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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
Co-60										
Min	0.00E+00	5.72E+00	5.72E+00	2.17E+00	3.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	8.30E+00	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.61E-01	1.61E-05	6.11E-17	0.00E+00
Avg	0.00E+00	7.83E+00	7.83E+00	6.84E+00	5.23E+00	2.03E+00	1.40E-01	1.30E-05	3.61E-17	0.00E+00
Std	0.00E+00	2.98E-01	2.98E-01	3.12E-01	3.14E-01	2.88E-01	3.13E-02	4.21E-06	2.34E-17	0.00E+00
ALL										
Min	0.00E+00	5.72E+00	5.72E+00	2.17E+00	3.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	8.30E+00	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.61E-01	1.61E-05	6.11E-17	0.00E+00
Avg	0.00E+00	7.83E+00	7.83E+00	6.84E+00	5.23E+00	2.03E+00	1.40E-01	1.30E-05	3.61E-17	0.00E+00
Std	0.00E+00	2.98E-01	2.98E-01	3.12E-01	3.14E-01	2.88E-01	3.13E-02	4.21E-06	2.34E-17	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
Co-60									
Min		1.84E-04	7.88E-05	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.05E-04	1.80E-04	1.38E-04	5.52E-05	3.98E-06	4.00E-10	1.51E-21	0.00E+00
Avg		1.93E-04	1.69E-04	1.29E-04	5.02E-05	3.46E-06	3.21E-10	8.88E-22	0.00E+00
Std		7.60E-06	7.48E-06	7.58E-06	6.97E-06	7.70E-07	1.04E-10	5.77E-22	0.00E+00
TOTAL									
Min		1.84E-04	7.88E-05	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.05E-04	1.80E-04	1.38E-04	5.52E-05	3.98E-06	4.00E-10	1.51E-21	0.00E+00
Avg		1.93E-04	1.69E-04	1.29E-04	5.02E-05	3.46E-06	3.21E-10	8.88E-22	0.00E+00
Std		7.60E-06	7.48E-06	7.58E-06	6.97E-06	7.70E-07	1.04E-10	5.77E-22	0.00E+00

TOTAL 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
<hr/>									
Co-60									
Min		4.89E+00	1.85E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.16E+00	6.28E+00	4.83E+00	1.92E+00	1.39E-01	1.39E-05	5.27E-17	0.00E+00
Avg		7.15E+00	6.25E+00	4.78E+00	1.86E+00	1.29E-01	1.20E-05	3.37E-17	0.00E+00
Std		7.63E-02	1.67E-01	2.23E-01	2.53E-01	2.83E-02	3.86E-06	2.18E-17	0.00E+00
<hr/>									
TOTAL									
Min		4.89E+00	1.85E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.16E+00	6.28E+00	4.83E+00	1.92E+00	1.39E-01	1.39E-05	5.27E-17	0.00E+00
Avg		7.15E+00	6.25E+00	4.78E+00	1.86E+00	1.29E-01	1.20E-05	3.37E-17	0.00E+00
Std		7.63E-02	1.67E-01	2.23E-01	2.53E-01	2.83E-02	3.86E-06	2.18E-17	0.00E+00
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TOTAL 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
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Co-60									
Min	7.82E-09	6.85E-09	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.73E-05	1.52E-05	1.17E-05	4.65E-06	3.35E-07	3.37E-11	1.27E-22	0.00E+00	0.00E+00
Avg	2.79E-06	2.44E-06	1.87E-06	7.25E-07	5.01E-08	4.71E-12	1.28E-23	0.00E+00	0.00E+00
Std	1.70E-06	1.49E-06	1.14E-06	4.57E-07	3.33E-08	3.40E-12	1.31E-23	0.00E+00	0.00E+00
ΣALL									
Min	7.82E-09	6.85E-09	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.73E-05	1.52E-05	1.17E-05	4.65E-06	3.35E-07	3.37E-11	1.27E-22	0.00E+00	0.00E+00
Avg	2.79E-06	2.44E-06	1.87E-06	7.25E-07	5.01E-08	4.71E-12	1.28E-23	0.00E+00	0.00E+00
Std	1.70E-06	1.49E-06	1.14E-06	4.57E-07	3.33E-08	3.40E-12	1.31E-23	0.00E+00	0.00E+00
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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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Co-60									
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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TOTAL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	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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TOTAL 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
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Co-60									
Min		1.21E-01	9.71E-02	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.91E-01	4.30E-01	3.31E-01	1.32E-01	9.50E-03	9.55E-07	3.61E-18	0.00E+00
Avg		2.76E-01	2.41E-01	1.83E-01	7.05E-02	4.78E-03	4.05E-07	9.20E-19	0.00E+00
Std		1.33E-01	1.17E-01	9.04E-02	3.68E-02	2.70E-03	2.72E-07	9.97E-19	0.00E+00
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ALL									
Min		1.21E-01	9.71E-02	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.91E-01	4.30E-01	3.31E-01	1.32E-01	9.50E-03	9.55E-07	3.61E-18	0.00E+00
Avg		2.76E-01	2.41E-01	1.83E-01	7.05E-02	4.78E-03	4.05E-07	9.20E-19	0.00E+00
Std		1.33E-01	1.17E-01	9.04E-02	3.68E-02	2.70E-03	2.72E-07	9.97E-19	0.00E+00
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ALL is total pathway dose summed for all nuclides.



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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Co-60									
Min		1.63E-01	1.27E-01	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.57E-01	4.01E-01	3.08E-01	1.23E-01	8.84E-03	8.89E-07	3.36E-18	0.00E+00
Avg		2.87E-01	2.50E-01	1.91E-01	7.36E-02	5.01E-03	4.36E-07	1.04E-18	0.00E+00
Std		1.05E-01	9.26E-02	7.17E-02	2.99E-02	2.26E-03	2.35E-07	9.40E-19	0.00E+00
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ΣALL									
Min		1.63E-01	1.27E-01	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		4.57E-01	4.01E-01	3.08E-01	1.23E-01	8.84E-03	8.89E-07	3.36E-18	0.00E+00
Avg		2.87E-01	2.50E-01	1.91E-01	7.36E-02	5.01E-03	4.36E-07	1.04E-18	0.00E+00
Std		1.05E-01	9.26E-02	7.17E-02	2.99E-02	2.26E-03	2.35E-07	9.40E-19	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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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Co-60									
Min		5.60E-02	4.44E-02	7.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.88E-01	1.65E-01	1.27E-01	5.04E-02	3.63E-03	3.65E-07	1.38E-18	0.00E+00
Avg		1.11E-01	9.71E-02	7.39E-02	2.85E-02	1.94E-03	1.66E-07	3.88E-19	0.00E+00
Std		4.74E-02	4.16E-02	3.22E-02	1.32E-02	9.83E-04	1.00E-07	3.82E-19	0.00E+00
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ΣALL									
Min		5.60E-02	4.44E-02	7.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.88E-01	1.65E-01	1.27E-01	5.04E-02	3.63E-03	3.65E-07	1.38E-18	0.00E+00
Avg		1.11E-01	9.71E-02	7.39E-02	2.85E-02	1.94E-03	1.66E-07	3.88E-19	0.00E+00
Std		4.74E-02	4.16E-02	3.22E-02	1.32E-02	9.83E-04	1.00E-07	3.82E-19	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Co-60									
Min		2.46E-04	9.30E-05	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.60E-04	3.15E-04	2.43E-04	9.66E-05	6.96E-06	7.00E-10	2.65E-21	0.00E+00
Avg		3.59E-04	3.14E-04	2.40E-04	9.33E-05	6.46E-06	6.04E-10	1.65E-21	0.00E+00
Std		3.83E-06	8.37E-06	1.12E-05	1.30E-05	1.43E-06	1.94E-10	1.11E-21	0.00E+00
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ALL									
Min		2.46E-04	9.30E-05	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.60E-04	3.15E-04	2.43E-04	9.66E-05	6.96E-06	7.00E-10	2.65E-21	0.00E+00
Avg		3.59E-04	3.14E-04	2.40E-04	9.33E-05	6.46E-06	6.04E-10	1.65E-21	0.00E+00
Std		3.83E-06	8.37E-06	1.12E-05	1.30E-05	1.43E-06	1.94E-10	1.11E-21	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): 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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Co-60									
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		1.07E-05	1.16E-04	2.14E-03	3.40E-03	3.30E-03	4.37E-07	2.66E-18	0.00E+00
Avg		1.47E-08	2.72E-07	2.57E-06	6.28E-06	6.20E-06	1.66E-09	1.17E-20	0.00E+00
Std		3.06E-07	4.24E-06	5.86E-05	9.82E-05	1.11E-04	1.83E-08	9.63E-20	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		1.07E-05	1.16E-04	2.14E-03	3.40E-03	3.30E-03	4.37E-07	2.66E-18	0.00E+00
Avg		1.47E-08	2.72E-07	2.57E-06	6.28E-06	6.20E-06	1.66E-09	1.17E-20	0.00E+00
Std		3.06E-07	4.24E-06	5.86E-05	9.82E-05	1.11E-04	1.83E-08	9.63E-20	0.00E+00
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ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Co-60									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

Nuclide		DOSE(i, j, t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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Co-60									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<hr/>									
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CO-60.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/>									
Co-60									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		6.96E-07	9.67E-06	1.42E-04	2.28E-04	1.03E-03	1.37E-07	3.47E-19	0.00E+00
Avg		9.47E-10	2.27E-08	2.15E-07	5.25E-07	1.14E-06	2.26E-10	1.25E-21	0.00E+00
Std		1.97E-08	3.57E-07	4.40E-06	7.54E-06	2.83E-05	3.86E-09	1.18E-20	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		6.96E-07	9.67E-06	1.42E-04	2.28E-04	1.03E-03	1.37E-07	3.47E-19	0.00E+00
Avg		9.47E-10	2.27E-08	2.15E-07	5.25E-07	1.14E-06	2.26E-10	1.25E-21	0.00E+00
Std		1.97E-08	3.57E-07	4.40E-06	7.54E-06	2.83E-05	3.86E-09	1.18E-20	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 CO-60.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/>									
Co-60									
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		4.94E-06	4.41E-05	1.34E-03	2.22E-03	2.85E-03	3.82E-07	1.53E-18	0.00E+00
Avg		6.24E-09	1.32E-07	1.62E-06	4.00E-06	4.65E-06	1.16E-09	7.66E-21	0.00E+00
Std		1.36E-07	1.94E-06	3.70E-05	6.41E-05	8.98E-05	1.38E-08	6.15E-20	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		4.94E-06	4.41E-05	1.34E-03	2.22E-03	2.85E-03	3.82E-07	1.53E-18	0.00E+00
Avg		6.24E-09	1.32E-07	1.62E-06	4.00E-06	4.65E-06	1.16E-09	7.66E-21	0.00E+00
Std		1.36E-07	1.94E-06	3.70E-05	6.41E-05	8.98E-05	1.38E-08	6.15E-20	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 CO-60.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/>									
Co-60									
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		1.70E-06	1.68E-05	4.23E-04	6.94E-04	9.86E-04	1.32E-07	4.47E-19	0.00E+00
Avg		2.14E-09	4.53E-08	5.15E-07	1.24E-06	1.53E-06	3.69E-10	2.37E-21	0.00E+00
Std		4.69E-08	6.87E-07	1.18E-05	2.01E-05	3.04E-05	4.58E-09	1.90E-20	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		1.70E-06	1.68E-05	4.23E-04	6.94E-04	9.86E-04	1.32E-07	4.47E-19	0.00E+00
Avg		2.14E-09	4.53E-08	5.15E-07	1.24E-06	1.53E-06	3.69E-10	2.37E-21	0.00E+00
Std		4.69E-08	6.87E-07	1.18E-05	2.01E-05	3.04E-05	4.58E-09	1.90E-20	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 CO-60.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	7.51E+00	6.46E+00	4.73E+00	1.26E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00
0.050	7.51E+00	6.58E+00	5.00E+00	1.77E+00	6.65E-02	2.80E-08	0.00E+00	0.00E+00
0.075	7.52E+00	6.59E+00	5.04E+00	1.93E+00	1.11E-01	2.07E-06	0.00E+00	0.00E+00
0.100	7.53E+00	6.59E+00	5.06E+00	1.97E+00	1.26E-01	6.82E-06	0.00E+00	0.00E+00
0.125	7.53E+00	6.60E+00	5.06E+00	2.00E+00	1.34E-01	9.05E-06	2.89E-24	0.00E+00
0.150	7.54E+00	6.60E+00	5.07E+00	2.01E+00	1.38E-01	1.11E-05	7.01E-23	0.00E+00
0.175	7.55E+00	6.61E+00	5.07E+00	2.01E+00	1.41E-01	1.20E-05	9.31E-22	0.00E+00
0.200	7.56E+00	6.62E+00	5.08E+00	2.02E+00	1.43E-01	1.28E-05	1.40E-20	0.00E+00
0.225	7.57E+00	6.63E+00	5.09E+00	2.02E+00	1.44E-01	1.33E-05	5.71E-19	0.00E+00
0.250	7.58E+00	6.64E+00	5.09E+00	2.02E+00	1.44E-01	1.37E-05	5.57E-18	0.00E+00
0.275	7.59E+00	6.65E+00	5.10E+00	2.02E+00	1.45E-01	1.39E-05	1.21E-17	0.00E+00
0.300	7.60E+00	6.66E+00	5.11E+00	2.03E+00	1.45E-01	1.41E-05	2.04E-17	0.00E+00
0.325	7.61E+00	6.67E+00	5.12E+00	2.03E+00	1.45E-01	1.42E-05	2.66E-17	0.00E+00
0.350	7.63E+00	6.68E+00	5.12E+00	2.03E+00	1.45E-01	1.43E-05	3.28E-17	0.00E+00
0.375	7.64E+00	6.69E+00	5.13E+00	2.04E+00	1.46E-01	1.44E-05	3.72E-17	0.00E+00
0.400	7.66E+00	6.71E+00	5.14E+00	2.04E+00	1.46E-01	1.44E-05	4.12E-17	0.00E+00
0.425	7.67E+00	6.72E+00	5.15E+00	2.04E+00	1.46E-01	1.45E-05	4.42E-17	0.00E+00
0.450	7.69E+00	6.73E+00	5.16E+00	2.05E+00	1.47E-01	1.45E-05	4.63E-17	0.00E+00
0.475	7.71E+00	6.75E+00	5.17E+00	2.05E+00	1.47E-01	1.46E-05	4.79E-17	0.00E+00
0.500	7.73E+00	6.77E+00	5.19E+00	2.06E+00	1.47E-01	1.46E-05	4.95E-17	0.00E+00
0.525	7.75E+00	6.78E+00	5.20E+00	2.06E+00	1.47E-01	1.46E-05	5.04E-17	0.00E+00
0.550	7.77E+00	6.80E+00	5.22E+00	2.07E+00	1.48E-01	1.46E-05	5.14E-17	0.00E+00
0.575	7.80E+00	6.83E+00	5.24E+00	2.07E+00	1.48E-01	1.47E-05	5.22E-17	0.00E+00
0.600	7.83E+00	6.85E+00	5.26E+00	2.08E+00	1.49E-01	1.47E-05	5.28E-17	0.00E+00
0.625	7.86E+00	6.88E+00	5.27E+00	2.09E+00	1.49E-01	1.48E-05	5.35E-17	0.00E+00
0.650	7.90E+00	6.91E+00	5.30E+00	2.10E+00	1.50E-01	1.48E-05	5.39E-17	0.00E+00
0.675	7.94E+00	6.95E+00	5.33E+00	2.11E+00	1.51E-01	1.49E-05	5.42E-17	0.00E+00
0.700	7.98E+00	6.99E+00	5.36E+00	2.12E+00	1.51E-01	1.49E-05	5.45E-17	0.00E+00
0.725	8.03E+00	7.03E+00	5.38E+00	2.13E+00	1.52E-01	1.50E-05	5.47E-17	0.00E+00
0.750	8.09E+00	7.08E+00	5.42E+00	2.14E+00	1.53E-01	1.50E-05	5.49E-17	0.00E+00
0.775	8.16E+00	7.14E+00	5.46E+00	2.16E+00	1.54E-01	1.51E-05	5.51E-17	0.00E+00
0.800	8.24E+00	7.19E+00	5.50E+00	2.18E+00	1.55E-01	1.52E-05	5.54E-17	0.00E+00
0.825	8.28E+00	7.24E+00	5.56E+00	2.19E+00	1.56E-01	1.53E-05	5.57E-17	0.00E+00
0.850	8.29E+00	7.27E+00	5.58E+00	2.21E+00	1.58E-01	1.54E-05	5.60E-17	0.00E+00
0.875	8.30E+00	7.27E+00	5.59E+00	2.22E+00	1.59E-01	1.56E-05	5.64E-17	0.00E+00
0.900	8.30E+00	7.27E+00	5.59E+00	2.22E+00	1.60E-01	1.58E-05	5.73E-17	0.00E+00
0.925	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.60E-01	1.60E-05	5.81E-17	0.00E+00
0.950	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.60E-01	1.61E-05	5.91E-17	0.00E+00
0.975	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.61E-01	1.61E-05	6.05E-17	0.00E+00
1.000	8.30E+00	7.28E+00	5.59E+00	2.23E+00	1.61E-01	1.61E-05	6.11E-17	0.00E+00

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	6.70E+00	8.30E+00	7.83E+00	7.73E+00	8.30E+00	8.30E+00	8.30E+00	8.30E+00
1.00E+00	4.37E+00	7.28E+00	6.84E+00	6.76E+00	7.27E+00	7.28E+00	7.28E+00	7.28E+00
1.06E+00	4.26E+00	7.22E+00	6.79E+00	6.71E+00	7.22E+00	7.22E+00	7.22E+00	7.22E+00
1.12E+00	4.15E+00	7.16E+00	6.73E+00	6.66E+00	7.16E+00	7.16E+00	7.16E+00	7.16E+00
1.19E+00	4.04E+00	7.10E+00	6.67E+00	6.60E+00	7.10E+00	7.10E+00	7.10E+00	7.10E+00
1.25E+00	3.92E+00	7.04E+00	6.61E+00	6.54E+00	7.04E+00	7.04E+00	7.04E+00	7.04E+00
1.33E+00	3.80E+00	6.97E+00	6.55E+00	6.48E+00	6.97E+00	6.97E+00	6.97E+00	6.97E+00
1.40E+00	3.68E+00	6.90E+00	6.48E+00	6.41E+00	6.90E+00	6.90E+00	6.90E+00	6.90E+00
1.49E+00	3.55E+00	6.83E+00	6.41E+00	6.34E+00	6.82E+00	6.82E+00	6.82E+00	6.83E+00
1.57E+00	3.42E+00	6.75E+00	6.34E+00	6.27E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00
1.66E+00	3.29E+00	6.67E+00	6.26E+00	6.20E+00	6.67E+00	6.67E+00	6.67E+00	6.67E+00
1.76E+00	3.16E+00	6.58E+00	6.18E+00	6.12E+00	6.58E+00	6.58E+00	6.58E+00	6.58E+00
1.86E+00	3.02E+00	6.49E+00	6.09E+00	6.04E+00	6.49E+00	6.49E+00	6.49E+00	6.49E+00
1.97E+00	2.88E+00	6.40E+00	6.01E+00	5.95E+00	6.40E+00	6.40E+00	6.40E+00	6.40E+00
2.09E+00	2.75E+00	6.31E+00	5.91E+00	5.86E+00	6.30E+00	6.31E+00	6.31E+00	6.31E+00
2.21E+00	2.61E+00	6.21E+00	5.82E+00	5.76E+00	6.20E+00	6.21E+00	6.21E+00	6.21E+00
2.24E+00	2.47E+00	6.10E+00	5.72E+00	5.66E+00	6.10E+00	6.10E+00	6.10E+00	6.10E+00
2.27E+00	2.33E+00	5.99E+00	5.61E+00	5.56E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00
2.26E+00	2.19E+00	5.88E+00	5.51E+00	5.46E+00	5.88E+00	5.88E+00	5.88E+00	5.88E+00
2.27E+00	2.05E+00	5.76E+00	5.40E+00	5.35E+00	5.76E+00	5.76E+00	5.76E+00	5.76E+00
2.23E+00	1.91E+00	5.64E+00	5.28E+00	5.23E+00	5.64E+00	5.64E+00	5.64E+00	5.64E+00
3.00E+00	1.86E+00	5.59E+00	5.23E+00	5.18E+00	5.59E+00	5.59E+00	5.59E+00	5.59E+00
3.10E+00	1.78E+00	5.52E+00	5.16E+00	5.11E+00	5.52E+00	5.52E+00	5.52E+00	5.52E+00
3.28E+00	1.65E+00	5.39E+00	5.04E+00	4.99E+00	5.39E+00	5.39E+00	5.39E+00	5.39E+00
3.48E+00	1.52E+00	5.25E+00	4.91E+00	4.87E+00	5.25E+00	5.25E+00	5.25E+00	5.25E+00
3.68E+00	1.39E+00	5.12E+00	4.78E+00	4.74E+00	5.11E+00	5.12E+00	5.12E+00	5.12E+00
3.89E+00	1.27E+00	4.97E+00	4.64E+00	4.61E+00	4.97E+00	4.97E+00	4.97E+00	4.97E+00
4.12E+00	1.15E+00	4.83E+00	4.50E+00	4.47E+00	4.82E+00	4.83E+00	4.83E+00	4.83E+00
4.36E+00	1.04E+00	4.68E+00	4.36E+00	4.33E+00	4.67E+00	4.68E+00	4.68E+00	4.68E+00
4.61E+00	9.33E-01	4.52E+00	4.21E+00	4.19E+00	4.52E+00	4.52E+00	4.52E+00	4.52E+00
4.88E+00	8.32E-01	4.37E+00	4.06E+00	4.04E+00	4.36E+00	4.37E+00	4.37E+00	4.37E+00
5.17E+00	7.37E-01	4.21E+00	3.91E+00	3.89E+00	4.20E+00	4.21E+00	4.21E+00	4.21E+00
5.47E+00	1.96E-01	4.04E+00	3.75E+00	3.74E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00
5.78E+00	2.87E-04	3.88E+00	3.59E+00	3.59E+00	3.87E+00	3.88E+00	3.88E+00	3.88E+00
6.12E+00	2.32E-04	3.71E+00	3.43E+00	3.43E+00	3.71E+00	3.71E+00	3.71E+00	3.71E+00
6.48E+00	0.00E+00	3.54E+00	3.27E+00	3.28E+00	3.54E+00	3.54E+00	3.54E+00	3.54E+00
6.86E+00	0.00E+00	3.37E+00	3.10E+00	3.12E+00	3.36E+00	3.37E+00	3.37E+00	3.37E+00
7.26E+00	0.00E+00	3.20E+00	2.94E+00	2.96E+00	3.19E+00	3.20E+00	3.20E+00	3.20E+00
7.68E+00	0.00E+00	3.02E+00	2.78E+00	2.80E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
8.13E+00	0.00E+00	2.85E+00	2.61E+00	2.64E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
8.60E+00	0.00E+00	2.68E+00	2.45E+00	2.48E+00	2.68E+00	2.68E+00	2.68E+00	2.68E+00
9.10E+00	0.00E+00	2.51E+00	2.29E+00	2.32E+00	2.50E+00	2.51E+00	2.51E+00	2.51E+00
9.63E+00	0.00E+00	2.34E+00	2.13E+00	2.16E+00	2.34E+00	2.34E+00	2.34E+00	2.34E+00
1.00E+01	0.00E+00	2.23E+00	2.03E+00	2.06E+00	2.22E+00	2.23E+00	2.23E+00	2.23E+00
1.02E+01	0.00E+00	2.17E+00	1.98E+00	2.01E+00	2.17E+00	2.17E+00	2.17E+00	2.17E+00
1.08E+01	0.00E+00	2.01E+00	1.83E+00	1.86E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
1.14E+01	0.00E+00	1.85E+00	1.68E+00	1.71E+00	1.85E+00	1.85E+00	1.85E+00	1.85E+00
1.21E+01	0.00E+00	1.70E+00	1.54E+00	1.56E+00	1.69E+00	1.69E+00	1.70E+00	1.70E+00
1.28E+01	0.00E+00	1.55E+00	1.40E+00	1.43E+00	1.54E+00	1.55E+00	1.55E+00	1.55E+00
1.35E+01	0.00E+00	1.40E+00	1.27E+00	1.29E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
1.43E+01	0.00E+00	1.26E+00	1.14E+00	1.16E+00	1.26E+00	1.26E+00	1.26E+00	1.26E+00
1.51E+01	0.00E+00	1.13E+00	1.02E+00	1.04E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.60E+01	0.00E+00	1.01E+00	9.04E-01	9.29E-01	1.01E+00	1.01E+00	1.01E+00	1.01E+00
1.70E+01	0.00E+00	8.92E-01	7.98E-01	8.21E-01	8.89E-01	8.91E-01	8.92E-01	8.92E-01
1.80E+01	0.00E+00	7.83E-01	7.00E-01	7.21E-01	7.81E-01	7.83E-01	7.83E-01	7.83E-01
1.90E+01	0.00E+00	6.82E-01	6.08E-01	6.28E-01	6.80E-01	6.82E-01	6.82E-01	6.82E-01

2.01E+01	0.00E+00	5.90E-01	5.25E-01	5.42E-01	5.88E-01	5.90E-01	5.90E-01	5.90E-01
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2.13E+01 0.00E+00 5.06E-01 4.49E-01 4.65E-01 5.04E-01 5.06E-01 5.06E-01 5.06E-01

2.25E+01 0.00E+00 4.30E-01 3.80E-01 3.95E-01 4.28E-01 4.30E-01 4.30E-01 4.30E-01

2.38E+01 0.00E+00 3.62E-01 3.19E-01 3.32E-01 3.60E-01 3.61E-01 3.62E-01 3.62E-01

2.52E+01	0.00E+00	3.01E-01	2.65E-01	2.77E-01	3.00E-01	3.01E-01	3.01E-01	3.01E-01
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2.67E+01	0.00E+00	2.48E-01	2.18E-01	2.28E-01	2.47E-01	2.48E-01	2.48E-01	2.48E-01
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2.82E+01	0.00E+00	2.02E-01	1.77E-01	1.86E-01	2.02E-01	2.02E-01	2.02E-01	2.02E-01
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2.99E+01 0.00E+00 1.63E-01 1.43E-01 1.49E-01 1.62E-01 1.63E-01 1.63E-01 1.63E-01

3.00E+01 0.00E+00 1.61E-01 1.40E-01 1.47E-01 1.60E-01 1.60E-01 1.61E-01 1.61E-01

3.16E+01 0.00E+00 1.30E-01 1.13E-01 1.19E-01 1.29E-01 1.30E-01 1.30E-01 1.30E-01

3.35E+01	0.00E+00	1.02E-01	8.84E-02	9.32E-02	1.01E-01	1.02E-01	1.02E-01	1.02E-01
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3.54E+01 0.00E+00 7.88E-02 6.83E-02 7.21E-02 7.83E-02 7.87E-02 7.88E-02 7.88E-02

3.75E+01 0.00E+00 6.01E-02 5.19E-02 5.50E-02 5.96E-02 6.00E-02 6.01E-02 6.01E-02



3.97E+01 0.00E+00 4.51E-02 3.88E-02 4.12E-02 4.47E-02 4.50E-02 4.51E-02 4.51E-02

4.20E+01	0.00E+00	3.33E-02	2.85E-02	3.04E-02	3.30E-02	3.32E-02	3.33E-02	3.33E-02
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4.44E+01 0.00E+00 2.41E-02 2.06E-02 2.21E-02 2.39E-02 2.41E-02 2.41E-02 2.41E-02

4.70E+01 0.00E+00 1.72E-02 1.46E-02 1.57E-02 1.70E-02 1.71E-02 1.72E-02 1.72E-02

4.97E+01 0.00E+00 1.20E-02 1.02E-02 1.09E-02 1.19E-02 1.20E-02 1.20E-02 1.20E-02

5.26E+01	0.00E+00	8.18E-03	6.92E-03	7.47E-03	8.08E-03	8.17E-03	8.18E-03	8.18E-03
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5.57E+01	0.00E+00	5.46E-03	4.60E-03	4.98E-03	5.40E-03	5.46E-03	5.46E-03	5.46E-03
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5.90E+01    0.00E+00    3.57E-03    2.99E-03    3.25E-03    3.52E-03    3.56E-03    3.57E-03    3.57E-03



6.24E+01 0.00E+00 2.27E-03 1.90E-03 2.07E-03 2.24E-03 2.27E-03 2.27E-03 2.27E-03

6.60E+01 0.00E+00 1.41E-03 1.17E-03 1.28E-03 1.39E-03 1.40E-03 1.41E-03 1.41E-03

6.99E+01	0.00E+00	8.49E-04	7.04E-04	7.72E-04	8.36E-04	8.47E-04	8.49E-04	8.49E-04
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7.39E+01	0.00E+00	4.97E-04	4.10E-04	4.52E-04	4.89E-04	4.96E-04	4.97E-04	4.97E-04
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7.82E+01	0.00E+00	2.82E-04	2.32E-04	2.56E-04	2.77E-04	2.81E-04	2.82E-04	2.82E-04
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8.28E+01	0.00E+00	1.55E-04	1.27E-04	1.41E-04	1.52E-04	1.55E-04	1.55E-04	1.55E-04
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8.76E+01 0.00E+00 8.22E-05 6.69E-05 7.45E-05 8.05E-05 8.19E-05 8.21E-05 8.22E-05

9.27E+01 0.00E+00 4.20E-05 3.40E-05 3.80E-05 4.11E-05 4.19E-05 4.20E-05 4.20E-05



9.81E+01 0.00E+00 2.06E-05 1.66E-05 1.87E-05 2.02E-05 2.06E-05 2.06E-05 2.06E-05

1.00E+02    0.00E+00    1.61E-05    1.30E-05    1.46E-05    1.58E-05    1.61E-05    1.61E-05    1.61E-05

1.04E+02 0.00E+00 9.73E-06 7.81E-06 8.80E-06 9.49E-06 9.69E-06 9.73E-06 9.73E-06

1.10E+02	0.00E+00	4.39E-06	3.51E-06	3.97E-06	4.28E-06	4.37E-06	4.39E-06	4.39E-06
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1.16E+02    0.00E+00    1.89E-06    1.51E-06    1.71E-06    1.84E-06    1.88E-06    1.89E-06    1.89E-06

1.23E+02 0.00E+00 7.77E-07 6.14E-07 7.00E-07 7.54E-07 7.72E-07 7.76E-07 7.76E-07

1.30E+02 0.00E+00 3.02E-07 2.38E-07 2.72E-07 2.93E-07 3.01E-07 3.02E-07 3.02E-07

1.38E+02    0.00E+00    1.12E-07    8.71E-08    1.00E-07    1.08E-07    1.11E-07    1.11E-07    1.12E-07



1.46E+02	0.00E+00	3.88E-08	3.01E-08	3.47E-08	3.75E-08	3.84E-08	3.88E-08	3.88E-08
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1.54E+02 0.00E+00 1.27E-08 9.79E-09 1.13E-08 1.22E-08 1.26E-08 1.27E-08 1.27E-08

1.63E+02	0.00E+00	3.89E-09	2.98E-09	3.46E-09	3.74E-09	3.84E-09	3.89E-09	3.89E-09
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1.73E+02 0.00E+00 1.11E-09 8.44E-10 9.88E-10 1.07E-09 1.10E-09 1.11E-09 1.11E-09

1.83E+02 0.00E+00 2.96E-10 2.22E-10 2.62E-10 2.83E-10 2.92E-10 2.96E-10 2.96E-10

1.94E+02	0.00E+00	7.29E-11	5.37E-11	6.42E-11	6.96E-11	7.19E-11	7.28E-11	7.29E-11
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2.05E+02    0.00E+00    1.65E-11    1.19E-11    1.45E-11    1.58E-11    1.63E-11    1.65E-11    1.65E-11

2.17E+02    0.00E+00    3.44E-12    2.40E-12    3.00E-12    3.28E-12    3.38E-12    3.43E-12    3.44E-12



2.29E+02	0.00E+00	6.54E-13	4.43E-13	5.64E-13	6.23E-13	6.41E-13	6.50E-13	6.54E-13
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2.43E+02	0.00E+00	1.13E-13	7.42E-14	9.64E-14	1.07E-13	1.10E-13	1.12E-13	1.13E-13
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2.57E+02	0.00E+00	1.76E-14	1.12E-14	1.49E-14	1.67E-14	1.71E-14	1.74E-14	1.76E-14
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2.72E+02    0.00E+00    2.45E-15    1.51E-15    2.04E-15    2.32E-15    2.39E-15    2.44E-15    2.45E-15

2.88E+02	0.00E+00	3.06E-16	1.82E-16	2.49E-16	2.88E-16	2.97E-16	3.03E-16	3.05E-16
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3.00E+02    0.00E+00    6.11E-17    3.55E-17    4.89E-17    5.74E-17    5.92E-17    6.05E-17    6.10E-17

3.05E+02    0.00E+00    3.37E-17    1.94E-17    2.69E-17    3.17E-17    3.27E-17    3.34E-17    3.37E-17

3.22E+02 0.00E+00 3.27E-18 1.82E-18 2.56E-18 3.06E-18 3.17E-18 3.23E-18 3.27E-18



3.41E+02 0.00E+00 2.77E-19 1.48E-19 2.07E-19 2.58E-19 2.68E-19 2.73E-19 2.77E-19

3.61E+02 0.00E+00 2.03E-20 1.05E-20 1.44E-20 1.89E-20 1.96E-20 2.00E-20 2.03E-20

3.82E+02	0.00E+00	1.28E-21	6.36E-22	8.66E-22	1.19E-21	1.23E-21	1.26E-21	1.28E-21
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4.04E+02    0.00E+00    6.87E-23    3.30E-23    4.31E-23    6.39E-23    6.56E-23    6.75E-23    6.86E-23

4.28E+02    0.00E+00    3.11E-24    1.44E-24    1.76E-24    2.88E-24    2.96E-24    3.05E-24    3.10E-24

4.53E+02	0.00E+00	1.17E-25	5.21E-26	5.93E-26	1.08E-25	1.12E-25	1.15E-25	1.17E-25
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4.79E+02    0.00E+00    3.66E-27    1.56E-27    1.52E-27    3.37E-27    3.49E-27    3.58E-27    3.65E-27

5.07E+02    0.00E+00    9.33E-29    3.78E-29    2.57E-29    8.49E-29    8.88E-29    9.12E-29    9.31E-29



5.36E+02 0.00E+00 1.66E-30 6.49E-31 0.00E+00 1.65E-30 1.65E-30 1.66E-30 1.66E-30

[illegible]



[illegible]

[illegible]

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7.12E+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]

[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 CO-60.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	5.72E+00	8.30E+00	7.82E+00	7.72E+00	8.30E+00	8.30E+00	8.30E+00	8.30E+00
1.00E+00	2.17E+00	7.28E+00	6.83E+00	6.76E+00	7.27E+00	7.28E+00	7.28E+00	7.28E+00
1.06E+00	2.05E+00	7.22E+00	6.78E+00	6.71E+00	7.22E+00	7.22E+00	7.22E+00	7.22E+00
1.12E+00	1.93E+00	7.16E+00	6.72E+00	6.66E+00	7.16E+00	7.16E+00	7.16E+00	7.16E+00
1.19E+00	1.81E+00	7.10E+00	6.66E+00	6.60E+00	7.10E+00	7.10E+00	7.10E+00	7.10E+00
1.25E+00	1.70E+00	7.04E+00	6.60E+00	6.54E+00	7.03E+00	7.04E+00	7.04E+00	7.04E+00
1.33E+00	1.58E+00	6.97E+00	6.54E+00	6.47E+00	6.97E+00	6.97E+00	6.97E+00	6.97E+00
1.40E+00	1.47E+00	6.90E+00	6.47E+00	6.41E+00	6.90E+00	6.90E+00	6.90E+00	6.90E+00
1.49E+00	1.35E+00	6.83E+00	6.40E+00	6.34E+00	6.82E+00	6.82E+00	6.82E+00	6.83E+00
1.57E+00	1.24E+00	6.75E+00	6.33E+00	6.27E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00
1.66E+00	1.14E+00	6.67E+00	6.25E+00	6.19E+00	6.66E+00	6.67E+00	6.67E+00	6.67E+00
1.76E+00	1.04E+00	6.58E+00	6.17E+00	6.11E+00	6.58E+00	6.58E+00	6.58E+00	6.58E+00
1.86E+00	9.38E-01	6.49E+00	6.08E+00	6.03E+00	6.49E+00	6.49E+00	6.49E+00	6.49E+00
1.97E+00	8.44E-01	6.40E+00	5.99E+00	5.94E+00	6.40E+00	6.40E+00	6.40E+00	6.40E+00
2.09E+00	7.55E-01	6.31E+00	5.90E+00	5.85E+00	6.30E+00	6.31E+00	6.31E+00	6.31E+00
2.21E+00	6.71E-01	6.21E+00	5.81E+00	5.76E+00	6.20E+00	6.21E+00	6.21E+00	6.21E+00
2.34E+00	5.92E-01	6.10E+00	5.71E+00	5.66E+00	6.10E+00	6.10E+00	6.10E+00	6.10E+00
2.47E+00	5.19E-01	5.99E+00	5.60E+00	5.56E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00
2.62E+00	4.51E-01	5.88E+00	5.50E+00	5.46E+00	5.88E+00	5.88E+00	5.88E+00	5.88E+00
2.77E+00	3.89E-01	5.76E+00	5.38E+00	5.35E+00	5.76E+00	5.76E+00	5.76E+00	5.76E+00
2.93E+00	3.32E-01	5.64E+00	5.27E+00	5.23E+00	5.64E+00	5.64E+00	5.64E+00	5.64E+00
3.00E+00	3.11E-01	5.59E+00	5.22E+00	5.19E+00	5.59E+00	5.59E+00	5.59E+00	5.59E+00
3.10E+00	2.82E-01	5.52E+00	5.15E+00	5.12E+00	5.51E+00	5.52E+00	5.52E+00	5.52E+00
3.28E+00	2.36E-01	5.39E+00	5.03E+00	5.00E+00	5.38E+00	5.39E+00	5.39E+00	5.39E+00
3.48E+00	1.96E-01	5.25E+00	4.90E+00	4.87E+00	5.25E+00	5.25E+00	5.25E+00	5.25E+00
3.68E+00	1.61E-01	5.12E+00	4.77E+00	4.74E+00	5.11E+00	5.12E+00	5.12E+00	5.12E+00
3.89E+00	1.31E-01	4.97E+00	4.63E+00	4.61E+00	4.97E+00	4.97E+00	4.97E+00	4.97E+00
4.12E+00	1.05E-01	4.83E+00	4.49E+00	4.48E+00	4.82E+00	4.83E+00	4.83E+00	4.83E+00
4.36E+00	8.32E-02	4.68E+00	4.35E+00	4.34E+00	4.67E+00	4.68E+00	4.68E+00	4.68E+00
4.61E+00	6.50E-02	4.52E+00	4.20E+00	4.19E+00	4.52E+00	4.52E+00	4.52E+00	4.52E+00
4.88E+00	5.01E-02	4.37E+00	4.05E+00	4.05E+00	4.36E+00	4.37E+00	4.37E+00	4.37E+00
5.17E+00	3.80E-02	4.21E+00	3.89E+00	3.90E+00	4.20E+00	4.21E+00	4.21E+00	4.21E+00
5.47E+00	4.59E-06	4.04E+00	3.74E+00	3.75E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00
5.78E+00	0.00E+00	3.88E+00	3.58E+00	3.59E+00	3.87E+00	3.88E+00	3.88E+00	3.88E+00
6.12E+00	0.00E+00	3.71E+00	3.42E+00	3.43E+00	3.71E+00	3.71E+00	3.71E+00	3.71E+00
6.48E+00	0.00E+00	3.54E+00	3.26E+00	3.27E+00	3.54E+00	3.54E+00	3.54E+00	3.54E+00
6.86E+00	0.00E+00	3.37E+00	3.10E+00	3.11E+00	3.36E+00	3.37E+00	3.37E+00	3.37E+00
7.26E+00	0.00E+00	3.20E+00	2.93E+00	2.95E+00	3.19E+00	3.20E+00	3.20E+00	3.20E+00
7.68E+00	0.00E+00	3.02E+00	2.77E+00	2.79E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
8.13E+00	0.00E+00	2.85E+00	2.61E+00	2.63E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
8.60E+00	0.00E+00	2.68E+00	2.45E+00	2.47E+00	2.67E+00	2.68E+00	2.68E+00	2.68E+00
9.10E+00	0.00E+00	2.51E+00	2.29E+00	2.32E+00	2.50E+00	2.51E+00	2.51E+00	2.51E+00
9.63E+00	0.00E+00	2.34E+00	2.13E+00	2.16E+00	2.33E+00	2.34E+00	2.34E+00	2.34E+00
1.00E+01	0.00E+00	2.23E+00	2.03E+00	2.06E+00	2.22E+00	2.23E+00	2.23E+00	2.23E+00
1.02E+01	0.00E+00	2.17E+00	1.98E+00	2.01E+00	2.17E+00	2.17E+00	2.17E+00	2.17E+00
1.08E+01	0.00E+00	2.01E+00	1.82E+00	1.85E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
1.14E+01	0.00E+00	1.85E+00	1.68E+00	1.71E+00	1.85E+00	1.85E+00	1.85E+00	1.85E+00
1.21E+01	0.00E+00	1.70E+00	1.53E+00	1.56E+00	1.69E+00	1.69E+00	1.70E+00	1.70E+00
1.28E+01	0.00E+00	1.55E+00	1.40E+00	1.43E+00	1.54E+00	1.54E+00	1.55E+00	1.55E+00
1.35E+01	0.00E+00	1.40E+00	1.26E+00	1.29E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
1.43E+01	0.00E+00	1.26E+00	1.14E+00	1.16E+00	1.26E+00	1.26E+00	1.26E+00	1.26E+00
1.51E+01	0.00E+00	1.13E+00	1.02E+00	1.04E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
1.60E+01	0.00E+00	1.01E+00	9.03E-01	9.29E-01	1.00E+00	1.01E+00	1.01E+00	1.01E+00
1.70E+01	0.00E+00	8.92E-01	7.97E-01	8.21E-01	8.89E-01	8.91E-01	8.92E-01	8.92E-01
1.80E+01	0.00E+00	7.83E-01	6.98E-01	7.21E-01	7.80E-01	7.82E-01	7.83E-01	7.83E-01
1.90E+01	0.00E+00	6.82E-01	6.07E-01	6.28E-01	6.80E-01	6.82E-01	6.82E-01	6.82E-01

2.01E+01 0.00E+00 5.90E-01 5.24E-01 5.42E-01 5.88E-01 5.89E-01 5.90E-01 5.90E-01



2.13E+01	0.00E+00	5.06E-01	4.48E-01	4.65E-01	5.04E-01	5.05E-01	5.06E-01	5.06E-01
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2.25E+01 0.00E+00 4.30E-01 3.80E-01 3.95E-01 4.28E-01 4.29E-01 4.30E-01 4.30E-01

2.38E+01 0.00E+00 3.62E-01 3.19E-01 3.32E-01 3.60E-01 3.61E-01 3.62E-01 3.62E-01

2.52E+01	0.00E+00	3.01E-01	2.65E-01	2.77E-01	3.00E-01	3.01E-01	3.01E-01	3.01E-01
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2.67E+01	0.00E+00	2.48E-01	2.18E-01	2.28E-01	2.47E-01	2.48E-01	2.48E-01	2.48E-01
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2.82E+01 0.00E+00 2.02E-01 1.77E-01 1.86E-01 2.01E-01 2.02E-01 2.02E-01 2.02E-01

2.99E+01 0.00E+00 1.63E-01 1.42E-01 1.50E-01 1.62E-01 1.63E-01 1.63E-01 1.63E-01

3.00E+01 0.00E+00 1.61E-01 1.40E-01 1.47E-01 1.60E-01 1.60E-01 1.61E-01 1.61E-01



3.16E+01 0.00E+00 1.30E-01 1.13E-01 1.19E-01 1.29E-01 1.30E-01 1.30E-01 1.30E-01

3.35E+01	0.00E+00	1.02E-01	8.84E-02	9.32E-02	1.01E-01	1.02E-01	1.02E-01	1.02E-01
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3.54E+01	0.00E+00	7.88E-02	6.82E-02	7.21E-02	7.82E-02	7.87E-02	7.88E-02	7.88E-02
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3.75E+01 0.00E+00 6.01E-02 5.18E-02 5.49E-02 5.96E-02 6.00E-02 6.00E-02 6.01E-02

3.97E+01 0.00E+00 4.51E-02 3.88E-02 4.12E-02 4.47E-02 4.50E-02 4.51E-02 4.51E-02

4.20E+01	0.00E+00	3.33E-02	2.85E-02	3.04E-02	3.29E-02	3.32E-02	3.33E-02	3.33E-02
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4.44E+01 0.00E+00 2.41E-02 2.06E-02 2.20E-02 2.39E-02 2.41E-02 2.41E-02 2.41E-02

4.70E+01 0.00E+00 1.72E-02 1.46E-02 1.57E-02 1.70E-02 1.71E-02 1.72E-02 1.72E-02



4.97E+01 0.00E+00 1.20E-02 1.02E-02 1.09E-02 1.18E-02 1.19E-02 1.20E-02 1.20E-02

5.26E+01	0.00E+00	8.18E-03	6.93E-03	7.45E-03	8.07E-03	8.16E-03	8.18E-03	8.18E-03
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5.57E+01	0.00E+00	5.46E-03	4.61E-03	4.97E-03	5.39E-03	5.45E-03	5.46E-03	5.46E-03
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5.90E+01    0.00E+00    3.57E-03    3.00E-03    3.25E-03    3.51E-03    3.56E-03    3.56E-03    3.57E-03

6.24E+01 0.00E+00 2.27E-03 1.90E-03 2.06E-03 2.23E-03 2.26E-03 2.27E-03 2.27E-03

6.60E+01 0.00E+00 1.41E-03 1.17E-03 1.28E-03 1.38E-03 1.40E-03 1.41E-03 1.41E-03

6.99E+01 0.00E+00 8.49E-04 7.06E-04 7.70E-04 8.34E-04 8.46E-04 8.48E-04 8.49E-04

7.39E+01	0.00E+00	4.97E-04	4.12E-04	4.51E-04	4.88E-04	4.95E-04	4.97E-04	4.97E-04
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7.82E+01	0.00E+00	2.82E-04	2.33E-04	2.56E-04	2.77E-04	2.81E-04	2.82E-04	2.82E-04
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8.28E+01	0.00E+00	1.55E-04	1.27E-04	1.40E-04	1.52E-04	1.54E-04	1.55E-04	1.55E-04
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8.76E+01 0.00E+00 8.22E-05 6.71E-05 7.43E-05 8.04E-05 8.18E-05 8.21E-05 8.22E-05

9.27E+01 0.00E+00 4.20E-05 3.42E-05 3.80E-05 4.10E-05 4.18E-05 4.20E-05 4.20E-05

9.81E+01 0.00E+00 2.06E-05 1.67E-05 1.87E-05 2.01E-05 2.05E-05 2.06E-05 2.06E-05

1.00E+02    0.00E+00    1.61E-05    1.31E-05    1.46E-05    1.57E-05    1.61E-05    1.61E-05    1.61E-05

1.04E+02 0.00E+00 9.73E-06 7.85E-06 8.79E-06 9.48E-06 9.68E-06 9.72E-06 9.73E-06

1.10E+02	0.00E+00	4.39E-06	3.53E-06	3.96E-06	4.27E-06	4.37E-06	4.39E-06	4.39E-06
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1.16E+02 0.00E+00 1.89E-06 1.51E-06 1.71E-06 1.84E-06 1.88E-06 1.89E-06 1.89E-06

1.23E+02	0.00E+00	7.77E-07	6.18E-07	6.98E-07	7.53E-07	7.72E-07	7.75E-07	7.76E-07
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1.30E+02 0.00E+00 3.02E-07 2.39E-07 2.72E-07 2.93E-07 3.00E-07 3.02E-07 3.02E-07

1.38E+02 0.00E+00 1.12E-07 8.77E-08 1.00E-07 1.08E-07 1.11E-07 1.11E-07 1.12E-07

1.46E+02	0.00E+00	3.88E-08	3.03E-08	3.48E-08	3.73E-08	3.85E-08	3.87E-08	3.88E-08
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1.54E+02 0.00E+00 1.27E-08 9.85E-09 1.13E-08 1.22E-08 1.26E-08 1.27E-08 1.27E-08

1.63E+02    0.00E+00    3.89E-09    3.00E-09    3.47E-09    3.73E-09    3.85E-09    3.88E-09    3.89E-09

1.73E+02 0.00E+00 1.11E-09 8.49E-10 9.90E-10 1.06E-09 1.10E-09 1.11E-09 1.11E-09



1.83E+02    0.00E+00    2.96E-10    2.23E-10    2.62E-10    2.82E-10    2.92E-10    2.95E-10    2.96E-10

1.94E+02	0.00E+00	7.29E-11	5.42E-11	6.43E-11	6.93E-11	7.20E-11	7.26E-11	7.29E-11
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2.05E+02    0.00E+00    1.65E-11    1.20E-11    1.45E-11    1.57E-11    1.63E-11    1.65E-11    1.65E-11

2.17E+02    0.00E+00    3.45E-12    2.43E-12    3.01E-12    3.26E-12    3.39E-12    3.43E-12    3.44E-12

2.29E+02    0.00E+00    6.54E-13    4.50E-13    5.66E-13    6.18E-13    6.42E-13    6.51E-13    6.54E-13

2.43E+02	0.00E+00	1.13E-13	7.55E-14	9.70E-14	1.06E-13	1.11E-13	1.12E-13	1.13E-13
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2.57E+02	0.00E+00	1.76E-14	1.14E-14	1.49E-14	1.65E-14	1.72E-14	1.74E-14	1.76E-14
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2.72E+02	0.00E+00	2.45E-15	1.55E-15	2.05E-15	2.31E-15	2.39E-15	2.43E-15	2.45E-15
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2.88E+02	0.00E+00	3.06E-16	1.87E-16	2.52E-16	2.87E-16	2.96E-16	3.03E-16	3.05E-16
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3.00E+02    0.00E+00    6.11E-17    3.65E-17    4.98E-17    5.72E-17    5.91E-17    6.05E-17    6.10E-17

3.05E+02    0.00E+00    3.37E-17    2.00E-17    2.73E-17    3.15E-17    3.26E-17    3.34E-17    3.37E-17

3.22E+02 0.00E+00 3.27E-18 1.88E-18 2.59E-18 3.06E-18 3.16E-18 3.24E-18 3.26E-18

3.41E+02	0.00E+00	2.77E-19	1.54E-19	2.15E-19	2.58E-19	2.66E-19	2.74E-19	2.76E-19
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3.61E+02    0.00E+00    2.03E-20    1.09E-20    1.52E-20    1.89E-20    1.94E-20    2.01E-20    2.03E-20

3.82E+02	0.00E+00	1.28E-21	6.62E-22	9.39E-22	1.18E-21	1.22E-21	1.26E-21	1.28E-21
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4.04E+02    0.00E+00    6.87E-23    3.43E-23    4.82E-23    6.32E-23    6.53E-23    6.76E-23    6.85E-23



4.28E+02    0.00E+00    3.11E-24    1.50E-24    2.06E-24    2.85E-24    2.94E-24    3.05E-24    3.10E-24

4.53E+02	0.00E+00	1.17E-25	5.44E-26	7.22E-26	1.07E-25	1.11E-25	1.15E-25	1.17E-25
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4.79E+02    0.00E+00    3.66E-27    1.63E-27    1.92E-27    3.34E-27    3.47E-27    3.59E-27    3.65E-27

5.07E+02    0.00E+00    9.32E-29    3.92E-29    4.04E-29    8.43E-29    8.83E-29    9.14E-29    9.29E-29

5.36E+02 0.00E+00 1.66E-30 6.78E-31 0.00E+00 1.64E-30 1.65E-30 1.66E-30 1.66E-30



[illegible]

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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]

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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 CO-60.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	6.85E+00	8.30E+00	7.83E+00	7.73E+00	8.30E+00	8.30E+00	8.30E+00	8.30E+00
1.00E+00	4.81E+00	7.28E+00	6.85E+00	6.77E+00	7.27E+00	7.28E+00	7.28E+00	7.28E+00
1.06E+00	4.72E+00	7.22E+00	6.79E+00	6.71E+00	7.22E+00	7.22E+00	7.22E+00	7.22E+00
1.12E+00	4.62E+00	7.16E+00	6.74E+00	6.66E+00	7.16E+00	7.16E+00	7.16E+00	7.16E+00
1.19E+00	4.51E+00	7.10E+00	6.68E+00	6.60E+00	7.10E+00	7.10E+00	7.10E+00	7.10E+00
1.25E+00	4.40E+00	7.04E+00	6.62E+00	6.54E+00	7.04E+00	7.04E+00	7.04E+00	7.04E+00
1.33E+00	4.29E+00	6.97E+00	6.55E+00	6.48E+00	6.97E+00	6.97E+00	6.97E+00	6.97E+00
1.40E+00	4.18E+00	6.90E+00	6.48E+00	6.41E+00	6.90E+00	6.90E+00	6.90E+00	6.90E+00
1.49E+00	4.06E+00	6.83E+00	6.41E+00	6.35E+00	6.82E+00	6.82E+00	6.83E+00	6.83E+00
1.57E+00	3.93E+00	6.75E+00	6.34E+00	6.27E+00	6.75E+00	6.75E+00	6.75E+00	6.75E+00
1.66E+00	3.81E+00	6.67E+00	6.26E+00	6.20E+00	6.67E+00	6.67E+00	6.67E+00	6.67E+00
1.76E+00	3.68E+00	6.58E+00	6.18E+00	6.12E+00	6.58E+00	6.58E+00	6.58E+00	6.58E+00
1.86E+00	3.55E+00	6.49E+00	6.10E+00	6.04E+00	6.49E+00	6.49E+00	6.49E+00	6.49E+00
1.97E+00	3.42E+00	6.40E+00	6.01E+00	5.95E+00	6.40E+00	6.40E+00	6.40E+00	6.40E+00
2.09E+00	3.28E+00	6.31E+00	5.92E+00	5.86E+00	6.30E+00	6.31E+00	6.31E+00	6.31E+00
2.21E+00	3.14E+00	6.21E+00	5.82E+00	5.77E+00	6.20E+00	6.21E+00	6.21E+00	6.21E+00
2.24E+00	3.01E+00	6.10E+00	5.72E+00	5.67E+00	6.10E+00	6.10E+00	6.10E+00	6.10E+00
2.27E+00	2.86E+00	5.99E+00	5.62E+00	5.57E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00
2.26E+00	2.72E+00	5.88E+00	5.51E+00	5.46E+00	5.88E+00	5.88E+00	5.88E+00	5.88E+00
2.27E+00	2.58E+00	5.76E+00	5.40E+00	5.35E+00	5.76E+00	5.76E+00	5.76E+00	5.76E+00
2.23E+00	2.44E+00	5.64E+00	5.28E+00	5.24E+00	5.64E+00	5.64E+00	5.64E+00	5.64E+00
2.30E+00	2.38E+00	5.59E+00	5.24E+00	5.19E+00	5.59E+00	5.59E+00	5.59E+00	5.59E+00
2.31E+00	2.30E+00	5.52E+00	5.17E+00	5.12E+00	5.52E+00	5.52E+00	5.52E+00	5.52E+00
2.32E+00	2.15E+00	5.39E+00	5.04E+00	5.00E+00	5.39E+00	5.39E+00	5.39E+00	5.39E+00
2.34E+00	2.01E+00	5.25E+00	4.91E+00	4.87E+00	5.25E+00	5.25E+00	5.25E+00	5.25E+00
2.36E+00	1.87E+00	5.12E+00	4.78E+00	4.74E+00	5.11E+00	5.12E+00	5.12E+00	5.12E+00
2.39E+00	1.74E+00	4.97E+00	4.65E+00	4.61E+00	4.97E+00	4.97E+00	4.97E+00	4.97E+00
2.42E+00	1.61E+00	4.83E+00	4.51E+00	4.47E+00	4.83E+00	4.83E+00	4.83E+00	4.83E+00
2.46E+00	1.48E+00	4.68E+00	4.36E+00	4.33E+00	4.68E+00	4.68E+00	4.68E+00	4.68E+00
2.46E+00	1.35E+00	4.52E+00	4.22E+00	4.19E+00	4.52E+00	4.52E+00	4.52E+00	4.52E+00
2.48E+00	9.30E-01	4.37E+00	4.06E+00	4.04E+00	4.36E+00	4.37E+00	4.37E+00	4.37E+00
2.51E+00	2.47E-01	4.21E+00	3.91E+00	3.90E+00	4.20E+00	4.21E+00	4.21E+00	4.21E+00
2.54E+00	1.95E-04	4.04E+00	3.75E+00	3.74E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00
2.57E+00	0.00E+00	3.88E+00	3.59E+00	3.59E+00	3.88E+00	3.88E+00	3.88E+00	3.88E+00
2.62E+00	0.00E+00	3.71E+00	3.43E+00	3.43E+00	3.71E+00	3.71E+00	3.71E+00	3.71E+00
2.64E+00	0.00E+00	3.54E+00	3.27E+00	3.27E+00	3.54E+00	3.54E+00	3.54E+00	3.54E+00
2.66E+00	0.00E+00	3.37E+00	3.11E+00	3.11E+00	3.37E+00	3.37E+00	3.37E+00	3.37E+00
2.72E+00	0.00E+00	3.20E+00	2.95E+00	2.95E+00	3.19E+00	3.20E+00	3.20E+00	3.20E+00
2.78E+00	0.00E+00	3.02E+00	2.78E+00	2.79E+00	3.02E+00	3.02E+00	3.02E+00	3.02E+00
2.81E+00	0.00E+00	2.85E+00	2.62E+00	2.63E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
2.86E+00	0.00E+00	2.68E+00	2.46E+00	2.47E+00	2.68E+00	2.68E+00	2.68E+00	2.68E+00
2.91E+00	0.00E+00	2.51E+00	2.30E+00	2.32E+00	2.51E+00	2.51E+00	2.51E+00	2.51E+00
2.96E+00	0.00E+00	2.34E+00	2.14E+00	2.16E+00	2.34E+00	2.34E+00	2.34E+00	2.34E+00
3.00E+01	0.00E+00	2.23E+00	2.04E+00	2.06E+00	2.23E+00	2.23E+00	2.23E+00	2.23E+00
3.10E+01	0.00E+00	2.17E+00	1.99E+00	2.01E+00	2.17E+00	2.17E+00	2.17E+00	2.17E+00
3.18E+01	0.00E+00	2.01E+00	1.83E+00	1.85E+00	2.01E+00	2.01E+00	2.01E+00	2.01E+00
3.14E+01	0.00E+00	1.85E+00	1.68E+00	1.71E+00	1.85E+00	1.85E+00	1.85E+00	1.85E+00
3.21E+01	0.00E+00	1.70E+00	1.54E+00	1.56E+00	1.69E+00	1.69E+00	1.70E+00	1.70E+00
3.28E+01	0.00E+00	1.55E+00	1.40E+00	1.42E+00	1.54E+00	1.55E+00	1.55E+00	1.55E+00
3.35E+01	0.00E+00	1.40E+00	1.27E+00	1.29E+00	1.40E+00	1.40E+00	1.40E+00	1.40E+00
3.43E+01	0.00E+00	1.26E+00	1.14E+00	1.16E+00	1.26E+00	1.26E+00	1.26E+00	1.26E+00
3.51E+01	0.00E+00	1.13E+00	1.02E+00	1.04E+00	1.13E+00	1.13E+00	1.13E+00	1.13E+00
3.60E+01	0.00E+00	1.01E+00	9.06E-01	9.27E-01	1.01E+00	1.01E+00	1.01E+00	1.01E+00
3.70E+01	0.00E+00	8.92E-01	8.00E-01	8.19E-01	8.90E-01	8.91E-01	8.92E-01	8.92E-01
3.80E+01	0.00E+00	7.83E-01	7.01E-01	7.19E-01	7.81E-01	7.83E-01	7.83E-01	7.83E-01
3.90E+01	0.00E+00	6.82E-01	6.10E-01	6.26E-01	6.81E-01	6.82E-01	6.82E-01	6.82E-01

2.01E+01 0.00E+00 5.90E-01 5.26E-01 5.41E-01 5.88E-01 5.90E-01 5.90E-01 5.90E-01

2.13E+01 0.00E+00 5.06E-01 4.50E-01 4.64E-01 5.04E-01 5.05E-01 5.06E-01 5.06E-01

2.25E+01 0.00E+00 4.30E-01 3.81E-01 3.94E-01 4.28E-01 4.29E-01 4.30E-01 4.30E-01

2.38E+01 0.00E+00 3.62E-01 3.20E-01 3.32E-01 3.60E-01 3.61E-01 3.62E-01 3.62E-01

2.52E+01	0.00E+00	3.01E-01	2.66E-01	2.76E-01	3.00E-01	3.01E-01	3.01E-01	3.01E-01
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2.67E+01	0.00E+00	2.48E-01	2.19E-01	2.28E-01	2.47E-01	2.48E-01	2.48E-01	2.48E-01
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2.82E+01 0.00E+00 2.02E-01 1.78E-01 1.85E-01 2.02E-01 2.02E-01 2.02E-01 2.02E-01

2.99E+01 0.00E+00 1.63E-01 1.43E-01 1.49E-01 1.62E-01 1.63E-01 1.63E-01 1.63E-01

3.00E+01 0.00E+00 1.61E-01 1.41E-01 1.47E-01 1.60E-01 1.60E-01 1.61E-01 1.61E-01

3.16E+01 0.00E+00 1.30E-01 1.13E-01 1.19E-01 1.29E-01 1.30E-01 1.30E-01 1.30E-01

3.35E+01 0.00E+00 1.02E-01 8.87E-02 9.31E-02 1.01E-01 1.02E-01 1.02E-01 1.02E-01

3.54E+01	0.00E+00	7.88E-02	6.85E-02	7.20E-02	7.83E-02	7.87E-02	7.88E-02	7.88E-02
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3.75E+01 0.00E+00 6.01E-02 5.20E-02 5.49E-02 5.97E-02 6.00E-02 6.01E-02 6.01E-02



3.97E+01 0.00E+00 4.51E-02 3.89E-02 4.12E-02 4.48E-02 4.50E-02 4.51E-02 4.51E-02

4.20E+01	0.00E+00	3.33E-02	2.86E-02	3.04E-02	3.30E-02	3.32E-02	3.33E-02	3.33E-02
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4.44E+01 0.00E+00 2.41E-02 2.07E-02 2.20E-02 2.39E-02 2.41E-02 2.41E-02 2.41E-02

4.70E+01 0.00E+00 1.72E-02 1.47E-02 1.57E-02 1.70E-02 1.71E-02 1.72E-02 1.72E-02

4.97E+01 0.00E+00 1.20E-02 1.02E-02 1.09E-02 1.19E-02 1.20E-02 1.20E-02 1.20E-02

5.26E+01	0.00E+00	8.18E-03	6.94E-03	7.45E-03	8.11E-03	8.16E-03	8.18E-03	8.18E-03
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5.57E+01	0.00E+00	5.46E-03	4.62E-03	4.98E-03	5.42E-03	5.45E-03	5.46E-03	5.46E-03
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5.90E+01 0.00E+00 3.57E-03 3.01E-03 3.25E-03 3.53E-03 3.56E-03 3.57E-03 3.57E-03



6.24E+01 0.00E+00 2.27E-03 1.91E-03 2.06E-03 2.25E-03 2.27E-03 2.27E-03 2.27E-03

6.60E+01 0.00E+00 1.41E-03 1.18E-03 1.28E-03 1.39E-03 1.40E-03 1.41E-03 1.41E-03

6.99E+01	0.00E+00	8.49E-04	7.08E-04	7.70E-04	8.39E-04	8.47E-04	8.49E-04	8.49E-04
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7.39E+01	0.00E+00	4.97E-04	4.13E-04	4.51E-04	4.91E-04	4.96E-04	4.97E-04	4.97E-04
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7.82E+01	0.00E+00	2.82E-04	2.33E-04	2.56E-04	2.79E-04	2.81E-04	2.82E-04	2.82E-04
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8.28E+01	0.00E+00	1.55E-04	1.28E-04	1.40E-04	1.53E-04	1.54E-04	1.55E-04	1.55E-04
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8.76E+01 0.00E+00 8.22E-05 6.74E-05 7.44E-05 8.09E-05 8.17E-05 8.21E-05 8.22E-05

9.27E+01 0.00E+00 4.20E-05 3.43E-05 3.80E-05 4.12E-05 4.18E-05 4.20E-05 4.20E-05



9.81E+01	0.00E+00	2.06E-05	1.68E-05	1.87E-05	2.02E-05	2.05E-05	2.06E-05	2.06E-05
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1.00E+02    0.00E+00    1.61E-05    1.31E-05    1.46E-05    1.58E-05    1.60E-05    1.61E-05    1.61E-05

1.04E+02   0.00E+00   9.73E-06   7.86E-06   8.80E-06   9.54E-06   9.67E-06   9.73E-06   9.73E-06

1.10E+02	0.00E+00	4.39E-06	3.53E-06	3.97E-06	4.30E-06	4.36E-06	4.39E-06	4.39E-06
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1.16E+02 0.00E+00 1.89E-06 1.51E-06 1.71E-06 1.85E-06 1.88E-06 1.89E-06 1.89E-06

1.23E+02	0.00E+00	7.77E-07	6.18E-07	7.00E-07	7.57E-07	7.71E-07	7.76E-07	7.76E-07
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1.30E+02    0.00E+00    3.02E-07    2.40E-07    2.72E-07    2.94E-07    3.00E-07    3.02E-07    3.02E-07

1.38E+02 0.00E+00 1.12E-07 8.78E-08 1.00E-07 1.08E-07 1.11E-07 1.11E-07 1.12E-07



1.46E+02	0.00E+00	3.88E-08	3.04E-08	3.48E-08	3.76E-08	3.85E-08	3.88E-08	3.88E-08
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1.54E+02 0.00E+00 1.27E-08 9.87E-09 1.14E-08 1.23E-08 1.26E-08 1.27E-08 1.27E-08

1.63E+02	0.00E+00	3.89E-09	3.00E-09	3.47E-09	3.76E-09	3.85E-09	3.89E-09	3.89E-09
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1.73E+02 0.00E+00 1.11E-09 8.51E-10 9.89E-10 1.07E-09 1.10E-09 1.11E-09 1.11E-09

1.83E+02 0.00E+00 2.96E-10 2.24E-10 2.62E-10 2.85E-10 2.93E-10 2.96E-10 2.96E-10

1.94E+02	0.00E+00	7.29E-11	5.43E-11	6.43E-11	6.97E-11	7.20E-11	7.28E-11	7.29E-11
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2.05E+02    0.00E+00    1.65E-11    1.20E-11    1.45E-11    1.58E-11    1.63E-11    1.65E-11    1.65E-11

2.17E+02    0.00E+00    3.45E-12    2.44E-12    3.00E-12    3.28E-12    3.38E-12    3.44E-12    3.44E-12



2.29E+02	0.00E+00	6.54E-13	4.51E-13	5.65E-13	6.21E-13	6.42E-13	6.53E-13	6.54E-13
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2.43E+02	0.00E+00	1.13E-13	7.54E-14	9.62E-14	1.07E-13	1.11E-13	1.12E-13	1.13E-13
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2.57E+02    0.00E+00    1.76E-14    1.14E-14    1.47E-14    1.66E-14    1.72E-14    1.75E-14    1.76E-14

2.72E+02	0.00E+00	2.45E-15	1.54E-15	2.04E-15	2.31E-15	2.39E-15	2.44E-15	2.45E-15
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2.88E+02	0.00E+00	3.06E-16	1.86E-16	2.51E-16	2.88E-16	2.97E-16	3.04E-16	3.05E-16
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3.00E+02    0.00E+00    6.11E-17    3.62E-17    4.97E-17    5.73E-17    5.93E-17    6.06E-17    6.10E-17

3.05E+02 0.00E+00 3.37E-17 1.99E-17 2.73E-17 3.16E-17 3.27E-17 3.35E-17 3.37E-17

3.22E+02 0.00E+00 3.27E-18 1.86E-18 2.57E-18 3.06E-18 3.16E-18 3.24E-18 3.27E-18



3.41E+02	0.00E+00	2.77E-19	1.52E-19	2.14E-19	2.59E-19	2.67E-19	2.73E-19	2.76E-19
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3.61E+02    0.00E+00    2.03E-20    1.08E-20    1.52E-20    1.89E-20    1.95E-20    2.00E-20    2.03E-20

3.82E+02	0.00E+00	1.28E-21	6.55E-22	9.35E-22	1.19E-21	1.22E-21	1.25E-21	1.28E-21
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4.04E+02 0.00E+00 6.87E-23 3.40E-23 4.74E-23 6.33E-23 6.54E-23 6.71E-23 6.84E-23

4.28E+02    0.00E+00    3.11E-24    1.48E-24    2.03E-24    2.86E-24    2.95E-24    3.03E-24    3.09E-24

4.53E+02	0.00E+00	1.17E-25	5.39E-26	6.96E-26	1.07E-25	1.11E-25	1.14E-25	1.17E-25
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4.79E+02    0.00E+00    3.66E-27    1.62E-27    1.91E-27    3.34E-27    3.47E-27    3.56E-27    3.64E-27

5.07E+02    0.00E+00    9.33E-29    3.91E-29    3.74E-29    8.42E-29    8.82E-29    9.05E-29    9.27E-29



5.36E+02 0.00E+00 1.66E-30 6.78E-31 0.00E+00 1.64E-30 1.65E-30 1.65E-30 1.66E-30

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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 CO-60.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	7.827E+00
2	0.000E+00	7.822E+00
3	0.000E+00	7.829E+00

Title : RESRAD Default Parameters  
Input File : FCS SOIL UNCERTAINTY ANALYSIS CO-60.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	2	-0.08	2	-0.03	7	0.05	7	0.01
Contaminated zone b parameter	7	-0.04	7	-0.01	10	0.04	10	0.01
Evapotranspiration coefficient	16	0.01	16	0.00	4	0.14	4	0.02
Wind Speed	9	0.03	9	0.01	12	0.03	12	0.01
Runoff coefficient	14	0.01	14	0.00	3	0.15	3	0.03
Well pump intake depth	8	-0.04	8	-0.01	17	0.01	17	0.00
b Parameter of Unsaturated zone 1	4	-0.06	4	-0.02	15	-0.03	15	0.00
Mass loading for inhalation	6	0.04	6	0.01	18	0.00	18	0.00
Indoor dust filtration factor	13	0.01	13	0.00	14	0.03	14	0.00
Depth of soil mixing layer	5	0.04	5	0.01	11	0.04	11	0.01
Depth of roots	1	-0.94	1	-0.94	1	-0.99	1	-0.98
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	0.00	18	0.00	13	-0.03	13	0.00
Weathering removal constant of all vegetation	11	0.03	11	0.01	16	0.02	16	0.00
Wet foliar interception fraction of leafy vegetables	10	-0.03	10	-0.01	8	-0.05	8	-0.01
Humidity in air	15	0.01	15	0.00	9	0.05	9	0.01
Kd of Co-60 in Contaminated Zone	3	0.07	3	0.02	2	0.42	2	0.08
Kd of Co-60 in Unsaturated Zone 1	12	0.01	12	0.00	5	0.08	5	0.01
Kd of Co-60 in Saturated Zone	17	-0.01	17	0.00	6	0.06	6	0.01
R-SQUARE		0.89		0.89		0.97		0.97

-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 CO-60.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	8	-0.05	8	-0.02	15	-0.02	15	0.00
Contaminated zone b parameter	3	-0.10	3	-0.05	6	-0.07	6	-0.02
Evapotranspiration coefficient	2	0.12	2	0.05	3	0.15	3	0.03
Wind Speed	11	-0.03	11	-0.01	14	0.03	14	0.01
Runoff coefficient	7	0.05	7	0.02	5	0.07	5	0.02
Well pump intake depth	16	-0.01	16	0.00	16	0.02	16	0.00
b Parameter of Unsaturated zone 1	6	-0.05	6	-0.02	18	0.00	18	0.00
Mass loading for inhalation	17	-0.01	17	0.00	12	0.03	12	0.01
Indoor dust filtration factor	4	0.09	4	0.04	11	0.04	11	0.01
Depth of soil mixing layer	5	-0.07	5	-0.03	4	-0.10	4	-0.02
Depth of roots	1	-0.89	1	-0.88	1	-0.98	1	-0.97
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	0.01	18	0.00	10	0.04	10	0.01
Weathering removal constant of all vegetation	13	-0.02	13	-0.01	17	-0.01	17	0.00
Wet foliar interception fraction of leafy vegetables	9	0.04	9	0.02	9	0.05	9	0.01
Humidity in air	12	-0.02	12	-0.01	8	-0.05	8	-0.01
Kd of Co-60 in Contaminated Zone	10	0.04	10	0.02	2	0.39	2	0.09
Kd of Co-60 in Unsaturated Zone 1	15	-0.01	15	-0.01	7	0.05	7	0.01
Kd of Co-60 in Saturated Zone	14	0.01	14	0.01	13	0.03	13	0.01

R-SQUARE	0.79	0.79	0.95	0.95
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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 CO-60.RAD

Coefficients for peak All Pathways Dose

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

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Contaminated zone erosion rate	13	-0.02	13	-0.01	17	0.00	17	0.00
Contaminated zone b parameter	12	-0.03	12	-0.01	15	-0.01	15	0.00
Evapotranspiration coefficient	10	0.04	10	0.01	3	0.11	3	0.02
Wind Speed	4	-0.07	4	-0.02	4	-0.07	4	-0.01
Runoff coefficient	7	-0.05	7	-0.02	18	0.00	18	0.00
Well pump intake depth	5	0.07	5	0.02	9	0.03	9	0.00
b Parameter of Unsaturated zone 1	16	0.01	16	0.00	16	-0.01	16	0.00
Mass loading for inhalation	14	-0.01	14	0.00	8	-0.03	8	-0.01
Indoor dust filtration factor	17	0.01	17	0.00	13	0.02	13	0.00
Depth of soil mixing layer	18	0.00	18	0.00	11	0.02	11	0.00
Depth of roots	1	-0.95	1	-0.94	1	-0.99	1	-0.98
Wet weight crop yield of fruit, grain and non-leafy vegetables	15	0.01	15	0.00	7	-0.04	7	-0.01
Weathering removal constant of all vegetation	3	-0.07	3	-0.02	6	-0.04	6	-0.01
Wet foliar interception fraction of leafy vegetables	8	-0.05	8	-0.02	10	-0.03	10	0.00
Humidity in air	9	0.04	9	0.01	12	0.02	12	0.00
Kd of Co-60 in Contaminated Zone	2	0.09	2	0.03	2	0.44	2	0.08
Kd of Co-60 in Unsaturated Zone 1	6	-0.07	6	-0.02	14	-0.02	14	0.00
Kd of Co-60 in Saturated Zone	11	0.03	11	0.01	5	0.07	5	0.01
R-SQUARE	0.90		0.90		0.97		0.97	

-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.