

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
Cs-134										
Min	0.00E+00	9.39E-01	9.39E-01	5.45E-01	1.83E-01	4.03E-03	7.77E-11	1.21E-26	0.00E+00	0.00E+00
Max	0.00E+00	3.96E+00	3.96E+00	2.82E+00	1.44E+00	2.04E-01	1.40E-05	3.12E-14	0.00E+00	0.00E+00
Avg	0.00E+00	1.57E+00	1.57E+00	1.12E+00	5.65E-01	5.22E-02	1.74E-06	3.29E-15	0.00E+00	0.00E+00
Std	0.00E+00	3.47E-01	3.47E-01	2.48E-01	1.28E-01	1.33E-02	7.78E-07	2.15E-15	0.00E+00	0.00E+00
ΣALL										
Min	0.00E+00	9.39E-01	9.39E-01	5.45E-01	1.83E-01	4.03E-03	7.77E-11	1.21E-26	0.00E+00	0.00E+00
Max	0.00E+00	3.96E+00	3.96E+00	2.82E+00	1.44E+00	2.04E-01	1.40E-05	3.12E-14	0.00E+00	0.00E+00
Avg	0.00E+00	1.57E+00	1.57E+00	1.12E+00	5.65E-01	5.22E-02	1.74E-06	3.29E-15	0.00E+00	0.00E+00
Std	0.00E+00	3.47E-01	3.47E-01	2.48E-01	1.28E-01	1.33E-02	7.78E-07	2.15E-15	0.00E+00	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
Cs-134									
Min		2.06E-05	1.32E-05	4.42E-06	9.74E-08	2.01E-15	0.00E+00	0.00E+00	0.00E+00
Max		9.51E-05	6.79E-05	3.46E-05	4.80E-06	3.47E-10	7.87E-19	3.12E-39	1.19E-39
Avg		3.61E-05	2.57E-05	1.30E-05	1.20E-06	4.00E-11	7.60E-20	1.48E-42	4.40E-43
Std		8.62E-06	6.14E-06	3.16E-06	3.23E-07	1.90E-11	5.29E-20	0.00E+00	0.00E+00
ΣALL									
Min		2.06E-05	1.32E-05	4.42E-06	9.74E-08	2.01E-15	0.00E+00	0.00E+00	0.00E+00
Max		9.51E-05	6.79E-05	3.46E-05	4.80E-06	3.47E-10	7.87E-19	3.12E-39	1.19E-39
Avg		3.61E-05	2.57E-05	1.30E-05	1.20E-06	4.00E-11	7.60E-20	1.48E-42	4.40E-43
Std		8.62E-06	6.14E-06	3.16E-06	3.23E-07	1.90E-11	5.29E-20	0.00E+00	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
Cs-134									
Min		1.81E-22	1.23E-22	3.91E-23	7.20E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.93E-21	1.81E-20	2.27E-18	4.96E-11	4.13E-06	1.35E-14	0.00E+00	0.00E+00
Avg		3.91E-22	3.53E-22	3.83E-21	2.93E-14	2.74E-08	1.08E-16	0.00E+00	0.00E+00
Std		1.59E-22	7.63E-22	6.25E-20	9.69E-13	2.70E-07	8.00E-16	0.00E+00	0.00E+00
ΣALL									
Min		1.81E-22	1.23E-22	3.91E-23	7.20E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.93E-21	1.81E-20	2.27E-18	4.96E-11	4.13E-06	1.35E-14	0.00E+00	0.00E+00
Avg		3.91E-22	3.53E-22	3.83E-21	2.93E-14	2.74E-08	1.08E-16	0.00E+00	0.00E+00
Std		1.59E-22	7.63E-22	6.25E-20	9.69E-13	2.70E-07	8.00E-16	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): 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
Cs-134									
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	1.20E-12	3.44E-21	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-15	2.01E-23	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-14	1.64E-22	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	1.20E-12	3.44E-21	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-15	2.01E-23	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-14	1.64E-22	0.00E+00	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
Cs-134									
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
Cs-134									
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		5.01E-01	3.54E-01	1.77E-01	3.84E-02	2.52E-06	4.96E-15	0.00E+00	0.00E+00
Avg		3.33E-03	2.45E-03	1.33E-03	1.71E-04	1.43E-08	4.39E-17	0.00E+00	0.00E+00
Std		1.90E-02	1.37E-02	7.42E-03	1.12E-03	9.89E-08	2.79E-16	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		5.01E-01	3.54E-01	1.77E-01	3.84E-02	2.52E-06	4.96E-15	0.00E+00	0.00E+00
Avg		3.33E-03	2.45E-03	1.33E-03	1.71E-04	1.43E-08	4.39E-17	0.00E+00	0.00E+00
Std		1.90E-02	1.37E-02	7.42E-03	1.12E-03	9.89E-08	2.79E-16	0.00E+00	0.00E+00

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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
Cs-134									
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		5.24E-01	3.70E-01	1.85E-01	2.96E-02	2.44E-06	5.35E-15	0.00E+00	0.00E+00
Avg		2.52E-03	1.85E-03	1.00E-03	1.31E-04	1.27E-08	3.88E-17	0.00E+00	0.00E+00
Std		1.63E-02	1.17E-02	6.28E-03	9.17E-04	9.50E-08	2.61E-16	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		5.24E-01	3.70E-01	1.85E-01	2.96E-02	2.44E-06	5.35E-15	0.00E+00	0.00E+00
Avg		2.52E-03	1.85E-03	1.00E-03	1.31E-04	1.27E-08	3.88E-17	0.00E+00	0.00E+00
Std		1.63E-02	1.17E-02	6.28E-03	9.17E-04	9.50E-08	2.61E-16	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
Cs-134									
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	7.87E-01	5.63E-01	2.88E-01	6.74E-02	4.61E-06	9.90E-15	0.00E+00	0.00E+00	0.00E+00
Avg	4.04E-03	2.97E-03	1.62E-03	2.08E-04	1.89E-08	6.18E-17	0.00E+00	0.00E+00	0.00E+00
Std	2.56E-02	1.85E-02	1.03E-02	1.65E-03	1.48E-07	4.43E-16	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	0.00E+00
Max	7.87E-01	5.63E-01	2.88E-01	6.74E-02	4.61E-06	9.90E-15	0.00E+00	0.00E+00	0.00E+00
Avg	4.04E-03	2.97E-03	1.62E-03	2.08E-04	1.89E-08	6.18E-17	0.00E+00	0.00E+00	0.00E+00
Std	2.56E-02	1.85E-02	1.03E-02	1.65E-03	1.48E-07	4.43E-16	0.00E+00	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
Cs-134									
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	1.09E-09	2.28E-18	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-11	3.80E-20	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-11	2.67E-19	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	1.09E-09	2.28E-18	0.00E+00	0.00E+00
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-11	3.80E-20	0.00E+00	0.00E+00
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-11	2.67E-19	0.00E+00	0.00E+00

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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
Cs-134									
Min		5.86E-01	3.16E-01	9.18E-02	1.21E-03	7.91E-12	8.32E-28	0.00E+00	0.00E+00
Max		6.60E-01	4.71E-01	2.41E-01	2.29E-02	8.18E-07	1.71E-15	0.00E+00	0.00E+00
Avg		6.56E-01	4.66E-01	2.35E-01	2.17E-02	6.97E-07	1.27E-15	0.00E+00	0.00E+00
Std		4.53E-03	1.01E-02	1.10E-02	2.38E-03	1.73E-07	4.85E-16	0.00E+00	0.00E+00
ΣALL									
Min		5.86E-01	3.16E-01	9.18E-02	1.21E-03	7.91E-12	8.32E-28	0.00E+00	0.00E+00
Max		6.60E-01	4.71E-01	2.41E-01	2.29E-02	8.18E-07	1.71E-15	0.00E+00	0.00E+00
Avg		6.56E-01	4.66E-01	2.35E-01	2.17E-02	6.97E-07	1.27E-15	0.00E+00	0.00E+00
Std		4.53E-03	1.01E-02	1.10E-02	2.38E-03	1.73E-07	4.85E-16	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): 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
Cs-134									
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
Cs-134									
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): 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
Cs-134									
Min		1.04E-02	7.38E-03	3.74E-03	9.17E-05	8.03E-13	8.44E-29	0.00E+00	0.00E+00
Max		3.18E-01	2.27E-01	1.16E-01	1.11E-02	3.93E-07	8.17E-16	0.00E+00	0.00E+00
Avg		6.11E-02	4.34E-02	2.19E-02	2.02E-03	6.50E-08	1.19E-16	0.00E+00	0.00E+00
Std		3.54E-02	2.52E-02	1.28E-02	1.20E-03	4.20E-08	8.62E-17	0.00E+00	0.00E+00
ΣALL									
Min		1.04E-02	7.38E-03	3.74E-03	9.17E-05	8.03E-13	8.44E-29	0.00E+00	0.00E+00
Max		3.18E-01	2.27E-01	1.16E-01	1.11E-02	3.93E-07	8.17E-16	0.00E+00	0.00E+00
Avg		6.11E-02	4.34E-02	2.19E-02	2.02E-03	6.50E-08	1.19E-16	0.00E+00	0.00E+00
Std		3.54E-02	2.52E-02	1.28E-02	1.20E-03	4.20E-08	8.62E-17	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): 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
Cs-134									
Min		7.69E-02	5.49E-02	2.80E-02	3.83E-04	2.50E-12	2.63E-28	0.00E+00	0.00E+00
Max		1.57E+00	1.12E+00	5.74E-01	5.46E-02	1.94E-06	4.00E-15	0.00E+00	0.00E+00
Avg		3.88E-01	2.76E-01	1.39E-01	1.28E-02	4.13E-07	7.54E-16	0.00E+00	0.00E+00
Std		1.73E-01	1.23E-01	6.26E-02	5.95E-03	2.18E-07	4.68E-16	0.00E+00	0.00E+00
ΣALL									
Min		7.69E-02	5.49E-02	2.80E-02	3.83E-04	2.50E-12	2.63E-28	0.00E+00	0.00E+00
Max		1.57E+00	1.12E+00	5.74E-01	5.46E-02	1.94E-06	4.00E-15	0.00E+00	0.00E+00
Avg		3.88E-01	2.76E-01	1.39E-01	1.28E-02	4.13E-07	7.54E-16	0.00E+00	0.00E+00
Std		1.73E-01	1.23E-01	6.26E-02	5.95E-03	2.18E-07	4.68E-16	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): 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
Cs-134									
Min		8.20E-02	5.86E-02	2.87E-02	3.79E-04	2.48E-12	2.60E-28	0.00E+00	0.00E+00
Max		2.64E+00	1.89E+00	9.58E-01	8.98E-02	2.98E-06	5.51E-15	0.00E+00	0.00E+00
Avg		4.58E-01	3.25E-01	1.64E-01	1.51E-02	4.87E-07	8.89E-16	0.00E+00	0.00E+00
Std		2.53E-01	1.80E-01	9.15E-02	8.63E-03	3.07E-07	6.36E-16	0.00E+00	0.00E+00
ΣALL									
Min		8.20E-02	5.86E-02	2.87E-02	3.79E-04	2.48E-12	2.60E-28	0.00E+00	0.00E+00
Max		2.64E+00	1.89E+00	9.58E-01	8.98E-02	2.98E-06	5.51E-15	0.00E+00	0.00E+00
Avg		4.58E-01	3.25E-01	1.64E-01	1.51E-02	4.87E-07	8.89E-16	0.00E+00	0.00E+00
Std		2.53E-01	1.80E-01	9.15E-02	8.63E-03	3.07E-07	6.36E-16	0.00E+00	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	1.09E+00	7.73E-01	3.85E-01	3.19E-02	3.27E-07	4.95E-17	0.00E+00	0.00E+00
0.050	1.14E+00	8.06E-01	4.04E-01	3.58E-02	6.38E-07	2.84E-16	0.00E+00	0.00E+00
0.075	1.17E+00	8.31E-01	4.17E-01	3.75E-02	8.44E-07	6.20E-16	0.00E+00	0.00E+00
0.100	1.20E+00	8.50E-01	4.28E-01	3.89E-02	1.01E-06	9.44E-16	0.00E+00	0.00E+00
0.125	1.22E+00	8.67E-01	4.38E-01	4.00E-02	1.14E-06	1.26E-15	0.00E+00	0.00E+00
0.150	1.25E+00	8.87E-01	4.46E-01	4.08E-02	1.22E-06	1.60E-15	0.00E+00	0.00E+00
0.175	1.27E+00	9.02E-01	4.55E-01	4.16E-02	1.29E-06	1.84E-15	0.00E+00	0.00E+00
0.200	1.29E+00	9.18E-01	4.62E-01	4.23E-02	1.33E-06	2.08E-15	0.00E+00	0.00E+00
0.225	1.31E+00	9.32E-01	4.71E-01	4.32E-02	1.37E-06	2.26E-15	0.00E+00	0.00E+00
0.250	1.33E+00	9.43E-01	4.76E-01	4.39E-02	1.40E-06	2.45E-15	0.00E+00	0.00E+00
0.275	1.35E+00	9.57E-01	4.83E-01	4.45E-02	1.43E-06	2.57E-15	0.00E+00	0.00E+00
0.300	1.37E+00	9.70E-01	4.90E-01	4.50E-02	1.47E-06	2.68E-15	0.00E+00	0.00E+00
0.325	1.38E+00	9.84E-01	4.97E-01	4.58E-02	1.50E-06	2.76E-15	0.00E+00	0.00E+00
0.350	1.40E+00	9.96E-01	5.04E-01	4.64E-02	1.52E-06	2.83E-15	0.00E+00	0.00E+00
0.375	1.42E+00	1.01E+00	5.11E-01	4.71E-02	1.55E-06	2.90E-15	0.00E+00	0.00E+00
0.400	1.44E+00	1.02E+00	5.15E-01	4.78E-02	1.57E-06	2.97E-15	0.00E+00	0.00E+00
0.425	1.45E+00	1.03E+00	5.22E-01	4.85E-02	1.61E-06	3.04E-15	0.00E+00	0.00E+00
0.450	1.47E+00	1.05E+00	5.29E-01	4.90E-02	1.63E-06	3.09E-15	0.00E+00	0.00E+00
0.475	1.49E+00	1.06E+00	5.36E-01	4.96E-02	1.66E-06	3.16E-15	0.00E+00	0.00E+00
0.500	1.51E+00	1.07E+00	5.43E-01	5.03E-02	1.69E-06	3.23E-15	0.00E+00	0.00E+00
0.525	1.53E+00	1.09E+00	5.50E-01	5.10E-02	1.71E-06	3.30E-15	0.00E+00	0.00E+00
0.550	1.55E+00	1.10E+00	5.57E-01	5.18E-02	1.74E-06	3.37E-15	0.00E+00	0.00E+00
0.575	1.56E+00	1.11E+00	5.63E-01	5.25E-02	1.76E-06	3.44E-15	0.00E+00	0.00E+00
0.600	1.58E+00	1.12E+00	5.70E-01	5.31E-02	1.79E-06	3.51E-15	0.00E+00	0.00E+00
0.625	1.61E+00	1.14E+00	5.77E-01	5.38E-02	1.82E-06	3.57E-15	0.00E+00	0.00E+00
0.650	1.64E+00	1.16E+00	5.88E-01	5.45E-02	1.86E-06	3.64E-15	0.00E+00	0.00E+00
0.675	1.66E+00	1.18E+00	5.97E-01	5.55E-02	1.89E-06	3.74E-15	0.00E+00	0.00E+00
0.700	1.69E+00	1.20E+00	6.07E-01	5.65E-02	1.92E-06	3.80E-15	0.00E+00	0.00E+00
0.725	1.72E+00	1.22E+00	6.17E-01	5.77E-02	1.96E-06	3.87E-15	0.00E+00	0.00E+00
0.750	1.75E+00	1.24E+00	6.30E-01	5.89E-02	2.01E-06	3.97E-15	0.00E+00	0.00E+00
0.775	1.78E+00	1.27E+00	6.41E-01	6.00E-02	2.06E-06	4.09E-15	0.00E+00	0.00E+00
0.800	1.82E+00	1.29E+00	6.55E-01	6.12E-02	2.10E-06	4.18E-15	0.00E+00	0.00E+00
0.825	1.87E+00	1.33E+00	6.70E-01	6.27E-02	2.16E-06	4.31E-15	0.00E+00	0.00E+00
0.850	1.91E+00	1.36E+00	6.87E-01	6.44E-02	2.22E-06	4.42E-15	0.00E+00	0.00E+00
0.875	1.95E+00	1.39E+00	7.04E-01	6.62E-02	2.30E-06	4.61E-15	0.00E+00	0.00E+00
0.900	2.01E+00	1.43E+00	7.23E-01	6.82E-02	2.38E-06	4.82E-15	0.00E+00	0.00E+00
0.925	2.10E+00	1.49E+00	7.57E-01	7.11E-02	2.49E-06	5.03E-15	0.00E+00	0.00E+00
0.950	2.21E+00	1.57E+00	7.97E-01	7.47E-02	2.69E-06	5.50E-15	0.00E+00	0.00E+00
0.975	2.41E+00	1.72E+00	8.72E-01	8.20E-02	3.20E-06	6.89E-15	0.00E+00	0.00E+00
1.000	3.96E+00	2.82E+00	1.44E+00	2.04E-01	1.40E-05	3.12E-14	0.00E+00	0.00E+00

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\BFM SENSITIVITY ANALYSIS\INPUT FILES\ZION BFM SENSITIVITY.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	1.570E+00
2	0.000E+00	1.572E+00
3	0.000E+00	1.574E+00

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	18	-0.04	17	-0.01	39	0.01	39	0.00
Density of contaminated zone	36	-0.01	36	0.00	19	-0.03	19	-0.01
Contaminated zone erosion rate	10	0.05	9	0.01	16	0.04	16	0.01
Contaminated zone total porosity	8	-0.07	8	-0.02	17	-0.04	17	-0.01
Contaminated zone hydraulic conductivity	13	0.05	13	0.01	14	0.05	14	0.01
Contaminated zone b parameter	16	-0.04	16	-0.01	38	0.01	38	0.00
Evapotranspiration coefficient	28	0.02	28	0.01	21	-0.03	21	-0.01
Wind Speed	35	0.01	35	0.00	10	0.05	10	0.02
Runoff coefficient	20	0.04	20	0.01	24	-0.03	24	-0.01
Density of saturated zone	37	-0.01	37	0.00	37	0.01	37	0.00
Saturated zone total porosity	29	-0.02	29	-0.01	35	-0.01	35	0.00
Saturated zone effective porosity	41	0.00	41	0.00	34	0.01	34	0.00
Saturated zone hydraulic conductivity	15	-0.04	15	-0.01	11	-0.05	11	-0.01
Saturated zone hydraulic gradient	22	-0.04	22	-0.01	8	-0.07	8	-0.02
Well pump intake depth	19	-0.04	19	-0.01	20	-0.03	20	-0.01
Mass loading for inhalation	21	0.04	21	0.01	33	0.01	33	0.00
Indoor dust filtration factor	17	0.04	18	0.01	30	0.01	30	0.00
External gamma shielding factor	26	-0.03	26	-0.01	29	-0.01	29	0.00
Depth of soil mixing layer	30	0.02	30	0.01	9	-0.06	9	-0.02
Depth of roots	5	0.18	5	0.05	4	0.18	4	0.05
Wet weight crop yield of fruit, grain and non-leafy vegetables	4	-0.19	4	-0.05	5	-0.14	5	-0.04
Weathering removal constant of all vegetation	2	-0.89	2	-0.49	2	-0.88	2	-0.54
Wet foliar interception fraction of leafy vegetables	6	0.15	6	0.04	6	0.13	6	0.04
Plant transfer factor for Co	34	0.02	34	0.00	41	0.00	41	0.00
Meat transfer factor for Co	12	-0.05	12	-0.01	40	0.00	40	0.00
Milk transfer factor for Co	24	-0.03	24	-0.01	28	-0.01	28	0.00
Plant transfer factor for Cs	7	0.14	7	0.04	7	0.13	7	0.04
Meat transfer factor for Cs	3	0.88	3	0.48	3	0.86	3	0.48
Milk transfer factor for Cs	1	0.93	1	0.66	1	0.91	1	0.61
Plant transfer factor for Eu	25	-0.03	25	-0.01	32	-0.01	32	0.00
Meat transfer factor for Eu	9	0.05	10	0.01	22	-0.03	22	-0.01
Milk transfer factor for Eu	27	-0.02	27	-0.01	27	0.01	27	0.00
Plant transfer factor for H	40	0.00	40	0.00	25	-0.03	25	-0.01
Meat transfer factor for H	33	-0.02	33	0.00	23	0.03	23	0.01
Milk transfer factor for H	11	0.05	11	0.01	13	0.05	13	0.01
Plant transfer factor for Ni	31	-0.02	31	0.00	12	0.05	12	0.01
Meat transfer factor for Ni	14	-0.04	14	-0.01	31	-0.01	31	0.00
Milk transfer factor for Ni	32	0.02	32	0.00	15	0.04	15	0.01
Plant transfer factor for Sr	38	0.01	38	0.00	26	0.02	26	0.01
Meat transfer factor for Sr	23	0.04	23	0.01	18	-0.04	18	-0.01
Milk transfer factor for Sr	39	0.01	39	0.00	36	0.01	36	0.00
R-SQUARE		0.94		0.94		0.92		0.92

-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	23	0.02	23	0.01	20	0.02	20	0.01
Density of contaminated zone	11	-0.04	11	-0.01	16	0.04	16	0.01
Contaminated zone erosion rate	31	0.01	31	0.00	26	0.02	26	0.00
Contaminated zone total porosity	12	-0.04	12	-0.01	31	0.01	31	0.00
Contaminated zone hydraulic conductivity	25	-0.02	25	-0.01	29	-0.01	29	0.00
Contaminated zone b parameter	20	-0.02	20	-0.01	27	-0.01	27	0.00
Evapotranspiration coefficient	32	-0.01	32	0.00	37	0.00	37	0.00
Wind Speed	15	-0.03	15	-0.01	22	0.02	22	0.01
Runoff coefficient	13	-0.03	13	-0.01	23	-0.02	23	-0.01
Density of saturated zone	35	-0.01	35	0.00	41	0.00	41	0.00
Saturated zone total porosity	39	-0.01	39	0.00	30	0.01	30	0.00
Saturated zone effective porosity	40	0.00	40	0.00	21	-0.02	21	-0.01
Saturated zone hydraulic conductivity	41	0.00	41	0.00	11	-0.05	11	-0.01
Saturated zone hydraulic gradient	8	-0.09	8	-0.03	7	-0.08	7	-0.02
Well pump intake depth	34	-0.01	34	0.00	38	0.00	38	0.00
Mass loading for inhalation	27	0.02	28	0.00	17	0.04	17	0.01
Indoor dust filtration factor	22	0.02	22	0.01	18	0.03	18	0.01
External gamma shielding factor	26	-0.02	26	0.00	24	-0.02	24	-0.01
Depth of soil mixing layer	16	-0.03	16	-0.01	28	0.01	28	0.00
Depth of roots	7	0.11	7	0.03	5	0.14	5	0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	5	-0.15	5	-0.04	4	-0.14	4	-0.04
Weathering removal constant of all vegetation	2	-0.88	2	-0.50	2	-0.87	2	-0.52
Wet foliar interception fraction of leafy vegetables	4	0.17	4	0.05	6	0.12	6	0.04
Plant transfer factor for Co	36	0.01	36	0.00	36	0.00	36	0.00
Meat transfer factor for Co	17	0.03	17	0.01	32	-0.01	32	0.00
Milk transfer factor for Co	33	-0.01	33	0.00	10	-0.05	10	-0.02
Plant transfer factor for Cs	6	0.15	6	0.04	8	0.07	8	0.02
Meat transfer factor for Cs	3	0.87	3	0.47	3	0.85	3	0.49
Milk transfer factor for Cs	1	0.93	1	0.67	1	0.90	1	0.62
Plant transfer factor for Eu	37	0.01	37	0.00	39	0.00	39	0.00
Meat transfer factor for Eu	10	-0.04	10	-0.01	35	-0.01	35	0.00
Milk transfer factor for Eu	38	0.01	38	0.00	15	0.04	15	0.01
Plant transfer factor for H	9	0.06	9	0.02	13	-0.04	13	-0.01
Meat transfer factor for H	29	0.02	29	0.00	12	0.05	12	0.01
Milk transfer factor for H	19	-0.03	19	-0.01	33	0.01	33	0.00
Plant transfer factor for Ni	30	0.01	30	0.00	25	0.02	25	0.01
Meat transfer factor for Ni	14	-0.03	14	-0.01	40	0.00	40	0.00
Milk transfer factor for Ni	21	-0.02	21	-0.01	14	-0.04	14	-0.01
Plant transfer factor for Sr	28	-0.02	27	0.00	34	-0.01	34	0.00
Meat transfer factor for Sr	18	0.03	18	0.01	19	-0.03	19	-0.01
Milk transfer factor for Sr	24	-0.02	24	-0.01	9	0.06	9	0.02
R-SQUARE		0.93		0.93		0.91		0.91

-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	28	-0.01	28	0.00	7	-0.07	7	-0.02
Density of contaminated zone	20	0.02	20	0.01	12	0.04	12	0.01
Contaminated zone erosion rate	39	0.01	39	0.00	39	0.01	39	0.00
Contaminated zone total porosity	8	0.08	8	0.03	35	0.01	35	0.00
Contaminated zone hydraulic conductivity	41	0.00	41	0.00	34	-0.01	34	0.00
Contaminated zone b parameter	34	-0.01	33	0.00	20	-0.03	20	-0.01
Evapotranspiration coefficient	13	0.04	13	0.01	10	-0.05	10	-0.01
Wind Speed	17	-0.03	17	-0.01	23	0.03	23	0.01
Runoff coefficient	33	-0.01	34	0.00	9	0.05	9	0.02
Density of saturated zone	22	0.02	22	0.01	15	0.03	15	0.01
Saturated zone total porosity	38	0.01	38	0.00	31	-0.02	31	0.00
Saturated zone effective porosity	24	-0.02	24	-0.01	41	0.00	41	0.00
Saturated zone hydraulic conductivity	35	-0.01	35	0.00	33	-0.01	33	0.00
Saturated zone hydraulic gradient	10	-0.05	10	-0.02	14	0.04	14	0.01
Well pump intake depth	12	0.05	12	0.01	37	0.01	37	0.00
Mass loading for inhalation	21	-0.02	21	-0.01	24	0.02	24	0.01
Indoor dust filtration factor	27	0.01	27	0.00	40	-0.01	40	0.00
External gamma shielding factor	18	-0.02	19	-0.01	21	-0.03	21	-0.01
Depth of soil mixing layer	29	0.01	29	0.00	26	0.02	26	0.01
Depth of roots	6	0.16	6	0.05	5	0.12	5	0.04
Wet weight crop yield of fruit, grain and non-leafy vegetables	5	-0.16	5	-0.05	8	-0.06	8	-0.02
Weathering removal constant of all vegetation	2	-0.83	2	-0.48	2	-0.87	2	-0.53
Wet foliar interception fraction of leafy vegetables	7	0.12	7	0.04	6	0.11	6	0.03
Plant transfer factor for Co	31	-0.01	31	0.00	11	0.05	11	0.01
Meat transfer factor for Co	14	0.04	14	0.01	17	0.03	17	0.01
Milk transfer factor for Co	23	0.02	23	0.01	16	0.03	16	0.01
Plant transfer factor for Cs	4	0.29	4	0.10	4	0.14	4	0.04
Meat transfer factor for Cs	3	0.82	3	0.46	3	0.86	3	0.50
Milk transfer factor for Cs	1	0.90	1	0.66	1	0.90	1	0.61
Plant transfer factor for Eu	11	0.05	11	0.02	28	0.02	28	0.01
Meat transfer factor for Eu	30	0.01	30	0.00	13	-0.04	13	-0.01
Milk transfer factor for Eu	40	0.00	40	0.00	18	-0.03	18	-0.01
Plant transfer factor for H	37	-0.01	37	0.00	19	0.03	19	0.01
Meat transfer factor for H	15	0.04	15	0.01	29	-0.02	29	-0.01
Milk transfer factor for H	36	-0.01	36	0.00	22	-0.03	22	-0.01
Plant transfer factor for Ni	25	0.02	25	0.01	27	0.02	27	0.01
Meat transfer factor for Ni	26	-0.02	26	0.00	30	0.02	30	0.00
Milk transfer factor for Ni	9	-0.06	9	-0.02	32	-0.01	32	0.00
Plant transfer factor for Sr	19	0.02	18	0.01	25	0.02	25	0.01
Meat transfer factor for Sr	16	0.03	16	0.01	36	0.01	36	0.00
Milk transfer factor for Sr	32	0.01	32	0.00	38	0.01	38	0.00
R-SQUARE		0.90		0.90		0.91		0.91

-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.