+00	2.65E+00	1.36E+00	1.58E-01	3.21E-05	0.00E+00	0.00E+00
0.100		3.48E+00	3.19E+00	2.69E+00	1.45E+00	2.33E-01	2.40E-04	0.00E+00	0.00E+00
0.125		3.48E+00	3.20E+00	2.71E+00	1.50E+00	2.71E-01	5.30E-04	3.65E-19	0.00E+00
0.150		3.48E+00	3.21E+00	2.72E+00	1.53E+00	2.89E-01	7.79E-04	2.19E-17	0.00E+00
0.175		3.48E+00	3.21E+00	2.73E+00	1.55E+00	3.01E-01	9.18E-04	2.98E-16	0.00E+00
0.200		3.48E+00	3.21E+00	2.74E+00	1.56E+00	3.09E-01	1.04E-03	5.10E-15	0.00E+00
0.225		3.48E+00	3.22E+00	2.74E+00	1.57E+00	3.14E-01	1.11E-03	1.06E-13	0.00E+00
0.250		3.48E+00	3.22E+00	2.74E+00	1.57E+00	3.18E-01	1.17E-03	2.69E-12	0.00E+00
0.275		3.48E+00	3.22E+00	2.75E+00	1.57E+00	3.20E-01	1.21E-03	1.98E-11	0.00E+00
0.300		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.22E-01	1.23E-03	4.21E-11	0.00E+00
0.325		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.23E-01	1.25E-03	6.86E-11	0.00E+00
0.350		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.24E-01	1.26E-03	9.21E-11	0.00E+00
0.375		3.48E+00	3.22E+00	2.75E+00	1.58E+00	3.25E-01	1.27E-03	1.17E-10	0.00E+00
0.400		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.26E-01	1.28E-03	1.31E-10	0.00E+00
0.425		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.26E-01	1.29E-03	1.45E-10	0.00E+00
0.450		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.26E-01	1.30E-03	1.53E-10	0.00E+00
0.475		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.27E-01	1.30E-03	1.59E-10	0.00E+00
0.500		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.27E-01	1.31E-03	1.65E-10	0.00E+00
0.525		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.27E-01	1.31E-03	1.69E-10	0.00E+00
0.550		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.28E-01	1.31E-03	1.73E-10	0.00E+00
0.575		3.49E+00	3.22E+00	2.75E+00	1.58E+00	3.28E-01	1.32E-03	1.77E-10	0.00E+00
0.600		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.80E-10	0.00E+00
0.625		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.83E-10	0.00E+00
0.650		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.85E-10	0.00E+00
0.675		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.86E-10	0.00E+00
0.700		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.87E-10	0.00E+00
0.725		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.88E-10	0.00E+00
0.750		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.89E-10	0.00E+00
0.775		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.89E-10	0.00E+00
0.800		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.89E-10	0.00E+00
0.825		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.850		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.875		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.900		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.925		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.950		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
0.975		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.90E-10	0.00E+00
1.000		3.49E+00	3.22E+00	2.75E+00	1.59E+00	3.28E-01	1.32E-03	1.91E-10	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-154.RAD

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.70E+00	3.49E+00	3.48E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.00E+00	1.45E+00	3.22E+00	3.20E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00
1.06E+00	1.40E+00	3.21E+00	3.18E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
1.12E+00	1.34E+00	3.19E+00	3.16E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
1.19E+00	1.29E+00	3.18E+00	3.15E+00	3.17E+00	3.18E+00	3.18E+00	3.18E+00	3.18E+00
1.25E+00	1.24E+00	3.16E+00	3.13E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00
1.33E+00	1.18E+00	3.14E+00	3.11E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
1.40E+00	1.13E+00	3.12E+00	3.09E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
1.49E+00	1.07E+00	3.10E+00	3.07E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00
1.57E+00	1.01E+00	3.08E+00	3.05E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00
1.66E+00	9.58E-01	3.06E+00	3.02E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.76E+00	9.02E-01	3.04E+00	3.00E+00	3.03E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.86E+00	8.46E-01	3.01E+00	2.97E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.97E+00	7.91E-01	2.99E+00	2.95E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
2.09E+00	7.36E-01	2.96E+00	2.92E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
2.21E+00	6.83E-01	2.93E+00	2.89E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
2.34E+00	6.30E-01	2.90E+00	2.86E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00
2.47E+00	5.79E-01	2.87E+00	2.83E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00
2.62E+00	5.29E-01	2.84E+00	2.79E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.77E+00	4.81E-01	2.80E+00	2.76E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
2.93E+00	4.35E-01	2.77E+00	2.72E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	4.17E-01	2.75E+00	2.71E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.3.10E+00	3.92E-01	2.73E+00	2.68E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00
3.3.28E+00	3.50E-01	2.69E+00	2.64E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.48E+00	3.11E-01	2.65E+00	2.60E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00
3.68E+00	2.74E-01	2.61E+00	2.56E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00
3.89E+00	2.40E-01	2.57E+00	2.51E+00	2.56E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.12E+00	2.08E-01	2.52E+00	2.47E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00
4.36E+00	1.79E-01	2.48E+00	2.42E+00	2.47E+00	2.47E+00	2.48E+00	2.48E+00	2.48E+00
4.61E+00	1.53E-01	2.43E+00	2.37E+00	2.42E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
4.88E+00	1.30E-01	2.38E+00	2.31E+00	2.37E+00	2.37E+00	2.38E+00	2.38E+00	2.38E+00
5.17E+00	1.09E-01	2.32E+00	2.26E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00
5.47E+00	9.00E-02	2.27E+00	2.20E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00
5.78E+00	5.11E-05	2.21E+00	2.14E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
6.12E+00	4.97E-05	2.15E+00	2.08E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00
6.48E+00	0.00E+00	2.09E+00	2.02E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00
6.86E+00	0.00E+00	2.03E+00	1.96E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00
7.26E+00	0.00E+00	1.97E+00	1.89E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00
7.68E+00	0.00E+00	1.91E+00	1.83E+00	1.90E+00	1.90E+00	1.91E+00	1.91E+00	1.91E+00
8.13E+00	0.00E+00	1.84E+00	1.76E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
8.60E+00	0.00E+00	1.77E+00	1.69E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00
9.10E+00	0.00E+00	1.70E+00	1.62E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00
9.63E+00	0.00E+00	1.63E+00	1.55E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00
1.00E+01	0.00E+00	1.59E+00	1.51E+00	1.58E+00	1.59E+00	1.59E+00	1.59E+00	1.59E+00
1.02E+01	0.00E+00	1.56E+00	1.48E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00
1.08E+01	0.00E+00	1.49E+00	1.41E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
1.14E+01	0.00E+00	1.42E+00	1.34E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00
1.21E+01	0.00E+00	1.35E+00	1.27E+00	1.34E+00	1.35E+00	1.35E+00	1.35E+00	1.35E+00
1.28E+01	0.00E+00	1.27E+00	1.20E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.35E+01	0.00E+00	1.20E+00	1.13E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00
1.43E+01	0.00E+00	1.13E+00	1.06E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.51E+01	0.00E+00	1.06E+00	9.88E-01	1.06E+00	1.06E+00	1.06E+00	1.06E+00	1.06E+00
1.60E+01	0.00E+00	9.87E-01	9.19E-01	9.85E-01	9.87E-01	9.87E-01	9.87E-01	9.87E-01
1.70E+01	0.00E+00	9.17E-01	8.52E-01	9.15E-01	9.17E-01	9.17E-01	9.17E-01	9.17E-01
1.80E+01	0.00E+00	8.48E-01	7.86E-01	8.46E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01
1.90E+01	0.00E+00	7.81E-01	7.22E-01	7.79E-01	7.81E-01	7.81E-01	7.81E-01	7.81E-01

2.01E+01 0.00E+00 7.16E-01 6.60E-01 7.14E-01 7.16E-01 7.16E-01 7.16E-01 7.16E-01

2.13E+01 0.00E+00 6.53E-01 6.00E-01 6.51E-01 6.53E-01 6.53E-01 6.53E-01 6.53E-01

2.25E+01	0.00E+00	5.92E-01	5.43E-01	5.90E-01	5.92E-01	5.92E-01	5.92E-01	5.92E-01
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2.38E+01 0.00E+00 5.34E-01 4.88E-01 5.32E-01 5.34E-01 5.34E-01 5.34E-01 5.34E-01

2.52E+01 0.00E+00 4.79E-01 4.36E-01 4.77E-01 4.79E-01 4.79E-01 4.79E-01 4.79E-01

2.67E+01 0.00E+00 4.27E-01 3.88E-01 4.25E-01 4.26E-01 4.26E-01 4.26E-01 4.27E-01

2.82E+01 0.00E+00 3.77E-01 3.42E-01 3.76E-01 3.77E-01 3.77E-01 3.77E-01 3.77E-01

2.99E+01	0.00E+00	3.32E-01	3.00E-01	3.30E-01	3.31E-01	3.31E-01	3.31E-01	3.31E-01
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3.00E+01	0.00E+00	3.28E-01	2.97E-01	3.27E-01	3.28E-01	3.28E-01	3.28E-01	3.28E-01
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3.16E+01 0.00E+00 2.89E-01 2.60E-01 2.88E-01 2.89E-01 2.89E-01 2.89E-01 2.89E-01

3.35E+01 0.00E+00 2.50E-01 2.24E-01 2.49E-01 2.50E-01 2.50E-01 2.50E-01 2.50E-01 2.50E-01

3.54E+01	0.00E+00	2.14E-01	1.92E-01	2.13E-01	2.14E-01	2.14E-01	2.14E-01	2.14E-01
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3.75E+01	0.00E+00	1.82E-01	1.63E-01	1.81E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01
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3.97E+01 0.00E+00 1.53E-01 1.36E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01

4.20E+01 0.00E+00 1.28E-01 1.13E-01 1.27E-01 1.28E-01 1.28E-01 1.28E-01 1.28E-01

4.44E+01	0.00E+00	1.06E-01	9.31E-02	1.05E-01	1.05E-01	1.05E-01	1.05E-01	1.06E-01
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4.70E+01 0.00E+00 8.61E-02 7.57E-02 8.55E-02 8.60E-02 8.60E-02 8.60E-02 8.61E-02

4.97E+01	0.00E+00	6.94E-02	6.07E-02	6.89E-02	6.93E-02	6.93E-02	6.94E-02	6.94E-02
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5.26E+01 0.00E+00 5.52E-02 4.82E-02 5.48E-02 5.52E-02 5.52E-02 5.52E-02 5.52E-02

5.57E+01	0.00E+00	4.34E-02	3.77E-02	4.30E-02	4.33E-02	4.33E-02	4.34E-02	4.34E-02
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5.90E+01	0.00E+00	3.36E-02	2.91E-02	3.33E-02	3.36E-02	3.36E-02	3.36E-02	3.36E-02
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6.24E+01	0.00E+00	2.56E-02	2.21E-02	2.54E-02	2.56E-02	2.56E-02	2.56E-02	2.56E-02
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6.60E+01 0.00E+00 1.92E-02 1.65E-02 1.91E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02

6.99E+01 0.00E+00 1.42E-02 1.22E-02 1.41E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02

7.39E+01 0.00E+00 1.03E-02 8.79E-03 1.02E-02 1.03E-02 1.03E-02 1.03E-02 1.03E-02

7.82E+01 0.00E+00 7.35E-03 6.24E-03 7.27E-03 7.34E-03 7.34E-03 7.35E-03 7.35E-03

8.28E+01	0.00E+00	5.13E-03	4.34E-03	5.08E-03	5.13E-03	5.13E-03	5.13E-03	5.13E-03
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8.76E+01	0.00E+00	3.51E-03	2.95E-03	3.47E-03	3.51E-03	3.51E-03	3.51E-03	3.51E-03
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9.27E+01	0.00E+00	2.35E-03	1.97E-03	2.32E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03
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9.81E+01	0.00E+00	1.53E-03	1.28E-03	1.51E-03	1.53E-03	1.53E-03	1.53E-03	1.53E-03
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1.00E+02 0.00E+00 1.32E-03 1.10E-03 1.31E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03

1.04E+02	0.00E+00	9.78E-04	8.12E-04	9.64E-04	9.77E-04	9.77E-04	9.78E-04	9.78E-04
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1.10E+02 0.00E+00 6.07E-04 5.02E-04 5.98E-04 6.07E-04 6.07E-04 6.07E-04 6.07E-04

1.16E+02	0.00E+00	3.67E-04	3.02E-04	3.61E-04	3.66E-04	3.66E-04	3.67E-04	3.67E-04
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1.23E+02	0.00E+00	2.15E-04	1.76E-04	2.12E-04	2.15E-04	2.15E-04	2.15E-04	2.15E-04
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1.30E+02	0.00E+00	1.22E-04	9.96E-05	1.20E-04	1.22E-04	1.22E-04	1.22E-04	1.22E-04
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1.38E+02 0.00E+00 6.73E-05 5.45E-05 6.60E-05 6.72E-05 6.72E-05 6.72E-05 6.73E-05

1.46E+02 0.00E+00 3.57E-05 2.88E-05 3.50E-05 3.57E-05 3.57E-05 3.57E-05 3.57E-05

1.54E+02	0.00E+00	1.83E-05	1.47E-05	1.79E-05	1.83E-05	1.83E-05	1.83E-05	1.83E-05
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1.63E+02 0.00E+00 9.01E-06 7.18E-06 8.75E-06 9.00E-06 9.00E-06 9.01E-06 9.01E-06

1.73E+02	0.00E+00	4.26E-06	3.37E-06	4.12E-06	4.25E-06	4.25E-06	4.26E-06	4.26E-06
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1.83E+02 0.00E+00 1.93E-06 1.51E-06 1.85E-06 1.92E-06 1.92E-06 1.93E-06 1.93E-06

1.94E+02 0.00E+00 8.32E-07 6.41E-07 7.98E-07 8.31E-07 8.31E-07 8.32E-07 8.32E-07

2.05E+02 0.00E+00 3.42E-07 2.57E-07 3.26E-07 3.42E-07 3.42E-07 3.42E-07 3.42E-07

2.17E+02	0.00E+00	1.34E-07	9.75E-08	1.26E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07
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2.29E+02 0.00E+00 4.95E-08 3.50E-08 4.63E-08 4.94E-08 4.94E-08 4.94E-08 4.94E-08

2.43E+02 0.00E+00 1.73E-08 1.19E-08 1.59E-08 1.72E-08 1.72E-08 1.72E-08 1.73E-08

2.57E+02	0.00E+00	5.66E-09	3.78E-09	5.15E-09	5.65E-09	5.66E-09	5.66E-09	5.66E-09
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2.72E+02	0.00E+00	1.74E-09	1.12E-09	1.55E-09	1.74E-09	1.74E-09	1.74E-09	1.74E-09
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2.88E+02 0.00E+00 5.00E-10 3.12E-10 4.39E-10 4.99E-10 5.00E-10 5.00E-10 5.00E-10

3.00E+02 0.00E+00 1.91E-10 1.16E-10 1.64E-10 1.90E-10 1.90E-10 1.90E-10 1.91E-10

3.05E+02	0.00E+00	1.34E-10	8.05E-11	1.14E-10	1.33E-10	1.33E-10	1.33E-10	1.34E-10
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3.22E+02	0.00E+00	3.30E-11	1.92E-11	2.72E-11	3.30E-11	3.30E-11	3.30E-11	3.30E-11
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3.41E+02 0.00E+00 7.53E-12 4.22E-12 5.95E-12 7.51E-12 7.52E-12 7.52E-12 7.53E-12

3.61E+02 0.00E+00 1.58E-12 8.49E-13 1.18E-12 1.57E-12 1.57E-12 1.57E-12 1.57E-12

3.82E+02 0.00E+00 3.01E-13 1.56E-13 2.12E-13 3.00E-13 3.00E-13 3.00E-13 3.01E-13

4.04E+02	0.00E+00	5.21E-14	2.62E-14	3.40E-14	5.20E-14	5.20E-14	5.21E-14	5.21E-14
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4.28E+02 0.00E+00 0.16E-15 3.95E-15 4.46E-15 0.13E-15 0.14E-15 0.15E-15 0.15E-15

4.53E+02	0.00E+00	1.15E-15	5.34E-16	5.00E-16	1.14E-15	1.14E-15	1.14E-15	1.15E-15
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4.79E+02	0.00E+00	1.44E-16	6.44E-17	4.52E-17	1.43E-16	1.43E-16	1.43E-16	1.44E-16
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5.07E+02	0.00E+00	1.60E-17	6.86E-18	2.95E-18	1.59E-17	1.59E-17	1.59E-17	1.59E-17
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5.36E+02 0.00E+00 1.56E-18 6.43E-19 1.36E-19 1.55E-18 1.55E-18 1.56E-18 1.56E-18

5.68E+02 0.00E+00 1.33E-19 5.28E-20 3.18E-21 1.32E-19 1.33E-19 1.33E-19 1.33E-19

6.01E+02	0.00E+00	9.83E-21	3.75E-21	1.37E-23	9.78E-21	9.80E-21	9.81E-21	9.82E-21
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6.36E+02	0.00E+00	6.24E-22	2.27E-22	2.38E-25	6.20E-22	6.22E-22	6.23E-22	6.24E-22
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6.73E+02	0.00E+00	3.38E-23	1.17E-23	5.07E-27	3.35E-23	3.37E-23	3.37E-23	3.37E-23
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7.12E+02 0.00E+00 1.54E-24 5.08E-25 1.14E-28 1.53E-24 1.54E-24 1.54E-24 1.54E-24

7.53E+02 0.00E+00 5.87E-26 1.84E-26 0.00E+00 5.81E-26 5.85E-26 5.86E-26 5.87E-26

7.97E+02 0.00E+00 1.85E-27 5.52E-28 0.00E+00 1.82E-27 1.84E-27 1.85E-27 1.85E-27

8.44E+02 0.00E+00 4.76E-29 1.35E-29 0.00E+00 4.67E-29 4.74E-29 4.75E-29 4.76E-29

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[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-154.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	2.33E+00	3.49E+00	3.47E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.00E+00	8.88E-01	3.22E+00	3.19E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00
1.06E+00	8.40E-01	3.21E+00	3.18E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
1.12E+00	7.91E-01	3.19E+00	3.16E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
1.19E+00	7.43E-01	3.18E+00	3.14E+00	3.17E+00	3.18E+00	3.18E+00	3.18E+00	3.18E+00
1.25E+00	6.95E-01	3.16E+00	3.12E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00
1.33E+00	6.48E-01	3.14E+00	3.10E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
1.40E+00	6.02E-01	3.12E+00	3.08E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
1.49E+00	5.56E-01	3.10E+00	3.06E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00
1.57E+00	5.11E-01	3.08E+00	3.04E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00
1.66E+00	4.68E-01	3.06E+00	3.02E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.76E+00	4.26E-01	3.04E+00	2.99E+00	3.03E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.86E+00	3.86E-01	3.01E+00	2.97E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.97E+00	3.48E-01	2.99E+00	2.94E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
2.09E+00	3.11E-01	2.96E+00	2.91E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
2.21E+00	2.77E-01	2.93E+00	2.88E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
2.34E+00	2.45E-01	2.90E+00	2.85E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00
2.47E+00	2.15E-01	2.87E+00	2.82E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00
2.62E+00	1.87E-01	2.84E+00	2.79E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.77E+00	1.61E-01	2.80E+00	2.75E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
2.93E+00	1.38E-01	2.77E+00	2.72E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	1.29E-01	2.75E+00	2.70E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.10E+00	1.17E-01	2.73E+00	2.68E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00
3.28E+00	9.83E-02	2.69E+00	2.64E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.48E+00	8.18E-02	2.65E+00	2.60E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00
3.68E+00	6.73E-02	2.61E+00	2.55E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00
3.89E+00	5.47E-02	2.57E+00	2.51E+00	2.56E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.12E+00	4.40E-02	2.52E+00	2.46E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00
4.36E+00	3.49E-02	2.48E+00	2.41E+00	2.47E+00	2.47E+00	2.47E+00	2.48E+00	2.48E+00
4.61E+00	2.73E-02	2.43E+00	2.36E+00	2.42E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
4.88E+00	2.11E-02	2.38E+00	2.31E+00	2.37E+00	2.37E+00	2.38E+00	2.38E+00	2.38E+00
5.17E+00	1.60E-02	2.32E+00	2.25E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00
5.47E+00	7.15E-03	2.27E+00	2.20E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00
5.78E+00	0.00E+00	2.21E+00	2.14E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
6.12E+00	0.00E+00	2.15E+00	2.08E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00
6.48E+00	0.00E+00	2.09E+00	2.02E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00
6.86E+00	0.00E+00	2.03E+00	1.96E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00
7.26E+00	0.00E+00	1.97E+00	1.89E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00
7.68E+00	0.00E+00	1.91E+00	1.83E+00	1.90E+00	1.90E+00	1.91E+00	1.91E+00	1.91E+00
8.13E+00	0.00E+00	1.84E+00	1.76E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
8.60E+00	0.00E+00	1.77E+00	1.69E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00
9.10E+00	0.00E+00	1.70E+00	1.62E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00
9.63E+00	0.00E+00	1.63E+00	1.55E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00
1.00E+01	0.00E+00	1.59E+00	1.51E+00	1.58E+00	1.59E+00	1.59E+00	1.59E+00	1.59E+00
1.02E+01	0.00E+00	1.56E+00	1.48E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00
1.08E+01	0.00E+00	1.49E+00	1.41E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
1.14E+01	0.00E+00	1.42E+00	1.34E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00
1.21E+01	0.00E+00	1.35E+00	1.27E+00	1.34E+00	1.35E+00	1.35E+00	1.35E+00	1.35E+00
1.28E+01	0.00E+00	1.27E+00	1.20E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.35E+01	0.00E+00	1.20E+00	1.13E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00
1.43E+01	0.00E+00	1.13E+00	1.06E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.51E+01	0.00E+00	1.06E+00	9.89E-01	1.06E+00	1.06E+00	1.06E+00	1.06E+00	1.06E+00
1.60E+01	0.00E+00	9.87E-01	9.21E-01	9.85E-01	9.86E-01	9.87E-01	9.87E-01	9.87E-01
1.70E+01	0.00E+00	9.17E-01	8.53E-01	9.15E-01	9.17E-01	9.17E-01	9.17E-01	9.17E-01
1.80E+01	0.00E+00	8.48E-01	7.87E-01	8.46E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01
1.90E+01	0.00E+00	7.81E-01	7.22E-01	7.79E-01	7.81E-01	7.81E-01	7.81E-01	7.81E-01

2.01E+01 0.00E+00 7.16E-01 6.61E-01 7.14E-01 7.16E-01 7.16E-01 7.16E-01 7.16E-01

2.13E+01 0.00E+00 6.53E-01 6.01E-01 6.51E-01 6.53E-01 6.53E-01 6.53E-01 6.53E-01

2.25E+01	0.00E+00	5.92E-01	5.43E-01	5.90E-01	5.92E-01	5.92E-01	5.92E-01	5.92E-01
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2.38E+01 0.00E+00 5.34E-01 4.89E-01 5.32E-01 5.34E-01 5.34E-01 5.34E-01 5.34E-01 5.34E-01

2.52E+01 0.00E+00 4.79E-01 4.37E-01 4.77E-01 4.78E-01 4.79E-01 4.79E-01 4.79E-01

2.67E+01 0.00E+00 4.27E-01 3.88E-01 4.25E-01 4.26E-01 4.26E-01 4.26E-01 4.27E-01

2.82E+01	0.00E+00	3.77E-01	3.43E-01	3.76E-01	3.77E-01	3.77E-01	3.77E-01	3.77E-01	3.77E-01
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2.99E+01 0.00E+00 3.32E-01 3.00E-01 3.30E-01 3.31E-01 3.31E-01 3.31E-01 3.31E-01

3.00E+01	0.00E+00	3.28E-01	2.97E-01	3.27E-01	3.28E-01	3.28E-01	3.28E-01	3.28E-01
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3.16E+01 0.00E+00 2.89E-01 2.61E-01 2.88E-01 2.89E-01 2.89E-01 2.89E-01 2.89E-01

3.35E+01 0.00E+00 2.50E-01 2.25E-01 2.49E-01 2.50E-01 2.50E-01 2.50E-01 2.50E-01

3.54E+01	0.00E+00	2.14E-01	1.92E-01	2.13E-01	2.14E-01	2.14E-01	2.14E-01	2.14E-01
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3.75E+01	0.00E+00	1.82E-01	1.63E-01	1.81E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01
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3.97E+01 0.00E+00 1.53E-01 1.37E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01

4.20E+01 0.00E+00 1.28E-01 1.14E-01 1.27E-01 1.28E-01 1.28E-01 1.28E-01 1.28E-01

4.44E+01 0.00E+00 1.06E-01 9.35E-02 1.05E-01 1.05E-01 1.05E-01 1.05E-01 1.06E-01

4.70E+01 0.00E+00 8.61E-02 7.60E-02 8.56E-02 8.60E-02 8.60E-02 8.60E-02 8.61E-02

4.97E+01 0.00E+00 6.94E-02 6.11E-02 6.89E-02 6.93E-02 6.93E-02 6.93E-02 6.94E-02

5.26E+01	0.00E+00	5.52E-02	4.84E-02	5.48E-02	5.52E-02	5.52E-02	5.52E-02	5.52E-02
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5.57E+01	0.00E+00	4.34E-02	3.79E-02	4.31E-02	4.33E-02	4.33E-02	4.33E-02	4.34E-02
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5.90E+01	0.00E+00	3.36E-02	2.92E-02	3.33E-02	3.35E-02	3.36E-02	3.36E-02	3.36E-02
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6.24E+01	0.00E+00	2.56E-02	2.22E-02	2.54E-02	2.56E-02	2.56E-02	2.56E-02	2.56E-02
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6.60E+01 0.00E+00 1.92E-02 1.66E-02 1.91E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02

6.99E+01 0.00E+00 1.42E-02 1.22E-02 1.41E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02

7.39E+01 0.00E+00 1.03E-02 8.84E-03 1.02E-02 1.03E-02 1.03E-02 1.03E-02 1.03E-02

7.82E+01 0.00E+00 7.35E-03 6.27E-03 7.28E-03 7.34E-03 7.34E-03 7.34E-03 7.35E-03

8.28E+01	0.00E+00	5.13E-03	4.36E-03	5.08E-03	5.13E-03	5.13E-03	5.13E-03	5.13E-03
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8.76E+01	0.00E+00	3.51E-03	2.97E-03	3.47E-03	3.51E-03	3.51E-03	3.51E-03	3.51E-03
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9.27E+01	0.00E+00	2.35E-03	1.98E-03	2.32E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03
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9.81E+01 0.00E+00 1.53E-03 1.29E-03 1.52E-03 1.53E-03 1.53E-03 1.53E-03 1.53E-03

1.00E+02 0.00E+00 1.32E-03 1.11E-03 1.31E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03

1.04E+02	0.00E+00	9.78E-04	8.16E-04	9.66E-04	9.77E-04	9.77E-04	9.77E-04	9.78E-04
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1.10E+02 0.00E+00 6.07E-04 5.05E-04 5.99E-04 6.07E-04 6.07E-04 6.07E-04 6.07E-04

1.16E+02 0.00E+00 3.67E-04 3.04E-04 3.62E-04 3.66E-04 3.66E-04 3.67E-04 3.67E-04

1.23E+02	0.00E+00	2.15E-04	1.77E-04	2.12E-04	2.15E-04	2.15E-04	2.15E-04	2.15E-04
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1.30E+02 0.00E+00 1.22E-04 1.00E-04 1.20E-04 1.22E-04 1.22E-04 1.22E-04 1.22E-04

1.38E+02 0.00E+00 6.73E-05 5.49E-05 6.60E-05 6.72E-05 6.72E-05 6.72E-05 6.73E-05

1.46E+02 0.00E+00 3.57E-05 2.90E-05 3.50E-05 3.57E-05 3.57E-05 3.57E-05 3.57E-05

1.54E+02	0.00E+00	1.83E-05	1.47E-05	1.79E-05	1.83E-05	1.83E-05	1.83E-05	1.83E-05
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1.63E+02 0.00E+00 9.01E-06 7.21E-06 8.77E-06 9.00E-06 9.00E-06 9.01E-06 9.01E-06

1.73E+02 0.00E+00 4.26E-06 3.38E-06 4.13E-06 4.25E-06 4.26E-06 4.26E-06 4.26E-06

1.83E+02 0.00E+00 1.93E-06 1.51E-06 1.86E-06 1.92E-06 1.92E-06 1.93E-06 1.93E-06

1.94E+02 0.00E+00 8.32E-07 6.45E-07 7.99E-07 8.31E-07 8.31E-07 8.32E-07 8.32E-07

2.05E+02	0.00E+00	3.42E-07	2.59E-07	3.27E-07	3.42E-07	3.42E-07	3.42E-07	3.42E-07
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2.17E+02	0.00E+00	1.34E-07	9.88E-08	1.27E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07
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2.29E+02 0.00E+00 4.95E-08 3.55E-08 4.64E-08 4.94E-08 4.94E-08 4.94E-08 4.94E-08

2.43E+02 0.00E+00 1.73E-08 1.21E-08 1.60E-08 1.72E-08 1.72E-08 1.72E-08 1.73E-08

2.57E+02	0.00E+00	5.66E-09	3.86E-09	5.16E-09	5.65E-09	5.66E-09	5.66E-09	5.66E-09	5.66E-09
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2.72E+02	0.00E+00	1.74E-09	1.15E-09	1.56E-09	1.74E-09	1.74E-09	1.74E-09	1.74E-09
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2.88E+02 0.00E+00 5.00E-10 3.21E-10 4.42E-10 4.99E-10 5.00E-10 5.00E-10 5.00E-10

3.00E+02 0.00E+00 1.91E-10 1.19E-10 1.65E-10 1.90E-10 1.90E-10 1.90E-10 1.91E-10

3.05E+02	0.00E+00	1.34E-10	8.28E-11	1.15E-10	1.33E-10	1.33E-10	1.33E-10	1.34E-10
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3.22E+02	0.00E+00	3.30E-11	1.99E-11	2.76E-11	3.30E-11	3.30E-11	3.30E-11	3.30E-11
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3.41E+02 0.00E+00 7.53E-12 4.38E-12 6.11E-12 7.51E-12 7.52E-12 7.52E-12 7.53E-12

3.61E+02	0.00E+00	1.57E-12	8.86E-13	1.24E-12	1.57E-12	1.57E-12	1.57E-12	1.57E-12
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3.82E+02	0.00E+00	3.01E-13	1.63E-13	2.25E-13	3.00E-13	3.00E-13	3.00E-13	3.01E-13
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4.04E+02 0.00E+00 5.21E-14 2.74E-14 3.73E-14 5.19E-14 5.20E-14 5.21E-14 5.21E-14

4.28E+02	0.00E+00	0.16E-15	4.14E-15	5.51E-15	0.13E-15	0.14E-15	0.15E-15	0.15E-15
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4.53E+02	0.00E+00	1.15E-15	5.59E-16	6.94E-16	1.14E-15	1.14E-15	1.14E-15	1.15E-15
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4.79E+02	0.00E+00	1.44E-16	6.71E-17	7.81E-17	1.43E-16	1.43E-16	1.43E-16	1.44E-16
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5.07E+02	0.00E+00	1.59E-17	7.13E-18	6.18E-18	1.59E-17	1.59E-17	1.59E-17	1.59E-17
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5.36E+02 0.00E+00 1.56E-18 6.64E-19 4.01E-19 1.55E-18 1.55E-18 1.56E-18 1.56E-18

5.68E+02 0.00E+00 1.33E-19 5.41E-20 1.07E-20 1.32E-19 1.33E-19 1.33E-19 1.33E-19

6.01E+02	0.00E+00	9.83E-21	3.83E-21	1.37E-22	9.73E-21	9.80E-21	9.81E-21	9.82E-21
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6.36E+02 0.00E+00 6.24E-22 2.31E-22 7.10E-25 6.16E-22 6.22E-22 6.23E-22 6.24E-22

6.73E+02 0.00E+00 3.38E-23 1.18E-23 6.49E-27 3.31E-23 3.36E-23 3.37E-23 3.37E-23

7.12E+02 0.00E+00 1.54E-24 5.12E-25 6.19E-29 1.51E-24 1.53E-24 1.54E-24 1.54E-24

7.53E+02 0.00E+00 5.87E-26 1.84E-26 0.00E+00 5.74E-26 5.85E-26 5.86E-26 5.87E-26

7.97E+02 0.00E+00 1.85E-27 5.43E-28 0.00E+00 1.80E-27 1.84E-27 1.85E-27 1.85E-27

8.44E+02 0.00E+00 4.76E-29 1.30E-29 0.00E+00 4.61E-29 4.74E-29 4.75E-29 4.76E-29

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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-154.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	2.70E+00	3.49E+00	3.48E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.00E+00	1.45E+00	3.22E+00	3.20E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00	3.22E+00
1.06E+00	1.40E+00	3.21E+00	3.18E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
1.12E+00	1.34E+00	3.19E+00	3.17E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
1.19E+00	1.29E+00	3.18E+00	3.15E+00	3.17E+00	3.18E+00	3.18E+00	3.18E+00	3.18E+00
1.25E+00	1.23E+00	3.16E+00	3.13E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00	3.16E+00
1.33E+00	1.18E+00	3.14E+00	3.11E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
1.40E+00	1.12E+00	3.12E+00	3.09E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
1.49E+00	1.07E+00	3.10E+00	3.07E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00	3.10E+00
1.57E+00	1.01E+00	3.08E+00	3.05E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00	3.08E+00
1.66E+00	9.56E-01	3.06E+00	3.03E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00	3.06E+00
1.76E+00	9.00E-01	3.04E+00	3.00E+00	3.03E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
1.86E+00	8.45E-01	3.01E+00	2.98E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
1.97E+00	7.89E-01	2.99E+00	2.95E+00	2.98E+00	2.99E+00	2.99E+00	2.99E+00	2.99E+00
2.09E+00	7.35E-01	2.96E+00	2.92E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00	2.96E+00
2.21E+00	6.81E-01	2.93E+00	2.89E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00	2.93E+00
2.34E+00	6.29E-01	2.90E+00	2.86E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00	2.90E+00
2.47E+00	5.78E-01	2.87E+00	2.83E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00	2.87E+00
2.62E+00	5.28E-01	2.84E+00	2.80E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
2.77E+00	4.80E-01	2.80E+00	2.76E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
2.93E+00	4.34E-01	2.77E+00	2.72E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00	2.77E+00
3.00E+00	4.16E-01	2.75E+00	2.71E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00	2.75E+00
3.3.10E+00	3.90E-01	2.73E+00	2.69E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00	2.73E+00
3.3.28E+00	3.49E-01	2.69E+00	2.65E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00	2.69E+00
3.48E+00	3.10E-01	2.65E+00	2.61E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00	2.65E+00
3.68E+00	2.73E-01	2.61E+00	2.56E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00	2.61E+00
3.89E+00	2.39E-01	2.57E+00	2.52E+00	2.56E+00	2.57E+00	2.57E+00	2.57E+00	2.57E+00
4.12E+00	2.07E-01	2.52E+00	2.47E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00	2.52E+00
4.36E+00	1.79E-01	2.48E+00	2.42E+00	2.47E+00	2.47E+00	2.47E+00	2.48E+00	2.48E+00
4.61E+00	1.52E-01	2.43E+00	2.37E+00	2.42E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
4.88E+00	1.29E-01	2.38E+00	2.32E+00	2.37E+00	2.37E+00	2.38E+00	2.38E+00	2.38E+00
5.17E+00	1.08E-01	2.32E+00	2.26E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00	2.32E+00
5.47E+00	1.90E-07	2.27E+00	2.20E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00	2.27E+00
5.78E+00	0.00E+00	2.21E+00	2.15E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00	2.21E+00
6.12E+00	0.00E+00	2.15E+00	2.09E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00	2.15E+00
6.48E+00	0.00E+00	2.09E+00	2.02E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00	2.09E+00
6.86E+00	0.00E+00	2.03E+00	1.96E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00	2.03E+00
7.26E+00	0.00E+00	1.97E+00	1.90E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00	1.97E+00
7.68E+00	0.00E+00	1.91E+00	1.83E+00	1.90E+00	1.90E+00	1.91E+00	1.91E+00	1.91E+00
8.13E+00	0.00E+00	1.84E+00	1.77E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00	1.84E+00
8.60E+00	0.00E+00	1.77E+00	1.70E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00	1.77E+00
9.10E+00	0.00E+00	1.70E+00	1.63E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00	1.70E+00
9.63E+00	0.00E+00	1.63E+00	1.56E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00	1.63E+00
1.00E+01	0.00E+00	1.59E+00	1.51E+00	1.58E+00	1.59E+00	1.59E+00	1.59E+00	1.59E+00
1.02E+01	0.00E+00	1.56E+00	1.49E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00	1.56E+00
1.08E+01	0.00E+00	1.49E+00	1.42E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00	1.49E+00
1.14E+01	0.00E+00	1.42E+00	1.35E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00	1.42E+00
1.21E+01	0.00E+00	1.35E+00	1.28E+00	1.34E+00	1.35E+00	1.35E+00	1.35E+00	1.35E+00
1.28E+01	0.00E+00	1.27E+00	1.20E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00	1.27E+00
1.35E+01	0.00E+00	1.20E+00	1.13E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00	1.20E+00
1.43E+01	0.00E+00	1.13E+00	1.06E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.51E+01	0.00E+00	1.06E+00	9.92E-01	1.06E+00	1.06E+00	1.06E+00	1.06E+00	1.06E+00
1.60E+01	0.00E+00	9.87E-01	9.23E-01	9.84E-01	9.87E-01	9.87E-01	9.87E-01	9.87E-01
1.70E+01	0.00E+00	9.17E-01	8.56E-01	9.14E-01	9.17E-01	9.17E-01	9.17E-01	9.17E-01
1.80E+01	0.00E+00	8.48E-01	7.90E-01	8.46E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01
1.90E+01	0.00E+00	7.81E-01	7.26E-01	7.79E-01	7.81E-01	7.81E-01	7.81E-01	7.81E-01

2.01E+01 0.00E+00 7.16E-01 6.63E-01 7.14E-01 7.16E-01 7.16E-01 7.16E-01 7.16E-01

2.13E+01 0.00E+00 6.53E-01 6.03E-01 6.51E-01 6.53E-01 6.53E-01 6.53E-01 6.53E-01

2.25E+01 0.00E+00 5.92E-01 5.45E-01 5.90E-01 5.92E-01 5.92E-01 5.92E-01 5.92E-01

2.38E+01 0.00E+00 5.34E-01 4.90E-01 5.32E-01 5.34E-01 5.34E-01 5.34E-01 5.34E-01 5.34E-01

2.52E+01 0.00E+00 4.79E-01 4.38E-01 4.77E-01 4.79E-01 4.79E-01 4.79E-01 4.79E-01

2.67E+01 0.00E+00 4.27E-01 3.89E-01 4.25E-01 4.26E-01 4.26E-01 4.26E-01 4.27E-01

2.82E+01	0.00E+00	3.77E-01	3.43E-01	3.76E-01	3.77E-01	3.77E-01	3.77E-01	3.77E-01
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2.99E+01 0.00E+00 3.32E-01 3.01E-01 3.30E-01 3.31E-01 3.31E-01 3.31E-01 3.32E-01

3.00E+01	0.00E+00	3.28E-01	2.98E-01	3.27E-01	3.28E-01	3.28E-01	3.28E-01	3.28E-01
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3.16E+01 0.00E+00 2.89E-01 2.62E-01 2.88E-01 2.89E-01 2.89E-01 2.89E-01 2.89E-01

3.35E+01 0.00E+00 2.50E-01 2.26E-01 2.49E-01 2.50E-01 2.50E-01 2.50E-01 2.50E-01

3.54E+01	0.00E+00	2.14E-01	1.93E-01	2.13E-01	2.14E-01	2.14E-01	2.14E-01	2.14E-01
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3.75E+01	0.00E+00	1.82E-01	1.63E-01	1.81E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01
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3.97E+01 0.00E+00 1.53E-01 1.37E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01 1.53E-01

4.20E+01 0.00E+00 1.28E-01 1.14E-01 1.27E-01 1.28E-01 1.28E-01 1.28E-01 1.28E-01

4.44E+01 0.00E+00 1.06E-01 9.36E-02 1.05E-01 1.05E-01 1.05E-01 1.05E-01 1.06E-01

4.70E+01 0.00E+00 8.61E-02 7.61E-02 8.55E-02 8.60E-02 8.60E-02 8.60E-02 8.61E-02

4.97E+01	0.00E+00	6.94E-02	6.11E-02	6.89E-02	6.93E-02	6.93E-02	6.94E-02	6.94E-02
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5.26E+01	0.00E+00	5.52E-02	4.84E-02	5.48E-02	5.52E-02	5.52E-02	5.52E-02	5.52E-02
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5.57E+01	0.00E+00	4.34E-02	3.79E-02	4.30E-02	4.33E-02	4.33E-02	4.34E-02	4.34E-02
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5.90E+01	0.00E+00	3.36E-02	2.93E-02	3.33E-02	3.35E-02	3.36E-02	3.36E-02	3.36E-02
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6.24E+01	0.00E+00	2.56E-02	2.22E-02	2.54E-02	2.56E-02	2.56E-02	2.56E-02	2.56E-02
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6.60E+01 0.00E+00 1.92E-02 1.66E-02 1.91E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02 1.92E-02

6.99E+01 0.00E+00 1.42E-02 1.22E-02 1.41E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02 1.42E-02

7.39E+01 0.00E+00 1.03E-02 8.85E-03 1.02E-02 1.03E-02 1.03E-02 1.03E-02 1.03E-02

7.82E+01 0.00E+00 7.35E-03 6.27E-03 7.27E-03 7.34E-03 7.34E-03 7.35E-03 7.35E-03

8.28E+01	0.00E+00	5.13E-03	4.36E-03	5.07E-03	5.13E-03	5.13E-03	5.13E-03	5.13E-03
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8.76E+01	0.00E+00	3.51E-03	2.97E-03	3.47E-03	3.51E-03	3.51E-03	3.51E-03	3.51E-03
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9.27E+01	0.00E+00	2.35E-03	1.98E-03	2.32E-03	2.35E-03	2.35E-03	2.35E-03	2.35E-03
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9.81E+01	0.00E+00	1.53E-03	1.29E-03	1.51E-03	1.53E-03	1.53E-03	1.53E-03	1.53E-03
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1.00E+02 0.00E+00 1.32E-03 1.11E-03 1.31E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03 1.32E-03

1.04E+02	0.00E+00	9.78E-04	8.16E-04	9.64E-04	9.77E-04	9.77E-04	9.78E-04	9.78E-04
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1.10E+02 0.00E+00 6.07E-04 5.04E-04 5.98E-04 6.07E-04 6.07E-04 6.07E-04 6.07E-04

1.16E+02 0.00E+00 3.67E-04 3.03E-04 3.61E-04 3.66E-04 3.66E-04 3.67E-04 3.67E-04

1.23E+02 0.00E+00 2.15E-04 1.77E-04 2.11E-04 2.15E-04 2.15E-04 2.15E-04 2.15E-04

1.30E+02	0.00E+00	1.22E-04	1.00E-04	1.20E-04	1.22E-04	1.22E-04	1.22E-04	1.22E-04
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1.38E+02 0.00E+00 6.73E-05 5.48E-05 6.60E-05 6.72E-05 6.72E-05 6.72E-05 6.73E-05

1.46E+02 0.00E+00 3.57E-05 2.90E-05 3.50E-05 3.57E-05 3.57E-05 3.57E-05 3.57E-05

1.54E+02 0.00E+00 1.83E-05 1.48E-05 1.79E-05 1.83E-05 1.83E-05 1.83E-05 1.83E-05

1.63E+02	0.00E+00	9.01E-06	7.22E-06	8.77E-06	9.00E-06	9.00E-06	9.01E-06	9.01E-06
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1.73E+02 0.00E+00 4.26E-06 3.38E-06 4.13E-06 4.25E-06 4.26E-06 4.26E-06 4.26E-06

1.83E+02 0.00E+00 1.93E-06 1.52E-06 1.86E-06 1.92E-06 1.92E-06 1.93E-06 1.93E-06

1.94E+02 0.00E+00 8.32E-07 6.45E-07 7.99E-07 8.31E-07 8.31E-07 8.32E-07 8.32E-07

2.05E+02 0.00E+00 3.42E-07 2.60E-07 3.26E-07 3.42E-07 3.42E-07 3.42E-07 3.42E-07

2.17E+02	0.00E+00	1.34E-07	9.89E-08	1.26E-07	1.34E-07	1.34E-07	1.34E-07	1.34E-07
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2.29E+02 0.00E+00 4.95E-08 3.55E-08 4.63E-08 4.94E-08 4.94E-08 4.94E-08 4.94E-08

2.43E+02 0.00E+00 1.73E-08 1.20E-08 1.59E-08 1.72E-08 1.72E-08 1.72E-08 1.73E-08

2.57E+02	0.00E+00	5.67E-09	3.83E-09	5.16E-09	5.65E-09	5.66E-09	5.66E-09	5.66E-09
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2.72E+02	0.00E+00	1.74E-09	1.14E-09	1.56E-09	1.74E-09	1.74E-09	1.74E-09	1.74E-09
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2.88E+02 0.00E+00 5.00E-10 3.17E-10 4.38E-10 4.99E-10 5.00E-10 5.00E-10 5.00E-10

3.00E+02 0.00E+00 1.91E-10 1.18E-10 1.64E-10 1.90E-10 1.90E-10 1.90E-10 1.91E-10

3.05E+02	0.00E+00	1.34E-10	8.21E-11	1.15E-10	1.33E-10	1.33E-10	1.33E-10	1.34E-10
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3.22E+02	0.00E+00	3.30E-11	1.96E-11	2.78E-11	3.30E-11	3.30E-11	3.30E-11	3.30E-11
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3.41E+02 0.00E+00 7.53E-12 4.32E-12 6.15E-12 7.51E-12 7.52E-12 7.52E-12 7.53E-12

3.61E+02	0.00E+00	1.58E-12	8.74E-13	1.24E-12	1.57E-12	1.57E-12	1.57E-12	1.57E-12
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3.82E+02	0.00E+00	3.01E-13	1.61E-13	2.27E-13	3.00E-13	3.00E-13	3.00E-13	3.00E-13
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4.04E+02 0.00E+00 5.21E-14 2.71E-14 3.79E-14 5.20E-14 5.20E-14 5.20E-14 5.21E-14

4.28E+02 0.00E+00 8.16E-15 4.09E-15 5.34E-15 8.13E-15 8.14E-15 8.15E-15 8.15E-15

4.53E+02	0.00E+00	1.15E-15	5.54E-16	6.72E-16	1.14E-15	1.14E-15	1.14E-15	1.15E-15
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4.79E+02	0.00E+00	1.44E-16	6.70E-17	7.37E-17	1.43E-16	1.43E-16	1.43E-16	1.44E-16
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5.07E+02	0.00E+00	1.60E-17	7.14E-18	6.21E-18	1.59E-17	1.59E-17	1.59E-17	1.59E-17
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5.36E+02 0.00E+00 1.56E-18 6.66E-19 2.72E-19 1.55E-18 1.55E-18 1.56E-18 1.56E-18

5.68E+02	0.00E+00	1.33E-19	5.43E-20	7.39E-21	1.32E-19	1.32E-19	1.33E-19	1.33E-19
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6.01E+02	0.00E+00	9.83E-21	3.82E-21	1.05E-22	9.75E-21	9.79E-21	9.80E-21	9.82E-21
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6.36E+02 0.00E+00 6.24E-22 2.31E-22 5.95E-25 6.18E-22 6.22E-22 6.23E-22 6.24E-22

6.73E+02	0.00E+00	3.38E-23	1.19E-23	7.17E-27	3.34E-23	3.36E-23	3.37E-23	3.37E-23
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7.12E+02 0.00E+00 1.54E-24 5.15E-25 1.44E-28 1.52E-24 1.53E-24 1.54E-24 1.54E-24

7.53E+02 0.00E+00 5.87E-26 1.86E-26 1.35E-30 5.79E-26 5.85E-26 5.86E-26 5.87E-26

7.97E+02 0.00E+00 1.85E-27 5.50E-28 0.00E+00 1.82E-27 1.84E-27 1.84E-27 1.85E-27

8.44E+02 0.00E+00 4.76E-29 1.33E-29 0.00E+00 4.66E-29 4.73E-29 4.75E-29 4.76E-29

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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-154.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	3.476E+00
2	0.000E+00	3.474E+00
3	0.000E+00	3.477E+00

Title : RESRAD Default Parameters
Input File : FCS SOIL UNCERTAINTY ANALYSIS 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	0.02	11	0.03	14	-0.02	14	-0.01
Contaminated zone b parameter	8	-0.03	8	-0.03	11	0.03	11	0.01
Evapotranspiration coefficient	4	0.04	4	0.04	3	0.21	3	0.11
Wind Speed	3	0.07	3	0.07	13	0.02	13	0.01
Runoff coefficient	1	0.11	1	0.11	7	0.07	7	0.03
Well pump intake depth	17	0.00	17	0.00	18	-0.01	18	0.00
b Parameter of Unsaturated zone 1	13	0.01	13	0.01	8	-0.06	8	-0.03
Mass loading for inhalation	10	-0.03	10	-0.03	15	0.02	15	0.01
Indoor dust filtration factor	18	0.00	18	0.00	17	0.01	17	0.01
Depth of soil mixing layer	7	0.04	7	0.04	9	0.05	9	0.02
Depth of roots	2	-0.10	2	-0.10	1	-0.77	1	-0.61
Wet weight crop yield of fruit, grain and non-leafy vegetables	14	0.01	14	0.01	6	-0.08	6	-0.04
Weathering removal constant of all vegetation	9	0.03	9	0.03	10	0.05	10	0.02
Wet foliar interception fraction of leafy vegetables	5	-0.04	5	-0.04	4	-0.09	4	-0.04
Humidity in air	16	0.01	16	0.01	16	0.02	16	0.01
Kd of Eu-154 in Contaminated Zone	6	0.04	6	0.04	2	0.76	2	0.58
Kd of Eu-154 in Unsaturated Zone 1	11	0.02	12	0.02	5	0.08	5	0.04
Kd of Eu-154 in Saturated Zone	15	-0.01	15	-0.01	12	-0.02	12	-0.01
R-SQUARE	0.04		0.04		0.75		0.75	

-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-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
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Contaminated zone erosion rate	17	0.01	17	0.01	9	-0.05	9	-0.03
Contaminated zone b parameter	2	-0.09	2	-0.09	5	-0.08	5	-0.04
Evapotranspiration coefficient	1	0.14	1	0.13	3	0.23	3	0.13
Wind Speed	14	-0.02	14	-0.02	11	-0.03	11	-0.01
Runoff coefficient	7	0.05	7	0.05	4	0.09	4	0.05
Well pump intake depth	3	0.07	3	0.07	16	-0.01	16	0.00
b Parameter of Unsaturated zone 1	8	-0.04	8	-0.04	14	-0.01	14	-0.01
Mass loading for inhalation	6	-0.05	6	-0.05	10	0.04	10	0.02
Indoor dust filtration factor	10	0.02	10	0.02	15	0.01	15	0.01
Depth of soil mixing layer	5	-0.06	5	-0.06	17	0.01	17	0.00
Depth of roots	12	0.02	12	0.02	1	-0.75	1	-0.60
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	-0.01	16	-0.01	18	0.00	18	0.00
Weathering removal constant of all vegetation	4	-0.07	4	-0.07	7	0.06	7	0.03
Wet foliar interception fraction of leafy vegetables	13	0.02	13	0.02	12	0.03	12	0.01
Humidity in air	9	-0.03	9	-0.03	13	0.02	13	0.01
Kd of Eu-154 in Contaminated Zone	15	0.01	15	0.01	2	0.74	2	0.58
Kd of Eu-154 in Unsaturated Zone 1	18	0.00	18	0.00	8	-0.05	8	-0.03
Kd of Eu-154 in Saturated Zone	11	0.02	11	0.02	6	-0.07	6	-0.03

R-SQUARE	0.05	0.05	0.73	0.73
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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-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
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Contaminated zone erosion rate	14	0.02	14	0.02	13	0.02	13	0.01
Contaminated zone b parameter	10	0.04	10	0.04	5	-0.07	5	-0.04
Evapotranspiration coefficient	1	0.10	1	0.10	3	0.15	3	0.08
Wind Speed	6	-0.06	6	-0.06	15	-0.01	15	0.00
Runoff coefficient	7	0.06	7	0.06	7	0.06	7	0.03
Well pump intake depth	18	0.01	18	0.01	14	-0.02	14	-0.01
b Parameter of Unsaturated zone 1	15	-0.01	15	-0.01	8	-0.05	8	-0.02
Mass loading for inhalation	3	-0.07	3	-0.07	10	-0.03	10	-0.02
Indoor dust filtration factor	13	-0.03	13	-0.03	4	0.09	4	0.05
Depth of soil mixing layer	5	0.06	5	0.06	18	0.00	18	0.00
Depth of roots	2	-0.10	2	-0.10	1	-0.76	1	-0.61
Wet weight crop yield of fruit, grain and non-leafy vegetables	16	0.01	16	0.01	17	0.00	17	0.00
Weathering removal constant of all vegetation	4	-0.07	4	-0.06	6	-0.06	6	-0.03
Wet foliar interception fraction of leafy vegetables	9	-0.04	9	-0.04	16	0.01	16	0.00
Humidity in air	8	0.06	8	0.06	11	-0.02	11	-0.01
Kd of Eu-154 in Contaminated Zone	11	0.04	11	0.04	2	0.75	2	0.59
Kd of Eu-154 in Unsaturated Zone 1	12	-0.03	12	-0.03	12	-0.02	12	-0.01
Kd of Eu-154 in Saturated Zone	17	0.01	17	0.01	9	0.04	9	0.02

R-SQUARE	0.05	0.05	0.73	0.73
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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.