

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	Peak	Peak	DOSE(j,t), mrem/yr								
(j)	Time	Dose	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
Sr-90											
Min	0.00E+00	1.02E+01	1.02E+01	7.54E-02	3.25E-06	1.70E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	6.10E+01	6.10E+01	5.70E+01	4.98E+01	4.24E+01	3.23E+01	8.60E+00	2.64E-02	1.12E-10	
Avg	0.00E+00	3.68E+01	3.68E+01	3.35E+01	2.87E+01	1.92E+01	5.20E+00	6.10E-01	9.80E-04	1.15E-12	
Std	0.00E+00	4.80E+00	4.80E+00	7.19E+00	9.15E+00	9.62E+00	4.32E+00	7.23E-01	1.95E-03	6.12E-12	
ΣALL											
Min	0.00E+00	1.02E+01	1.02E+01	7.54E-02	3.25E-06	1.70E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	6.10E+01	6.10E+01	5.70E+01	4.98E+01	4.24E+01	3.23E+01	8.60E+00	2.64E-02	1.12E-10	
Avg	0.00E+00	3.68E+01	3.68E+01	3.35E+01	2.87E+01	1.92E+01	5.20E+00	6.10E-01	9.80E-04	1.15E-12	
Std	0.00E+00	4.80E+00	4.80E+00	7.19E+00	9.15E+00	9.62E+00	4.32E+00	7.23E-01	1.95E-03	6.12E-12	

ΣALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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Probabilistic Risk Summary

Nuclide		RISK(j,t)							
(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
Sr-90									
Min		4.49E-04	6.11E-06	2.64E-10	1.39E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.06E-03	9.90E-04	8.64E-04	7.06E-04	5.73E-04	1.57E-04	4.82E-07	1.91E-15
Avg		6.11E-04	5.48E-04	4.66E-04	3.09E-04	8.31E-05	9.73E-06	1.57E-08	1.87E-17
Std		7.41E-05	1.05E-04	1.42E-04	1.53E-04	6.92E-05	1.16E-05	3.16E-08	9.93E-17
ΣALL									
Min		4.49E-04	6.11E-06	2.64E-10	1.39E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.06E-03	9.90E-04	8.64E-04	7.06E-04	5.73E-04	1.57E-04	4.82E-07	1.91E-15
Avg		6.11E-04	5.48E-04	4.66E-04	3.09E-04	8.31E-05	9.73E-06	1.57E-08	1.87E-17
Std		7.41E-05	1.05E-04	1.42E-04	1.53E-04	6.92E-05	1.16E-05	3.16E-08	9.93E-17

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	DOSE (i,j,t) , mrem/yr								
(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
Sr-90									
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		1.14E-29	3.34E-28	3.02E-25	6.72E-15	2.35E-03	6.13E-04	1.76E-06	9.29E-15
Avg		1.35E-30	2.15E-30	3.80E-28	3.80E-18	8.67E-06	2.27E-06	5.86E-09	2.34E-17
Std		0.00E+00	0.00E+00	0.00E+00	1.32E-16	1.09E-04	2.58E-05	6.72E-08	2.79E-16
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		1.14E-29	3.34E-28	3.02E-25	6.72E-15	2.35E-03	6.13E-04	1.76E-06	9.29E-15
Avg		1.35E-30	2.15E-30	3.80E-28	3.80E-18	8.67E-06	2.27E-06	5.86E-09	2.34E-17
Std		0.00E+00	0.00E+00	0.00E+00	1.32E-16	1.09E-04	2.58E-05	6.72E-08	2.79E-16

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		DOSE (i,j,t), mrem/yr							
(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
Sr-90									
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	8.22E-06	1.89E-06	4.18E-09	3.18E-17
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-08	5.09E-09	1.18E-11	5.59E-20
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-07	6.36E-08	1.52E-10	7.97E-19
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	8.22E-06	1.89E-06	4.18E-09	3.18E-17
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-08	5.09E-09	1.18E-11	5.59E-20
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-07	6.36E-08	1.52E-10	7.97E-19

ΣALL is total pathway dose summed for all nuclides.

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	DOSE (i,j,t), mrem/yr								
(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
Sr-90									
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		5.28E+00	5.22E+00	5.10E+00	6.94E+00	1.33E+01	4.36E+00	1.35E-02	2.20E-11
Avg		5.37E-02	5.04E-02	4.68E-02	4.35E-02	2.85E-02	6.08E-03	2.11E-05	7.74E-14
Std		2.71E-01	2.59E-01	2.51E-01	2.86E-01	2.90E-01	8.63E-02	2.72E-04	7.49E-13
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		5.28E+00	5.22E+00	5.10E+00	6.94E+00	1.33E+01	4.36E+00	1.35E-02	2.20E-11
Avg		5.37E-02	5.04E-02	4.68E-02	4.35E-02	2.85E-02	6.08E-03	2.11E-05	7.74E-14
Std		2.71E-01	2.59E-01	2.51E-01	2.86E-01	2.90E-01	8.63E-02	2.72E-04	7.49E-13

ΣALL is total pathway dose summed for all nuclides.

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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		1.12E+00	1.08E+00	1.02E+00	1.03E+00	1.99E+00	6.57E-01	2.03E-03	5.50E-12
Avg		7.88E-03	7.37E-03	6.86E-03	6.47E-03	4.37E-03	9.34E-04	3.54E-06	1.38E-14
Std		4.14E-02	3.94E-02	3.83E-02	4.33E-02	4.56E-02	1.33E-02	4.46E-05	1.57E-13
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		1.12E+00	1.08E+00	1.02E+00	1.03E+00	1.99E+00	6.57E-01	2.03E-03	5.50E-12
Avg		7.88E-03	7.37E-03	6.86E-03	6.47E-03	4.37E-03	9.34E-04	3.54E-06	1.38E-14
Std		4.14E-02	3.94E-02	3.83E-02	4.33E-02	4.56E-02	1.33E-02	4.46E-05	1.57E-13

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

Nuclide	DOSE (i,j,t) , mrem/yr								
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.07E+00	1.01E+00	9.50E-01	1.83E+00	3.54E+00	1.17E+00	3.60E-03	7.12E-12
Avg		1.35E-02	1.26E-02	1.16E-02	1.09E-02	7.32E-03	1.57E-03	5.77E-06	2.10E-14
Std		6.62E-02	6.22E-02	6.00E-02	7.12E-02	7.86E-02	2.31E-02	7.56E-05	2.39E-13
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.07E+00	1.01E+00	9.50E-01	1.83E+00	3.54E+00	1.17E+00	3.60E-03	7.12E-12
Avg		1.35E-02	1.26E-02	1.16E-02	1.09E-02	7.32E-03	1.57E-03	5.77E-06	2.10E-14
Std		6.62E-02	6.22E-02	6.00E-02	7.12E-02	7.86E-02	2.31E-02	7.56E-05	2.39E-13

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
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	7.06E-04	1.39E-04	5.91E-07	3.31E-15
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-06	6.87E-07	1.74E-09	8.18E-18
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	7.37E-06	2.04E-08	9.54E-17
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	7.06E-04	1.39E-04	5.91E-07	3.31E-15
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-06	6.87E-07	1.74E-09	8.18E-18
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	7.37E-06	2.04E-08	9.54E-17

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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	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Sr-90									
Min		7.39E+00	4.85E-02	2.06E-06	1.04E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.00E+01	2.90E+01	2.73E+01	2.22E+01	9.71E+00	1.98E+00	9.50E-03	7.98E-11
Avg		2.68E+01	2.44E+01	2.09E+01	1.40E+01	3.77E+00	4.39E-01	6.96E-04	7.63E-13
Std		2.31E+00	4.66E+00	6.32E+00	6.84E+00	3.09E+00	5.09E-01	1.35E-03	4.09E-12
ΣALL									
Min		7.39E+00	4.85E-02	2.06E-06	1.04E-21	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		3.00E+01	2.90E+01	2.73E+01	2.22E+01	9.71E+00	1.98E+00	9.50E-03	7.98E-11
Avg		2.68E+01	2.44E+01	2.09E+01	1.40E+01	3.77E+00	4.39E-01	6.96E-04	7.63E-13
Std		2.31E+00	4.66E+00	6.32E+00	6.84E+00	3.09E+00	5.09E-01	1.35E-03	4.09E-12

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	DOSE (i,j,t), mrem/yr								
(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
Sr-90									
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		DOSE (i, j, t), mrem/yr							
(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
Sr-90									
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		DOSE (i, j, t), mrem/yr							
(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
Sr-90									
Min		3.52E-01	5.27E-03	2.24E-07	1.13E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.94E+01	1.81E+01	1.58E+01	1.06E+01	4.39E+00	7.91E-01	2.48E-03	1.28E-11
Avg		2.89E+00	2.63E+00	2.26E+00	1.51E+00	4.05E-01	4.71E-02	7.37E-05	8.13E-14
Std		1.59E+00	1.54E+00	1.45E+00	1.16E+00	4.30E-01	6.58E-02	1.64E-04	5.08E-13
ΣALL									
Min		3.52E-01	5.27E-03	2.24E-07	1.13E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.94E+01	1.81E+01	1.58E+01	1.06E+01	4.39E+00	7.91E-01	2.48E-03	1.28E-11
Avg		2.89E+00	2.63E+00	2.26E+00	1.51E+00	4.05E-01	4.71E-02	7.37E-05	8.13E-14
Std		1.59E+00	1.54E+00	1.45E+00	1.16E+00	4.30E-01	6.58E-02	1.64E-04	5.08E-13

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		DOSE (i,j,t), mrem/yr							
(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
Sr-90									
Min		4.89E-01	6.27E-03	2.67E-07	1.34E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.47E+01	1.26E+01	1.16E+01	8.96E+00	3.01E+00	5.48E-01	1.80E-03	8.62E-12
Avg		3.21E+00	2.92E+00	2.50E+00	1.67E+00	4.49E-01	5.23E-02	8.25E-05	8.82E-14
Std		1.49E+00	1.45E+00	1.39E+00	1.16E+00	4.49E-01	7.00E-02	1.76E-04	4.56E-13
ΣALL									
Min		4.89E-01	6.27E-03	2.67E-07	1.34E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.47E+01	1.26E+01	1.16E+01	8.96E+00	3.01E+00	5.48E-01	1.80E-03	8.62E-12
Avg		3.21E+00	2.92E+00	2.50E+00	1.67E+00	4.49E-01	5.23E-02	8.25E-05	8.82E-14
Std		1.49E+00	1.45E+00	1.39E+00	1.16E+00	4.49E-01	7.00E-02	1.76E-04	4.56E-13

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		DOSE (i,j,t), mrem/yr							
(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
Sr-90									
Min		4.10E-01	8.74E-03	6.50E-07	3.26E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.01E+01	1.87E+01	1.60E+01	1.03E+01	4.10E+00	7.02E-01	2.55E-03	1.55E-11
Avg		3.83E+00	3.48E+00	2.99E+00	1.99E+00	5.36E-01	6.23E-02	9.78E-05	1.09E-13
Std		2.12E+00	2.03E+00	1.92E+00	1.55E+00	5.74E-01	8.82E-02	2.23E-04	7.08E-13
ΣALL									
Min		4.10E-01	8.74E-03	6.50E-07	3.26E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.01E+01	1.87E+01	1.60E+01	1.03E+01	4.10E+00	7.02E-01	2.55E-03	1.55E-11
Avg		3.83E+00	3.48E+00	2.99E+00	1.99E+00	5.36E-01	6.23E-02	9.78E-05	1.09E-13
Std		2.12E+00	2.03E+00	1.92E+00	1.55E+00	5.74E-01	8.82E-02	2.23E-04	7.08E-13

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	2.75E+01	1.19E+01	2.58E+00	1.11E-02	3.70E-13	0.00E+00	0.00E+00	0.00E+00
0.050	3.00E+01	1.90E+01	7.14E+00	2.19E-01	4.37E-08	2.96E-21	0.00E+00	0.00E+00
0.075	3.14E+01	2.31E+01	1.16E+01	1.06E+00	2.05E-05	1.46E-14	0.00E+00	0.00E+00
0.100	3.21E+01	2.53E+01	1.48E+01	2.01E+00	3.98E-04	1.98E-11	0.00E+00	0.00E+00
0.125	3.26E+01	2.71E+01	1.73E+01	3.41E+00	3.24E-03	4.08E-09	3.25E-29	0.00E+00
0.150	3.30E+01	2.87E+01	1.96E+01	5.48E+00	1.77E-02	2.13E-07	5.18E-24	0.00E+00
0.175	3.33E+01	2.96E+01	2.21E+01	7.22E+00	6.06E-02	4.98E-06	5.65E-20	0.00E+00
0.200	3.37E+01	3.03E+01	2.37E+01	9.43E+00	1.64E-01	5.75E-05	1.14E-16	0.00E+00
0.225	3.39E+01	3.09E+01	2.51E+01	1.13E+01	3.13E-01	2.73E-04	1.11E-14	0.00E+00
0.250	3.42E+01	3.15E+01	2.62E+01	1.30E+01	5.28E-01	9.60E-04	5.40E-13	0.00E+00
0.275	3.45E+01	3.19E+01	2.71E+01	1.44E+01	8.37E-01	3.25E-03	1.98E-11	0.00E+00
0.300	3.47E+01	3.21E+01	2.78E+01	1.57E+01	1.22E+00	7.85E-03	2.97E-10	0.00E+00
0.325	3.49E+01	3.25E+01	2.86E+01	1.68E+01	1.63E+00	1.66E-02	2.91E-09	0.00E+00
0.350	3.52E+01	3.28E+01	2.91E+01	1.79E+01	2.01E+00	2.83E-02	1.53E-08	0.00E+00
0.375	3.54E+01	3.31E+01	2.96E+01	1.89E+01	2.47E+00	4.32E-02	5.46E-08	1.11E-28
0.400	3.56E+01	3.34E+01	3.00E+01	1.98E+01	2.92E+00	6.80E-02	2.03E-07	8.90E-27
0.425	3.59E+01	3.37E+01	3.03E+01	2.06E+01	3.41E+00	1.04E-01	6.87E-07	5.25E-25
0.450	3.61E+01	3.40E+01	3.06E+01	2.14E+01	3.97E+00	1.50E-01	2.44E-06	2.70E-23
0.475	3.64E+01	3.42E+01	3.08E+01	2.19E+01	4.57E+00	2.04E-01	5.67E-06	5.41E-22
0.500	3.67E+01	3.45E+01	3.12E+01	2.25E+01	5.16E+00	2.74E-01	1.37E-05	9.68E-21
0.525	3.69E+01	3.48E+01	3.15E+01	2.30E+01	5.60E+00	3.41E-01	2.78E-05	1.04E-19
0.550	3.71E+01	3.50E+01	3.18E+01	2.34E+01	6.06E+00	4.15E-01	5.26E-05	9.24E-19
0.575	3.74E+01	3.53E+01	3.21E+01	2.38E+01	6.57E+00	5.03E-01	8.13E-05	4.87E-18
0.600	3.77E+01	3.56E+01	3.23E+01	2.42E+01	6.90E+00	5.75E-01	1.38E-04	2.46E-17
0.625	3.79E+01	3.59E+01	3.26E+01	2.47E+01	7.26E+00	6.52E-01	1.97E-04	8.40E-17
0.650	3.82E+01	3.61E+01	3.29E+01	2.50E+01	7.68E+00	7.44E-01	2.91E-04	3.13E-16
0.675	3.85E+01	3.64E+01	3.32E+01	2.54E+01	8.08E+00	8.49E-01	4.33E-04	1.21E-15
0.700	3.88E+01	3.67E+01	3.36E+01	2.57E+01	8.44E+00	9.46E-01	5.98E-04	3.58E-15
0.725	3.91E+01	3.70E+01	3.39E+01	2.60E+01	8.77E+00	1.05E+00	7.90E-04	9.50E-15
0.750	3.94E+01	3.73E+01	3.43E+01	2.64E+01	9.13E+00	1.13E+00	1.00E-03	2.16E-14
0.775	3.97E+01	3.77E+01	3.47E+01	2.67E+01	9.43E+00	1.21E+00	1.24E-03	4.65E-14
0.800	4.01E+01	3.81E+01	3.50E+01	2.71E+01	9.74E+00	1.33E+00	1.61E-03	1.06E-13
0.825	4.06E+01	3.86E+01	3.55E+01	2.75E+01	1.00E+01	1.44E+00	2.01E-03	2.02E-13
0.850	4.12E+01	3.90E+01	3.60E+01	2.80E+01	1.03E+01	1.53E+00	2.50E-03	4.38E-13
0.875	4.17E+01	3.98E+01	3.66E+01	2.85E+01	1.07E+01	1.63E+00	2.99E-03	7.66E-13
0.900	4.26E+01	4.04E+01	3.73E+01	2.90E+01	1.10E+01	1.74E+00	3.61E-03	1.47E-12
0.925	4.35E+01	4.15E+01	3.81E+01	2.97E+01	1.14E+01	1.84E+00	4.29E-03	2.72E-12
0.950	4.47E+01	4.25E+01	3.93E+01	3.07E+01	1.17E+01	1.97E+00	5.27E-03	5.38E-12
0.975	4.70E+01	4.47E+01	4.13E+01	3.22E+01	1.26E+01	2.16E+00	6.81E-03	1.27E-11
1.000	6.10E+01	5.70E+01	4.98E+01	4.24E+01	3.23E+01	8.60E+00	2.64E-02	1.12E-10

Probabilistic results summary : RESRAD Default

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

Summary of dose at graphical times, reptition 1

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.09E+01	5.43E+01	3.68E+01	3.68E+01	4.27E+01	4.45E+01	4.70E+01	4.89E+01
1.00E+00	7.54E-02	5.20E+01	3.34E+01	3.45E+01	4.05E+01	4.25E+01	4.50E+01	4.67E+01
1.30E+00	1.63E-02	5.13E+01	3.25E+01	3.40E+01	4.00E+01	4.19E+01	4.45E+01	4.61E+01
1.70E+00	2.22E-03	5.04E+01	3.15E+01	3.33E+01	3.93E+01	4.13E+01	4.38E+01	4.54E+01
2.22E+00	1.65E-04	4.95E+01	3.03E+01	3.23E+01	3.85E+01	4.05E+01	4.31E+01	4.43E+01
2.89E+00	5.52E-06	4.84E+01	2.89E+01	3.13E+01	3.76E+01	3.95E+01	4.18E+01	4.32E+01
3.00E+00	3.25E-06	4.83E+01	2.87E+01	3.11E+01	3.73E+01	3.94E+01	4.16E+01	4.31E+01
3.78E+00	6.60E-08	4.71E+01	2.73E+01	3.00E+01	3.62E+01	3.83E+01	4.03E+01	4.20E+01
4.92E+00	2.05E-10	4.53E+01	2.54E+01	2.85E+01	3.46E+01	3.68E+01	3.86E+01	4.04E+01
6.42E+00	1.10E-13	4.31E+01	2.32E+01	2.66E+01	3.29E+01	3.48E+01	3.65E+01	3.87E+01
8.38E+00	5.95E-18	4.05E+01	2.09E+01	2.44E+01	3.07E+01	3.25E+01	3.40E+01	3.63E+01
1.00E+01	1.70E-21	3.84E+01	1.92E+01	2.26E+01	2.90E+01	3.08E+01	3.24E+01	3.45E+01
1.09E+01	1.62E-23	3.72E+01	1.83E+01	2.15E+01	2.81E+01	2.99E+01	3.13E+01	3.36E+01
1.43E+01	0.00E+00	3.34E+01	1.56E+01	1.84E+01	2.52E+01	2.69E+01	2.83E+01	3.01E+01
1.86E+01	0.00E+00	2.89E+01	1.28E+01	1.51E+01	2.19E+01	2.32E+01	2.47E+01	2.61E+01
2.42E+01	0.00E+00	2.40E+01	1.00E+01	1.15E+01	1.83E+01	1.92E+01	2.09E+01	2.18E+01
3.16E+01	0.00E+00	1.89E+01	7.41E+00	8.07E+00	1.45E+01	1.52E+01	1.66E+01	1.75E+01
4.05E+01	0.00E+00	1.45E+01	5.22E+00	5.30E+00	1.09E+01	1.16E+01	1.26E+01	1.35E+01
4.12E+01	0.00E+00	1.42E+01	5.07E+00	5.11E+00	1.07E+01	1.14E+01	1.23E+01	1.33E+01
5.38E+01	0.00E+00	1.04E+01	3.16E+00	2.81E+00	7.26E+00	7.76E+00	8.39E+00	9.26E+00
7.02E+01	0.00E+00	7.67E+00	1.74E+00	1.28E+00	4.36E+00	4.77E+00	5.15E+00	5.80E+00
9.15E+01	0.00E+00	4.08E+00	8.21E-01	4.58E-01	2.26E+00	2.52E+00	2.72E+00	3.11E+00
1.00E+02	0.00E+00	3.18E+00	6.13E-01	3.05E-01	1.74E+00	1.97E+00	2.14E+00	2.47E+00
1.19E+02	0.00E+00	1.79E+00	3.17E-01	1.20E-01	9.44E-01	1.10E+00	1.22E+00	1.40E+00
1.56E+02	0.00E+00	6.26E-01	9.49E-02	2.10E-02	3.08E-01	3.76E-01	4.29E-01	4.97E-01
2.03E+02	0.00E+00	1.75E-01	2.04E-02	2.16E-03	7.09E-02	9.23E-02	1.07E-01	1.28E-01
2.65E+02	0.00E+00	3.30E-02	2.89E-03	1.04E-04	1.06E-02	1.49E-02	1.76E-02	2.20E-02
3.00E+02	0.00E+00	1.28E-02	9.67E-04	1.85E-05	3.61E-03	5.32E-03	6.34E-03	8.05E-03
3.46E+02	0.00E+00	3.75E-03	2.38E-04	2.04E-06	8.71E-04	1.39E-03	1.68E-03	2.23E-03
4.51E+02	0.00E+00	2.20E-04	9.73E-06	1.33E-08	3.39E-05	6.26E-05	8.22E-05	1.11E-04
5.88E+02	0.00E+00	5.47E-06	1.62E-07	1.81E-11	5.01E-07	1.10E-06	1.57E-06	2.30E-06
7.67E+02	0.00E+00	4.40E-08	8.45E-10	3.25E-15	2.00E-09	5.60E-09	9.06E-09	1.45E-08
1.00E+03	0.00E+00	8.16E-11	9.69E-13	3.68E-20	1.50E-12	5.68E-12	1.09E-11	1.96E-11

Probabilistic results summary : RESRAD Default

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Summary of dose at graphical times, reptition 2

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.02E+01	5.44E+01	3.69E+01	3.66E+01	4.28E+01	4.52E+01	4.74E+01	4.92E+01
1.00E+00	1.64E-01	5.12E+01	3.35E+01	3.44E+01	4.08E+01	4.28E+01	4.52E+01	4.73E+01
1.30E+00	4.44E-02	5.02E+01	3.27E+01	3.40E+01	4.02E+01	4.23E+01	4.48E+01	4.67E+01
1.70E+00	8.06E-03	4.94E+01	3.17E+01	3.33E+01	3.95E+01	4.16E+01	4.42E+01	4.60E+01
2.22E+00	8.70E-04	4.85E+01	3.05E+01	3.25E+01	3.86E+01	4.09E+01	4.30E+01	4.52E+01
2.89E+00	4.78E-05	4.72E+01	2.90E+01	3.13E+01	3.75E+01	4.00E+01	4.19E+01	4.43E+01
3.00E+00	3.03E-05	4.71E+01	2.88E+01	3.12E+01	3.74E+01	3.99E+01	4.16E+01	4.42E+01
3.78E+00	1.08E-06	4.57E+01	2.74E+01	3.00E+01	3.63E+01	3.87E+01	4.02E+01	4.30E+01
4.92E+00	7.77E-09	4.38E+01	2.55E+01	2.83E+01	3.48E+01	3.71E+01	3.86E+01	4.14E+01
6.42E+00	1.24E-11	4.16E+01	2.33E+01	2.64E+01	3.29E+01	3.49E+01	3.66E+01	3.96E+01
8.38E+00	2.79E-15	3.90E+01	2.09E+01	2.40E+01	3.08E+01	3.27E+01	3.44E+01	3.70E+01
1.00E+01	2.60E-18	3.70E+01	1.92E+01	2.22E+01	2.91E+01	3.11E+01	3.27E+01	3.48E+01
1.09E+01	4.86E-20	3.59E+01	1.83E+01	2.12E+01	2.82E+01	3.01E+01	3.18E+01	3.36E+01
1.43E+01	3.02E-26	3.23E+01	1.56E+01	1.82E+01	2.54E+01	2.70E+01	2.87E+01	3.08E+01
1.86E+01	0.00E+00	3.08E+01	1.28E+01	1.46E+01	2.19E+01	2.36E+01	2.51E+01	2.69E+01
2.42E+01	0.00E+00	2.67E+01	9.97E+00	1.10E+01	1.83E+01	1.96E+01	2.10E+01	2.24E+01
3.16E+01	0.00E+00	2.16E+01	7.34E+00	7.63E+00	1.45E+01	1.55E+01	1.67E+01	1.79E+01
4.05E+01	0.00E+00	1.67E+01	5.16E+00	4.96E+00	1.11E+01	1.18E+01	1.27E+01	1.37E+01
4.12E+01	0.00E+00	1.64E+01	5.01E+00	4.77E+00	1.08E+01	1.16E+01	1.24E+01	1.33E+01
5.38E+01	0.00E+00	1.14E+01	3.11E+00	2.53E+00	7.30E+00	7.83E+00	8.54E+00	9.26E+00
7.02E+01	0.00E+00	7.12E+00	1.71E+00	1.11E+00	4.39E+00	4.79E+00	5.21E+00	5.78E+00
9.15E+01	0.00E+00	3.98E+00	8.07E-01	3.79E-01	2.27E+00	2.51E+00	2.79E+00	3.13E+00
1.00E+02	0.00E+00	3.17E+00	6.03E-01	2.49E-01	1.74E+00	1.95E+00	2.18E+00	2.45E+00
1.19E+02	0.00E+00	1.88E+00	3.12E-01	9.52E-02	9.54E-01	1.09E+00	1.26E+00	1.41E+00
1.56E+02	0.00E+00	7.02E-01	9.38E-02	1.56E-02	3.11E-01	3.74E-01	4.41E-01	5.14E-01
2.03E+02	0.00E+00	1.95E-01	2.03E-02	1.45E-03	7.07E-02	9.25E-02	1.16E-01	1.37E-01
2.65E+02	0.00E+00	3.67E-02	2.89E-03	6.73E-05	1.03E-02	1.49E-02	1.94E-02	2.38E-02
3.00E+02	0.00E+00	1.42E-02	9.74E-04	1.18E-05	3.49E-03	5.26E-03	7.13E-03	8.85E-03
3.46E+02	0.00E+00	4.19E-03	2.41E-04	1.22E-06	8.56E-04	1.38E-03	1.94E-03	2.48E-03
4.51E+02	0.00E+00	2.55E-04	1.01E-05	6.44E-09	3.28E-05	6.13E-05	9.59E-05	1.30E-04
5.88E+02	0.00E+00	6.63E-06	1.74E-07	6.13E-12	4.48E-07	1.03E-06	1.89E-06	2.87E-06
7.67E+02	0.00E+00	5.65E-08	9.94E-10	7.01E-16	1.72E-09	5.31E-09	1.13E-08	1.95E-08
1.00E+03	0.00E+00	1.12E-10	1.31E-12	4.74E-21	1.19E-12	5.62E-12	1.39E-11	2.89E-11

Probabilistic results summary : RESRAD Default

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Summary of dose at graphical times, reptition 3

Time Years	Dose statistics at graphical times, mrem/yr							
	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	1.19E+01	6.10E+01	3.69E+01	3.66E+01	4.23E+01	4.47E+01	4.67E+01	4.96E+01
1.00E+00	2.69E-01	5.70E+01	3.35E+01	3.46E+01	4.02E+01	4.23E+01	4.43E+01	4.69E+01
1.30E+00	8.43E-02	5.59E+01	3.26E+01	3.40E+01	3.98E+01	4.17E+01	4.37E+01	4.62E+01
1.70E+00	1.85E-02	5.44E+01	3.16E+01	3.34E+01	3.91E+01	4.09E+01	4.28E+01	4.56E+01
2.22E+00	2.57E-03	5.25E+01	3.04E+01	3.25E+01	3.84E+01	4.00E+01	4.19E+01	4.49E+01
2.89E+00	1.95E-04	5.02E+01	2.89E+01	3.14E+01	3.75E+01	3.89E+01	4.10E+01	4.37E+01
3.00E+00	1.31E-04	4.98E+01	2.87E+01	3.12E+01	3.73E+01	3.87E+01	4.08E+01	4.35E+01
3.78E+00	6.78E-06	4.73E+01	2.73E+01	3.01E+01	3.62E+01	3.75E+01	3.98E+01	4.23E+01
4.92E+00	8.46E-08	4.46E+01	2.54E+01	2.85E+01	3.47E+01	3.58E+01	3.84E+01	4.06E+01
6.42E+00	2.78E-10	4.27E+01	2.32E+01	2.66E+01	3.28E+01	3.41E+01	3.60E+01	3.78E+01
8.38E+00	1.60E-13	4.24E+01	2.09E+01	2.43E+01	3.06E+01	3.20E+01	3.38E+01	3.55E+01
1.00E+01	3.28E-16	4.24E+01	1.92E+01	2.27E+01	2.89E+01	3.04E+01	3.17E+01	3.38E+01
1.09E+01	9.57E-18	4.23E+01	1.83E+01	2.18E+01	2.79E+01	2.95E+01	3.08E+01	3.29E+01
1.43E+01	2.96E-23	4.19E+01	1.56E+01	1.87E+01	2.50E+01	2.65E+01	2.75E+01	2.93E+01
1.86E+01	1.45E-30	4.09E+01	1.28E+01	1.52E+01	2.16E+01	2.31E+01	2.40E+01	2.52E+01
2.42E+01	0.00E+00	3.91E+01	1.00E+01	1.15E+01	1.82E+01	1.94E+01	2.03E+01	2.10E+01
3.16E+01	0.00E+00	3.62E+01	7.38E+00	8.03E+00	1.44E+01	1.54E+01	1.61E+01	1.68E+01
4.05E+01	0.00E+00	3.23E+01	5.21E+00	5.22E+00	1.09E+01	1.17E+01	1.24E+01	1.32E+01
4.12E+01	0.00E+00	3.20E+01	5.06E+00	5.03E+00	1.06E+01	1.14E+01	1.21E+01	1.29E+01
5.38E+01	0.00E+00	2.64E+01	3.15E+00	2.70E+00	7.25E+00	7.91E+00	8.38E+00	9.05E+00
7.02E+01	0.00E+00	1.98E+01	1.74E+00	1.20E+00	4.35E+00	4.84E+00	5.14E+00	5.64E+00
9.15E+01	0.00E+00	1.10E+01	8.21E-01	4.23E-01	2.26E+00	2.58E+00	2.76E+00	3.09E+00
1.00E+02	0.00E+00	8.60E+00	6.14E-01	2.80E-01	1.75E+00	2.00E+00	2.15E+00	2.52E+00
1.19E+02	0.00E+00	4.91E+00	3.18E-01	1.06E-01	9.63E-01	1.12E+00	1.23E+00	1.46E+00
1.56E+02	0.00E+00	1.72E+00	9.56E-02	1.81E-02	3.15E-01	3.77E-01	4.41E-01	5.16E-01
2.03E+02	0.00E+00	4.36E-01	2.07E-02	1.70E-03	7.52E-02	9.19E-02	1.13E-01	1.39E-01
2.65E+02	0.00E+00	7.29E-02	2.96E-03	7.98E-05	1.10E-02	1.48E-02	1.92E-02	2.45E-02
3.00E+02	0.00E+00	2.64E-02	9.99E-04	1.35E-05	3.69E-03	5.22E-03	7.00E-03	9.18E-03
3.46E+02	0.00E+00	7.08E-03	2.48E-04	1.38E-06	9.17E-04	1.36E-03	1.89E-03	2.55E-03
4.51E+02	0.00E+00	3.38E-04	1.04E-05	7.27E-09	3.61E-05	5.92E-05	9.13E-05	1.33E-04
5.88E+02	0.00E+00	6.41E-06	1.77E-07	7.99E-12	5.22E-07	1.01E-06	1.75E-06	2.84E-06
7.67E+02	0.00E+00	5.28E-08	9.60E-10	1.13E-15	2.09E-09	5.16E-09	9.97E-09	1.90E-08
1.00E+03	0.00E+00	1.08E-10	1.18E-12	8.06E-21	1.54E-12	5.21E-12	1.22E-11	2.77E-11

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	3.679E+01
2	0.000E+00	3.687E+01
3	0.000E+00	3.686E+01

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	14	-0.06	14	-0.03	19	-0.04	19	-0.02
Density of contaminated zone	8	0.32	8	0.15	6	0.39	6	0.18
Contaminated zone erosion rate	19	0.04	19	0.02	27	-0.02	27	-0.01
Contaminated zone total porosity	6	-0.39	6	-0.18	5	-0.41	5	-0.19
Contaminated zone hydraulic conductivity	20	0.03	20	0.02	26	0.02	26	0.01
Contaminated zone b parameter	38	0.00	38	0.00	36	0.01	36	0.00
Evapotranspiration coefficient	24	0.03	24	0.01	32	0.01	32	0.01
Wind Speed	22	-0.03	22	-0.01	35	0.01	35	0.00
Runoff coefficient	30	0.02	30	0.01	25	-0.02	25	-0.01
Density of saturated zone	34	-0.01	34	0.00	40	0.00	40	0.00
Saturated zone total porosity	28	-0.02	29	-0.01	29	-0.02	29	-0.01
Saturated zone effective porosity	13	0.06	13	0.03	30	0.02	30	0.01
Saturated zone hydraulic conductivity	5	-0.47	5	-0.23	7	-0.36	7	-0.17
Saturated zone hydraulic gradient	2	-0.73	2	-0.46	4	-0.58	4	-0.31
Well pump intake depth	11	-0.07	11	-0.03	38	0.01	38	0.00
Mass loading for inhalation	39	0.00	39	0.00	39	-0.01	39	0.00
Indoor dust filtration factor	37	-0.01	37	0.00	23	-0.03	23	-0.01
External gamma shielding factor	21	-0.03	21	-0.01	31	0.01	31	0.01
Depth of soil mixing layer	25	-0.03	26	-0.01	22	-0.03	22	-0.01
Depth of roots	12	0.07	12	0.03	33	0.01	33	0.01
Wet weight crop yield of fruit, grain and non-leafy vegetables	9	-0.22	9	-0.10	9	-0.25	9	-0.11
Weathering removal constant of all vegetation	1	-0.73	1	-0.47	1	-0.80	1	-0.57
Wet foliar interception fraction of leafy vegetables	10	0.18	10	0.08	10	0.23	10	0.10
Plant transfer factor for Co	26	-0.03	25	-0.01	41	0.00	41	0.00
Meat transfer factor for Co	32	0.01	32	0.01	14	0.05	14	0.02
Milk transfer factor for Co	18	-0.04	18	-0.02	24	-0.02	24	-0.01
Plant transfer factor for Cs	27	-0.02	27	-0.01	28	-0.02	28	-0.01
Meat transfer factor for Cs	36	-0.01	36	0.00	18	0.04	18	0.02
Milk transfer factor for Cs	33	-0.01	33	-0.01	21	-0.03	21	-0.01
Plant transfer factor for Eu	17	-0.05	17	-0.02	12	-0.05	12	-0.02
Meat transfer factor for Eu	35	0.01	35	0.00	11	0.05	11	0.02
Milk transfer factor for Eu	23	-0.03	23	-0.01	13	-0.05	13	-0.02
Plant transfer factor for H	31	0.02	31	0.01	17	0.04	17	0.02
Meat transfer factor for H	41	0.00	41	0.00	16	0.04	16	0.02
Milk transfer factor for H	15	0.05	15	0.02	20	0.03	20	0.02
Plant transfer factor for Ni	40	0.00	40	0.00	37	0.01	37	0.00
Meat transfer factor for Ni	29	-0.02	28	-0.01	34	0.01	34	0.01
Milk transfer factor for Ni	16	0.05	16	0.02	15	0.04	15	0.02
Plant transfer factor for Sr	7	0.34	7	0.16	8	0.31	8	0.14
Meat transfer factor for Sr	4	0.55	4	0.29	3	0.58	3	0.31
Milk transfer factor for Sr	3	0.66	3	0.38	2	0.68	2	0.40
R-SQUARE		0.81		0.81		0.81		0.81

-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	28	0.02	28	0.01	19	0.04	19	0.02
Density of contaminated zone	7	0.37	7	0.16	6	0.38	6	0.18
Contaminated zone erosion rate	34	0.01	33	0.00	29	0.02	29	0.01
Contaminated zone total porosity	6	-0.41	6	-0.18	5	-0.39	5	-0.19
Contaminated zone hydraulic conductivity	37	-0.01	37	0.00	32	-0.01	32	-0.01
Contaminated zone b parameter	30	-0.02	30	-0.01	35	0.01	35	0.00
Evapotranspiration coefficient	35	-0.01	35	0.00	36	-0.01	36	0.00
Wind Speed	21	-0.04	21	-0.02	16	-0.05	16	-0.02
Runoff coefficient	29	-0.02	29	-0.01	39	0.00	39	0.00
Density of saturated zone	14	-0.07	14	-0.03	13	-0.06	13	-0.03
Saturated zone total porosity	17	0.05	17	0.02	15	0.05	15	0.02
Saturated zone effective porosity	18	-0.05	18	-0.02	38	-0.01	38	0.00
Saturated zone hydraulic conductivity	5	-0.49	5	-0.23	7	-0.36	7	-0.17
Saturated zone hydraulic gradient	2	-0.76	2	-0.46	4	-0.56	4	-0.30
Well pump intake depth	39	0.00	39	0.00	22	-0.03	22	-0.01
Mass loading for inhalation	25	0.02	25	0.01	28	0.02	28	0.01
Indoor dust filtration factor	13	0.07	13	0.03	11	0.08	11	0.03
External gamma shielding factor	20	-0.04	20	-0.02	27	0.03	27	0.01
Depth of soil mixing layer	36	-0.01	36	0.00	25	-0.03	25	-0.01
Depth of roots	26	0.02	26	0.01	18	0.05	18	0.02
Wet weight crop yield of fruit, grain and non-leafy vegetables	10	-0.24	10	-0.10	10	-0.17	10	-0.07
Weathering removal constant of all vegetation	1	-0.77	1	-0.48	1	-0.79	1	-0.56
Wet foliar interception fraction of leafy vegetables	9	0.25	9	0.10	9	0.21	9	0.09
Plant transfer factor for Co	32	0.01	32	0.00	21	0.03	21	0.01
Meat transfer factor for Co	16	0.06	16	0.02	12	0.06	12	0.03
Milk transfer factor for Co	12	-0.07	12	-0.03	37	-0.01	37	0.00
Plant transfer factor for Cs	38	-0.01	38	0.00	33	0.01	33	0.01
Meat transfer factor for Cs	33	-0.01	34	0.00	41	0.00	41	0.00
Milk transfer factor for Cs	24	-0.02	24	-0.01	31	-0.02	31	-0.01
Plant transfer factor for Eu	22	-0.04	22	-0.02	14	-0.06	14	-0.02
Meat transfer factor for Eu	11	-0.09	11	-0.04	26	-0.03	26	-0.01
Milk transfer factor for Eu	27	0.02	27	0.01	24	0.03	24	0.01
Plant transfer factor for H	19	0.04	19	0.02	30	0.02	30	0.01
Meat transfer factor for H	31	0.01	31	0.01	17	0.05	17	0.02
Milk transfer factor for H	15	-0.06	15	-0.02	23	0.03	23	0.01
Plant transfer factor for Ni	41	0.00	41	0.00	20	0.04	20	0.02
Meat transfer factor for Ni	40	0.00	40	0.00	34	0.01	34	0.01
Milk transfer factor for Ni	23	-0.04	23	-0.01	40	0.00	40	0.00
Plant transfer factor for Sr	8	0.33	8	0.14	8	0.28	8	0.13
Meat transfer factor for Sr	4	0.59	4	0.29	3	0.57	3	0.31
Milk transfer factor for Sr	3	0.72	3	0.42	2	0.67	2	0.40
R-SQUARE	0.84		0.84		0.81		0.81	

-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	29	0.02	29	0.01	15	0.04	15	0.02
Density of contaminated zone	6	0.40	6	0.19	5	0.41	5	0.19
Contaminated zone erosion rate	17	0.04	17	0.02	26	0.02	26	0.01
Contaminated zone total porosity	8	-0.31	8	-0.14	6	-0.36	6	-0.17
Contaminated zone hydraulic conductivity	27	-0.02	27	-0.01	24	0.02	24	0.01
Contaminated zone b parameter	30	0.02	30	0.01	20	-0.03	20	-0.01
Evapotranspiration coefficient	26	-0.02	26	-0.01	14	-0.04	14	-0.02
Wind Speed	33	-0.01	33	0.00	39	0.00	39	0.00
Runoff coefficient	35	-0.01	35	0.00	11	0.05	11	0.02
Density of saturated zone	36	0.01	36	0.00	29	-0.01	29	-0.01
Saturated zone total porosity	18	0.04	18	0.02	37	0.00	37	0.00
Saturated zone effective porosity	37	-0.01	37	0.00	32	0.01	32	0.01
Saturated zone hydraulic conductivity	7	-0.40	7	-0.19	7	-0.35	7	-0.16
Saturated zone hydraulic gradient	2	-0.70	2	-0.41	3	-0.59	3	-0.32
Well pump intake depth	31	-0.01	31	-0.01	40	0.00	40	0.00
Mass loading for inhalation	22	-0.03	22	-0.01	38	0.00	38	0.00
Indoor dust filtration factor	21	-0.03	21	-0.01	41	0.00	41	0.00
External gamma shielding factor	20	0.04	20	0.01	19	0.03	19	0.01
Depth of soil mixing layer	24	0.02	24	0.01	22	0.03	22	0.01
Depth of roots	15	0.04	15	0.02	33	0.01	33	0.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	10	-0.17	10	-0.07	9	-0.23	9	-0.10
Weathering removal constant of all vegetation	1	-0.76	1	-0.49	1	-0.80	1	-0.57
Wet foliar interception fraction of leafy vegetables	9	0.21	9	0.09	10	0.20	10	0.09
Plant transfer factor for Co	41	0.00	41	0.00	27	-0.02	27	-0.01
Meat transfer factor for Co	14	0.04	14	0.02	13	0.05	13	0.02
Milk transfer factor for Co	16	0.04	16	0.02	36	-0.01	36	0.00
Plant transfer factor for Cs	23	0.03	23	0.01	12	0.05	12	0.02
Meat transfer factor for Cs	32	-0.01	32	-0.01	17	-0.04	17	-0.02
Milk transfer factor for Cs	11	0.06	11	0.03	31	0.01	31	0.01
Plant transfer factor for Eu	39	0.00	39	0.00	30	-0.01	30	-0.01
Meat transfer factor for Eu	40	0.00	40	0.00	21	0.03	21	0.01
Milk transfer factor for Eu	12	-0.05	12	-0.02	35	-0.01	35	0.00
Plant transfer factor for H	34	0.01	34	0.00	18	0.04	18	0.02
Meat transfer factor for H	38	0.01	38	0.00	16	-0.04	16	-0.02
Milk transfer factor for H	28	-0.02	28	-0.01	25	-0.02	25	-0.01
Plant transfer factor for Ni	19	0.04	19	0.02	34	-0.01	34	0.00
Meat transfer factor for Ni	25	-0.02	25	-0.01	23	0.02	23	0.01
Milk transfer factor for Ni	13	-0.05	13	-0.02	28	0.02	28	0.01
Plant transfer factor for Sr	5	0.41	5	0.19	8	0.29	8	0.13
Meat transfer factor for Sr	4	0.57	4	0.29	4	0.59	4	0.32
Milk transfer factor for Sr	3	0.68	3	0.40	2	0.68	2	0.40
R-SQUARE		0.82		0.82		0.81		0.81

-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.