

Probabilistic results summary : RESRAD Default

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Probabilistic Input

Number of Sample Runs: 3000

Number	Name	Distribution	Parameters							
1	VCV	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22	.005	.95	.2	1
2	DENSCZ	TRUNCATED NORMAL	1.52	.23	.001	.999				
3	VCZ	CONTINUOUS LOGARITHMIC4	5.E-8	0	.0007	.22	.005	.95	.2	1
4	TPCZ	TRUNCATED NORMAL	.425	.0867	.001	.999				
5	HCCZ	LOGUNIFORM	786	17000						
6	BCZ	BOUNDED LOGNORMAL-N	1.06	.66	.5	30				
7	EVAPTR	UNIFORM	.5	.75						
8	WIND	BOUNDED LOGNORMAL-N	1.445	.2419	1.4	13				
9	RUNOFF	UNIFORM	.1	.8						
10	DENSAQ	TRUNCATED NORMAL	1.51	.16	.001	.999				
11	TPSZ	TRUNCATED NORMAL	.43	.06	.001	.999				
12	EPSZ	TRUNCATED NORMAL	.383	.061	.001	.999				
13	HCSZ	LOGUNIFORM	786	17000						
14	HGWT	BOUNDED LOGNORMAL-N	-5.11	1.77	.00007	.5				
15	DWIBWT	TRIANGULAR	6	10	30					
16	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003 .8119
17	SHF3	UNIFORM	.15	.95						
18	SHF1	BOUNDED LOGNORMAL-N	-1.3	.59	.044	1				
19	DM	TRIANGULAR	0	.15	.6					
20	DROOT	UNIFORM	.3	4						
21	YV(1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999				
22	WLAM	TRIANGULAR	5.1	18	84					
23	RWET(2)	TRIANGULAR	.06	.67	.95					
24	BRTF(27,1)	LOGNORMAL-N	-2.53	.916291						
25	BRTF(27,2)	LOGNORMAL-N	-3.51	1.029619						
26	BRTF(27,3)	LOGNORMAL-N	-6.21	.7						
27	BRTF(55,1)	LOGNORMAL-N	-3.22	.993252						
28	BRTF(55,2)	LOGNORMAL-N	-3	.405465						
29	BRTF(55,3)	LOGNORMAL-N	-4.61	.47						
30	BRTF(63,1)	LOGNORMAL-N	-6.21	1.098612						
31	BRTF(63,2)	LOGNORMAL-N	-6.21	1.029619						
32	BRTF(63,3)	LOGNORMAL-N	-9.72	.91629						
33	BRTF(1,1)	LOGNORMAL-N	1.57	1.098612						
34	BRTF(1,2)	LOGNORMAL-N	-4.42	1						
35	BRTF(1,3)	LOGNORMAL-N	-4.6	.9						
36	BRTF(28,1)	LOGNORMAL-N	-3	.916291						
37	BRTF(28,2)	LOGNORMAL-N	-5.3	.916291						
38	BRTF(28,3)	LOGNORMAL-N	-3.91	.69315						
39	BRTF(38,1)	LOGNORMAL-N	-1.2	.993252						
40	BRTF(38,2)	LOGNORMAL-N	-4.61	.405465						
41	BRTF(38,3)	LOGNORMAL-N	-6.21	.47						

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154										
Min	0.00E+00	4.65E-02	4.65E-02	3.86E-02	2.51E-02	5.63E-03	1.72E-05	1.21E-10	0.00E+00	0.00E+00
Max	5.09E+01	5.31E-01	1.15E-01	1.06E-01	9.01E-02	5.10E-02	1.28E-01	1.54E-03	1.44E-10	0.00E+00
Avg	3.54E-01	5.43E-02	5.22E-02	4.80E-02	4.06E-02	2.27E-02	2.67E-03	2.73E-05	2.95E-12	0.00E+00
Std	3.34E+00	2.43E-02	3.78E-03	3.50E-03	3.09E-03	2.18E-03	8.28E-03	9.73E-05	1.10E-11	0.00E+00
ΣALL										
Min	0.00E+00	4.65E-02	4.65E-02	3.86E-02	2.51E-02	5.63E-03	1.72E-05	1.21E-10	0.00E+00	0.00E+00
Max	5.09E+01	5.31E-01	1.15E-01	1.06E-01	9.01E-02	5.10E-02	1.28E-01	1.54E-03	1.44E-10	0.00E+00
Avg	3.54E-01	5.43E-02	5.22E-02	4.80E-02	4.06E-02	2.27E-02	2.67E-03	2.73E-05	2.95E-12	0.00E+00
Std	3.34E+00	2.43E-02	3.78E-03	3.50E-03	3.09E-03	2.18E-03	8.28E-03	9.73E-05	1.10E-11	0.00E+00

ΣALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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Probabilistic Risk Summary

Nuclide (j)	t=	RISK(j,t)							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		1.60E-06	1.40E-06	9.41E-07	2.11E-07	6.70E-10	4.71E-15	0.00E+00	0.00E+00
Max		4.91E-06	4.53E-06	3.85E-06	2.18E-06	3.06E-06	3.66E-08	3.44E-15	1.19E-39
Avg		1.85E-06	1.70E-06	1.44E-06	8.05E-07	8.45E-08	8.10E-10	8.30E-17	4.40E-43
Std		1.84E-07	1.70E-07	1.46E-07	9.39E-08	1.94E-07	2.31E-09	2.63E-16	0.00E+00
ΣALL									
Min		1.60E-06	1.40E-06	9.41E-07	2.11E-07	6.70E-10	4.71E-15	0.00E+00	0.00E+00
Max		4.91E-06	4.53E-06	3.85E-06	2.18E-06	3.06E-06	3.66E-08	3.44E-15	1.19E-39
Avg		1.85E-06	1.70E-06	1.44E-06	8.05E-07	8.45E-08	8.10E-10	8.30E-17	4.40E-43
Std		1.84E-07	1.70E-07	1.46E-07	9.39E-08	1.94E-07	2.31E-09	2.63E-16	0.00E+00

ΣALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default

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Probabilistic Dose vs Pathway(i): Ground External

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		3.61E-20	3.33E-20	2.61E-20	7.09E-21	2.42E-23	3.69E-28	0.00E+00	0.00E+00
Max		3.45E-19	2.99E-18	3.46E-16	5.76E-09	1.26E-01	1.52E-03	1.43E-10	0.00E+00
Avg		7.77E-20	8.54E-20	7.07E-19	3.71E-12	8.50E-04	1.37E-05	1.85E-12	0.00E+00
Std		3.05E-20	1.35E-19	1.01E-17	1.15E-10	8.25E-03	9.71E-05	1.10E-11	0.00E+00
ΣALL									
Min		3.61E-20	3.33E-20	2.61E-20	7.09E-21	2.42E-23	3.69E-28	0.00E+00	0.00E+00
Max		3.45E-19	2.99E-18	3.46E-16	5.76E-09	1.26E-01	1.52E-03	1.43E-10	0.00E+00
Avg		7.77E-20	8.54E-20	7.07E-19	3.71E-12	8.50E-04	1.37E-05	1.85E-12	0.00E+00
Std		3.05E-20	1.35E-19	1.01E-17	1.15E-10	8.25E-03	9.71E-05	1.10E-11	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-07	2.94E-09	2.50E-16	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-09	1.91E-11	2.33E-18	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.50E-10	1.50E-17	0.00E+00
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		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-07	2.94E-09	2.50E-16	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-09	1.91E-11	2.33E-18	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-08	1.50E-10	1.50E-17	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.68E-03	2.48E-03	2.81E-03	4.91E-03	1.45E-03	1.11E-05	1.13E-12	0.00E+00
Avg		2.42E-05	2.32E-05	2.14E-05	1.88E-05	4.35E-06	4.88E-08	7.83E-15	0.00E+00
Std		1.34E-04	1.27E-04	1.21E-04	1.48E-04	4.39E-05	3.80E-07	4.44E-14	0.00E+00
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.68E-03	2.48E-03	2.81E-03	4.91E-03	1.45E-03	1.11E-05	1.13E-12	0.00E+00
Avg		2.42E-05	2.32E-05	2.14E-05	1.88E-05	4.35E-06	4.88E-08	7.83E-15	0.00E+00
Std		1.34E-04	1.27E-04	1.21E-04	1.48E-04	4.39E-05	3.80E-07	4.44E-14	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.32E-04	2.14E-04	1.83E-04	1.06E-04	2.20E-04	1.21E-06	4.02E-13	0.00E+00	0.00E+00
Avg	1.08E-06	1.02E-06	9.14E-07	7.20E-07	5.25E-07	7.20E-09	1.14E-15	0.00E+00	0.00E+00
Std	8.24E-06	7.63E-06	6.62E-06	5.26E-06	5.82E-06	5.59E-08	1.01E-14	0.00E+00	0.00E+00
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	0.00E+00
Max	2.32E-04	2.14E-04	1.83E-04	1.06E-04	2.20E-04	1.21E-06	4.02E-13	0.00E+00	0.00E+00
Avg	1.08E-06	1.02E-06	9.14E-07	7.20E-07	5.25E-07	7.20E-09	1.14E-15	0.00E+00	0.00E+00
Std	8.24E-06	7.63E-06	6.62E-06	5.26E-06	5.82E-06	5.59E-08	1.01E-14	0.00E+00	0.00E+00

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.49E-05	3.58E-05	7.94E-05	1.41E-04	5.19E-05	3.96E-07	3.03E-14	0.00E+00	0.00E+00
Avg	2.21E-07	2.16E-07	2.07E-07	2.06E-07	9.39E-08	1.20E-09	1.68E-16	0.00E+00	0.00E+00
Std	1.30E-06	1.36E-06	1.78E-06	2.90E-06	1.27E-06	1.12E-08	1.19E-15	0.00E+00	0.00E+00
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	0.00E+00
Max	2.49E-05	3.58E-05	7.94E-05	1.41E-04	5.19E-05	3.96E-07	3.03E-14	0.00E+00	0.00E+00
Avg	2.21E-07	2.16E-07	2.07E-07	2.06E-07	9.39E-08	1.20E-09	1.68E-16	0.00E+00	0.00E+00
Std	1.30E-06	1.36E-06	1.78E-06	2.90E-06	1.27E-06	1.12E-08	1.19E-15	0.00E+00	0.00E+00

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Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	4.04E-08	3.91E-15	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-08	7.67E-10	9.92E-17	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-07	5.17E-09	5.57E-16	0.00E+00
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		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	4.04E-08	3.91E-15	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-08	7.67E-10	9.92E-17	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-07	5.17E-09	5.57E-16	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		4.34E-02	3.50E-02	2.28E-02	5.07E-03	7.24E-06	2.01E-11	0.00E+00	0.00E+00
Max		4.61E-02	4.25E-02	3.62E-02	2.06E-02	1.75E-03	1.44E-05	1.40E-12	0.00E+00
Avg		4.60E-02	4.23E-02	3.58E-02	2.00E-02	1.60E-03	1.20E-05	9.64E-13	0.00E+00
Std		1.61E-04	4.60E-04	8.79E-04	1.27E-03	2.62E-04	3.23E-06	4.28E-13	0.00E+00
ΣALL									
Min		4.34E-02	3.50E-02	2.28E-02	5.07E-03	7.24E-06	2.01E-11	0.00E+00	0.00E+00
Max		4.61E-02	4.25E-02	3.62E-02	2.06E-02	1.75E-03	1.44E-05	1.40E-12	0.00E+00
Avg		4.60E-02	4.23E-02	3.58E-02	2.00E-02	1.60E-03	1.20E-05	9.64E-13	0.00E+00
Std		1.61E-04	4.60E-04	8.79E-04	1.27E-03	2.62E-04	3.23E-06	4.28E-13	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\BFM SENSITIVITY ANALYSIS\INPUT FILES\ZION BFM SENSITIVITY.RAD

Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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		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

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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		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

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\BFM SENSITIVITY ANALYSIS\INPUT FILES\ZION BFM SENSITIVITY.RAD

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		6.97E-04	6.43E-04	5.46E-04	2.60E-04	6.72E-07	1.87E-12	0.00E+00	0.00E+00
Max		2.23E-02	2.05E-02	1.75E-02	9.92E-03	8.45E-04	6.90E-06	6.63E-13	0.00E+00
Avg		4.19E-03	3.85E-03	3.26E-03	1.82E-03	1.46E-04	1.09E-06	8.78E-14	0.00E+00
Std		2.48E-03	2.28E-03	1.93E-03	1.09E-03	9.08E-05	7.33E-07	6.88E-14	0.00E+00
ΣALL									
Min		6.97E-04	6.43E-04	5.46E-04	2.60E-04	6.72E-07	1.87E-12	0.00E+00	0.00E+00
Max		2.23E-02	2.05E-02	1.75E-02	9.92E-03	8.45E-04	6.90E-06	6.63E-13	0.00E+00
Avg		4.19E-03	3.85E-03	3.26E-03	1.82E-03	1.46E-04	1.09E-06	8.78E-14	0.00E+00
Std		2.48E-03	2.28E-03	1.93E-03	1.09E-03	9.08E-05	7.33E-07	6.88E-14	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		2.25E-05	2.08E-05	1.77E-05	1.00E-05	4.42E-08	1.23E-13	0.00E+00	0.00E+00
Max		5.60E-02	5.17E-02	4.39E-02	2.49E-02	2.08E-03	1.65E-05	1.42E-12	0.00E+00
Avg		1.72E-03	1.59E-03	1.34E-03	7.48E-04	6.00E-05	4.52E-07	3.65E-14	0.00E+00
Std		2.54E-03	2.34E-03	1.98E-03	1.10E-03	9.05E-05	7.10E-07	6.22E-14	0.00E+00
ΣALL									
Min		2.25E-05	2.08E-05	1.77E-05	1.00E-05	4.42E-08	1.23E-13	0.00E+00	0.00E+00
Max		5.60E-02	5.17E-02	4.39E-02	2.49E-02	2.08E-03	1.65E-05	1.42E-12	0.00E+00
Avg		1.72E-03	1.59E-03	1.34E-03	7.48E-04	6.00E-05	4.52E-07	3.65E-14	0.00E+00
Std		2.54E-03	2.34E-03	1.98E-03	1.10E-03	9.05E-05	7.10E-07	6.22E-14	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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

Nuclide (j)	t=	DOSE(i,j,t), mrem/yr							
		0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Eu-154									
Min		8.04E-06	7.34E-06	6.12E-06	3.24E-06	8.02E-09	2.23E-14	0.00E+00	0.00E+00
Max		5.97E-03	5.51E-03	4.69E-03	2.66E-03	2.27E-04	1.85E-06	1.79E-13	0.00E+00
Avg		2.63E-04	2.42E-04	2.05E-04	1.14E-04	9.16E-06	6.88E-08	5.51E-15	0.00E+00
Std		3.14E-04	2.89E-04	2.44E-04	1.36E-04	1.11E-05	8.66E-08	7.64E-15	0.00E+00
ΣALL									
Min		8.04E-06	7.34E-06	6.12E-06	3.24E-06	8.02E-09	2.23E-14	0.00E+00	0.00E+00
Max		5.97E-03	5.51E-03	4.69E-03	2.66E-03	2.27E-04	1.85E-06	1.79E-13	0.00E+00
Avg		2.63E-04	2.42E-04	2.05E-04	1.14E-04	9.16E-06	6.88E-08	5.51E-15	0.00E+00
Std		3.14E-04	2.89E-04	2.44E-04	1.36E-04	1.11E-05	8.66E-08	7.64E-15	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
0.025	4.80E-02	4.40E-02	3.68E-02	1.84E-02	8.40E-04	2.00E-06	2.56E-15	0.00E+00
0.050	4.83E-02	4.44E-02	3.74E-02	2.00E-02	1.17E-03	4.64E-06	3.18E-14	0.00E+00
0.075	4.85E-02	4.46E-02	3.77E-02	2.06E-02	1.38E-03	6.92E-06	1.15E-13	0.00E+00
0.100	4.87E-02	4.48E-02	3.79E-02	2.10E-02	1.49E-03	8.28E-06	2.03E-13	0.00E+00
0.125	4.89E-02	4.50E-02	3.81E-02	2.12E-02	1.57E-03	9.47E-06	3.09E-13	0.00E+00
0.150	4.91E-02	4.51E-02	3.82E-02	2.14E-02	1.64E-03	1.05E-05	4.46E-13	0.00E+00
0.175	4.92E-02	4.53E-02	3.83E-02	2.15E-02	1.69E-03	1.14E-05	5.58E-13	0.00E+00
0.200	4.93E-02	4.54E-02	3.85E-02	2.16E-02	1.73E-03	1.20E-05	6.70E-13	0.00E+00
0.225	4.95E-02	4.55E-02	3.86E-02	2.17E-02	1.76E-03	1.27E-05	7.76E-13	0.00E+00
0.250	4.97E-02	4.57E-02	3.87E-02	2.18E-02	1.78E-03	1.31E-05	8.62E-13	0.00E+00
0.275	4.98E-02	4.58E-02	3.88E-02	2.18E-02	1.80E-03	1.35E-05	9.38E-13	0.00E+00
0.300	5.00E-02	4.60E-02	3.90E-02	2.19E-02	1.81E-03	1.38E-05	1.00E-12	0.00E+00
0.325	5.02E-02	4.61E-02	3.91E-02	2.20E-02	1.82E-03	1.40E-05	1.06E-12	0.00E+00
0.350	5.03E-02	4.63E-02	3.92E-02	2.20E-02	1.83E-03	1.42E-05	1.11E-12	0.00E+00
0.375	5.05E-02	4.64E-02	3.93E-02	2.21E-02	1.84E-03	1.44E-05	1.15E-12	0.00E+00
0.400	5.06E-02	4.66E-02	3.95E-02	2.22E-02	1.85E-03	1.45E-05	1.20E-12	0.00E+00
0.425	5.08E-02	4.67E-02	3.96E-02	2.23E-02	1.86E-03	1.46E-05	1.23E-12	0.00E+00
0.450	5.09E-02	4.69E-02	3.98E-02	2.24E-02	1.86E-03	1.47E-05	1.26E-12	0.00E+00
0.475	5.11E-02	4.71E-02	3.99E-02	2.25E-02	1.87E-03	1.48E-05	1.29E-12	0.00E+00
0.500	5.13E-02	4.72E-02	4.00E-02	2.25E-02	1.88E-03	1.50E-05	1.32E-12	0.00E+00
0.525	5.15E-02	4.74E-02	4.02E-02	2.26E-02	1.89E-03	1.50E-05	1.34E-12	0.00E+00
0.550	5.17E-02	4.76E-02	4.03E-02	2.27E-02	1.90E-03	1.51E-05	1.36E-12	0.00E+00
0.575	5.19E-02	4.78E-02	4.05E-02	2.28E-02	1.90E-03	1.52E-05	1.38E-12	0.00E+00
0.600	5.21E-02	4.80E-02	4.07E-02	2.29E-02	1.91E-03	1.53E-05	1.39E-12	0.00E+00
0.625	5.23E-02	4.82E-02	4.08E-02	2.30E-02	1.92E-03	1.54E-05	1.41E-12	0.00E+00
0.650	5.26E-02	4.84E-02	4.10E-02	2.31E-02	1.93E-03	1.55E-05	1.42E-12	0.00E+00
0.675	5.28E-02	4.86E-02	4.12E-02	2.32E-02	1.94E-03	1.56E-05	1.43E-12	0.00E+00
0.700	5.31E-02	4.88E-02	4.14E-02	2.33E-02	1.95E-03	1.56E-05	1.44E-12	0.00E+00
0.725	5.34E-02	4.91E-02	4.16E-02	2.34E-02	1.96E-03	1.57E-05	1.46E-12	0.00E+00
0.750	5.37E-02	4.95E-02	4.19E-02	2.36E-02	1.98E-03	1.59E-05	1.47E-12	0.00E+00
0.775	5.40E-02	4.97E-02	4.22E-02	2.37E-02	1.99E-03	1.60E-05	1.48E-12	0.00E+00
0.800	5.44E-02	5.01E-02	4.25E-02	2.39E-02	2.00E-03	1.61E-05	1.50E-12	0.00E+00
0.825	5.48E-02	5.05E-02	4.27E-02	2.41E-02	2.02E-03	1.63E-05	1.51E-12	0.00E+00
0.850	5.53E-02	5.08E-02	4.31E-02	2.43E-02	2.04E-03	1.65E-05	1.54E-12	0.00E+00
0.875	5.58E-02	5.13E-02	4.35E-02	2.45E-02	2.07E-03	1.67E-05	1.56E-12	0.00E+00
0.900	5.66E-02	5.22E-02	4.42E-02	2.49E-02	2.10E-03	1.70E-05	1.59E-12	0.00E+00
0.925	5.76E-02	5.30E-02	4.50E-02	2.54E-02	2.15E-03	1.73E-05	1.64E-12	0.00E+00
0.950	5.88E-02	5.42E-02	4.59E-02	2.59E-02	2.20E-03	1.81E-05	1.73E-12	0.00E+00
0.975	6.11E-02	5.62E-02	4.76E-02	2.70E-02	2.35E-03	2.34E-05	4.12E-11	0.00E+00
1.000	1.15E-01	1.06E-01	9.01E-02	5.10E-02	1.28E-01	1.54E-03	1.44E-10	0.00E+00

Probabilistic results summary : RESRAD Default

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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	5.217E-02
2	0.000E+00	5.216E-02
3	0.000E+00	5.217E-02

Title : RESRAD Default
 Input File : ZION BFM SENSITIVITY.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
Cover erosion rate	1	0.82	1	0.80	6	0.10	6	0.04
Density of contaminated zone	39	0.00	39	0.00	18	0.03	18	0.01
Contaminated zone erosion rate	35	-0.01	35	-0.01	35	-0.01	35	0.00
Contaminated zone total porosity	16	0.03	16	0.01	7	-0.06	7	-0.02
Contaminated zone hydraulic conductivity	14	-0.03	14	-0.02	30	-0.01	30	-0.01
Contaminated zone b parameter	20	0.02	21	0.01	32	-0.01	32	0.00
Evapotranspiration coefficient	5	0.10	5	0.05	17	0.03	17	0.01
Wind Speed	21	-0.02	22	-0.01	22	-0.03	22	-0.01
Runoff coefficient	27	-0.02	27	-0.01	12	0.04	12	0.01
Density of saturated zone	36	0.01	36	0.00	10	0.04	10	0.02
Saturated zone total porosity	40	0.00	40	0.00	16	-0.03	16	-0.01
Saturated zone effective porosity	30	0.02	30	0.01	29	0.02	29	0.01
Saturated zone hydraulic conductivity	38	0.00	38	0.00	27	-0.02	27	-0.01
Saturated zone hydraulic gradient	6	-0.09	6	-0.05	21	-0.03	21	-0.01
Well pump intake depth	26	-0.02	26	-0.01	37	0.00	37	0.00
Mass loading for inhalation	29	0.02	29	0.01	31	0.01	31	0.00
Indoor dust filtration factor	31	-0.01	31	-0.01	36	0.01	36	0.00
External gamma shielding factor	11	-0.04	11	-0.02	24	-0.02	24	-0.01
Depth of soil mixing layer	28	-0.02	28	-0.01	39	0.00	39	0.00
Depth of roots	33	0.01	33	0.01	40	0.00	40	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.06	9	-0.03	4	-0.51	4	-0.23
Weathering removal constant of all vegetation	3	-0.18	3	-0.10	1	-0.88	1	-0.71
Wet foliar interception fraction of leafy vegetables	4	0.13	4	0.07	3	0.59	3	0.28
Plant transfer factor for Co	24	-0.02	24	-0.01	13	-0.04	13	-0.01
Meat transfer factor for Co	13	0.04	13	0.02	8	0.05	8	0.02
Milk transfer factor for Co	23	0.02	23	0.01	26	0.02	26	0.01
Plant transfer factor for Cs	22	-0.02	20	-0.01	34	-0.01	34	0.00
Meat transfer factor for Cs	8	0.06	8	0.03	41	0.00	41	0.00
Milk transfer factor for Cs	32	-0.01	32	-0.01	9	0.05	9	0.02
Plant transfer factor for Eu	34	0.01	34	0.01	23	0.02	23	0.01
Meat transfer factor for Eu	2	0.24	2	0.14	2	0.75	2	0.44
Milk transfer factor for Eu	17	0.03	17	0.01	5	0.22	5	0.09
Plant transfer factor for H	12	0.04	12	0.02	20	0.03	20	0.01
Meat transfer factor for H	15	0.03	15	0.02	15	-0.03	15	-0.01
Milk transfer factor for H	18	0.02	18	0.01	28	-0.02	28	-0.01
Plant transfer factor for Ni	37	0.00	37	0.00	14	0.04	14	0.01
Meat transfer factor for Ni	25	-0.02	25	-0.01	11	-0.04	11	-0.02
Milk transfer factor for Ni	7	0.08	7	0.05	38	0.00	38	0.00
Plant transfer factor for Sr	10	0.04	10	0.02	33	-0.01	33	0.00
Meat transfer factor for Sr	19	-0.02	19	-0.01	19	0.03	19	0.01
Milk transfer factor for Sr	41	0.00	41	0.00	25	-0.02	25	-0.01
R-SQUARE		0.70		0.70		0.85		0.85

-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

Input File : ZION BFM SENSITIVITY.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
Cover erosion rate	1	0.87	1	0.86	6	0.15	6	0.06
Density of contaminated zone	36	0.01	36	0.00	22	0.03	22	0.01
Contaminated zone erosion rate	35	0.01	35	0.00	24	-0.03	24	-0.01
Contaminated zone total porosity	21	0.03	21	0.01	11	-0.05	11	-0.02
Contaminated zone hydraulic conductivity	41	0.00	41	0.00	19	0.03	19	0.01
Contaminated zone b parameter	6	-0.07	6	-0.04	17	-0.04	17	-0.01
Evapotranspiration coefficient	8	0.06	8	0.03	14	0.05	14	0.02
Wind Speed	12	-0.05	12	-0.02	34	0.01	34	0.00
Runoff coefficient	34	-0.01	34	0.00	30	-0.01	30	-0.01
Density of saturated zone	16	-0.03	16	-0.01	37	0.01	37	0.00
Saturated zone total porosity	13	0.05	13	0.02	26	-0.02	26	-0.01
Saturated zone effective porosity	40	0.00	40	0.00	41	0.00	41	0.00
Saturated zone hydraulic conductivity	19	-0.03	19	-0.01	10	-0.05	10	-0.02
Saturated zone hydraulic gradient	22	0.02	22	0.01	7	-0.06	7	-0.02
Well pump intake depth	31	0.01	31	0.01	40	-0.01	40	0.00
Mass loading for inhalation	26	0.02	26	0.01	9	-0.06	9	-0.02
Indoor dust filtration factor	18	0.03	18	0.01	21	0.03	21	0.01
External gamma shielding factor	17	-0.03	17	-0.01	16	-0.04	16	-0.02
Depth of soil mixing layer	9	-0.06	9	-0.03	15	-0.04	15	-0.02
Depth of roots	29	0.01	29	0.01	31	0.01	31	0.01
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	-0.13	4	-0.06	4	-0.54	4	-0.24
Weathering removal constant of all vegetation	3	-0.19	3	-0.09	1	-0.89	1	-0.72
Wet foliar interception fraction of leafy vegetables	7	0.07	7	0.03	3	0.57	3	0.26
Plant transfer factor for Co	32	-0.01	32	0.00	28	-0.02	28	-0.01
Meat transfer factor for Co	24	0.02	24	0.01	18	0.04	18	0.01
Milk transfer factor for Co	37	0.00	37	0.00	33	-0.01	33	0.00
Plant transfer factor for Cs	20	-0.03	20	-0.01	32	-0.01	32	0.00
Meat transfer factor for Cs	23	0.02	23	0.01	23	0.03	23	0.01
Milk transfer factor for Cs	25	-0.02	25	-0.01	20	-0.03	20	-0.01
Plant transfer factor for Eu	33	0.01	33	0.00	29	0.01	29	0.01
Meat transfer factor for Eu	2	0.19	2	0.09	2	0.77	2	0.46
Milk transfer factor for Eu	38	0.00	38	0.00	5	0.17	5	0.07
Plant transfer factor for H	5	-0.08	5	-0.04	35	0.01	35	0.00
Meat transfer factor for H	11	0.05	11	0.02	25	-0.02	25	-0.01
Milk transfer factor for H	15	-0.03	15	-0.02	12	0.05	12	0.02
Plant transfer factor for Ni	10	0.06	10	0.03	13	0.05	13	0.02
Meat transfer factor for Ni	28	-0.01	28	-0.01	38	0.01	38	0.00
Milk transfer factor for Ni	39	0.00	39	0.00	27	0.02	27	0.01
Plant transfer factor for Sr	30	0.01	30	0.01	39	0.01	39	0.00
Meat transfer factor for Sr	14	0.04	14	0.02	8	0.06	8	0.02
Milk transfer factor for Sr	27	-0.02	27	-0.01	36	0.01	36	0.00
R-SQUARE		0.78		0.78		0.86		0.86

-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
 Input File : ZION BFM SENSITIVITY.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
Cover erosion rate	1	0.84	1	0.84	6	0.14	6	0.05
Density of contaminated zone	21	0.02	21	0.01	16	0.04	16	0.01
Contaminated zone erosion rate	23	0.02	23	0.01	39	0.00	39	0.00
Contaminated zone total porosity	11	0.04	11	0.02	31	-0.02	31	-0.01
Contaminated zone hydraulic conductivity	7	-0.05	7	-0.03	22	0.03	22	0.01
Contaminated zone b parameter	35	0.01	35	0.00	13	-0.05	13	-0.02
Evapotranspiration coefficient	15	-0.03	15	-0.01	26	0.03	26	0.01
Wind Speed	38	0.00	38	0.00	19	-0.04	19	-0.01
Runoff coefficient	10	0.04	10	0.02	37	0.01	37	0.00
Density of saturated zone	14	0.03	14	0.02	7	0.08	7	0.03
Saturated zone total porosity	5	-0.06	5	-0.03	29	-0.02	29	-0.01
Saturated zone effective porosity	13	0.03	13	0.02	11	0.06	11	0.02
Saturated zone hydraulic conductivity	19	0.02	19	0.01	32	-0.02	32	-0.01
Saturated zone hydraulic gradient	22	-0.02	22	-0.01	24	-0.03	24	-0.01
Well pump intake depth	29	-0.01	29	-0.01	28	0.02	28	0.01
Mass loading for inhalation	25	-0.01	25	-0.01	20	-0.03	20	-0.01
Indoor dust filtration factor	36	0.01	36	0.00	17	0.04	17	0.01
External gamma shielding factor	8	0.05	8	0.02	36	-0.01	36	0.00
Depth of soil mixing layer	28	0.01	28	0.01	21	-0.03	21	-0.01
Depth of roots	32	-0.01	32	0.00	40	0.00	40	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	12	-0.04	12	-0.02	4	-0.48	4	-0.22
Weathering removal constant of all vegetation	2	-0.16	2	-0.08	1	-0.88	1	-0.72
Wet foliar interception fraction of leafy vegetables	6	0.05	6	0.03	3	0.57	3	0.27
Plant transfer factor for Co	31	-0.01	31	0.00	8	-0.07	8	-0.03
Meat transfer factor for Co	34	0.01	34	0.00	10	0.06	10	0.02
Milk transfer factor for Co	27	0.01	27	0.01	41	0.00	41	0.00
Plant transfer factor for Cs	33	0.01	33	0.00	12	0.05	12	0.02
Meat transfer factor for Cs	9	0.05	9	0.02	25	-0.03	25	-0.01
Milk transfer factor for Cs	18	0.02	18	0.01	14	0.04	14	0.02
Plant transfer factor for Eu	24	-0.01	24	-0.01	33	0.01	33	0.01
Meat transfer factor for Eu	3	0.15	3	0.08	2	0.75	2	0.44
Milk transfer factor for Eu	37	-0.01	37	0.00	5	0.17	5	0.07
Plant transfer factor for H	26	0.01	26	0.01	34	-0.01	34	0.00
Meat transfer factor for H	20	-0.02	20	-0.01	38	0.01	38	0.00
Milk transfer factor for H	4	-0.09	4	-0.05	18	0.04	18	0.01
Plant transfer factor for Ni	39	0.00	39	0.00	35	-0.01	35	0.00
Meat transfer factor for Ni	17	-0.02	17	-0.01	15	-0.04	15	-0.01
Milk transfer factor for Ni	40	0.00	40	0.00	9	-0.06	9	-0.03
Plant transfer factor for Sr	16	-0.03	16	-0.01	27	-0.02	27	-0.01
Meat transfer factor for Sr	41	0.00	41	0.00	30	-0.02	30	-0.01
Milk transfer factor for Sr	30	-0.01	30	0.00	23	0.03	23	0.01
R-SQUARE		0.72		0.72		0.85		0.85

-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.