

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	BUZ(1)	BOUNDED LOGNORMAL-N	1.28 .334 1.28 10.1
7	MLINH	CONTINUOUS LINEAR	8 0 0 .000008 .0151 .000016 .1365 .00003 .8119 .00004 .9495 .00006 .9937 .000076 .9983 .0001 1
8	SHF3	UNIFORM	.15 .95
9	DM	TRIANGULAR	0 .15 .6
10	DROOT	UNIFORM	.3 4
11	YV(1)	TRUNCATED LOGNORMAL-N	.56 .48 .001 .999
12	WLAM	TRIANGULAR	5.1 18 84
13	RWET(2)	TRIANGULAR	.06 .67 .95
14	HUMID	TRUNCATED LOGNORMAL-N	1.98 .334 .001 .999
15	VCV	CONTINUOUS LOGARITHMIC4	5.E-8 0 .0007 .22 .005 .95 .2 1
16	DCACTC(1)	LOGNORMAL-N	2.4 3.22
17	DCACTS(1)	LOGNORMAL-N	2.4 3.22

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
C-14										
Min	0.00E+00	4.74E-04	1.08E-04	1.08E-04	1.08E-04	2.90E-08	5.96E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	7.93E+00	7.93E+00	6.96E+00	5.45E+00	2.39E+00	8.45E-01	2.82E-01	1.14E-01	7.90E-02
Avg	7.23E+01	1.29E+00	1.29E+00	1.15E+00	9.34E-01	5.10E-01	2.00E-01	7.57E-02	2.29E-02	3.55E-03
Std	1.73E+02	1.96E+00	1.96E+00	1.67E+00	1.25E+00	5.57E-01	1.82E-01	6.44E-02	3.32E-02	1.26E-02
ALL										
Min	0.00E+00	4.74E-04	1.08E-04	1.08E-04	1.08E-04	2.90E-08	5.96E-27	0.00E+00	0.00E+00	0.00E+00
Max	1.00E+03	7.93E+00	7.93E+00	6.96E+00	5.45E+00	2.39E+00	8.45E-01	2.82E-01	1.14E-01	7.90E-02
Avg	7.23E+01	1.29E+00	1.29E+00	1.15E+00	9.34E-01	5.10E-01	2.00E-01	7.57E-02	2.29E-02	3.55E-03
Std	1.73E+02	1.96E+00	1.96E+00	1.67E+00	1.25E+00	5.57E-01	1.82E-01	6.44E-02	3.32E-02	1.26E-02

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
C-14									
Min		2.82E-09	2.82E-09	2.82E-09	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.28E-04	1.94E-04	1.52E-04	6.56E-05	2.24E-05	7.50E-06	3.08E-06	2.27E-06
Avg		3.55E-05	3.18E-05	2.57E-05	1.39E-05	5.38E-06	2.05E-06	6.34E-07	9.99E-08
Std		5.51E-05	4.70E-05	3.48E-05	1.52E-05	4.80E-06	1.72E-06	9.24E-07	3.57E-07
ALL									
Min		2.82E-09	2.82E-09	2.82E-09	1.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.28E-04	1.94E-04	1.52E-04	6.56E-05	2.24E-05	7.50E-06	3.08E-06	2.27E-06
Avg		3.55E-05	3.18E-05	2.57E-05	1.39E-05	5.38E-06	2.05E-06	6.34E-07	9.99E-08
Std		5.51E-05	4.70E-05	3.48E-05	1.52E-05	4.80E-06	1.72E-06	9.24E-07	3.57E-07

ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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C-14									
Min		8.67E-24	6.43E-24	3.54E-24	4.38E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.22E-21	2.28E-17	3.82E-11	5.39E-12	3.67E-12	6.28E-12	6.78E-12	6.83E-13
Avg		2.43E-23	3.17E-20	4.99E-14	1.24E-14	4.45E-15	6.54E-15	3.26E-14	6.05E-16
Std		1.99E-22	7.05E-19	1.19E-12	1.84E-13	1.19E-13	1.76E-13	2.99E-13	1.79E-14
ALL									
Min		8.67E-24	6.43E-24	3.54E-24	4.38E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.22E-21	2.28E-17	3.82E-11	5.39E-12	3.67E-12	6.28E-12	6.78E-12	6.83E-13
Avg		2.43E-23	3.17E-20	4.99E-14	1.24E-14	4.45E-15	6.54E-15	3.26E-14	6.05E-16
Std		1.99E-22	7.05E-19	1.19E-12	1.84E-13	1.19E-13	1.76E-13	2.99E-13	1.79E-14
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ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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C-14									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	1.54E-05	6.24E-06	1.27E-07	4.38E-07	1.82E-07	5.85E-10
Avg		0.00E+00	0.00E+00	2.43E-08	8.40E-09	1.13E-10	4.12E-10	1.79E-10	3.93E-13
Std		0.00E+00	0.00E+00	5.64E-07	1.97E-07	3.46E-09	1.22E-08	4.84E-09	1.51E-11
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	1.54E-05	6.24E-06	1.27E-07	4.38E-07	1.82E-07	5.85E-10
Avg		0.00E+00	0.00E+00	2.43E-08	8.40E-09	1.13E-10	4.12E-10	1.79E-10	3.93E-13
Std		0.00E+00	0.00E+00	5.64E-07	1.97E-07	3.46E-09	1.22E-08	4.84E-09	1.51E-11
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ALL 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
C-14									
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
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

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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C-14								
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	5.05E-02	5.28E-02	1.25E-01	7.06E-02	5.52E-02	5.58E-02	5.57E-02	5.02E-02
Avg	3.00E-02	2.92E-02	2.81E-02	2.44E-02	2.05E-02	1.72E-02	8.58E-03	1.76E-03
Std	1.76E-02	1.72E-02	1.73E-02	1.74E-02	1.80E-02	1.83E-02	1.53E-02	7.09E-03
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	5.05E-02	5.28E-02	1.25E-01	7.06E-02	5.52E-02	5.58E-02	5.57E-02	5.02E-02
Avg	3.00E-02	2.92E-02	2.81E-02	2.44E-02	2.05E-02	1.72E-02	8.58E-03	1.76E-03
Std	1.76E-02	1.72E-02	1.73E-02	1.74E-02	1.80E-02	1.83E-02	1.53E-02	7.09E-03
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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
C-14									
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		1.40E-02	1.45E-02	3.29E-02	2.01E-02	1.53E-02	1.73E-02	1.66E-02	1.39E-02
Avg		8.35E-03	8.13E-03	7.80E-03	6.77E-03	5.68E-03	4.76E-03	2.39E-03	4.90E-04
Std		4.89E-03	4.79E-03	4.78E-03	4.82E-03	5.00E-03	5.09E-03	4.26E-03	1.97E-03
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		1.40E-02	1.45E-02	3.29E-02	2.01E-02	1.53E-02	1.73E-02	1.66E-02	1.39E-02
Avg		8.35E-03	8.13E-03	7.80E-03	6.77E-03	5.68E-03	4.76E-03	2.39E-03	4.90E-04
Std		4.89E-03	4.79E-03	4.78E-03	4.82E-03	5.00E-03	5.09E-03	4.26E-03	1.97E-03

TOTAL is total pathway dose summed for all nuclides.

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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C-14								
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	1.46E-02	1.53E-02	3.54E-02	2.09E-02	1.60E-02	1.71E-02	1.63E-02	1.46E-02
Avg	8.73E-03	8.50E-03	8.16E-03	7.09E-03	5.95E-03	4.99E-03	2.49E-03	5.13E-04
Std	5.12E-03	5.01E-03	5.01E-03	5.05E-03	5.24E-03	5.33E-03	4.46E-03	2.06E-03
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	1.46E-02	1.53E-02	3.54E-02	2.09E-02	1.60E-02	1.71E-02	1.63E-02	1.46E-02
Avg	8.73E-03	8.50E-03	8.16E-03	7.09E-03	5.95E-03	4.99E-03	2.49E-03	5.13E-04
Std	5.12E-03	5.01E-03	5.01E-03	5.05E-03	5.24E-03	5.33E-03	4.46E-03	2.06E-03
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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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C-14									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	4.17E-06	9.52E-07	7.43E-07	8.26E-06	1.00E-05	6.99E-07
Avg		0.00E+00	0.00E+00	5.25E-09	6.47E-10	5.11E-10	1.09E-08	3.03E-08	4.74E-10
Std		0.00E+00	0.00E+00	1.30E-07	2.46E-08	1.92E-08	2.43E-07	4.05E-07	1.80E-08
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ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	4.17E-06	9.52E-07	7.43E-07	8.26E-06	1.00E-05	6.99E-07
Avg		0.00E+00	0.00E+00	5.25E-09	6.47E-10	5.11E-10	1.09E-08	3.03E-08	4.74E-10
Std		0.00E+00	0.00E+00	1.30E-07	2.46E-08	1.92E-08	2.43E-07	4.05E-07	1.80E-08
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ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(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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C-14									
Min		7.61E-07	7.61E-07	7.61E-07	2.71E-13	4.15E-30	0.00E+00	0.00E+00	0.00E+00
Max		3.07E+00	2.72E+00	2.12E+00	9.58E-01	3.31E-01	9.83E-02	3.21E-02	8.50E-03
Avg		5.11E-01	4.55E-01	3.66E-01	1.94E-01	6.92E-02	2.00E-02	3.90E-03	3.23E-04
Std		8.08E-01	6.90E-01	5.16E-01	2.33E-01	7.63E-02	2.36E-02	6.92E-03	1.15E-03
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ALL									
Min		7.61E-07	7.61E-07	7.61E-07	2.71E-13	4.15E-30	0.00E+00	0.00E+00	0.00E+00
Max		3.07E+00	2.72E+00	2.12E+00	9.58E-01	3.31E-01	9.83E-02	3.21E-02	8.50E-03
Avg		5.11E-01	4.55E-01	3.66E-01	1.94E-01	6.92E-02	2.00E-02	3.90E-03	3.23E-04
Std		8.08E-01	6.90E-01	5.16E-01	2.33E-01	7.63E-02	2.36E-02	6.92E-03	1.15E-03
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ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(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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C-14									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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Probabilistic Dose vs Pathway(i): 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/>									
C-14									
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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C-14.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/>									
C-14									
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		2.25E+00	1.95E+00	1.53E+00	6.60E-01	2.37E-01	7.78E-02	2.44E-02	6.02E-03
Avg		3.08E-01	2.75E-01	2.22E-01	1.18E-01	4.22E-02	1.23E-02	2.37E-03	1.96E-04
Std		4.91E-01	4.20E-01	3.15E-01	1.43E-01	4.76E-02	1.48E-02	4.24E-03	7.09E-04
<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		2.25E+00	1.95E+00	1.53E+00	6.60E-01	2.37E-01	7.78E-02	2.44E-02	6.02E-03
Avg		3.08E-01	2.75E-01	2.22E-01	1.18E-01	4.22E-02	1.23E-02	2.37E-03	1.96E-04
Std		4.91E-01	4.20E-01	3.15E-01	1.43E-01	4.76E-02	1.48E-02	4.24E-03	7.09E-04
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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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C-14.RAD

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>								
C-14								
Min	3.27E-07	3.27E-07	3.27E-07	1.45E-13	2.38E-30	0.00E+00	0.00E+00	0.00E+00
Max	1.53E+00	1.35E+00	1.06E+00	4.68E-01	1.64E-01	4.96E-02	1.61E-02	4.05E-03
Avg	2.51E-01	2.23E-01	1.80E-01	9.50E-02	3.38E-02	9.77E-03	1.90E-03	1.57E-04
Std	3.97E-01	3.39E-01	2.53E-01	1.14E-01	3.73E-02	1.15E-02	3.37E-03	5.62E-04
ΣALL								
Min	3.27E-07	3.27E-07	3.27E-07	1.45E-13	2.38E-30	0.00E+00	0.00E+00	0.00E+00
Max	1.53E+00	1.35E+00	1.06E+00	4.68E-01	1.64E-01	4.96E-02	1.61E-02	4.05E-03
Avg	2.51E-01	2.23E-01	1.80E-01	9.50E-02	3.38E-02	9.77E-03	1.90E-03	1.57E-04
Std	3.97E-01	3.39E-01	2.53E-01	1.14E-01	3.73E-02	1.15E-02	3.37E-03	5.62E-04
<hr/>								

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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C-14.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/>									
C-14									
Min		2.07E-07	2.07E-07	2.06E-07	9.10E-14	1.50E-30	0.00E+00	0.00E+00	0.00E+00
Max		1.05E+00	9.27E-01	7.26E-01	3.20E-01	1.13E-01	3.44E-02	1.11E-02	2.77E-03
Avg		1.70E-01	1.51E-01	1.22E-01	6.45E-02	2.30E-02	6.66E-03	1.29E-03	1.07E-04
Std		2.69E-01	2.29E-01	1.71E-01	7.74E-02	2.54E-02	7.86E-03	2.29E-03	3.83E-04
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ALL									
Min		2.07E-07	2.07E-07	2.06E-07	9.10E-14	1.50E-30	0.00E+00	0.00E+00	0.00E+00
Max		1.05E+00	9.27E-01	7.26E-01	3.20E-01	1.13E-01	3.44E-02	1.11E-02	2.77E-03
Avg		1.70E-01	1.51E-01	1.22E-01	6.45E-02	2.30E-02	6.66E-03	1.29E-03	1.07E-04
Std		2.69E-01	2.29E-01	1.71E-01	7.74E-02	2.54E-02	7.86E-03	2.29E-03	3.83E-04
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ALL is total pathway dose summed for all nuclides.

2.01E+01 2.39E-15 1.26E+00 2.89E-01 1.69E-01 7.14E-01 8.79E-01 9.18E-01 1.04E+00

2.13E+01 2.92E-16 1.20E+00 2.75E-01 1.66E-01 6.83E-01 8.22E-01 8.72E-01 9.68E-01

2.25E+01 3.14E-17 1.13E+00 2.61E-01 1.60E-01 6.44E-01 7.66E-01 8.28E-01 9.00E-01

2.38E+01 2.95E-18 1.07E+00 2.48E-01 1.54E-01 6.07E-01 7.22E-01 7.91E-01 8.61E-01

2.52E+01 2.40E-19 1.01E+00 2.36E-01 1.52E-01 5.63E-01 6.74E-01 7.52E-01 8.21E-01

2.67E+01 1.67E-20 9.46E-01 2.24E-01 1.45E-01 5.31E-01 6.33E-01 7.11E-01 7.85E-01

2.82E+01 9.83E-22 8.87E-01 2.13E-01 1.38E-01 5.02E-01 5.94E-01 6.73E-01 7.46E-01

2.99E+01 4.86E-23 8.34E-01 2.03E-01 1.37E-01 4.81E-01 5.49E-01 6.46E-01 7.08E-01

3.00E+01 3.91E-23 8.31E-01 2.02E-01 1.37E-01 4.79E-01 5.48E-01 6.44E-01 7.05E-01

3.16E+01 1.99E-24 7.82E-01 1.93E-01 1.34E-01 4.55E-01 5.23E-01 6.13E-01 6.69E-01

3.35E+01 6.68E-26 7.31E-01 1.83E-01 1.27E-01 4.25E-01 5.02E-01 5.81E-01 6.30E-01

3.54E+01 1.21E-28 6.80E-01 1.74E-01 1.20E-01 4.04E-01 4.86E-01 5.51E-01 5.92E-01

3.75E+01 0.00E+00 6.39E-01 1.66E-01 1.14E-01 3.82E-01 4.63E-01 5.18E-01 5.73E-01

3.97E+01 0.00E+00 6.12E-01 1.58E-01 1.08E-01 3.57E-01 4.28E-01 4.89E-01 5.44E-01

4.20E+01 0.00E+00 5.85E-01 1.50E-01 1.04E-01 3.41E-01 4.09E-01 4.66E-01 5.30E-01

4.44E+01 0.00E+00 5.58E-01 1.43E-01 1.01E-01 3.26E-01 3.96E-01 4.43E-01 4.87E-01

4.70E+01 0.00E+00 5.30E-01 1.36E-01 9.65E-02 3.09E-01 3.79E-01 4.21E-01 4.62E-01

4.97E+01 0.00E+00 5.02E-01 1.30E-01 9.26E-02 2.91E-01 3.57E-01 4.02E-01 4.38E-01

5.26E+01	0.00E+00	4.75E-01	1.24E-01	9.10E-02	2.82E-01	3.31E-01	3.73E-01	4.17E-01
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5.57E+01 0.00E+00 4.57E-01 1.18E-01 8.85E-02 2.66E-01 3.17E-01 3.52E-01 4.04E-01

5.90E+01 0.00E+00 4.41E-01 1.13E-01 8.74E-02 2.56E-01 2.99E-01 3.39E-01 3.87E-01

6.24E+01 0.00E+00 4.25E-01 1.08E-01 8.64E-02 2.47E-01 2.88E-01 3.28E-01 3.72E-01

6.60E+01 0.00E+00 4.08E-01 1.03E-01 8.46E-02 2.29E-01 2.67E-01 3.12E-01 3.57E-01

6.99E+01 0.00E+00 3.91E-01 9.82E-02 8.42E-02 2.21E-01 2.53E-01 2.96E-01 3.42E-01

7.39E+01 0.00E+00 3.74E-01 9.40E-02 8.27E-02 2.11E-01 2.40E-01 2.80E-01 3.27E-01

7.82E+01	0.00E+00	3.57E-01	8.99E-02	8.25E-02	2.01E-01	2.32E-01	2.65E-01	3.12E-01
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8.28E+01 0.00E+00 3.40E-01 8.63E-02 8.07E-02 1.94E-01 2.23E-01 2.54E-01 2.96E-01

8.76E+01 0.00E+00 3.22E-01 8.28E-02 7.91E-02 1.86E-01 2.10E-01 2.39E-01 2.86E-01

9.27E+01 0.00E+00 3.05E-01 7.95E-02 7.77E-02 1.76E-01 2.01E-01 2.25E-01 2.76E-01

9.81E+01 0.00E+00 2.88E-01 7.63E-02 7.58E-02 1.68E-01 1.94E-01 2.16E-01 2.67E-01

1.00E+02 0.00E+00 2.82E-01 7.53E-02 7.48E-02 1.65E-01 1.91E-01 2.13E-01 2.60E-01

1.04E+02 0.00E+00 2.70E-01 7.34E-02 7.27E-02 1.60E-01 1.84E-01 2.07E-01 2.48E-01

1.10E+02 0.00E+00 2.53E-01 7.06E-02 7.12E-02 1.54E-01 1.77E-01 2.00E-01 2.39E-01

1.16E+02 0.00E+00 2.38E-01 6.80E-02 6.95E-02 1.46E-01 1.66E-01 1.90E-01 2.29E-01

1.23E+02 0.00E+00 2.28E-01 6.55E-02 6.88E-02 1.39E-01 1.59E-01 1.81E-01 2.15E-01

1.30E+02 0.00E+00 2.17E-01 6.12E-02 6.49E-02 1.33E-01 1.52E-01 1.72E-01 1.89E-01

1.38E+02 0.00E+00 2.07E-01 5.72E-02 6.07E-02 1.27E-01 1.42E-01 1.60E-01 1.80E-01

1.46E+02 0.00E+00 1.97E-01 5.38E-02 5.73E-02 1.21E-01 1.35E-01 1.52E-01 1.68E-01

1.54E+02 0.00E+00 1.71E-01 5.07E-02 5.10E-02 1.18E-01 1.29E-01 1.44E-01 1.57E-01

1.63E+02 0.00E+00 1.65E-01 4.74E-02 4.32E-02 1.11E-01 1.24E-01 1.37E-01 1.51E-01

1.73E+02 0.00E+00 1.59E-01 4.40E-02 3.15E-02 1.06E-01 1.21E-01 1.32E-01 1.43E-01

1.83E+02 0.00E+00 1.53E-01 4.15E-02 2.18E-02 1.00E-01 1.17E-01 1.29E-01 1.35E-01

1.94E+02 0.00E+00 1.46E-01 3.86E-02 1.33E-02 9.57E-02 1.11E-01 1.23E-01 1.29E-01

2.05E+02 0.00E+00 1.40E-01 3.59E-02 6.58E-03 9.27E-02 1.07E-01 1.17E-01 1.28E-01

2.17E+02	0.00E+00	1.33E-01	3.39E-02	4.27E-03	9.15E-02	1.02E-01	1.12E-01	1.25E-01
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2.29E+02 0.00E+00 1.27E-01 3.17E-02 1.72E-03 9.03E-02 9.89E-02 1.08E-01 1.20E-01

2.43E+02 0.00E+00 1.22E-01 2.94E-02 6.45E-04 8.74E-02 9.59E-02 1.04E-01 1.18E-01

2.57E+02 0.00E+00 1.19E-01 2.68E-02 1.78E-04 8.48E-02 9.28E-02 1.01E-01 1.10E-01

2.72E+02 0.00E+00 1.15E-01 2.53E-02 3.66E-05 8.36E-02 9.01E-02 9.80E-02 1.07E-01

2.88E+02 0.00E+00 1.12E-01 2.37E-02 1.27E-06 8.17E-02 8.89E-02 9.65E-02 1.03E-01

3.00E+02 0.00E+00 1.09E-01 2.26E-02 7.14E-08 7.87E-02 8.71E-02 9.51E-02 1.01E-01

3.05E+02 0.00E+00 1.08E-01 2.22E-02 1.25E-08 7.72E-02 8.64E-02 9.38E-02 1.00E-01

3.22E+02 0.00E+00 1.04E-01 2.10E-02 1.40E-10 7.72E-02 8.57E-02 9.08E-02 9.74E-02

3.41E+02 0.00E+00 1.00E-01 1.98E-02 2.58E-13 7.56E-02 8.45E-02 8.95E-02 9.55E-02

3.61E+02 0.00E+00 9.94E-02 1.86E-02 8.90E-18 7.42E-02 8.27E-02 8.92E-02 9.36E-02

3.82E+02 0.00E+00 9.63E-02 1.69E-02 4.93E-23 7.10E-02 8.14E-02 8.64E-02 9.16E-02

4.04E+02 0.00E+00 9.61E-02 1.58E-02 0.00E+00 7.02E-02 7.87E-02 8.37E-02 9.05E-02

4.28E+02 0.00E+00 9.59E-02 1.42E-02 0.00E+00 6.67E-02 7.55E-02 8.20E-02 8.79E-02

4.53E+02 0.00E+00 8.99E-02 1.27E-02 0.00E+00 6.47E-02 7.27E-02 7.78E-02 8.42E-02

4.79E+02 0.00E+00 8.89E-02 1.22E-02 0.00E+00 6.36E-02 7.10E-02 7.64E-02 8.29E-02

5.07E+02 0.00E+00 8.79E-02 1.12E-02 0.00E+00 6.13E-02 6.98E-02 7.56E-02 8.17E-02

5.36E+02 0.00E+00 8.79E-02 1.05E-02 0.00E+00 5.89E-02 6.89E-02 7.53E-02 8.15E-02

5.68E+02 0.00E+00 8.57E-02 9.64E-03 0.00E+00 5.59E-02 6.80E-02 7.34E-02 7.93E-02

6.01E+02 0.00E+00 8.18E-02 8.54E-03 0.00E+00 4.75E-02 6.52E-02 7.16E-02 7.90E-02

6.36E+02 0.00E+00 8.01E-02 7.61E-03 0.00E+00 4.27E-02 6.31E-02 6.80E-02 7.42E-02

6.73E+02 0.00E+00 8.04E-02 6.95E-03 0.00E+00 3.88E-02 6.02E-02 6.71E-02 7.61E-02

7.12E+02 0.00E+00 8.08E-02 6.29E-03 0.00E+00 2.93E-02 5.74E-02 6.57E-02 7.20E-02

7.53E+02 0.00E+00 8.18E-02 5.62E-03 0.00E+00 2.48E-02 5.15E-02 6.32E-02 7.08E-02

7.97E+02 0.00E+00 8.01E-02 5.25E-03 0.00E+00 2.08E-02 4.84E-02 6.19E-02 6.70E-02

8.44E+02 0.00E+00 7.08E-02 4.55E-03 0.00E+00 1.08E-02 4.37E-02 6.07E-02 6.57E-02

8.93E+02 0.00E+00 7.04E-02 4.23E-03 0.00E+00 8.43E-03 4.15E-02 6.02E-02 6.52E-02

9.45E+02 0.00E+00 6.99E-02 4.00E-03 0.00E+00 7.10E-03 3.90E-02 5.97E-02 6.47E-02

1.00E+03	0.00E+00	6.94E-02	3.88E-03	0.00E+00	6.70E-03	3.69E-02	5.92E-02	6.42E-02
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2.01E+01 3.15E-15 1.16E+00 2.90E-01 1.78E-01 7.28E-01 8.96E-01 9.89E-01 1.06E+00

2.13E+01 4.00E-16 1.09E+00 2.76E-01 1.70E-01 6.76E-01 8.48E-01 9.47E-01 1.01E+00

2.25E+01 4.48E-17 1.02E+00 2.62E-01 1.65E-01 6.25E-01 8.09E-01 8.96E-01 9.71E-01

2.38E+01 2.11E-18 9.68E-01 2.49E-01 1.54E-01 6.03E-01 7.33E-01 8.45E-01 9.25E-01

2.52E+01 4.19E-20 9.27E-01 2.37E-01 1.46E-01 5.75E-01 7.05E-01 8.01E-01 8.72E-01

2.67E+01 4.93E-22 8.85E-01 2.25E-01 1.45E-01 5.31E-01 6.65E-01 7.56E-01 8.30E-01

2.82E+01 3.11E-24 8.42E-01 2.14E-01 1.40E-01 5.05E-01 6.32E-01 7.23E-01 7.89E-01

2.99E+01 9.23E-27 8.00E-01 2.02E-01 1.28E-01 4.70E-01 5.83E-01 6.63E-01 7.47E-01

3.00E+01 5.96E-27 7.97E-01 2.01E-01 1.28E-01 4.69E-01 5.81E-01 6.59E-01 7.43E-01

3.16E+01 1.08E-29 7.57E-01 1.92E-01 1.22E-01 4.48E-01 5.46E-01 6.19E-01 6.98E-01

3.35E+01 0.00E+00 7.14E-01 1.83E-01 1.17E-01 4.22E-01 5.12E-01 5.94E-01 6.58E-01

3.54E+01	0.00E+00	6.71E-01	1.74E-01	1.15E-01	4.00E-01	4.93E-01	5.68E-01	6.20E-01
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3.75E+01 0.00E+00 6.29E-01 1.65E-01 1.07E-01 3.82E-01 4.61E-01 5.44E-01 5.79E-01

3.97E+01 0.00E+00 5.95E-01 1.57E-01 1.03E-01 3.65E-01 4.30E-01 5.17E-01 5.50E-01

4.20E+01 0.00E+00 5.60E-01 1.49E-01 1.01E-01 3.44E-01 4.01E-01 4.79E-01 5.28E-01

4.44E+01 0.00E+00 5.31E-01 1.42E-01 9.93E-02 3.25E-01 3.77E-01 4.49E-01 5.05E-01

4.70E+01 0.00E+00 5.04E-01 1.36E-01 9.54E-02 3.06E-01 3.61E-01 4.17E-01 4.66E-01

4.97E+01 0.00E+00 4.78E-01 1.29E-01 9.43E-02 2.91E-01 3.44E-01 3.89E-01 4.45E-01

5.26E+01 0.00E+00 4.52E-01 1.23E-01 9.38E-02 2.79E-01 3.23E-01 3.72E-01 4.25E-01

5.57E+01 0.00E+00 4.32E-01 1.17E-01 9.14E-02 2.69E-01 3.11E-01 3.52E-01 3.97E-01

5.90E+01 0.00E+00 4.12E-01 1.12E-01 8.94E-02 2.54E-01 2.93E-01 3.35E-01 3.75E-01

6.24E+01 0.00E+00 3.92E-01 1.06E-01 8.73E-02 2.45E-01 2.78E-01 3.20E-01 3.53E-01

6.60E+01 0.00E+00 3.71E-01 1.02E-01 8.68E-02 2.29E-01 2.63E-01 3.00E-01 3.31E-01

6.99E+01 0.00E+00 3.51E-01 9.72E-02 8.57E-02 2.17E-01 2.53E-01 2.82E-01 3.18E-01

7.39E+01 0.00E+00 3.31E-01 9.30E-02 8.38E-02 2.05E-01 2.45E-01 2.72E-01 3.05E-01

7.82E+01 0.00E+00 3.10E-01 8.91E-02 8.18E-02 1.96E-01 2.34E-01 2.62E-01 2.87E-01

8.28E+01 0.00E+00 2.95E-01 8.54E-02 8.09E-02 1.88E-01 2.24E-01 2.46E-01 2.73E-01

8.76E+01	0.00E+00	2.86E-01	8.17E-02	7.93E-02	1.78E-01	2.13E-01	2.34E-01	2.60E-01
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9.27E+01	0.00E+00	2.78E-01	7.84E-02	7.85E-02	1.71E-01	2.04E-01	2.27E-01	2.46E-01
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9.81E+01 0.00E+00 2.69E-01 7.53E-02 7.63E-02 1.62E-01 1.90E-01 2.20E-01 2.33E-01

1.00E+02 0.00E+00 2.66E-01 7.43E-02 7.56E-02 1.58E-01 1.89E-01 2.18E-01 2.28E-01

1.04E+02 0.00E+00 2.60E-01 7.22E-02 7.45E-02 1.53E-01 1.82E-01 2.13E-01 2.19E-01

1.10E+02 0.00E+00 2.51E-01 6.94E-02 7.25E-02 1.47E-01 1.73E-01 2.06E-01 2.13E-01

1.16E+02 0.00E+00 2.42E-01 6.66E-02 7.22E-02 1.40E-01 1.67E-01 1.95E-01 2.07E-01

1.23E+02 0.00E+00 2.32E-01 6.42E-02 7.05E-02 1.36E-01 1.60E-01 1.84E-01 2.01E-01

1.30E+02 0.00E+00 2.23E-01 6.06E-02 6.60E-02 1.28E-01 1.55E-01 1.73E-01 1.94E-01

1.38E+02 0.00E+00 2.13E-01 5.66E-02 5.87E-02 1.23E-01 1.48E-01 1.66E-01 1.88E-01

1.46E+02 0.00E+00 2.03E-01 5.32E-02 5.48E-02 1.17E-01 1.40E-01 1.59E-01 1.82E-01

1.54E+02 0.00E+00 1.93E-01 4.98E-02 4.56E-02 1.14E-01 1.32E-01 1.53E-01 1.75E-01

1.63E+02 0.00E+00 1.83E-01 4.65E-02 3.81E-02 1.10E-01 1.26E-01 1.46E-01 1.68E-01

1.73E+02 0.00E+00 1.73E-01 4.39E-02 3.02E-02 1.05E-01 1.20E-01 1.38E-01 1.61E-01

1.83E+02 0.00E+00 1.63E-01 4.15E-02 2.39E-02 1.00E-01 1.16E-01 1.31E-01 1.54E-01

1.94E+02 0.00E+00 1.53E-01 3.90E-02 1.26E-02 9.75E-02 1.08E-01 1.23E-01 1.41E-01

2.05E+02 0.00E+00 1.47E-01 3.66E-02 7.77E-03 9.53E-02 1.06E-01 1.19E-01 1.37E-01

2.17E+02 0.00E+00 1.42E-01 3.43E-02 4.08E-03 9.20E-02 1.03E-01 1.13E-01 1.33E-01

2.29E+02 0.00E+00 1.36E-01 3.18E-02 1.83E-03 8.84E-02 9.96E-02 1.09E-01 1.27E-01

2.43E+02	0.00E+00	1.26E-01	2.98E-02	6.58E-04	8.63E-02	9.64E-02	1.04E-01	1.15E-01
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2.57E+02 0.00E+00 1.24E-01 2.83E-02 1.74E-04 8.53E-02 9.39E-02 9.88E-02 1.11E-01

2.72E+02 0.00E+00 1.21E-01 2.67E-02 5.32E-05 8.43E-02 9.12E-02 9.68E-02 1.06E-01

2.88E+02 0.00E+00 1.12E-01 2.46E-02 9.43E-07 8.30E-02 8.85E-02 9.25E-02 9.81E-02

3.00E+02 0.00E+00 1.09E-01 2.36E-02 3.19E-08 8.17E-02 8.76E-02 9.14E-02 9.46E-02

3.05E+02 0.00E+00 1.08E-01 2.33E-02 1.57E-08 8.11E-02 8.73E-02 9.13E-02 9.45E-02

3.22E+02 0.00E+00 1.08E-01 2.14E-02 2.76E-12 7.94E-02 8.50E-02 8.86E-02 9.13E-02

3.41E+02 0.00E+00 9.89E-02 2.01E-02 9.52E-15 7.79E-02 8.32E-02 8.60E-02 8.90E-02

3.61E+02 0.00E+00 9.43E-02 1.82E-02 3.73E-18 7.56E-02 8.18E-02 8.40E-02 8.80E-02

3.82E+02 0.00E+00 8.96E-02 1.64E-02 4.88E-21 7.31E-02 7.93E-02 8.35E-02 8.69E-02

4.04E+02 0.00E+00 8.86E-02 1.56E-02 2.45E-30 7.10E-02 7.81E-02 8.23E-02 8.50E-02

4.28E+02 0.00E+00 8.98E-02 1.47E-02 0.00E+00 6.93E-02 7.78E-02 8.10E-02 8.47E-02

4.53E+02 0.00E+00 9.11E-02 1.38E-02 0.00E+00 6.67E-02 7.75E-02 8.06E-02 8.52E-02

4.79E+02 0.00E+00 8.62E-02 1.25E-02 0.00E+00 6.23E-02 7.52E-02 7.89E-02 8.37E-02

5.07E+02 0.00E+00 8.66E-02 1.14E-02 0.00E+00 5.81E-02 7.26E-02 7.87E-02 8.10E-02

5.36E+02 0.00E+00 8.76E-02 1.06E-02 0.00E+00 5.57E-02 7.14E-02 7.78E-02 8.00E-02

5.68E+02 0.00E+00 8.83E-02 9.65E-03 0.00E+00 5.19E-02 7.03E-02 7.70E-02 7.96E-02

6.01E+02 0.00E+00 8.25E-02 8.89E-03 0.00E+00 4.80E-02 6.82E-02 7.49E-02 7.91E-02

6.36E+02 0.00E+00 8.26E-02 8.41E-03 0.00E+00 4.54E-02 6.76E-02 7.43E-02 7.87E-02

6.73E+02 0.00E+00 8.28E-02 7.76E-03 0.00E+00 4.04E-02 6.60E-02 7.31E-02 7.89E-02

7.12E+02 0.00E+00 8.24E-02 6.74E-03 0.00E+00 3.02E-02 6.41E-02 7.03E-02 7.62E-02

7.53E+02 0.00E+00 8.30E-02 6.16E-03 0.00E+00 2.16E-02 6.35E-02 6.97E-02 7.61E-02

7.97E+02 0.00E+00 8.29E-02 5.14E-03 0.00E+00 1.60E-02 4.89E-02 6.73E-02 7.05E-02

8.44E+02 0.00E+00 7.91E-02 4.28E-03 0.00E+00 9.96E-03 3.69E-02 6.28E-02 6.97E-02

8.93E+02 0.00E+00 7.91E-02 3.67E-03 0.00E+00 7.80E-03 3.27E-02 6.09E-02 6.81E-02

9.45E+02 0.00E+00 7.90E-02 3.53E-03 0.00E+00 6.33E-03 3.23E-02 5.98E-02 6.70E-02

1.00E+03 0.00E+00 7.90E-02 3.39E-03 0.00E+00 3.96E-03 2.99E-02 5.86E-02 6.59E-02

2.01E+01 6.29E-17 1.21E+00 2.82E-01 1.70E-01 6.87E-01 8.25E-01 9.48E-01 1.04E+00

2.13E+01 6.05E-18 1.16E+00 2.68E-01 1.69E-01 6.53E-01 7.69E-01 9.03E-01 9.86E-01

2.25E+01 5.03E-19 1.10E+00 2.55E-01 1.57E-01 6.20E-01 7.42E-01 8.64E-01 9.54E-01

2.38E+01 3.60E-20 1.05E+00 2.43E-01 1.44E-01 5.92E-01 6.94E-01 8.23E-01 9.12E-01

2.52E+01 2.18E-21 9.97E-01 2.30E-01 1.36E-01 5.52E-01 6.67E-01 7.77E-01 8.78E-01

2.67E+01 1.12E-22 9.43E-01 2.18E-01 1.32E-01 5.23E-01 6.35E-01 7.49E-01 8.19E-01

2.82E+01 4.74E-24 8.89E-01 2.08E-01 1.28E-01 5.04E-01 5.92E-01 7.21E-01 7.93E-01

2.99E+01 1.65E-25 8.48E-01 1.98E-01 1.23E-01 4.81E-01 5.71E-01 6.83E-01 7.66E-01

3.00E+01 1.30E-25 8.45E-01 1.98E-01 1.23E-01 4.79E-01 5.70E-01 6.80E-01 7.65E-01

3.16E+01 4.68E-27 8.07E-01 1.89E-01 1.19E-01 4.58E-01 5.51E-01 6.44E-01 7.38E-01

3.35E+01 1.06E-28 7.66E-01 1.80E-01 1.08E-01 4.34E-01 5.29E-01 6.20E-01 7.05E-01

3.54E+01 0.00E+00 7.25E-01 1.71E-01 1.04E-01 4.19E-01 5.03E-01 5.84E-01 6.77E-01

3.75E+01 0.00E+00 6.84E-01 1.64E-01 1.03E-01 3.99E-01 4.71E-01 5.57E-01 6.29E-01

3.97E+01 0.00E+00 6.43E-01 1.56E-01 1.00E-01 3.77E-01 4.50E-01 5.25E-01 5.93E-01

4.20E+01 0.00E+00 6.07E-01 1.49E-01 9.89E-02 3.54E-01 4.32E-01 4.90E-01 5.57E-01

4.44E+01 0.00E+00 5.81E-01 1.43E-01 9.76E-02 3.40E-01 4.16E-01 4.70E-01 5.38E-01

4.70E+01 0.00E+00 5.55E-01 1.36E-01 9.34E-02 3.31E-01 3.92E-01 4.49E-01 5.11E-01

4.97E+01 0.00E+00 5.29E-01 1.30E-01 9.09E-02 3.13E-01 3.72E-01 4.31E-01 4.83E-01

5.26E+01 0.00E+00 5.03E-01 1.24E-01 8.89E-02 2.98E-01 3.52E-01 4.09E-01 4.45E-01

5.57E+01 0.00E+00 4.76E-01 1.19E-01 8.76E-02 2.87E-01 3.33E-01 3.84E-01 4.12E-01

5.90E+01 0.00E+00 4.49E-01 1.14E-01 8.68E-02 2.71E-01 3.16E-01 3.68E-01 3.95E-01

6.24E+01 0.00E+00 4.23E-01 1.09E-01 8.49E-02 2.54E-01 3.01E-01 3.48E-01 3.79E-01

6.60E+01 0.00E+00 4.03E-01 1.04E-01 8.44E-02 2.46E-01 2.81E-01 3.35E-01 3.60E-01

6.99E+01 0.00E+00 3.82E-01 1.00E-01 8.36E-02 2.39E-01 2.61E-01 3.12E-01 3.41E-01

7.39E+01 0.00E+00 3.62E-01 9.61E-02 8.21E-02 2.28E-01 2.45E-01 2.94E-01 3.25E-01

7.82E+01 0.00E+00 3.42E-01 9.23E-02 8.18E-02 2.16E-01 2.33E-01 2.76E-01 3.12E-01

8.28E+01 0.00E+00 3.21E-01 8.86E-02 8.17E-02 2.04E-01 2.26E-01 2.59E-01 2.94E-01

8.76E+01 0.00E+00 3.01E-01 8.52E-02 8.09E-02 1.93E-01 2.15E-01 2.49E-01 2.74E-01

9.27E+01 0.00E+00 2.84E-01 8.16E-02 7.98E-02 1.85E-01 2.07E-01 2.37E-01 2.60E-01

9.81E+01 0.00E+00 2.74E-01 7.85E-02 7.80E-02 1.76E-01 2.01E-01 2.23E-01 2.44E-01

1.00E+02 0.00E+00 2.71E-01 7.74E-02 7.82E-02 1.73E-01 1.99E-01 2.19E-01 2.39E-01

1.04E+02 0.00E+00 2.64E-01 7.52E-02 7.77E-02 1.67E-01 1.94E-01 2.15E-01 2.30E-01

1.10E+02 0.00E+00 2.53E-01 7.23E-02 7.53E-02 1.58E-01 1.83E-01 2.05E-01 2.16E-01

1.16E+02 0.00E+00 2.42E-01 6.96E-02 7.44E-02 1.52E-01 1.72E-01 1.96E-01 2.05E-01

1.23E+02 0.00E+00 2.31E-01 6.71E-02 7.40E-02 1.47E-01 1.65E-01 1.87E-01 1.94E-01

1.30E+02 0.00E+00 2.21E-01 6.35E-02 7.18E-02 1.40E-01 1.60E-01 1.80E-01 1.88E-01

1.38E+02 0.00E+00 2.10E-01 5.95E-02 6.45E-02 1.29E-01 1.49E-01 1.72E-01 1.84E-01

1.46E+02 0.00E+00 1.98E-01 5.59E-02 6.08E-02 1.25E-01 1.45E-01 1.65E-01 1.80E-01

1.54E+02 0.00E+00 1.87E-01 5.16E-02 5.29E-02 1.19E-01 1.38E-01 1.57E-01 1.75E-01

1.63E+02 0.00E+00 1.74E-01 4.86E-02 4.63E-02 1.13E-01 1.28E-01 1.50E-01 1.64E-01

1.73E+02 0.00E+00 1.66E-01 4.52E-02 3.40E-02 1.09E-01 1.21E-01 1.42E-01 1.56E-01

1.83E+02 0.00E+00 1.61E-01 4.20E-02 2.19E-02 1.03E-01 1.15E-01 1.36E-01 1.53E-01

1.94E+02 0.00E+00 1.56E-01 3.90E-02 1.66E-02 9.73E-02 1.13E-01 1.30E-01 1.49E-01

2.05E+02 0.00E+00 1.51E-01 3.60E-02 1.05E-02 9.41E-02 1.05E-01 1.24E-01 1.39E-01

2.17E+02 0.00E+00 1.46E-01 3.37E-02 6.17E-03 9.28E-02 1.03E-01 1.16E-01 1.33E-01

2.29E+02 0.00E+00 1.41E-01 3.15E-02 2.75E-03 8.96E-02 9.92E-02 1.11E-01 1.30E-01

2.43E+02 0.00E+00 1.35E-01 2.95E-02 1.02E-03 8.58E-02 9.64E-02 1.08E-01 1.22E-01

2.57E+02 0.00E+00 1.30E-01 2.75E-02 7.42E-05 8.46E-02 9.39E-02 1.05E-01 1.17E-01

2.72E+02 0.00E+00 1.24E-01 2.56E-02 3.56E-06 8.20E-02 9.09E-02 1.00E-01 1.10E-01

2.88E+02 0.00E+00 1.18E-01 2.39E-02 6.16E-08 8.06E-02 8.99E-02 9.75E-02 1.06E-01

3.00E+02 0.00E+00 1.14E-01 2.26E-02 3.92E-10 7.83E-02 8.72E-02 9.31E-02 1.03E-01

3.05E+02 0.00E+00 1.13E-01 2.21E-02 1.86E-10 7.79E-02 8.73E-02 9.22E-02 1.03E-01

3.22E+02 0.00E+00 1.08E-01 2.09E-02 6.94E-12 7.76E-02 8.49E-02 8.97E-02 9.90E-02

3.41E+02 0.00E+00 1.03E-01 1.98E-02 9.33E-15 7.72E-02 8.33E-02 8.87E-02 9.57E-02

3.61E+02 0.00E+00 9.79E-02 1.82E-02 1.46E-18 7.42E-02 8.07E-02 8.68E-02 9.22E-02

3.82E+02 0.00E+00 9.32E-02 1.64E-02 4.63E-25 7.18E-02 7.82E-02 8.18E-02 8.97E-02

4.04E+02 0.00E+00 9.11E-02 1.52E-02 0.00E+00 6.94E-02 7.67E-02 7.99E-02 8.46E-02

4.28E+02 0.00E+00 8.89E-02 1.40E-02 0.00E+00 6.71E-02 7.59E-02 7.97E-02 8.24E-02

4.53E+02 0.00E+00 8.66E-02 1.28E-02 0.00E+00 6.58E-02 7.50E-02 7.93E-02 8.13E-02

4.79E+02 0.00E+00 8.43E-02 1.20E-02 0.00E+00 6.34E-02 7.34E-02 7.97E-02 8.13E-02

5.07E+02	0.00E+00	8.38E-02	1.12E-02	0.00E+00	5.89E-02	7.17E-02	7.78E-02	8.15E-02
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5.36E+02 0.00E+00 8.40E-02 1.03E-02 0.00E+00 5.51E-02 6.99E-02 7.63E-02 8.18E-02

5.68E+02 0.00E+00 8.44E-02 9.66E-03 0.00E+00 5.25E-02 6.85E-02 7.62E-02 8.25E-02

6.01E+02 0.00E+00 8.33E-02 8.77E-03 0.00E+00 4.50E-02 6.45E-02 7.34E-02 8.15E-02

6.36E+02	0.00E+00	8.40E-02	8.28E-03	0.00E+00	4.18E-02	6.32E-02	7.37E-02	8.22E-02
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6.73E+02 0.00E+00 8.45E-02 7.42E-03 0.00E+00 3.63E-02 6.04E-02 7.21E-02 7.93E-02

7.12E+02 0.00E+00 8.23E-02 6.42E-03 0.00E+00 2.82E-02 5.79E-02 6.79E-02 7.84E-02

7.53E+02 0.00E+00 8.19E-02 5.84E-03 0.00E+00 2.37E-02 5.55E-02 6.66E-02 7.82E-02

7.97E+02 0.00E+00 8.18E-02 5.38E-03 0.00E+00 1.75E-02 5.39E-02 6.51E-02 7.80E-02

8.44E+02 0.00E+00 8.21E-02 4.70E-03 0.00E+00 1.18E-02 4.80E-02 6.08E-02 7.72E-02

8.93E+02 0.00E+00 7.88E-02 3.79E-03 0.00E+00 6.48E-03 4.42E-02 5.48E-02 6.38E-02

9.45E+02 0.00E+00 7.88E-02 3.58E-03 0.00E+00 5.32E-03 3.76E-02 5.36E-02 6.27E-02

1.00E+03	0.00E+00	7.88E-02	3.38E-03	0.00E+00	3.90E-03	3.34E-02	5.33E-02	6.15E-02
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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C-14.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	1.286E+00
2	0.000E+00	1.285E+00
3	0.000E+00	1.289E+00

Title : RESRAD Default Parameters

Input File : FCS BFM INSITU UA C-14.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	7 -0.03	7 -0.03	6 -0.08	6 -0.02
Contaminated zone b parameter	13 -0.01	13 -0.01	17 0.01	17 0.00
Evapotranspiration coefficient	12 -0.01	12 -0.01	7 0.08	7 0.02
Wind Speed	5 -0.04	5 -0.04	4 -0.11	4 -0.02
Runoff coefficient	14 -0.01	14 -0.01	13 -0.03	13 -0.01
b Parameter of Unsaturated zone 1	8 -0.02	8 -0.02	16 0.03	16 0.01
Mass loading for inhalation	3 -0.05	3 -0.05	10 -0.06	10 -0.01
Indoor dust filtration factor	6 -0.03	6 -0.03	15 -0.03	15 -0.01
Depth of soil mixing layer	15 0.01	15 0.01	5 0.10	5 0.02
Depth of roots	16 0.01	16 0.01	2 0.49	2 0.11
Wet weight crop yield of fruit, grain and non-leafy vegetables	17 0.01	17 0.01	12 0.05	12 0.01
Weathering removal constant of all vegetation	11 0.02	11 0.02	9 -0.06	9 -0.01
Wet foliar interception fraction of leafy vegetables	2 -0.05	2 -0.05	14 -0.03	14 -0.01
Humidity in air	4 0.05	4 0.05	11 0.06	11 0.01
Cover erosion rate	9 -0.02	9 -0.02	3 0.28	3 0.06
Kd of C-14 in Contaminated Zone	1 -0.09	1 -0.09	1 -0.98	1 -0.97
Kd of C-14 in Saturated Zone	10 0.02	10 0.02	8 0.07	8 0.02
R-SQUARE	0.02	0.02	0.96	0.96

-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 BFM INSITU UA C-14.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	2	-0.05	2	-0.05	14	0.02	14	0.00
Contaminated zone b parameter	10	0.03	10	0.02	10	0.04	10	0.01
Evapotranspiration coefficient	11	0.02	11	0.02	5	0.09	5	0.02
Wind Speed	17	0.01	17	0.01	8	-0.05	8	-0.01
Runoff coefficient	5	0.04	5	0.04	6	0.08	6	0.02
b Parameter of Unsaturated zone 1	8	-0.03	8	-0.03	7	-0.05	7	-0.01
Mass loading for inhalation	16	0.01	16	0.01	9	-0.04	9	-0.01
Indoor dust filtration factor	7	-0.03	7	-0.03	12	0.03	12	0.01
Depth of soil mixing layer	15	-0.01	15	-0.01	16	-0.01	16	0.00
Depth of roots	14	0.01	14	0.01	2	0.53	2	0.12
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	0.03	9	0.03	11	0.03	11	0.01
Weathering removal constant of all vegetation	13	0.01	13	0.01	4	0.10	4	0.02
Wet foliar interception fraction of leafy vegetables	3	0.05	3	0.05	17	-0.01	17	0.00
Humidity in air	4	-0.05	4	-0.05	13	-0.03	13	-0.01
Cover erosion rate	12	-0.02	12	-0.02	3	0.21	3	0.04
Kd of C-14 in Contaminated Zone	6	-0.04	6	-0.04	1	-0.98	1	-0.97
Kd of C-14 in Saturated Zone	1	0.07	1	0.07	15	0.02	15	0.00
R-SQUARE					0.02	0.02	0.96	0.96

-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 BFM INSITU UA C-14.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
Repetition =	3		3		3		3	
Description of Probabilistic Variable	Sig Coeff		Sig Coeff		Sig Coeff		Sig Coeff	
Contaminated zone erosion rate	15	0.00	15	0.00	7	0.05	7	0.01
Contaminated zone b parameter	3	0.06	3	0.06	10	0.03	10	0.01
Evapotranspiration coefficient	7	-0.03	7	-0.03	14	-0.01	14	0.00
Wind Speed	4	-0.04	4	-0.04	4	-0.16	4	-0.03
Runoff coefficient	6	-0.03	6	-0.03	17	0.00	17	0.00
b Parameter of Unsaturated zone 1	12	0.01	12	0.01	6	-0.05	6	-0.01
Mass loading for inhalation	1	0.08	1	0.08	11	0.03	11	0.01
Indoor dust filtration factor	14	0.00	14	0.00	9	-0.04	9	-0.01
Depth of soil mixing layer	17	0.00	17	0.00	5	0.08	5	0.02
Depth of roots	9	0.02	9	0.02	2	0.53	2	0.12
Wet weight crop yield of fruit, grain and non-leafy vegetables	13	0.01	13	0.01	8	0.04	8	0.01
Weathering removal constant of all vegetation	16	0.00	16	0.00	16	0.00	16	0.00
Wet foliar interception fraction of leafy vegetables	11	0.02	11	0.02	13	0.02	13	0.00
Humidity in air	10	-0.02	10	-0.02	15	-0.01	15	0.00
Cover erosion rate	5	0.03	5	0.03	3	0.24	3	0.05
Kd of C-14 in Contaminated Zone	2	-0.07	2	-0.07	1	-0.98	1	-0.97
Kd of C-14 in Saturated Zone	8	0.02	8	0.02	12	-0.02	12	0.00
R-SQUARE	0.02		0.02		0.96		0.96	

-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.