

Probabilistic results summary : RESRAD Default

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Probabilistic Input

Number of Sample Runs: 3000

Number	Name	Distribution	Parameters							
1	DENSCV	TRUNCATED NORMAL	1.51	.159	.001	.999				
2	VCZ	CONTINUOUS LOGARITHMIC4		5.E-8	0	.0007	.22	.005	.95	.2
3	TPCZ	TRUNCATED NORMAL	.43	.06	.001	.999				
4	HCCZ	LOGUNIFORM	786	17000						
5	BCZ	TRUNCATED LOGNORMAL-N	-.0235	.216	.001	.999				
6	EVAPTR	UNIFORM	.5	.75						
7	WIND	BOUNDED LOGNORMAL-N	1.445	.2419	1.4	13				
8	RUNOFF	UNIFORM	.1	.8						
9	DENSAQ	TRUNCATED NORMAL	1.51	.16	.001	.999				
10	TPSZ	TRUNCATED NORMAL	.43	.06	.001	.999				
11	EPSZ	TRUNCATED NORMAL	.383	.061	.001	.999				
12	HCSZ	LOGUNIFORM	786	17000						
13	HGWT	BOUNDED LOGNORMAL-N	-5.11	1.77	.00007	.5				
14	DWIBWT	TRIANGULAR	6	10	30					
15	MLINH	CONTINUOUS LINEAR	8	0	0	.000008	.0151	.000016	.1365	.00003
16	DM	TRIANGULAR	0	.15	.6					
17	DROOT	UNIFORM	.3	4						
18	WLAM	TRIANGULAR	5.1	18	84					
19	YV (1)	TRUNCATED LOGNORMAL-N	.56	.48	.001	.999				
20	RWET (2)	TRIANGULAR	.06	.67	.95					
21	SHF3	UNIFORM	.15	.95						
22	SHF1	BOUNDED LOGNORMAL-N	-1.3	.59	.044	1				
23	VCV	CONTINUOUS LOGARITHMIC4		5.E-8	0	.0007	.22	.005	.95	.2
24	TPUZ (1)	TRUNCATED NORMAL	.43	.06	.001	.999				
25	EPUZ (1)	TRUNCATED NORMAL	.383	.061	.001	.999				
26	HCUZ (1)	LOGUNIFORM	786	17000						
27	BUZ (1)	TRUNCATED LOGNORMAL-N	-.0253	.216	.001	.999				
28	BRTF (27, 1)	LOGNORMAL-N	-2.53	.916291						
29	BRTF (27, 2)	LOGNORMAL-N	-3.51	1.029619						
30	BRTF (27, 3)	LOGNORMAL-N	-6.21	.7						
31	BRTF (55, 1)	LOGNORMAL-N	-3.22	.993252						
32	BRTF (55, 2)	LOGNORMAL-N	-3	.405465						
33	BRTF (55, 3)	LOGNORMAL-N	-4.61	.47						
34	BRTF (28, 1)	LOGNORMAL-N	-3	.916291						
35	BRTF (28, 2)	LOGNORMAL-N	-5.3	.916291						
36	BRTF (28, 3)	LOGNORMAL-N	-3.91	.69315						
37	BRTF (38, 1)	LOGNORMAL-N	-1.2	.993252						
38	BRTF (38, 2)	LOGNORMAL-N	-4.61	.405465						
39	BRTF (38, 3)	LOGNORMAL-N	-6.21	.47						
40	DENSCZ	TRUNCATED NORMAL	1.51	.16	.001	.999				
41	DENSUZ (1)	TRUNCATED NORMAL	1.51	.16	.001	.999				
42	DCACTC (2)	UNIFORM	615	635						
43	DCACTS (2)	UNIFORM	615	635						
44	DCACTC (3)	UNIFORM	615	635						
45	DCACTS (3)	UNIFORM	615	635						
46	DCACTC (4)	UNIFORM	62	331						
47	DCACTS (4)	UNIFORM	62	331						
48	DCACTC (5)	UNIFORM	2.3	3.4						

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Probabilistic Input (cont.)

Number	Name	Distribution	Parameters	
49	DCACTS (5)	UNIFORM	2.3	3.4
50	DCACTU1 (5)	UNIFORM	2.3	3.4
51	DCACTU1 (4)	UNIFORM	62	331
52	DCACTU1 (3)	UNIFORM	615	635
53	DCACTU1 (2)	UNIFORM	615	635

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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
Co-60											
Min	0.00E+00	3.78E-04	3.78E-04	3.32E-04	2.56E-04	1.02E-04	5.58E-08	1.47E-12	0.00E+00	0.00E+00	
Max	5.13E+01	6.66E-01	1.65E-01	1.48E-01	1.17E-01	1.19E-01	4.65E-02	1.67E-05	6.56E-17	0.00E+00	
Avg	4.13E-01	5.44E-03	3.42E-03	3.05E-03	2.43E-03	1.16E-03	3.01E-04	2.08E-07	1.06E-18	0.00E+00	
Std	3.50E+00	2.87E-02	1.17E-02	1.05E-02	8.39E-03	4.75E-03	2.68E-03	1.32E-06	5.44E-18	0.00E+00	
Cs-134											
Min	0.00E+00	1.87E-03	1.87E-03	1.33E-03	6.83E-04	6.53E-05	2.87E-11	9.95E-24	0.00E+00	0.00E+00	
Max	8.69E+00	1.49E+00	1.49E+00	1.07E+00	5.56E-01	5.53E-02	7.43E-06	1.61E-14	0.00E+00	0.00E+00	
Avg	1.09E-02	8.35E-03	8.34E-03	6.01E-03	3.13E-03	3.25E-04	5.27E-08	1.81E-16	0.00E+00	0.00E+00	
Std	2.53E-01	3.23E-02	3.23E-02	2.33E-02	1.22E-02	1.25E-03	3.85E-07	1.04E-15	0.00E+00	0.00E+00	
Cs-137											
Min	0.00E+00	1.47E-03	1.47E-03	1.44E-03	1.37E-03	1.17E-03	7.05E-06	2.87E-10	0.00E+00	0.00E+00	
Max	2.27E+02	1.41E+00	1.18E+00	1.17E+00	1.13E+00	1.00E+00	1.34E+00	4.16E-01	3.73E-03	2.58E-10	
Avg	3.39E+00	1.80E-02	6.62E-03	6.52E-03	6.35E-03	5.89E-03	9.12E-03	3.70E-03	4.86E-05	9.96E-12	
Std	1.76E+01	8.95E-02	2.57E-02	2.53E-02	2.47E-02	2.27E-02	5.84E-02	2.03E-02	2.07E-04	2.53E-11	
Ni-63											
Min	0.00E+00	3.72E-05	3.41E-05	3.39E-05	3.34E-05	7.85E-08	1.33E-20	0.00E+00	0.00E+00	0.00E+00	
Max	6.87E+02	2.45E-02	2.57E-03	3.81E-03	6.27E-03	9.74E-03	2.32E-02	1.43E-02	2.84E-03	1.85E-05	
Avg	1.20E+01	3.07E-04	2.04E-04	2.03E-04	2.02E-04	2.00E-04	2.01E-04	1.45E-04	3.43E-05	2.60E-07	
Std	4.77E+01	8.96E-04	2.25E-04	2.33E-04	2.59E-04	3.33E-04	6.45E-04	4.90E-04	1.04E-04	8.51E-07	
Sr-90											
Min	0.00E+00	1.01E-01	1.01E-01	2.39E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Max	2.72E+01	1.02E+01	8.03E+00	9.01E+00	1.00E+01	5.13E+00	1.26E+00	1.20E-01	3.27E-04	9.98E-13	
Avg	5.72E-01	1.95E+00	1.93E+00	1.73E+00	1.42E+00	8.25E-01	1.36E-01	7.73E-03	3.61E-06	3.48E-16	
Std	1.58E+00	8.17E-01	8.02E-01	8.72E-01	9.03E-01	7.61E-01	2.20E-01	1.95E-02	2.47E-05	1.82E-14	
ΣALL											
Min	0.00E+00	1.07E-01	1.07E-01	3.85E-03	2.65E-03	1.45E-03	7.44E-06	2.89E-10	0.00E+00	0.00E+00	
Max	2.74E+01	1.04E+01	8.19E+00	9.19E+00	1.02E+01	5.27E+00	1.85E+00	4.67E-01	4.14E-03	1.85E-05	
Avg	5.53E-01	1.97E+00	1.94E+00	1.74E+00	1.43E+00	8.32E-01	1.46E-01	1.16E-02	8.65E-05	2.60E-07	
Std	1.56E+00	8.27E-01	8.12E-01	8.79E-01	9.07E-01	7.63E-01	2.29E-01	2.87E-02	2.74E-04	8.51E-07	

ΣALL is total dose summed for all nuclides.

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Probabilistic Risk Summary

Nuclide (j)	RISK(j, t)								
	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	
Co-60									
Min	7.21E-09	6.33E-09	4.87E-09	1.95E-09	1.11E-12	3.08E-17	0.00E+00	0.00E+00	
Max	4.35E-06	3.88E-06	3.08E-06	3.17E-06	1.14E-06	4.09E-10	1.61E-21	0.00E+00	
Avg	8.43E-08	7.51E-08	5.98E-08	2.88E-08	7.33E-09	5.10E-12	2.62E-23	0.00E+00	
Std	3.10E-07	2.75E-07	2.20E-07	1.24E-07	6.54E-08	3.25E-11	1.34E-22	0.00E+00	
Cs-134									
Min	3.90E-08	2.79E-08	1.43E-08	1.36E-09	6.49E-16	1.77E-28	0.00E+00	0.00E+00	
Max	3.68E-05	2.65E-05	1.37E-05	1.37E-06	1.92E-10	4.07E-19	0.00E+00	1.03E-38	
Avg	1.90E-07	1.37E-07	7.14E-08	7.47E-09	1.33E-12	4.63E-21	0.00E+00	4.28E-42	
Std	7.98E-07	5.75E-07	3.00E-07	3.09E-08	1.01E-11	2.71E-20	0.00E+00	0.00E+00	
Cs-137									
Min	2.80E-08	2.74E-08	2.61E-08	2.23E-08	1.46E-10	5.94E-15	0.00E+00	0.00E+00	
Max	2.68E-05	2.64E-05	2.55E-05	2.27E-05	3.04E-05	9.44E-06	8.47E-08	5.84E-15	
Avg	1.38E-07	1.36E-07	1.32E-07	1.24E-07	2.01E-07	8.26E-08	1.09E-09	2.25E-16	
Std	5.81E-07	5.72E-07	5.57E-07	5.13E-07	1.32E-06	4.58E-07	4.70E-09	5.73E-16	
Ni-63									
Min	1.25E-09	1.24E-09	1.23E-09	4.47E-12	7.56E-25	0.00E+00	0.00E+00	0.00E+00	
Max	1.24E-07	1.50E-07	2.73E-07	4.77E-07	1.15E-06	7.10E-07	1.41E-07	9.18E-10	
Avg	8.27E-09	8.25E-09	8.22E-09	8.23E-09	8.70E-09	6.43E-09	1.56E-09	1.23E-11	
Std	1.05E-08	1.08E-08	1.20E-08	1.62E-08	3.17E-08	2.43E-08	5.17E-09	4.21E-11	
Sr-90									
Min	1.14E-05	1.10E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Max	1.33E-04	1.54E-04	1.80E-04	9.90E-05	2.31E-05	1.95E-06	4.93E-09	1.56E-17	
Avg	3.06E-05	2.75E-05	2.25E-05	1.29E-05	2.11E-06	1.19E-07	5.54E-11	5.43E-21	
Std	1.26E-05	1.33E-05	1.40E-05	1.18E-05	3.39E-06	3.00E-07	3.78E-10	2.84E-19	
ΣALL									
Min	1.15E-05	7.89E-08	5.47E-08	2.88E-08	1.54E-10	5.97E-15	0.00E+00	0.00E+00	
Max	1.36E-04	1.58E-04	1.84E-04	1.02E-04	3.67E-05	1.03E-05	1.66E-07	9.18E-10	
Avg	3.10E-05	2.79E-05	2.27E-05	1.31E-05	2.33E-06	2.08E-07	2.71E-09	1.23E-11	
Std	1.29E-05	1.35E-05	1.41E-05	1.19E-05	3.69E-06	5.67E-07	8.47E-09	4.21E-11	

ΣALL is total risk summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Ground External

Nuclide (j)	DOSE(i,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
Co-60								
Min	1.55E-24	1.36E-24	1.05E-24	4.25E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.39E-12	1.22E-12	1.73E-12	1.02E-07	4.51E-02	1.61E-05	6.45E-17	0.00E+00
Avg	3.00E-15	2.78E-15	3.58E-15	7.36E-11	2.65E-04	1.85E-07	9.26E-19	0.00E+00
Std	3.78E-14	3.39E-14	5.22E-14	2.23E-09	2.59E-03	1.27E-06	5.24E-18	0.00E+00
Cs-134								
Min	1.74E-29	1.25E-29	6.39E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.55E-15	1.82E-15	1.86E-15	2.57E-10	5.69E-06	9.78E-15	0.00E+00	0.00E+00
Avg	4.45E-18	3.35E-18	3.23E-18	1.75E-13	3.44E-08	1.23E-16	0.00E+00	0.00E+00
Std	6.76E-17	4.95E-17	5.50E-17	5.55E-12	3.37E-07	8.46E-16	0.00E+00	0.00E+00
Cs-137								
Min	1.74E-30	1.70E-30	1.63E-30	1.40E-30	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.02E-16	4.90E-16	1.00E-15	1.68E-09	7.52E-01	1.56E-01	1.85E-03	1.70E-10
Avg	8.56E-19	8.81E-19	1.65E-18	1.14E-12	4.55E-03	1.96E-03	2.43E-05	5.75E-12
Std	1.33E-17	1.33E-17	2.90E-17	3.62E-11	4.45E-02	1.35E-02	1.42E-04	1.86E-11
Ni-63								
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
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	4.94E-22	3.43E-22	1.99E-22	6.11E-15	3.80E-04	2.11E-05	2.88E-10	2.75E-26
Avg	7.19E-25	5.83E-25	5.49E-25	2.73E-18	8.03E-07	1.86E-08	1.66E-13	9.45E-30
Std	1.31E-23	9.90E-24	7.94E-24	1.16E-16	1.36E-05	4.50E-07	5.63E-12	0.00E+00
ΣALL								
Min	1.55E-24	1.36E-24	1.05E-24	4.25E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.39E-12	1.22E-12	1.74E-12	1.04E-07	7.97E-01	1.57E-01	1.85E-03	1.70E-10
Avg	3.01E-15	2.78E-15	3.58E-15	7.49E-11	4.81E-03	1.96E-03	2.43E-05	5.75E-12
Std	3.78E-14	3.40E-14	5.23E-14	2.27E-09	4.71E-02	1.35E-02	1.42E-04	1.86E-11

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-08	1.21E-11	4.34E-23	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-11	6.48E-14	3.33E-25	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-10	5.18E-13	2.16E-24	0.00E+00
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	8.13E-13	3.07E-21	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-15	1.57E-23	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-14	1.28E-22	0.00E+00	0.00E+00
Cs-137								
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	2.06E-07	9.38E-08	8.48E-10	4.80E-17
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-10	4.82E-10	6.20E-12	1.45E-18
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-08	3.92E-09	4.27E-11	4.98E-18
Ni-63								
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	7.44E-08	8.34E-08	1.56E-08	6.46E-11
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-10	3.68E-10	9.46E-11	9.22E-13
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-09	3.22E-09	7.46E-10	4.08E-12
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	6.75E-07	3.76E-08	5.11E-13	3.56E-29
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-09	2.50E-11	3.59E-16	1.19E-32
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-08	7.19E-10	1.12E-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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-07	1.77E-07	1.63E-08	6.46E-11
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-09	8.75E-10	1.01E-10	9.22E-13
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-08	7.30E-09	7.87E-10	4.08E-12

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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
Cs-137								
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
Ni-63								
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
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\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.54E-01	1.38E-01	1.09E-01	1.06E-01	3.26E-03	2.13E-06	7.07E-18	0.00E+00
Avg	2.31E-03	2.07E-03	1.67E-03	8.37E-04	2.90E-05	1.87E-08	1.16E-19	0.00E+00
Std	1.08E-02	9.57E-03	7.68E-03	4.32E-03	1.47E-04	9.03E-08	4.22E-19	0.00E+00
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	1.13E+00	8.12E-01	4.20E-01	4.18E-02	2.65E-06	8.88E-15	0.00E+00	0.00E+00
Avg	3.29E-03	2.39E-03	1.27E-03	1.43E-04	1.05E-08	3.72E-17	0.00E+00	0.00E+00
Std	2.52E-02	1.82E-02	9.48E-03	9.81E-04	7.82E-08	2.78E-16	0.00E+00	0.00E+00
Cs-137								
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	8.96E-01	8.81E-01	8.52E-01	7.57E-01	6.65E-01	2.69E-01	2.35E-03	1.87E-10
Avg	2.61E-03	2.60E-03	2.58E-03	2.59E-03	2.62E-03	1.13E-03	1.70E-05	3.16E-12
Std	2.00E-02	1.97E-02	1.92E-02	1.78E-02	1.96E-02	8.40E-03	8.88E-05	1.01E-11
Ni-63								
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	1.77E-03	2.92E-03	5.16E-03	8.33E-03	1.37E-02	8.45E-03	1.67E-03	1.29E-05
Avg	3.33E-05	3.39E-05	3.55E-05	4.16E-05	6.79E-05	5.92E-05	1.65E-05	1.53E-07
Std	1.50E-04	1.58E-04	1.82E-04	2.58E-04	4.43E-04	3.46E-04	7.44E-05	6.11E-07
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	5.89E+00	6.99E+00	8.22E+00	4.13E+00	8.64E-01	3.31E-02	6.54E-06	1.69E-19
Avg	4.90E-02	4.00E-02	3.11E-02	1.57E-02	1.96E-03	5.71E-05	2.73E-09	6.11E-23
Std	2.73E-01	2.49E-01	2.32E-01	1.27E-01	2.23E-02	9.47E-04	1.20E-07	3.10E-21
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	6.01E+00	7.12E+00	8.37E+00	4.24E+00	9.49E-01	2.86E-01	2.55E-03	1.29E-05
Avg	5.72E-02	4.71E-02	3.67E-02	1.93E-02	4.68E-03	1.24E-03	3.36E-05	1.53E-07
Std	2.92E-01	2.63E-01	2.43E-01	1.34E-01	3.15E-02	8.81E-03	1.37E-04	6.11E-07

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	2.81E-02	2.46E-02	1.89E-02	1.10E-02	2.47E-04	4.21E-07	1.37E-18	0.00E+00
Avg	1.56E-04	1.39E-04	1.13E-04	5.92E-05	2.08E-06	1.44E-09	8.69E-21	0.00E+00
Std	9.86E-04	8.76E-04	6.97E-04	4.05E-04	1.24E-05	1.05E-08	4.36E-20	0.00E+00
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	5.36E-02	3.85E-02	1.99E-02	1.99E-03	2.13E-07	5.33E-16	0.00E+00	0.00E+00
Avg	2.52E-04	1.84E-04	9.89E-05	1.13E-05	1.00E-09	3.54E-18	0.00E+00	0.00E+00
Std	1.62E-03	1.17E-03	6.27E-04	6.78E-05	6.97E-09	2.16E-17	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.25E-02	4.18E-02	4.05E-02	3.60E-02	5.34E-02	1.62E-02	1.42E-04	1.39E-11
Avg	2.00E-04	2.00E-04	2.01E-04	2.05E-04	2.51E-04	1.07E-04	1.53E-06	3.05E-13
Std	1.28E-03	1.27E-03	1.27E-03	1.23E-03	1.75E-03	6.54E-04	6.73E-06	9.13E-13
Ni-63								
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	7.32E-05	7.36E-05	7.42E-05	7.58E-05	2.21E-04	1.11E-04	8.85E-05	3.86E-07
Avg	4.26E-07	4.31E-07	4.44E-07	5.03E-07	8.95E-07	8.01E-07	2.54E-07	2.35E-09
Std	2.91E-06	2.94E-06	3.03E-06	3.48E-06	6.74E-06	5.09E-06	2.05E-06	1.36E-08
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	9.95E-02	1.16E-01	1.37E-01	7.00E-02	8.43E-03	1.11E-03	8.68E-08	2.25E-21
Avg	8.13E-04	6.57E-04	5.05E-04	2.47E-04	3.03E-05	1.06E-06	3.81E-11	8.47E-25
Std	4.91E-03	4.33E-03	4.00E-03	2.17E-03	3.13E-04	2.26E-05	1.60E-09	4.14E-23
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	1.08E-01	1.25E-01	1.48E-01	7.82E-02	5.35E-02	1.63E-02	1.44E-04	3.86E-07
Avg	1.42E-03	1.18E-03	9.18E-04	5.23E-04	2.84E-04	1.09E-04	1.78E-06	2.35E-09
Std	6.72E-03	5.85E-03	5.14E-03	2.98E-03	1.84E-03	6.59E-04	7.64E-06	1.36E-08

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.51E-03	7.48E-03	5.78E-03	4.72E-03	1.67E-04	9.83E-08	2.41E-19	0.00E+00
Avg	6.62E-05	5.95E-05	4.81E-05	2.45E-05	9.57E-07	6.19E-10	3.74E-21	0.00E+00
Std	3.95E-04	3.51E-04	2.83E-04	1.56E-04	6.22E-06	3.60E-09	1.51E-20	0.00E+00
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	3.08E-01	2.21E-01	1.15E-01	1.14E-02	4.84E-07	1.69E-15	0.00E+00	0.00E+00
Avg	4.86E-04	3.52E-04	1.86E-04	2.06E-05	1.45E-09	5.77E-18	0.00E+00	0.00E+00
Std	5.94E-03	4.28E-03	2.22E-03	2.24E-04	1.18E-08	4.95E-17	0.00E+00	0.00E+00
Cs-137								
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	2.44E-01	2.40E-01	2.33E-01	2.07E-01	1.21E-01	5.12E-02	6.15E-04	5.10E-11
Avg	3.86E-04	3.82E-04	3.77E-04	3.73E-04	3.63E-04	1.75E-04	2.63E-06	4.97E-13
Std	4.72E-03	4.64E-03	4.50E-03	4.06E-03	2.97E-03	1.50E-03	1.70E-05	1.80E-12
Ni-63								
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	1.00E-03	9.98E-04	1.63E-03	1.91E-03	9.38E-03	5.79E-03	1.15E-03	5.40E-06
Avg	1.06E-05	1.08E-05	1.11E-05	1.21E-05	2.28E-05	1.99E-05	5.23E-06	5.30E-08
Std	5.53E-05	5.69E-05	6.23E-05	6.81E-05	2.11E-04	1.49E-04	3.12E-05	2.55E-07
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	2.24E-01	2.44E-01	2.89E-01	1.48E-01	2.08E-02	1.35E-03	1.86E-07	4.83E-21
Avg	1.27E-03	1.01E-03	7.75E-04	3.93E-04	5.18E-05	1.57E-06	7.80E-11	1.75E-24
Std	8.00E-03	6.92E-03	6.59E-03	3.51E-03	5.63E-04	3.07E-05	3.41E-09	8.84E-23
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	5.54E-01	4.64E-01	3.49E-01	2.19E-01	1.21E-01	5.15E-02	1.15E-03	5.40E-06
Avg	2.22E-03	1.82E-03	1.40E-03	8.24E-04	4.38E-04	1.96E-04	7.86E-06	5.30E-08
Std	1.42E-02	1.21E-02	1.01E-02	5.98E-03	3.16E-03	1.55E-03	3.87E-05	2.55E-07

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06	6.89E-10	2.57E-21	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-08	1.47E-11	7.38E-23	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-07	9.60E-11	3.96E-22	0.00E+00
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	2.29E-18	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-11	4.61E-20	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-10	3.04E-19	0.00E+00	0.00E+00
Cs-137								
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	2.73E-04	6.93E-05	6.81E-07	6.26E-14
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	1.40E-06	1.73E-08	4.16E-15
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	9.21E-06	9.61E-08	1.25E-14
Ni-63								
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	5.98E-06	3.89E-06	8.92E-07	5.58E-09
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-08	6.20E-08	1.50E-08	1.58E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-07	4.36E-07	9.58E-08	6.29E-10
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	1.02E-04	7.75E-06	1.05E-10	9.97E-27
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-07	5.83E-09	6.07E-14	3.34E-30
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	1.55E-07	2.09E-12	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	3.83E-04	8.09E-05	1.57E-06	5.58E-09
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-06	1.46E-06	3.23E-08	1.58E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	9.68E-06	1.89E-07	6.29E-10

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide (j)	DOSE(i,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
Co-60								
Min	3.49E-04	3.06E-04	2.35E-04	9.36E-05	4.74E-08	1.20E-12	0.00E+00	0.00E+00
Max	1.67E-03	1.47E-03	1.13E-03	4.49E-04	8.17E-06	3.36E-09	1.37E-20	0.00E+00
Avg	7.62E-04	6.68E-04	5.14E-04	2.05E-04	3.71E-06	1.46E-09	5.24E-21	0.00E+00
Std	2.68E-04	2.35E-04	1.80E-04	7.18E-05	1.31E-06	5.39E-10	2.25E-21	0.00E+00
Cs-134								
Min	1.60E-03	1.15E-03	5.87E-04	5.64E-05	2.34E-11	8.12E-24	0.00E+00	0.00E+00
Max	7.71E-03	5.51E-03	2.82E-03	2.69E-04	9.80E-09	2.08E-17	0.00E+00	0.00E+00
Avg	3.50E-03	2.50E-03	1.28E-03	1.22E-04	4.34E-09	8.91E-18	0.00E+00	0.00E+00
Std	1.23E-03	8.78E-04	4.49E-04	4.27E-05	1.57E-09	3.49E-18	0.00E+00	0.00E+00
Cs-137								
Min	1.26E-03	1.24E-03	1.18E-03	1.00E-03	5.76E-06	2.34E-10	0.00E+00	0.00E+00
Max	6.13E-03	5.99E-03	5.72E-03	4.88E-03	2.46E-03	6.34E-04	6.67E-06	6.99E-13
Avg	2.78E-03	2.71E-03	2.59E-03	2.21E-03	1.09E-03	2.70E-04	2.48E-06	1.93E-13
Std	9.76E-04	9.53E-04	9.10E-04	7.74E-04	3.93E-04	1.06E-04	1.21E-06	1.40E-13
Ni-63								
Min	3.01E-05	2.99E-05	2.95E-05	6.94E-08	1.18E-20	0.00E+00	0.00E+00	0.00E+00
Max	6.22E-04	6.16E-04	6.05E-04	5.67E-04	4.29E-04	2.50E-04	5.17E-05	3.36E-07
Avg	1.25E-04	1.24E-04	1.22E-04	1.14E-04	8.60E-05	5.08E-05	9.62E-06	4.06E-08
Std	8.07E-05	7.94E-05	7.72E-05	7.12E-05	5.35E-05	3.35E-05	7.75E-06	4.82E-08
Sr-90								
Min	8.68E-02	1.14E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	4.42E+00	4.35E+00	4.20E+00	3.55E+00	1.01E+00	9.53E-02	2.97E-04	8.30E-13
Avg	1.65E+00	1.48E+00	1.22E+00	7.12E-01	1.18E-01	6.74E-03	3.15E-06	2.90E-16
Std	6.49E-01	7.19E-01	7.50E-01	6.48E-01	1.91E-01	1.70E-02	2.16E-05	1.52E-14
ΣALL								
Min	9.22E-02	3.20E-03	2.25E-03	1.21E-03	6.08E-06	2.36E-10	0.00E+00	0.00E+00
Max	4.43E+00	4.36E+00	4.21E+00	3.55E+00	1.01E+00	9.57E-02	3.06E-04	3.36E-07
Avg	1.66E+00	1.49E+00	1.23E+00	7.14E-01	1.20E-01	7.06E-03	1.53E-05	4.06E-08
Std	6.52E-01	7.20E-01	7.51E-01	6.48E-01	1.91E-01	1.70E-02	2.31E-05	4.82E-08

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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
Cs-137								
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
Ni-63								
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
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\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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
Cs-137								
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
Ni-63								
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
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\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,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
Co-60								
Min	7.30E-06	6.40E-06	4.92E-06	1.95E-06	4.20E-09	9.94E-14	0.00E+00	0.00E+00
Max	4.22E-04	3.69E-04	2.82E-04	1.11E-04	1.95E-06	7.83E-10	2.99E-21	0.00E+00
Avg	7.24E-05	6.35E-05	4.88E-05	1.95E-05	3.52E-07	1.39E-10	4.98E-22	0.00E+00
Std	5.02E-05	4.41E-05	3.39E-05	1.35E-05	2.45E-07	9.80E-11	3.75E-22	0.00E+00
Cs-134								
Min	3.86E-05	2.76E-05	1.41E-05	1.34E-06	1.98E-12	6.88E-25	0.00E+00	0.00E+00
Max	1.93E-03	1.37E-03	6.95E-04	6.45E-05	2.22E-09	4.74E-18	0.00E+00	0.00E+00
Avg	3.26E-04	2.33E-04	1.19E-04	1.13E-05	4.04E-10	8.30E-19	0.00E+00	0.00E+00
Std	2.29E-04	1.63E-04	8.35E-05	7.96E-06	2.86E-10	6.07E-19	0.00E+00	0.00E+00
Cs-137								
Min	3.07E-05	3.00E-05	2.86E-05	2.43E-05	4.87E-07	1.98E-11	0.00E+00	0.00E+00
Max	1.51E-03	1.47E-03	1.40E-03	1.16E-03	5.58E-04	1.45E-04	1.46E-06	1.56E-13
Avg	2.58E-04	2.53E-04	2.41E-04	2.05E-04	1.01E-04	2.51E-05	2.31E-07	1.81E-14
Std	1.81E-04	1.77E-04	1.69E-04	1.44E-04	7.17E-05	1.84E-05	1.86E-07	1.84E-14
Ni-63								
Min	6.92E-07	6.94E-07	6.96E-07	5.11E-09	8.66E-22	0.00E+00	0.00E+00	0.00E+00
Max	1.24E-04	1.23E-04	1.20E-04	1.12E-04	8.26E-05	4.59E-05	9.72E-06	6.09E-08
Avg	1.17E-05	1.16E-05	1.14E-05	1.07E-05	8.03E-06	4.75E-06	9.01E-07	3.80E-09
Std	1.06E-05	1.05E-05	1.03E-05	9.54E-06	7.27E-06	4.51E-06	9.84E-07	5.51E-09
Sr-90								
Min	6.62E-03	1.32E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	8.96E-01	8.76E-01	8.48E-01	7.43E-01	1.95E-01	2.64E-02	4.48E-05	1.29E-13
Avg	1.76E-01	1.59E-01	1.31E-01	7.65E-02	1.25E-02	7.35E-04	3.65E-07	4.43E-17
Std	1.21E-01	1.20E-01	1.15E-01	8.89E-02	2.27E-02	2.17E-03	2.73E-06	2.35E-15
ΣALL								
Min	6.80E-03	1.55E-04	1.09E-04	3.63E-05	5.14E-07	1.99E-11	0.00E+00	0.00E+00
Max	8.99E-01	8.78E-01	8.50E-01	7.44E-01	1.96E-01	2.65E-02	4.57E-05	6.09E-08
Avg	1.77E-01	1.59E-01	1.31E-01	7.68E-02	1.26E-02	7.64E-04	1.50E-06	3.80E-09
Std	1.22E-01	1.21E-01	1.15E-01	8.90E-02	2.28E-02	2.17E-03	2.98E-06	5.51E-09

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\SOIL DCGL\RESRAD INPUT SUBSURFACE\BP INSITU SAT SEN.RAD

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	4.05E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	3.42E-07	3.00E-07	2.31E-07	9.19E-08	1.67E-09	1.04E-13	0.00E+00	0.00E+00
Max	2.51E-03	2.20E-03	1.69E-03	6.73E-04	1.22E-05	4.82E-09	1.78E-20	0.00E+00
Avg	4.62E-05	4.05E-05	3.11E-05	1.24E-05	2.24E-07	8.85E-11	3.17E-22	0.00E+00
Std	7.88E-05	6.91E-05	5.31E-05	2.12E-05	3.83E-07	1.52E-10	5.60E-22	0.00E+00
Cs-134								
Min	2.80E-05	2.00E-05	1.02E-05	9.75E-07	2.54E-12	8.80E-25	0.00E+00	0.00E+00
Max	1.51E-03	1.09E-03	5.63E-04	5.59E-05	1.86E-09	3.36E-18	0.00E+00	0.00E+00
Avg	2.24E-04	1.60E-04	8.17E-05	7.79E-06	2.77E-10	5.69E-19	0.00E+00	0.00E+00
Std	1.34E-04	9.59E-05	4.90E-05	4.68E-06	1.68E-10	3.54E-19	0.00E+00	0.00E+00
Cs-137								
Min	2.24E-05	2.19E-05	2.09E-05	1.78E-05	6.24E-07	2.54E-11	0.00E+00	0.00E+00
Max	1.19E-03	1.18E-03	1.14E-03	1.01E-03	4.64E-04	1.01E-04	9.90E-07	9.46E-14
Avg	1.77E-04	1.73E-04	1.66E-04	1.41E-04	6.94E-05	1.72E-05	1.59E-07	1.24E-14
Std	1.06E-04	1.04E-04	9.94E-05	8.47E-05	4.20E-05	1.07E-05	1.13E-07	1.13E-14
Ni-63								
Min	1.88E-08	1.87E-08	1.85E-08	2.40E-10	4.06E-23	0.00E+00	0.00E+00	0.00E+00
Max	2.09E-05	2.07E-05	2.04E-05	1.93E-05	1.52E-05	9.55E-06	2.29E-06	2.11E-08
Avg	1.10E-06	1.09E-06	1.07E-06	1.01E-06	7.60E-07	4.51E-07	8.65E-08	3.84E-10
Std	1.47E-06	1.46E-06	1.43E-06	1.34E-06	1.05E-06	6.57E-07	1.47E-07	8.94E-10
Sr-90								
Min	1.56E-03	2.14E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.60E-01	1.53E-01	1.42E-01	1.11E-01	3.88E-02	2.60E-03	4.96E-06	2.63E-14
Avg	2.13E-02	1.91E-02	1.57E-02	9.12E-03	1.50E-03	8.76E-05	4.28E-08	8.87E-18
Std	1.32E-02	1.34E-02	1.27E-02	9.85E-03	2.71E-03	2.45E-04	3.11E-07	4.81E-16
ΣALL								
Min	1.93E-03	1.08E-04	6.42E-05	2.91E-05	6.60E-07	2.55E-11	0.00E+00	0.00E+00
Max	1.61E-01	1.54E-01	1.42E-01	1.11E-01	3.89E-02	2.64E-03	5.29E-06	2.11E-08
Avg	2.17E-02	1.95E-02	1.60E-02	9.28E-03	1.57E-03	1.05E-04	2.88E-07	3.84E-10
Std	1.34E-02	1.35E-02	1.27E-02	9.87E-03	2.72E-03	2.45E-04	3.75E-07	8.94E-10

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)	DOSE(i,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
Co-60								
Min	6.86E-07	6.02E-07	4.63E-07	1.84E-07	1.21E-10	3.56E-14	0.00E+00	0.00E+00
Max	1.32E-04	1.15E-04	8.86E-05	3.53E-05	6.38E-07	2.53E-10	9.37E-22	0.00E+00
Avg	1.32E-05	1.16E-05	8.91E-06	3.55E-06	6.43E-08	2.53E-11	9.05E-23	0.00E+00
Std	1.23E-05	1.07E-05	8.26E-06	3.29E-06	5.97E-08	2.37E-11	8.73E-23	0.00E+00
Cs-134								
Min	2.97E-05	2.12E-05	1.09E-05	1.04E-06	7.47E-13	2.59E-25	0.00E+00	0.00E+00
Max	1.55E-03	1.10E-03	5.65E-04	5.39E-05	1.94E-09	4.10E-18	0.00E+00	0.00E+00
Avg	2.63E-04	1.88E-04	9.60E-05	9.15E-06	3.25E-10	6.69E-19	0.00E+00	0.00E+00
Std	1.75E-04	1.25E-04	6.38E-05	6.08E-06	2.18E-10	4.63E-19	0.00E+00	0.00E+00
Cs-137								
Min	2.34E-05	2.29E-05	2.19E-05	1.87E-05	1.84E-07	7.48E-12	0.00E+00	0.00E+00
Max	1.23E-03	1.20E-03	1.14E-03	9.73E-04	4.83E-04	1.24E-04	1.26E-06	1.25E-13
Avg	2.09E-04	2.04E-04	1.95E-04	1.66E-04	8.15E-05	2.02E-05	1.87E-07	1.46E-14
Std	1.39E-04	1.36E-04	1.30E-04	1.10E-04	5.46E-05	1.40E-05	1.43E-07	1.42E-14
Ni-63								
Min	7.01E-07	6.98E-07	6.92E-07	3.72E-09	6.30E-22	0.00E+00	0.00E+00	0.00E+00
Max	2.93E-04	2.91E-04	2.86E-04	2.68E-04	2.02E-04	1.18E-04	3.05E-05	1.45E-07
Avg	2.15E-05	2.13E-05	2.09E-05	1.96E-05	1.48E-05	8.71E-06	1.65E-06	7.09E-09
Std	2.43E-05	2.40E-05	2.35E-05	2.20E-05	1.67E-05	1.02E-05	2.20E-06	1.23E-08
Sr-90								
Min	1.79E-03	9.05E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	1.54E-01	1.42E-01	1.40E-01	1.26E-01	3.89E-02	3.19E-03	7.62E-06	1.36E-14
Avg	2.54E-02	2.30E-02	1.89E-02	1.10E-02	1.83E-03	1.03E-04	4.93E-08	4.81E-18
Std	1.76E-02	1.77E-02	1.66E-02	1.30E-02	3.57E-03	3.00E-04	3.77E-07	2.48E-16
ΣALL								
Min	2.08E-03	1.24E-04	5.45E-05	3.17E-05	1.93E-07	7.51E-12	0.00E+00	0.00E+00
Max	1.55E-01	1.43E-01	1.41E-01	1.27E-01	3.91E-02	3.24E-03	3.09E-05	1.45E-07
Avg	2.59E-02	2.34E-02	1.92E-02	1.12E-02	1.92E-03	1.32E-04	1.89E-06	7.09E-09
Std	1.77E-02	1.78E-02	1.67E-02	1.30E-02	3.58E-03	3.02E-04	2.28E-06	1.23E-08

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	7.88E-01	3.05E-02	5.36E-03	2.15E-03	7.68E-04	1.21E-04	2.81E-08	1.93E-23
0.050	9.41E-01	1.74E-01	9.62E-03	2.64E-03	8.84E-04	2.00E-04	3.24E-07	6.00E-18
0.075	1.01E+00	4.21E-01	2.89E-02	3.13E-03	9.69E-04	2.25E-04	1.02E-06	7.36E-16
0.100	1.06E+00	7.63E-01	7.97E-02	3.85E-03	1.07E-03	2.42E-04	1.85E-06	1.17E-14
0.125	1.12E+00	8.90E-01	1.64E-01	4.63E-03	1.15E-03	2.60E-04	2.99E-06	8.53E-14
0.150	1.17E+00	9.64E-01	3.01E-01	6.04E-03	1.23E-03	2.78E-04	4.21E-06	5.50E-13
0.175	1.20E+00	1.03E+00	4.57E-01	1.02E-02	1.33E-03	2.96E-04	5.36E-06	3.38E-12
0.200	1.25E+00	1.09E+00	6.26E-01	1.82E-02	1.41E-03	3.13E-04	7.02E-06	1.42E-11
0.225	1.29E+00	1.14E+00	7.78E-01	3.48E-02	1.53E-03	3.30E-04	8.50E-06	6.68E-11
0.250	1.34E+00	1.19E+00	8.72E-01	5.21E-02	1.64E-03	3.44E-04	9.70E-06	1.96E-10
0.275	1.38E+00	1.23E+00	9.47E-01	8.42E-02	1.79E-03	3.63E-04	1.05E-05	5.07E-10
0.300	1.42E+00	1.27E+00	1.01E+00	1.24E-01	1.92E-03	3.79E-04	1.13E-05	1.72E-09
0.325	1.48E+00	1.32E+00	1.07E+00	1.82E-01	2.09E-03	3.97E-04	1.21E-05	3.33E-09
0.350	1.53E+00	1.38E+00	1.12E+00	2.47E-01	2.33E-03	4.21E-04	1.29E-05	5.61E-09
0.375	1.58E+00	1.43E+00	1.16E+00	3.47E-01	2.53E-03	4.44E-04	1.37E-05	8.76E-09
0.400	1.63E+00	1.47E+00	1.20E+00	4.37E-01	2.96E-03	4.71E-04	1.45E-05	1.33E-08
0.425	1.67E+00	1.52E+00	1.25E+00	5.38E-01	3.99E-03	4.96E-04	1.55E-05	2.18E-08
0.450	1.73E+00	1.58E+00	1.30E+00	6.46E-01	5.78E-03	5.26E-04	1.65E-05	2.98E-08
0.475	1.78E+00	1.64E+00	1.35E+00	7.27E-01	8.33E-03	5.52E-04	1.75E-05	4.08E-08
0.500	1.83E+00	1.69E+00	1.41E+00	7.82E-01	1.16E-02	5.81E-04	1.83E-05	4.82E-08
0.525	1.87E+00	1.74E+00	1.47E+00	8.44E-01	1.51E-02	6.18E-04	1.94E-05	5.59E-08
0.550	1.93E+00	1.80E+00	1.53E+00	9.05E-01	2.08E-02	6.52E-04	2.07E-05	6.41E-08
0.575	1.98E+00	1.85E+00	1.57E+00	9.59E-01	2.85E-02	7.11E-04	2.19E-05	7.24E-08
0.600	2.03E+00	1.89E+00	1.62E+00	1.02E+00	4.29E-02	8.03E-04	2.33E-05	8.25E-08
0.625	2.09E+00	1.95E+00	1.68E+00	1.07E+00	6.37E-02	1.03E-03	2.47E-05	9.38E-08
0.650	2.15E+00	2.01E+00	1.75E+00	1.12E+00	9.08E-02	1.45E-03	2.62E-05	1.09E-07
0.675	2.21E+00	2.07E+00	1.81E+00	1.17E+00	1.16E-01	1.91E-03	2.83E-05	1.22E-07
0.700	2.27E+00	2.12E+00	1.87E+00	1.23E+00	1.52E-01	2.54E-03	3.10E-05	1.34E-07
0.725	2.33E+00	2.19E+00	1.93E+00	1.29E+00	1.96E-01	3.40E-03	3.43E-05	1.51E-07
0.750	2.40E+00	2.26E+00	2.00E+00	1.36E+00	2.32E-01	4.68E-03	3.77E-05	1.74E-07
0.775	2.47E+00	2.32E+00	2.07E+00	1.42E+00	2.77E-01	6.70E-03	4.55E-05	2.03E-07
0.800	2.56E+00	2.40E+00	2.15E+00	1.48E+00	3.17E-01	9.80E-03	5.80E-05	2.41E-07
0.825	2.66E+00	2.51E+00	2.23E+00	1.56E+00	3.61E-01	1.54E-02	7.66E-05	2.83E-07
0.850	2.77E+00	2.61E+00	2.32E+00	1.65E+00	4.07E-01	2.18E-02	9.70E-05	3.39E-07
0.875	2.88E+00	2.72E+00	2.44E+00	1.75E+00	4.57E-01	2.95E-02	1.23E-04	4.43E-07
0.900	3.01E+00	2.84E+00	2.57E+00	1.85E+00	5.06E-01	4.34E-02	1.59E-04	5.74E-07
0.925	3.18E+00	3.01E+00	2.73E+00	2.01E+00	5.74E-01	5.59E-02	2.27E-04	7.81E-07
0.950	3.36E+00	3.22E+00	2.92E+00	2.23E+00	6.52E-01	7.44E-02	3.59E-04	1.15E-06
0.975	3.72E+00	3.58E+00	3.26E+00	2.50E+00	7.66E-01	9.35E-02	8.62E-04	1.88E-06
1.000	8.19E+00	9.19E+00	1.02E+01	5.27E+00	1.85E+00	4.67E-01	4.14E-03	1.85E-05

Probabilistic results summary : RESRAD Default

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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	2.03E-01	5.87E+00	1.94E+00	1.82E+00	3.01E+00	3.35E+00	3.73E+00	4.29E+00
1.00E+00	3.85E-03	5.44E+00	1.74E+00	1.68E+00	2.86E+00	3.17E+00	3.51E+00	4.05E+00
3.00E+00	2.77E-03	4.87E+00	1.42E+00	1.44E+00	2.55E+00	2.87E+00	3.19E+00	3.67E+00
1.00E+01	1.46E-03	3.51E+00	8.31E-01	8.23E-01	1.82E+00	2.16E+00	2.39E+00	2.68E+00
4.00E+01	4.34E-05	1.10E+00	1.53E-01	1.28E-02	5.36E-01	6.86E-01	8.09E-01	9.51E-01
4.05E+01	4.05E-05	1.09E+00	1.49E-01	1.19E-02	5.24E-01	6.75E-01	7.82E-01	9.38E-01
8.00E+01	1.74E-07	3.55E-01	2.44E-02	9.76E-04	1.03E-01	1.45E-01	1.75E-01	2.07E-01
1.00E+02	1.11E-08	2.21E-01	1.14E-02	5.81E-04	4.80E-02	7.69E-02	9.18E-02	1.20E-01
1.20E+02	7.11E-10	1.40E-01	5.63E-03	3.65E-04	1.72E-02	3.86E-02	5.04E-02	7.21E-02
1.60E+02	2.92E-12	6.30E-02	1.73E-03	1.50E-04	3.74E-03	1.09E-02	1.88E-02	2.60E-02
2.00E+02	1.20E-14	2.80E-02	6.37E-04	7.32E-05	1.16E-03	3.42E-03	8.07E-03	1.02E-02
2.40E+02	4.91E-17	1.23E-02	2.64E-04	3.85E-05	4.37E-04	1.09E-03	3.40E-03	4.43E-03
2.80E+02	2.02E-19	5.14E-03	1.20E-04	2.30E-05	2.05E-04	4.69E-04	1.42E-03	1.90E-03
3.00E+02	1.29E-20	3.97E-03	8.43E-05	1.85E-05	1.50E-04	3.49E-04	9.32E-04	1.22E-03
3.20E+02	8.27E-22	3.12E-03	6.06E-05	1.51E-05	1.18E-04	2.52E-04	6.03E-04	8.09E-04
3.60E+02	3.40E-24	2.02E-03	3.39E-05	1.00E-05	7.67E-05	1.60E-04	2.65E-04	4.37E-04
4.00E+02	1.39E-26	1.24E-03	2.13E-05	6.85E-06	5.33E-05	9.38E-05	1.53E-04	2.32E-04
4.40E+02	5.72E-29	7.47E-04	1.42E-05	4.73E-06	3.60E-05	5.90E-05	9.39E-05	1.56E-04
4.80E+02	0.00E+00	4.45E-04	1.01E-05	3.35E-06	2.47E-05	4.22E-05	6.93E-05	1.09E-04
5.20E+02	0.00E+00	2.97E-04	7.41E-06	2.42E-06	1.90E-05	2.94E-05	5.26E-05	8.37E-05
5.60E+02	0.00E+00	2.67E-04	5.54E-06	1.75E-06	1.34E-05	2.33E-05	4.42E-05	6.22E-05
6.00E+02	0.00E+00	2.24E-04	4.18E-06	1.27E-06	9.70E-06	1.80E-05	3.25E-05	5.22E-05
6.40E+02	0.00E+00	1.66E-04	3.17E-06	9.44E-07	7.47E-06	1.39E-05	2.39E-05	4.35E-05
6.80E+02	0.00E+00	1.23E-04	2.45E-06	7.05E-07	5.67E-06	1.05E-05	1.80E-05	3.67E-05
7.20E+02	0.00E+00	9.14E-05	1.91E-06	5.04E-07	4.19E-06	8.18E-06	1.35E-05	2.90E-05
7.60E+02	0.00E+00	6.78E-05	1.49E-06	3.77E-07	3.25E-06	6.73E-06	1.04E-05	2.31E-05
8.00E+02	0.00E+00	5.04E-05	1.16E-06	2.65E-07	2.62E-06	5.12E-06	7.91E-06	1.96E-05
8.40E+02	0.00E+00	3.75E-05	8.81E-07	1.92E-07	1.88E-06	3.83E-06	6.10E-06	1.39E-05
8.80E+02	0.00E+00	2.81E-05	6.49E-07	1.38E-07	1.35E-06	2.72E-06	4.93E-06	1.03E-05
9.20E+02	0.00E+00	2.09E-05	4.84E-07	9.88E-08	1.02E-06	1.99E-06	3.61E-06	8.02E-06
9.60E+02	0.00E+00	1.55E-05	3.63E-07	6.91E-08	7.63E-07	1.47E-06	2.78E-06	6.08E-06
1.00E+03	0.00E+00	1.19E-05	2.70E-07	4.81E-08	5.66E-07	1.15E-06	2.02E-06	4.19E-06

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	2.09E-01	8.19E+00	1.95E+00	1.84E+00	3.00E+00	3.37E+00	3.81E+00	4.38E+00
1.00E+00	5.58E-03	9.19E+00	1.75E+00	1.71E+00	2.83E+00	3.25E+00	3.63E+00	4.03E+00
3.00E+00	2.65E-03	1.02E+01	1.45E+00	1.40E+00	2.58E+00	2.93E+00	3.30E+00	3.59E+00
1.00E+01	1.45E-03	5.27E+00	8.41E-01	8.04E-01	1.85E+00	2.32E+00	2.61E+00	3.03E+00
4.00E+01	3.76E-05	1.39E+00	1.46E-01	1.24E-02	5.24E-01	6.64E-01	7.90E-01	9.03E-01
4.05E+01	3.72E-05	1.38E+00	1.42E-01	1.17E-02	5.13E-01	6.52E-01	7.63E-01	8.74E-01
8.00E+01	1.19E-06	7.83E-01	2.45E-02	9.73E-04	9.36E-02	1.46E-01	1.76E-01	2.26E-01
1.00E+02	1.25E-07	4.67E-01	1.09E-02	5.72E-04	3.62E-02	6.64E-02	8.69E-02	1.23E-01
1.20E+02	1.31E-08	2.86E-01	5.47E-03	3.71E-04	1.55E-02	3.26E-02	4.85E-02	7.35E-02
1.60E+02	1.43E-10	1.11E-01	1.71E-03	1.54E-04	4.02E-03	9.75E-03	1.51E-02	2.58E-02
2.00E+02	1.57E-12	4.39E-02	6.05E-04	7.37E-05	1.07E-03	2.77E-03	5.27E-03	1.11E-02
2.40E+02	1.71E-14	1.75E-02	2.61E-04	3.95E-05	4.74E-04	1.11E-03	2.60E-03	4.90E-03
2.80E+02	1.32E-24	6.95E-03	1.22E-04	2.36E-05	2.40E-04	5.21E-04	1.11E-03	1.93E-03
3.00E+02	0.00E+00	4.14E-03	8.51E-05	1.83E-05	1.66E-04	3.49E-04	7.13E-04	1.22E-03
3.20E+02	0.00E+00	2.46E-03	6.11E-05	1.46E-05	1.22E-04	2.39E-04	4.97E-04	8.52E-04
3.60E+02	0.00E+00	1.39E-03	3.39E-05	9.79E-06	6.66E-05	1.52E-04	2.51E-04	4.77E-04
4.00E+02	0.00E+00	1.05E-03	2.12E-05	6.82E-06	4.66E-05	9.24E-05	1.65E-04	2.92E-04
4.40E+02	0.00E+00	7.63E-04	1.41E-05	4.76E-06	3.10E-05	6.39E-05	9.65E-05	1.90E-04
4.80E+02	0.00E+00	5.57E-04	9.87E-06	3.36E-06	2.15E-05	4.58E-05	6.83E-05	1.12E-04
5.20E+02	0.00E+00	4.08E-04	7.15E-06	2.41E-06	1.59E-05	3.27E-05	5.13E-05	8.65E-05
5.60E+02	0.00E+00	3.00E-04	5.29E-06	1.72E-06	1.22E-05	2.47E-05	4.04E-05	6.53E-05
6.00E+02	0.00E+00	2.20E-04	4.04E-06	1.24E-06	9.07E-06	2.01E-05	3.19E-05	4.64E-05
6.40E+02	0.00E+00	1.62E-04	3.10E-06	8.98E-07	6.99E-06	1.52E-05	2.52E-05	3.33E-05
6.80E+02	0.00E+00	1.59E-04	2.56E-06	6.36E-07	5.46E-06	1.14E-05	1.92E-05	2.97E-05
7.20E+02	0.00E+00	2.36E-04	2.10E-06	4.61E-07	4.27E-06	8.56E-06	1.42E-05	2.52E-05
7.60E+02	0.00E+00	1.91E-04	1.66E-06	3.37E-07	3.54E-06	7.12E-06	1.06E-05	2.08E-05
8.00E+02	0.00E+00	1.41E-04	1.30E-06	2.45E-07	2.82E-06	5.68E-06	8.05E-06	1.79E-05
8.40E+02	0.00E+00	1.05E-04	1.00E-06	1.74E-07	2.09E-06	4.25E-06	6.24E-06	1.50E-05
8.80E+02	0.00E+00	4.77E-05	7.32E-07	1.26E-07	1.57E-06	3.26E-06	4.81E-06	1.15E-05
9.20E+02	0.00E+00	3.48E-05	5.26E-07	9.13E-08	1.20E-06	2.38E-06	3.68E-06	8.00E-06
9.60E+02	0.00E+00	2.54E-05	3.92E-07	6.62E-08	8.95E-07	1.71E-06	2.59E-06	6.32E-06
1.00E+03	0.00E+00	1.85E-05	2.92E-07	4.73E-08	6.84E-07	1.25E-06	2.28E-06	5.11E-06

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	1.07E-01	7.52E+00	1.94E+00	1.83E+00	3.05E+00	3.40E+00	3.69E+00	4.39E+00
1.00E+00	4.37E-03	6.80E+00	1.74E+00	1.66E+00	2.83E+00	3.23E+00	3.60E+00	4.23E+00
3.00E+00	2.92E-03	5.83E+00	1.43E+00	1.40E+00	2.60E+00	2.97E+00	3.40E+00	3.67E+00
1.00E+01	1.49E-03	4.25E+00	8.25E-01	7.54E-01	1.88E+00	2.21E+00	2.53E+00	3.04E+00
4.00E+01	8.10E-06	1.91E+00	1.50E-01	1.16E-02	5.00E-01	6.42E-01	7.75E-01	9.15E-01
4.05E+01	7.44E-06	1.85E+00	1.46E-01	1.10E-02	4.90E-01	6.29E-01	7.66E-01	9.05E-01
8.00E+01	8.68E-09	5.08E-01	2.55E-02	1.03E-03	9.71E-02	1.52E-01	1.91E-01	2.24E-01
1.00E+02	2.89E-10	3.14E-01	1.24E-02	5.95E-04	5.03E-02	7.86E-02	1.02E-01	1.38E-01
1.20E+02	9.63E-12	1.95E-01	6.31E-03	3.63E-04	2.42E-02	4.07E-02	5.16E-02	8.61E-02
1.60E+02	1.08E-14	7.58E-02	1.97E-03	1.56E-04	4.73E-03	1.23E-02	1.73E-02	3.39E-02
2.00E+02	1.20E-17	3.02E-02	7.00E-04	7.57E-05	1.42E-03	3.69E-03	8.47E-03	1.31E-02
2.40E+02	1.35E-20	1.25E-02	2.79E-04	4.10E-05	4.77E-04	1.20E-03	3.45E-03	5.34E-03
2.80E+02	1.51E-23	5.44E-03	1.30E-04	2.31E-05	2.40E-04	5.38E-04	1.57E-03	2.37E-03
3.00E+02	5.06E-25	3.69E-03	9.01E-05	1.82E-05	1.78E-04	4.21E-04	1.05E-03	1.55E-03
3.20E+02	2.31E-26	2.55E-03	6.48E-05	1.49E-05	1.21E-04	3.41E-04	6.67E-04	9.88E-04
3.60E+02	5.31E-29	1.30E-03	3.59E-05	1.00E-05	7.41E-05	1.86E-04	3.23E-04	4.41E-04
4.00E+02	0.00E+00	8.14E-04	2.18E-05	6.82E-06	4.98E-05	1.02E-04	1.75E-04	2.50E-04
4.40E+02	0.00E+00	5.80E-04	1.44E-05	4.80E-06	3.30E-05	6.51E-05	1.10E-04	1.62E-04
4.80E+02	0.00E+00	3.73E-04	9.91E-06	3.44E-06	2.33E-05	4.02E-05	7.47E-05	1.04E-04
5.20E+02	0.00E+00	2.31E-04	7.05E-06	2.47E-06	1.61E-05	2.80E-05	5.45E-05	8.87E-05
5.60E+02	0.00E+00	1.54E-04	5.15E-06	1.77E-06	1.16E-05	2.20E-05	3.92E-05	5.79E-05
6.00E+02	0.00E+00	1.10E-04	3.82E-06	1.29E-06	8.61E-06	1.66E-05	2.97E-05	4.58E-05
6.40E+02	0.00E+00	7.90E-05	2.89E-06	9.16E-07	7.24E-06	1.28E-05	2.29E-05	3.73E-05
6.80E+02	0.00E+00	5.68E-05	2.22E-06	6.61E-07	5.28E-06	1.00E-05	1.66E-05	3.10E-05
7.20E+02	0.00E+00	5.63E-05	1.71E-06	4.83E-07	4.16E-06	7.32E-06	1.19E-05	2.29E-05
7.60E+02	0.00E+00	5.51E-05	1.31E-06	3.50E-07	3.06E-06	5.57E-06	8.83E-06	1.62E-05
8.00E+02	0.00E+00	4.59E-05	9.80E-07	2.56E-07	2.48E-06	4.19E-06	6.48E-06	1.11E-05
8.40E+02	0.00E+00	3.14E-05	7.32E-07	1.84E-07	1.84E-06	3.25E-06	4.97E-06	8.28E-06
8.80E+02	0.00E+00	1.90E-05	5.43E-07	1.29E-07	1.37E-06	2.53E-06	4.14E-06	6.50E-06
9.20E+02	0.00E+00	1.41E-05	4.03E-07	9.44E-08	9.97E-07	1.87E-06	3.13E-06	4.96E-06
9.60E+02	0.00E+00	1.05E-05	2.97E-07	6.66E-08	7.19E-07	1.45E-06	2.31E-06	3.68E-06
1.00E+03	0.00E+00	7.86E-06	2.19E-07	4.87E-08	5.25E-07	1.08E-06	1.70E-06	2.49E-06

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 Years	Peak mean dose mrem/yr
1	0.000E+00	1.941E+00
2	0.000E+00	1.949E+00
3	0.000E+00	1.943E+00

Title : RESRAD Default
 Input File : BP INSITU SAT SEN.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
	1		1		1		1	
Repetition =								
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Density of cover material	28	-0.03	28	-0.01	45	-0.01	45	0.00
Contaminated zone erosion rate	34	-0.02	34	-0.01	42	-0.01	42	0.00
Contaminated zone total porosity	12	-0.10	12	-0.05	18	-0.06	18	-0.02
Contaminated zone hydraulic conductivity	52	0.00	52	0.00	22	0.04	22	0.02
Contaminated zone b parameter	27	-0.03	27	-0.02	14	-0.08	14	-0.03
Evapotranspiration coefficient	44	0.01	44	0.00	50	0.00	50	0.00
Wind Speed	30	-0.03	30	-0.01	39	0.01	39	0.01
Runoff coefficient	25	-0.03	26	-0.02	40	0.01	40	0.00
Density of saturated zone	11	-0.11	11	-0.05	12	-0.10	12	-0.04
Saturated zone total porosity	17	0.07	17	0.03	13	0.09	13	0.04
Saturated zone effective porosity	8	-0.14	8	-0.07	8	-0.16	8	-0.07
Saturated zone hydraulic conductivity	5	-0.22	5	-0.11	7	-0.19	7	-0.08
Saturated zone hydraulic gradient	2	-0.44	2	-0.24	3	-0.29	3	-0.12
Well pump intake depth	1	-0.84	1	-0.77	1	-0.91	1	-0.86
Mass loading for inhalation	48	-0.01	48	0.00	44	0.01	44	0.00
Depth of soil mixing layer	31	-0.02	31	-0.01	34	-0.01	34	-0.01
Depth of roots	4	0.24	4	0.12	5	0.23	5	0.09
Weathering removal constant of all vegetation	6	-0.20	6	-0.10	4	-0.23	4	-0.09
Wet weight crop yield of fruit, grain and non-leafy vegetables	10	-0.12	10	-0.06	9	-0.14	9	-0.06
Wet foliar interception fraction of leafy vegetables	41	-0.01	41	-0.01	19	0.05	19	0.02
Indoor dust filtration factor	35	-0.02	35	-0.01	31	-0.02	31	-0.01
External gamma shielding factor	46	-0.01	46	0.00	46	0.01	46	0.00
Cover erosion rate	15	0.07	15	0.04	23	0.04	23	0.02
Total Porosity of Unsaturated zone 1	22	0.03	22	0.02	48	0.00	48	0.00
Effective Porosity of Unsaturated zone 1	16	-0.07	16	-0.03	26	-0.03	26	-0.01
Hydraulic Conductivity of Unsaturated zone 1	13	0.10	13	0.05	10	0.11	10	0.05
b Parameter of Unsaturated zone 1	19	0.04	19	0.02	20	0.05	20	0.02
Plant transfer factor for Co	42	-0.01	42	-0.01	35	-0.01	35	-0.01
Meat transfer factor for Co	24	-0.03	24	-0.02	43	0.01	43	0.00
Milk transfer factor for Co	39	-0.01	39	-0.01	25	-0.04	25	-0.02
Plant transfer factor for Cs	9	0.12	9	0.06	53	0.00	53	0.00
Meat transfer factor for Cs	47	0.01	47	0.00	27	-0.03	27	-0.01
Milk transfer factor for Cs	26	-0.03	25	-0.02	30	-0.02	30	-0.01
Plant transfer factor for Ni	38	-0.01	38	-0.01	21	0.04	21	0.02
Meat transfer factor for Ni	36	-0.02	36	-0.01	37	-0.01	37	-0.01
Milk transfer factor for Ni	43	0.01	43	0.01	32	0.02	32	0.01
Plant transfer factor for Sr	14	0.08	14	0.04	11	0.10	11	0.04
Meat transfer factor for Sr	33	0.02	33	0.01	49	0.00	49	0.00
Milk transfer factor for Sr	37	0.02	37	0.01	16	0.07	16	0.03
Density of contaminated zone	7	0.15	7	0.08	6	0.20	6	0.08
Density of Unsaturated zone 1	23	0.03	23	0.02	24	0.04	24	0.02
Kd of Cs-134 in Contaminated Zone	29	-0.03	29	-0.01	15	-0.08	15	-0.03
Kd of Cs-134 in Saturated Zone	40	0.01	40	0.01	41	-0.01	41	0.00
Kd of Cs-137 in Contaminated Zone	50	-0.01	50	0.00	47	-0.01	47	0.00
Kd of Cs-137 in Saturated Zone	21	0.04	21	0.02	36	0.01	36	0.01
Kd of Ni-63 in Contaminated Zone	18	-0.06	18	-0.03	52	0.00	52	0.00
Kd of Ni-63 in Saturated Zone	51	0.00	51	0.00	38	-0.01	38	-0.01
Kd of Sr-90 in Contaminated Zone	3	-0.36	3	-0.19	2	-0.41	2	-0.18
Kd of Sr-90 in Saturated Zone	20	-0.04	20	-0.02	17	-0.06	17	-0.03
Kd of Sr-90 in Unsaturated Zone 1	49	-0.01	49	0.00	29	0.02	29	0.01
Kd of Ni-63 in Unsaturated Zone 1	53	0.00	53	0.00	51	0.00	51	0.00
Kd of Cs-137 in Unsaturated Zone 1	45	-0.01	45	0.00	33	-0.02	33	-0.01

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 : BP INSITU SAT SEN.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC		SRC		PRCC		SRRC	
	2		2		2		2	
Repetition =								
Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Density of cover material	36	0.03	36	0.02	31	0.03	31	0.01
Contaminated zone erosion rate	42	-0.02	42	-0.01	47	-0.01	47	-0.01
Contaminated zone total porosity	17	-0.07	17	-0.04	15	-0.07	15	-0.03
Contaminated zone hydraulic conductivity	43	0.02	43	0.01	50	0.00	50	0.00
Contaminated zone b parameter	27	-0.04	27	-0.02	14	-0.08	14	-0.04
Evapotranspiration coefficient	35	0.03	35	0.02	13	0.08	13	0.04
Wind Speed	30	-0.03	30	-0.02	45	-0.01	45	-0.01
Runoff coefficient	19	-0.06	19	-0.04	33	-0.03	33	-0.01
Density of saturated zone	13	-0.10	13	-0.06	12	-0.09	12	-0.04
Saturated zone total porosity	11	0.10	11	0.06	10	0.13	10	0.06
Saturated zone effective porosity	9	-0.13	9	-0.08	7	-0.19	7	-0.09
Saturated zone hydraulic conductivity	7	-0.14	7	-0.08	8	-0.19	8	-0.09
Saturated zone hydraulic gradient	2	-0.38	2	-0.24	3	-0.28	3	-0.13
Well pump intake depth	1	-0.76	1	-0.69	1	-0.88	1	-0.82
Mass loading for inhalation	29	-0.03	29	-0.02	25	-0.04	25	-0.02
Depth of soil mixing layer	45	-0.01	45	-0.01	32	-0.03	32	-0.01
Depth of roots	5	0.23	5	0.14	5	0.23	5	0.11
Weathering removal constant of all vegetation	6	-0.19	6	-0.12	4	-0.25	4	-0.11
Wet weight crop yield of fruit, grain and non-leafy vegetables	31	-0.03	31	-0.02	22	-0.04	23	-0.02
Wet foliar interception fraction of leafy vegetables	10	0.11	10	0.06	17	0.05	17	0.02
Indoor dust filtration factor	20	0.06	20	0.03	16	0.06	16	0.03
External gamma shielding factor	12	-0.10	12	-0.06	30	-0.03	30	-0.01
Cover erosion rate	8	0.13	8	0.08	29	-0.03	29	-0.01
Total Porosity of Unsaturated zone 1	32	-0.03	32	-0.02	43	0.02	43	0.01
Effective Porosity of Unsaturated zone 1	41	-0.02	41	-0.01	40	-0.02	40	-0.01
Hydraulic Conductivity of Unsaturated zone 1	51	0.00	51	0.00	42	-0.02	42	-0.01
b Parameter of Unsaturated zone 1	16	0.07	16	0.04	20	0.05	20	0.02
Plant transfer factor for Co	49	0.01	49	0.01	52	0.00	52	0.00
Meat transfer factor for Co	53	0.00	53	0.00	23	-0.04	22	-0.02
Milk transfer factor for Co	26	-0.04	26	-0.02	41	-0.02	41	-0.01
Plant transfer factor for Cs	38	-0.03	37	-0.02	37	0.02	37	0.01
Meat transfer factor for Cs	23	0.05	23	0.03	24	0.04	24	0.02
Milk transfer factor for Cs	33	0.03	33	0.02	36	0.02	36	0.01
Plant transfer factor for Ni	52	0.00	52	0.00	46	0.01	46	0.01
Meat transfer factor for Ni	28	-0.03	28	-0.02	28	-0.03	28	-0.01
Milk transfer factor for Ni	48	-0.01	48	-0.01	44	0.01	44	0.01
Plant transfer factor for Sr	3	0.27	3	0.17	6	0.21	6	0.10
Meat transfer factor for Sr	44	-0.01	44	-0.01	18	0.05	18	0.02
Milk transfer factor for Sr	50	0.01	50	0.01	35	0.02	35	0.01
Density of contaminated zone	14	0.09	14	0.05	9	0.15	9	0.07
Density of Unsaturated zone 1	21	-0.06	21	-0.03	38	-0.02	38	-0.01
Kd of Cs-134 in Contaminated Zone	24	-0.05	24	-0.03	49	0.01	49	0.00
Kd of Cs-134 in Saturated Zone	22	-0.05	22	-0.03	53	0.00	53	0.00
Kd of Cs-137 in Contaminated Zone	18	0.06	18	0.04	26	0.04	26	0.02
Kd of Cs-137 in Saturated Zone	40	-0.02	40	-0.01	27	-0.03	27	-0.01
Kd of Ni-63 in Contaminated Zone	37	-0.03	38	-0.02	19	-0.05	19	-0.02
Kd of Ni-63 in Saturated Zone	39	0.02	39	0.01	21	0.05	21	0.02
Kd of Sr-90 in Contaminated Zone	4	-0.24	4	-0.14	2	-0.38	2	-0.19
Kd of Sr-90 in Saturated Zone	15	-0.07	15	-0.04	11	-0.11	11	-0.05
Kd of Sr-90 in Unsaturated Zone 1	46	0.01	46	0.01	34	0.02	34	0.01
Kd of Ni-63 in Unsaturated Zone 1	25	0.04	25	0.02	51	0.00	51	0.00
Kd of Cs-137 in Unsaturated Zone 1	34	0.03	34	0.02	48	0.01	48	0.00

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 : BP INSITU SAT SEN.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
Density of cover material	50	0.00	50	0.00	52	0.00	52	0.00
Contaminated zone erosion rate	31	0.03	31	0.01	25	0.04	25	0.02
Contaminated zone total porosity	16	-0.06	16	-0.03	12	-0.13	12	-0.05
Contaminated zone hydraulic conductivity	35	-0.02	35	-0.01	36	-0.02	36	-0.01
Contaminated zone b parameter	18	-0.05	18	-0.02	47	-0.01	47	0.00
Evapotranspiration coefficient	42	0.01	42	0.01	40	-0.02	40	-0.01
Wind Speed	36	-0.02	36	-0.01	24	-0.05	24	-0.02
Runoff coefficient	45	-0.01	45	-0.01	22	0.05	22	0.02
Density of saturated zone	10	-0.14	10	-0.07	9	-0.15	9	-0.06
Saturated zone total porosity	13	0.07	13	0.03	11	0.13	11	0.05
Saturated zone effective porosity	11	-0.14	11	-0.07	8	-0.15	8	-0.06
Saturated zone hydraulic conductivity	9	-0.15	9	-0.07	7	-0.15	7	-0.06
Saturated zone hydraulic gradient	2	-0.41	2	-0.22	4	-0.28	4	-0.11
Well pump intake depth	1	-0.85	1	-0.77	1	-0.91	1	-0.87
Mass loading for inhalation	20	0.05	20	0.02	37	0.02	37	0.01
Depth of soil mixing layer	27	-0.03	27	-0.02	48	0.01	48	0.00
Depth of roots	4	0.22	4	0.11	5	0.19	5	0.08
Weathering removal constant of all vegetation	7	-0.18	7	-0.09	3	-0.28	3	-0.11
Wet weight crop yield of fruit, grain and non-leafy vegetables	25	0.04	25	0.02	16	-0.07	16	-0.03
Wet foliar interception fraction of leafy vegetables	19	0.05	19	0.02	14	0.07	14	0.03
Indoor dust filtration factor	37	-0.02	37	-0.01	33	-0.03	33	-0.01
External gamma shielding factor	44	0.01	44	0.01	34	0.03	34	0.01
Cover erosion rate	8	0.17	8	0.08	18	0.06	18	0.02
Total Porosity of Unsaturated zone 1	51	0.00	51	0.00	26	-0.04	26	-0.02
Effective Porosity of Unsaturated zone 1	53	0.00	53	0.00	39	-0.02	39	-0.01
Hydraulic Conductivity of Unsaturated zone 1	26	0.03	26	0.02	21	0.05	21	0.02
b Parameter of Unsaturated zone 1	40	0.01	40	0.01	23	-0.05	23	-0.02
Plant transfer factor for Co	49	-0.01	49	0.00	27	-0.04	27	-0.01
Meat transfer factor for Co	47	0.01	47	0.00	51	0.00	51	0.00
Milk transfer factor for Co	29	0.03	29	0.02	49	0.00	49	0.00
Plant transfer factor for Cs	15	-0.06	15	-0.03	50	0.00	50	0.00
Meat transfer factor for Cs	32	-0.02	32	-0.01	43	-0.01	43	0.00
Milk transfer factor for Cs	39	0.01	39	0.01	35	0.02	35	0.01
Plant transfer factor for Ni	34	-0.02	34	-0.01	46	0.01	46	0.00
Meat transfer factor for Ni	43	0.01	43	0.01	44	0.01	44	0.00
Milk transfer factor for Ni	33	0.02	33	0.01	29	-0.03	29	-0.01
Plant transfer factor for Sr	5	0.20	5	0.10	10	0.14	10	0.05
Meat transfer factor for Sr	46	0.01	46	0.01	38	-0.02	38	-0.01
Milk transfer factor for Sr	52	0.00	52	0.00	28	0.04	28	0.01
Density of contaminated zone	6	0.18	6	0.09	6	0.19	6	0.07
Density of Unsaturated zone 1	28	-0.03	28	-0.02	30	-0.03	30	-0.01
Kd of Cs-134 in Contaminated Zone	22	-0.04	22	-0.02	42	-0.01	42	0.00
Kd of Cs-134 in Saturated Zone	14	-0.06	14	-0.03	20	-0.06	20	-0.02
Kd of Cs-137 in Contaminated Zone	41	-0.01	41	-0.01	45	-0.01	45	0.00
Kd of Cs-137 in Saturated Zone	30	0.03	30	0.02	17	0.06	17	0.02
Kd of Ni-63 in Contaminated Zone	38	0.02	38	0.01	41	0.01	41	0.01
Kd of Ni-63 in Saturated Zone	24	-0.04	24	-0.02	13	-0.09	13	-0.03
Kd of Sr-90 in Contaminated Zone	3	-0.40	3	-0.21	2	-0.43	2	-0.19
Kd of Sr-90 in Saturated Zone	12	-0.11	12	-0.05	15	-0.07	15	-0.03
Kd of Sr-90 in Unsaturated Zone 1	48	-0.01	48	0.00	19	0.06	19	0.02
Kd of Ni-63 in Unsaturated Zone 1	21	0.05	21	0.02	32	0.03	32	0.01
Kd of Cs-137 in Unsaturated Zone 1	23	-0.04	23	-0.02	53	0.00	53	0.00

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.