

Probabilistic results summary : RESRAD Default

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Probabilistic Input

Number of Sample Runs: 300

Number	Name	Distribution	Parameters	
1	DCACTC (2)	UNIFORM	615	635
2	DCACTU1 (2)	UNIFORM	615	635
3	DCACTS (2)	UNIFORM	615	635
4	DCACTC (3)	UNIFORM	615	635
5	DCACTU1 (3)	UNIFORM	615	635
6	DCACTS (3)	UNIFORM	615	635
7	DCACTC (4)	UNIFORM	62	331
8	DCACTU1 (4)	UNIFORM	62	331
9	DCACTS (4)	UNIFORM	62	331
10	DCACTC (5)	UNIFORM	2.3	3.4
11	DCACTU1 (5)	UNIFORM	2.3	3.4
12	DCACTS (5)	UNIFORM	2.3	3.4

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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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60										
Min	0.00E+00	6.54E+00	6.54E+00	5.73E+00	4.40E+00	1.75E+00	1.25E-01	1.23E-05	4.34E-17	0.00E+00
Max	0.00E+00	6.54E+00	6.54E+00	5.73E+00	4.40E+00	1.75E+00	1.25E-01	1.23E-05	4.34E-17	0.00E+00
Avg	0.00E+00	6.54E+00	6.54E+00	5.73E+00	4.40E+00	1.75E+00	1.25E-01	1.23E-05	4.34E-17	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	0.00E+00	0.00E+00
Cs-134										
Min	0.00E+00	5.07E+00	5.07E+00	3.62E+00	1.85E+00	1.75E-01	2.09E-04	1.23E-14	0.00E+00	0.00E+00
Max	0.00E+00	5.07E+00	5.07E+00	3.62E+00	1.85E+00	1.75E-01	2.09E-04	1.23E-14	0.00E+00	0.00E+00
Avg	0.00E+00	5.07E+00	5.07E+00	3.62E+00	1.85E+00	1.75E-01	2.09E-04	1.23E-14	0.00E+00	0.00E+00
Std	0.00E+00	5.84E-06	5.83E-06	1.37E-05	1.67E-05	4.81E-06	1.67E-08	3.24E-18	0.00E+00	0.00E+00
Cs-137										
Min	0.00E+00	2.91E+00	2.91E+00	2.84E+00	2.70E+00	2.28E+00	1.41E+00	2.62E-01	2.09E-03	0.00E+00
Max	0.00E+00	2.91E+00	2.91E+00	2.84E+00	2.70E+00	2.28E+00	1.41E+00	2.62E-01	2.09E-03	0.00E+00
Avg	0.00E+00	2.91E+00	2.91E+00	2.84E+00	2.70E+00	2.28E+00	1.41E+00	2.62E-01	2.09E-03	0.00E+00
Std	0.00E+00	3.43E-06	3.44E-06	1.08E-05	2.45E-05	6.28E-05	1.13E-04	6.93E-05	1.65E-06	0.00E+00
Ni-63										
Min	0.00E+00	2.95E-02	2.95E-02	2.91E-02	2.85E-02	2.63E-02	2.11E-02	9.54E-03	9.13E-04	0.00E+00
Max	0.00E+00	2.95E-02	2.95E-02	2.92E-02	2.87E-02	2.70E-02	2.26E-02	1.20E-02	1.84E-03	6.54E-07
Avg	0.00E+00	2.95E-02	2.95E-02	2.92E-02	2.87E-02	2.68E-02	2.22E-02	1.14E-02	1.57E-03	2.01E-08
Std	0.00E+00	6.78E-06	6.78E-06	2.30E-05	5.47E-05	1.56E-04	3.75E-04	6.20E-04	2.39E-04	8.52E-08
Sr-90										
Min	0.00E+00	1.34E+01	1.34E+01	1.21E+01	9.91E+00	4.87E+00	6.39E-01	1.18E-01	1.96E-10	0.00E+00
Max	0.00E+00	1.36E+01	1.36E+01	1.26E+01	1.08E+01	6.27E+00	1.80E+00	6.44E-01	8.33E-08	0.00E+00
Avg	0.00E+00	1.35E+01	1.35E+01	1.24E+01	1.04E+01	5.63E+00	1.05E+00	3.15E-01	1.54E-08	0.00E+00
Std	0.00E+00	4.13E-02	4.13E-02	1.23E-01	2.48E-01	4.05E-01	2.53E-01	1.07E-01	1.81E-08	0.00E+00
ΣALL										
Min	0.00E+00	2.80E+01	2.80E+01	2.44E+01	1.89E+01	9.10E+00	2.20E+00	3.92E-01	3.00E-03	0.00E+00
Max	0.00E+00	2.81E+01	2.81E+01	2.48E+01	1.98E+01	1.05E+01	3.36E+00	9.18E-01	3.93E-03	6.54E-07
Avg	0.00E+00	2.81E+01	2.81E+01	2.46E+01	1.94E+01	9.86E+00	2.61E+00	5.89E-01	3.66E-03	2.01E-08
Std	0.00E+00	4.13E-02	4.13E-02	1.23E-01	2.48E-01	4.05E-01	2.53E-01	1.07E-01	2.39E-04	8.52E-08

ΣALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.62E-04	1.42E-04	1.09E-04	4.33E-05	3.10E-06	3.04E-10	1.07E-21	0.00E+00
Max	1.62E-04	1.42E-04	1.09E-04	4.33E-05	3.10E-06	3.04E-10	1.07E-21	0.00E+00
Avg	1.62E-04	1.42E-04	1.09E-04	4.33E-05	3.10E-06	3.04E-10	1.07E-21	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	1.31E-04	9.34E-05	4.76E-05	4.52E-06	5.39E-09	3.17E-19	0.00E+00	0.00E+00
Max	1.31E-04	9.34E-05	4.76E-05	4.52E-06	5.40E-09	3.17E-19	0.00E+00	0.00E+00
Avg	1.31E-04	9.34E-05	4.76E-05	4.52E-06	5.39E-09	3.17E-19	0.00E+00	0.00E+00
Std	0.00E+00	2.37E-10	3.71E-10	1.18E-10	4.25E-13	8.34E-23	0.00E+00	0.00E+00
Cs-137								
Min	6.59E-05	6.43E-05	6.13E-05	5.18E-05	3.20E-05	5.94E-06	4.73E-08	0.00E+00
Max	6.59E-05	6.43E-05	6.13E-05	5.18E-05	3.21E-05	5.95E-06	4.74E-08	0.00E+00
Avg	6.59E-05	6.43E-05	6.13E-05	5.18E-05	3.20E-05	5.95E-06	4.74E-08	0.00E+00
Std	0.00E+00	1.61E-10	4.76E-10	1.36E-09	2.52E-09	1.56E-09	3.74E-11	0.00E+00
Ni-63								
Min	1.46E-06	1.45E-06	1.42E-06	1.31E-06	1.05E-06	4.74E-07	4.54E-08	0.00E+00
Max	1.46E-06	1.45E-06	1.43E-06	1.34E-06	1.12E-06	5.98E-07	9.12E-08	2.93E-11
Avg	1.46E-06	1.45E-06	1.42E-06	1.33E-06	1.10E-06	5.66E-07	7.79E-08	8.97E-13
Std	0.00E+00	7.35E-10	2.32E-09	7.39E-09	1.83E-08	3.07E-08	1.18E-08	3.81E-12
Sr-90								
Min	2.63E-04	2.39E-04	1.95E-04	9.58E-05	1.26E-05	1.94E-06	3.22E-15	0.00E+00
Max	2.63E-04	2.45E-04	2.10E-04	1.22E-04	3.08E-05	1.05E-05	1.36E-12	0.00E+00
Avg	2.63E-04	2.42E-04	2.03E-04	1.10E-04	1.99E-05	5.15E-06	2.51E-13	0.00E+00
Std	0.00E+00	1.58E-06	4.15E-06	7.54E-06	4.19E-06	1.75E-06	2.95E-13	0.00E+00
ΣALL								
Min	6.23E-04	5.40E-04	4.14E-04	1.97E-04	4.88E-05	8.48E-06	9.27E-08	0.00E+00
Max	6.23E-04	5.46E-04	4.29E-04	2.23E-04	6.71E-05	1.70E-05	1.39E-07	2.93E-11
Avg	6.23E-04	5.43E-04	4.22E-04	2.11E-04	5.61E-05	1.17E-05	1.25E-07	8.97E-13
Std	0.00E+00	1.58E-06	4.15E-06	7.54E-06	4.19E-06	1.75E-06	1.18E-08	3.81E-12

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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	5.64E+00	4.95E+00	3.80E+00	1.51E+00	1.09E-01	1.08E-05	3.97E-17	0.00E+00
Max	5.64E+00	4.95E+00	3.80E+00	1.51E+00	1.09E-01	1.08E-05	3.97E-17	0.00E+00
Avg	5.64E+00	4.95E+00	3.80E+00	1.51E+00	1.09E-01	1.08E-05	3.97E-17	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	2.98E+00	2.13E+00	1.09E+00	1.04E-01	1.25E-04	7.64E-15	0.00E+00	0.00E+00
Max	2.98E+00	2.13E+00	1.09E+00	1.04E-01	1.25E-04	7.64E-15	0.00E+00	0.00E+00
Avg	2.98E+00	2.13E+00	1.09E+00	1.04E-01	1.25E-04	7.64E-15	0.00E+00	0.00E+00
Std	3.69E-06	8.24E-06	9.94E-06	2.85E-06	1.00E-08	2.02E-18	0.00E+00	0.00E+00
Cs-137								
Min	1.25E+00	1.22E+00	1.16E+00	9.89E-01	6.21E-01	1.22E-01	1.16E-03	0.00E+00
Max	1.25E+00	1.22E+00	1.16E+00	9.89E-01	6.21E-01	1.22E-01	1.16E-03	0.00E+00
Avg	1.25E+00	1.22E+00	1.16E+00	9.89E-01	6.21E-01	1.22E-01	1.16E-03	0.00E+00
Std	1.63E-06	4.80E-06	1.07E-05	2.73E-05	4.98E-05	3.22E-05	9.19E-07	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	8.70E-03	7.87E-03	6.44E-03	3.20E-03	4.32E-04	3.91E-07	7.87E-16	0.00E+00
Max	8.81E-03	8.16E-03	7.01E-03	4.12E-03	9.04E-04	4.46E-06	1.15E-12	0.00E+00
Avg	8.76E-03	8.04E-03	6.76E-03	3.70E-03	6.69E-04	1.92E-06	2.07E-13	0.00E+00
Std	3.01E-05	8.34E-05	1.64E-04	2.68E-04	1.38E-04	1.18E-06	2.90E-13	0.00E+00
ΣALL								
Min	9.88E+00	8.31E+00	6.06E+00	2.61E+00	7.30E-01	1.22E-01	1.16E-03	0.00E+00
Max	9.88E+00	8.31E+00	6.06E+00	2.61E+00	7.31E-01	1.22E-01	1.16E-03	0.00E+00
Avg	9.88E+00	8.31E+00	6.06E+00	2.61E+00	7.31E-01	1.22E-01	1.16E-03	0.00E+00
Std	3.03E-05	8.40E-05	1.65E-04	2.69E-04	1.46E-04	3.22E-05	9.19E-07	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.97E-06	1.73E-06	1.33E-06	5.29E-07	3.80E-08	3.78E-12	1.39E-23	0.00E+00
Max	1.97E-06	1.73E-06	1.33E-06	5.29E-07	3.80E-08	3.78E-12	1.39E-23	0.00E+00
Avg	1.97E-06	1.73E-06	1.33E-06	5.29E-07	3.80E-08	3.78E-12	1.39E-23	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	3.77E-07	2.69E-07	1.38E-07	1.31E-08	1.58E-11	9.66E-22	0.00E+00	0.00E+00
Max	3.77E-07	2.70E-07	1.38E-07	1.31E-08	1.58E-11	9.66E-22	0.00E+00	0.00E+00
Avg	3.77E-07	2.70E-07	1.38E-07	1.31E-08	1.58E-11	9.66E-22	0.00E+00	0.00E+00
Std	4.67E-13	1.04E-12	1.26E-12	3.61E-13	1.27E-15	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	3.03E-07	2.96E-07	2.83E-07	2.40E-07	1.51E-07	2.96E-08	2.82E-10	0.00E+00
Max	3.03E-07	2.96E-07	2.83E-07	2.40E-07	1.51E-07	2.96E-08	2.83E-10	0.00E+00
Avg	3.03E-07	2.96E-07	2.83E-07	2.40E-07	1.51E-07	2.96E-08	2.82E-10	0.00E+00
Std	3.96E-13	1.17E-12	2.60E-12	6.63E-12	1.21E-11	7.82E-12	2.23E-13	0.00E+00
Ni-63								
Min	6.02E-08	5.96E-08	5.84E-08	5.45E-08	4.48E-08	2.26E-08	3.19E-09	0.00E+00
Max	6.02E-08	5.98E-08	5.89E-08	5.59E-08	4.81E-08	2.86E-08	6.42E-09	0.00E+00
Avg	6.02E-08	5.97E-08	5.88E-08	5.56E-08	4.73E-08	2.70E-08	5.48E-09	0.00E+00
Std	1.69E-11	5.03E-11	1.15E-10	3.27E-10	8.02E-10	1.47E-09	8.35E-10	0.00E+00
Sr-90								
Min	1.20E-05	1.08E-05	8.86E-06	4.40E-06	5.94E-07	5.37E-10	1.08E-18	0.00E+00
Max	1.21E-05	1.12E-05	9.64E-06	5.67E-06	1.24E-06	6.14E-09	1.58E-15	0.00E+00
Avg	1.20E-05	1.10E-05	9.30E-06	5.09E-06	9.20E-07	2.64E-09	2.85E-16	0.00E+00
Std	4.13E-08	1.15E-07	2.25E-07	3.68E-07	1.89E-07	1.63E-09	3.99E-16	0.00E+00
ΣALL								
Min	1.47E-05	1.32E-05	1.07E-05	5.23E-06	8.29E-07	5.35E-08	3.47E-09	0.00E+00
Max	1.48E-05	1.36E-05	1.15E-05	6.51E-06	1.48E-06	6.41E-08	6.70E-09	0.00E+00
Avg	1.48E-05	1.34E-05	1.11E-05	5.92E-06	1.16E-06	5.93E-08	5.76E-09	0.00E+00
Std	4.13E-08	1.15E-07	2.25E-07	3.68E-07	1.89E-07	2.19E-09	8.35E-10	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	4.13E-01	3.62E-01	2.77E-01	1.09E-01	7.60E-03	6.73E-07	1.60E-18	0.00E+00
Max	4.13E-01	3.62E-01	2.77E-01	1.09E-01	7.60E-03	6.73E-07	1.60E-18	0.00E+00
Avg	4.13E-01	3.62E-01	2.77E-01	1.09E-01	7.60E-03	6.73E-07	1.60E-18	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	5.31E-01	3.79E-01	1.93E-01	1.82E-02	2.12E-05	1.15E-15	0.00E+00	0.00E+00
Max	5.31E-01	3.79E-01	1.93E-01	1.82E-02	2.13E-05	1.16E-15	0.00E+00	0.00E+00
Avg	5.31E-01	3.79E-01	1.93E-01	1.82E-02	2.12E-05	1.16E-15	0.00E+00	0.00E+00
Std	6.14E-07	1.44E-06	1.74E-06	4.99E-07	1.70E-09	3.05E-19	0.00E+00	0.00E+00
Cs-137								
Min	4.21E-01	4.11E-01	3.91E-01	3.29E-01	2.00E-01	3.50E-02	2.15E-04	0.00E+00
Max	4.21E-01	4.11E-01	3.91E-01	3.29E-01	2.00E-01	3.50E-02	2.16E-04	0.00E+00
Avg	4.21E-01	4.11E-01	3.91E-01	3.29E-01	2.00E-01	3.50E-02	2.16E-04	0.00E+00
Std	5.14E-07	1.59E-06	3.56E-06	9.05E-06	1.60E-05	9.24E-06	1.70E-07	0.00E+00
Ni-63								
Min	5.77E-03	5.71E-03	5.58E-03	5.16E-03	4.11E-03	1.84E-03	1.68E-04	0.00E+00
Max	5.78E-03	5.73E-03	5.63E-03	5.28E-03	4.41E-03	2.33E-03	3.39E-04	0.00E+00
Avg	5.78E-03	5.72E-03	5.61E-03	5.25E-03	4.34E-03	2.20E-03	2.89E-04	0.00E+00
Std	1.52E-06	4.71E-06	1.09E-05	3.08E-05	7.34E-05	1.20E-04	4.40E-05	0.00E+00
Sr-90								
Min	9.40E+00	8.49E+00	6.93E+00	3.40E+00	4.45E-01	3.59E-04	4.67E-13	0.00E+00
Max	9.50E+00	8.79E+00	7.53E+00	4.38E+00	9.32E-01	4.09E-03	6.80E-10	0.00E+00
Avg	9.45E+00	8.66E+00	7.26E+00	3.93E+00	6.90E-01	1.76E-03	1.23E-10	0.00E+00
Std	3.05E-02	8.80E-02	1.75E-01	2.84E-01	1.42E-01	1.09E-03	1.72E-10	0.00E+00
ΣALL								
Min	1.08E+01	9.65E+00	7.79E+00	3.86E+00	6.57E-01	3.74E-02	3.84E-04	0.00E+00
Max	1.09E+01	9.95E+00	8.40E+00	4.84E+00	1.14E+00	4.14E-02	5.55E-04	0.00E+00
Avg	1.08E+01	9.82E+00	8.13E+00	4.39E+00	9.02E-01	3.89E-02	5.05E-04	0.00E+00
Std	3.05E-02	8.80E-02	1.75E-01	2.84E-01	1.42E-01	1.09E-03	4.40E-05	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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	3.79E-01	3.31E-01	2.54E-01	1.00E-01	7.01E-03	6.30E-07	1.62E-18	0.00E+00
Max	3.79E-01	3.31E-01	2.54E-01	1.00E-01	7.01E-03	6.30E-07	1.62E-18	0.00E+00
Avg	3.79E-01	3.31E-01	2.54E-01	1.00E-01	7.01E-03	6.30E-07	1.62E-18	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	6.08E-01	4.34E-01	2.21E-01	2.09E-02	2.46E-05	1.37E-15	0.00E+00	0.00E+00
Max	6.08E-01	4.34E-01	2.21E-01	2.09E-02	2.46E-05	1.38E-15	0.00E+00	0.00E+00
Avg	6.08E-01	4.34E-01	2.21E-01	2.09E-02	2.46E-05	1.37E-15	0.00E+00	0.00E+00
Std	6.09E-07	1.57E-06	1.96E-06	5.69E-07	1.97E-09	3.63E-19	0.00E+00	0.00E+00
Cs-137								
Min	4.83E-01	4.71E-01	4.49E-01	3.78E-01	2.32E-01	4.16E-02	2.91E-04	0.00E+00
Max	4.83E-01	4.71E-01	4.49E-01	3.78E-01	2.32E-01	4.16E-02	2.92E-04	0.00E+00
Avg	4.83E-01	4.71E-01	4.49E-01	3.78E-01	2.32E-01	4.16E-02	2.91E-04	0.00E+00
Std	5.12E-07	1.74E-06	4.01E-06	1.03E-05	1.85E-05	1.10E-05	2.30E-07	0.00E+00
Ni-63								
Min	4.92E-04	4.87E-04	4.76E-04	4.41E-04	3.54E-04	1.62E-04	1.66E-05	0.00E+00
Max	4.93E-04	4.88E-04	4.80E-04	4.52E-04	3.80E-04	2.05E-04	3.34E-05	0.00E+00
Avg	4.93E-04	4.88E-04	4.79E-04	4.49E-04	3.73E-04	1.94E-04	2.85E-05	0.00E+00
Std	1.12E-07	3.83E-07	9.13E-07	2.61E-06	6.30E-06	1.06E-05	4.34E-06	0.00E+00
Sr-90								
Min	1.08E+00	9.79E-01	7.99E-01	3.92E-01	5.14E-02	4.16E-05	5.54E-14	0.00E+00
Max	1.09E+00	1.01E+00	8.67E-01	5.05E-01	1.07E-01	4.74E-04	8.05E-11	0.00E+00
Avg	1.09E+00	9.98E-01	8.37E-01	4.53E-01	7.96E-02	2.04E-04	1.46E-11	0.00E+00
Std	2.89E-03	9.51E-03	1.96E-02	3.24E-02	1.63E-02	1.26E-04	2.04E-11	0.00E+00
ΣALL								
Min	2.55E+00	2.22E+00	1.72E+00	8.92E-01	2.91E-01	4.18E-02	3.07E-04	0.00E+00
Max	2.56E+00	2.25E+00	1.79E+00	1.00E+00	3.47E-01	4.23E-02	3.25E-04	0.00E+00
Avg	2.56E+00	2.23E+00	1.76E+00	9.53E-01	3.19E-01	4.20E-02	3.20E-04	0.00E+00
Std	2.89E-03	9.51E-03	1.96E-02	3.24E-02	1.63E-02	1.27E-04	4.34E-06	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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.00E-01	8.75E-02	6.71E-02	2.64E-02	1.84E-03	1.65E-07	4.06E-19	0.00E+00
Max	1.00E-01	8.75E-02	6.71E-02	2.64E-02	1.84E-03	1.65E-07	4.06E-19	0.00E+00
Avg	1.00E-01	8.75E-02	6.71E-02	2.64E-02	1.84E-03	1.65E-07	4.06E-19	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	9.48E-01	6.76E-01	3.45E-01	3.25E-02	3.81E-05	2.10E-15	0.00E+00	0.00E+00
Max	9.48E-01	6.76E-01	3.45E-01	3.25E-02	3.82E-05	2.10E-15	0.00E+00	0.00E+00
Avg	9.48E-01	6.76E-01	3.45E-01	3.25E-02	3.81E-05	2.10E-15	0.00E+00	0.00E+00
Std	9.20E-07	2.42E-06	3.04E-06	8.85E-07	3.05E-09	5.55E-19	0.00E+00	0.00E+00
Cs-137								
Min	7.52E-01	7.34E-01	6.99E-01	5.88E-01	3.59E-01	6.36E-02	4.19E-04	0.00E+00
Max	7.52E-01	7.34E-01	6.99E-01	5.88E-01	3.59E-01	6.37E-02	4.20E-04	0.00E+00
Avg	7.52E-01	7.34E-01	6.99E-01	5.88E-01	3.59E-01	6.36E-02	4.19E-04	0.00E+00
Std	7.80E-07	2.67E-06	6.22E-06	1.61E-05	2.87E-05	1.68E-05	3.31E-07	0.00E+00
Ni-63								
Min	2.32E-02	2.29E-02	2.24E-02	2.07E-02	1.66E-02	7.53E-03	7.28E-04	0.00E+00
Max	2.32E-02	2.30E-02	2.26E-02	2.12E-02	1.78E-02	9.50E-03	1.46E-03	0.00E+00
Avg	2.32E-02	2.30E-02	2.26E-02	2.11E-02	1.75E-02	8.99E-03	1.25E-03	0.00E+00
Std	5.14E-06	1.79E-05	4.28E-05	1.23E-04	2.95E-04	4.90E-04	1.90E-04	0.00E+00
Sr-90								
Min	2.95E+00	2.67E+00	2.18E+00	1.07E+00	1.40E-01	1.13E-04	1.49E-13	0.00E+00
Max	2.98E+00	2.76E+00	2.36E+00	1.38E+00	2.93E-01	1.29E-03	2.16E-10	0.00E+00
Avg	2.97E+00	2.72E+00	2.28E+00	1.24E+00	2.17E-01	5.55E-04	3.91E-11	0.00E+00
Std	7.85E-03	2.59E-02	5.34E-02	8.84E-02	4.44E-02	3.42E-04	5.47E-11	0.00E+00
ΣALL								
Min	4.78E+00	4.19E+00	3.31E+00	1.74E+00	5.19E-01	7.15E-02	1.15E-03	0.00E+00
Max	4.80E+00	4.28E+00	3.50E+00	2.04E+00	6.71E-01	7.44E-02	1.88E-03	0.00E+00
Avg	4.79E+00	4.24E+00	3.42E+00	1.90E+00	5.96E-01	7.32E-02	1.67E-03	0.00E+00
Std	7.85E-03	2.59E-02	5.34E-02	8.84E-02	4.44E-02	5.95E-04	1.90E-04	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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	3.57E-04	3.13E-04	2.40E-04	9.56E-05	6.87E-06	6.83E-10	2.51E-21	0.00E+00
Max	3.57E-04	3.13E-04	2.40E-04	9.56E-05	6.87E-06	6.83E-10	2.51E-21	0.00E+00
Avg	3.57E-04	3.13E-04	2.40E-04	9.56E-05	6.87E-06	6.83E-10	2.51E-21	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	8.81E-04	6.29E-04	3.21E-04	3.06E-05	3.69E-08	2.25E-18	0.00E+00	0.00E+00
Max	8.81E-04	6.29E-04	3.21E-04	3.06E-05	3.69E-08	2.26E-18	0.00E+00	0.00E+00
Avg	8.81E-04	6.29E-04	3.21E-04	3.06E-05	3.69E-08	2.26E-18	0.00E+00	0.00E+00
Std	1.09E-09	2.44E-09	2.93E-09	8.42E-10	2.96E-12	5.96E-22	0.00E+00	0.00E+00
Cs-137								
Min	6.99E-04	6.83E-04	6.52E-04	5.54E-04	3.48E-04	6.83E-05	6.50E-07	0.00E+00
Max	6.99E-04	6.83E-04	6.52E-04	5.54E-04	3.48E-04	6.83E-05	6.52E-07	0.00E+00
Avg	6.99E-04	6.83E-04	6.52E-04	5.54E-04	3.48E-04	6.83E-05	6.51E-07	0.00E+00
Std	9.16E-10	2.69E-09	6.00E-09	1.53E-08	2.79E-08	1.80E-08	5.15E-10	0.00E+00
Ni-63								
Min	8.12E-06	8.04E-06	7.89E-06	7.37E-06	6.06E-06	3.05E-06	4.31E-07	0.00E+00
Max	8.13E-06	8.07E-06	7.95E-06	7.55E-06	6.50E-06	3.86E-06	8.67E-07	0.00E+00
Avg	8.13E-06	8.06E-06	7.94E-06	7.50E-06	6.39E-06	3.65E-06	7.40E-07	0.00E+00
Std	2.28E-09	6.79E-09	1.56E-08	4.41E-08	1.08E-07	1.99E-07	1.13E-07	0.00E+00
Sr-90								
Min	2.06E-03	1.86E-03	1.52E-03	7.56E-04	1.02E-04	9.23E-08	1.86E-16	0.00E+00
Max	2.08E-03	1.93E-03	1.66E-03	9.75E-04	2.14E-04	1.05E-06	2.71E-13	0.00E+00
Avg	2.07E-03	1.90E-03	1.60E-03	8.74E-04	1.58E-04	4.54E-07	4.90E-14	0.00E+00
Std	7.10E-06	1.97E-05	3.88E-05	6.33E-05	3.25E-05	2.80E-07	6.85E-14	0.00E+00
ΣALL								
Min	4.00E-03	3.49E-03	2.74E-03	1.44E-03	4.63E-04	7.15E-05	1.08E-06	0.00E+00
Max	4.03E-03	3.56E-03	2.88E-03	1.66E-03	5.75E-04	7.32E-05	1.52E-06	0.00E+00
Avg	4.02E-03	3.53E-03	2.82E-03	1.56E-03	5.19E-04	7.24E-05	1.39E-06	0.00E+00
Std	7.10E-06	1.97E-05	3.88E-05	6.33E-05	3.25E-05	3.43E-07	1.13E-07	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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+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	2.12E-07
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-09
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-08
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	1.44E-10	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-01	4.73E-01	6.12E-08	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-02	2.32E-01	1.13E-08	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	7.92E-02	1.33E-08	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	1.44E-10	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-01	4.73E-01	6.12E-08	2.12E-07
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-02	2.32E-01	1.13E-08	6.52E-09
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	7.92E-02	1.33E-08	2.77E-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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.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	3.00E+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	1.71E-08
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-09
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03	1.41E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-02	4.61E-02	5.97E-09	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	2.26E-02	1.10E-09	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	7.72E-03	1.29E-09	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03	1.41E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-02	4.61E-02	5.97E-09	1.71E-08
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	2.26E-02	1.10E-09	5.26E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	7.72E-03	1.29E-09	2.23E-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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

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

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
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	1.14E-08
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-09
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-03	1.25E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-02	4.10E-02	5.31E-09	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	2.01E-02	9.78E-10	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	6.87E-03	1.15E-09	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-03	1.25E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-02	4.10E-02	5.31E-09	1.14E-08
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	2.01E-02	9.78E-10	3.49E-10
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	6.87E-03	1.15E-09	1.48E-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\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

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	3.00E+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	4.13E-07
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-08
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-08
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02	2.41E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	7.89E-02	1.02E-08	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-03	3.86E-02	1.88E-09	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	1.32E-02	2.21E-09	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-02	2.41E-11	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	7.89E-02	1.02E-08	4.13E-07
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-03	3.86E-02	1.88E-09	1.27E-08
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	1.32E-02	2.21E-09	5.38E-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	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	2.80E+01	2.44E+01	1.89E+01	9.15E+00	2.23E+00	4.18E-01	3.08E-03	0.00E+00
0.050	2.80E+01	2.44E+01	1.90E+01	9.19E+00	2.24E+00	4.25E-01	3.14E-03	0.00E+00
0.075	2.80E+01	2.44E+01	1.90E+01	9.23E+00	2.26E+00	4.40E-01	3.22E-03	0.00E+00
0.100	2.80E+01	2.44E+01	1.90E+01	9.27E+00	2.28E+00	4.52E-01	3.27E-03	0.00E+00
0.125	2.80E+01	2.44E+01	1.90E+01	9.32E+00	2.30E+00	4.65E-01	3.32E-03	0.00E+00
0.150	2.80E+01	2.44E+01	1.91E+01	9.35E+00	2.32E+00	4.76E-01	3.36E-03	0.00E+00
0.175	2.80E+01	2.45E+01	1.91E+01	9.40E+00	2.34E+00	4.84E-01	3.41E-03	0.00E+00
0.200	2.80E+01	2.45E+01	1.91E+01	9.44E+00	2.35E+00	4.99E-01	3.45E-03	0.00E+00
0.225	2.80E+01	2.45E+01	1.91E+01	9.49E+00	2.38E+00	5.06E-01	3.49E-03	0.00E+00
0.250	2.80E+01	2.45E+01	1.92E+01	9.53E+00	2.40E+00	5.16E-01	3.53E-03	0.00E+00
0.275	2.80E+01	2.45E+01	1.92E+01	9.57E+00	2.42E+00	5.24E-01	3.54E-03	0.00E+00
0.300	2.80E+01	2.45E+01	1.92E+01	9.60E+00	2.44E+00	5.27E-01	3.57E-03	0.00E+00
0.325	2.80E+01	2.45E+01	1.92E+01	9.64E+00	2.47E+00	5.31E-01	3.60E-03	0.00E+00
0.350	2.80E+01	2.46E+01	1.93E+01	9.68E+00	2.50E+00	5.39E-01	3.62E-03	0.00E+00
0.375	2.80E+01	2.46E+01	1.93E+01	9.71E+00	2.52E+00	5.46E-01	3.64E-03	0.00E+00
0.400	2.81E+01	2.46E+01	1.93E+01	9.75E+00	2.53E+00	5.50E-01	3.66E-03	0.00E+00
0.425	2.81E+01	2.46E+01	1.93E+01	9.79E+00	2.55E+00	5.55E-01	3.68E-03	0.00E+00
0.450	2.81E+01	2.46E+01	1.94E+01	9.83E+00	2.56E+00	5.59E-01	3.70E-03	0.00E+00
0.475	2.81E+01	2.46E+01	1.94E+01	9.86E+00	2.58E+00	5.65E-01	3.72E-03	0.00E+00
0.500	2.81E+01	2.46E+01	1.94E+01	9.90E+00	2.61E+00	5.72E-01	3.73E-03	0.00E+00
0.525	2.81E+01	2.46E+01	1.94E+01	9.93E+00	2.63E+00	5.79E-01	3.75E-03	0.00E+00
0.550	2.81E+01	2.46E+01	1.94E+01	9.96E+00	2.65E+00	5.87E-01	3.76E-03	0.00E+00
0.575	2.81E+01	2.46E+01	1.95E+01	9.99E+00	2.67E+00	5.98E-01	3.78E-03	0.00E+00
0.600	2.81E+01	2.47E+01	1.95E+01	1.00E+01	2.68E+00	6.05E-01	3.79E-03	0.00E+00
0.625	2.81E+01	2.47E+01	1.95E+01	1.01E+01	2.71E+00	6.17E-01	3.80E-03	0.00E+00
0.650	2.81E+01	2.47E+01	1.95E+01	1.01E+01	2.72E+00	6.21E-01	3.81E-03	0.00E+00
0.675	2.81E+01	2.47E+01	1.95E+01	1.01E+01	2.73E+00	6.27E-01	3.82E-03	0.00E+00
0.700	2.81E+01	2.47E+01	1.96E+01	1.02E+01	2.74E+00	6.37E-01	3.83E-03	0.00E+00
0.725	2.81E+01	2.47E+01	1.96E+01	1.02E+01	2.75E+00	6.49E-01	3.84E-03	0.00E+00
0.750	2.81E+01	2.47E+01	1.96E+01	1.02E+01	2.78E+00	6.61E-01	3.85E-03	0.00E+00
0.775	2.81E+01	2.47E+01	1.96E+01	1.02E+01	2.80E+00	6.73E-01	3.86E-03	0.00E+00
0.800	2.81E+01	2.47E+01	1.96E+01	1.03E+01	2.82E+00	6.82E-01	3.87E-03	0.00E+00
0.825	2.81E+01	2.47E+01	1.96E+01	1.03E+01	2.84E+00	6.91E-01	3.88E-03	0.00E+00
0.850	2.81E+01	2.47E+01	1.97E+01	1.03E+01	2.86E+00	7.02E-01	3.88E-03	0.00E+00
0.875	2.81E+01	2.48E+01	1.97E+01	1.04E+01	2.88E+00	7.25E-01	3.89E-03	0.00E+00
0.900	2.81E+01	2.48E+01	1.97E+01	1.04E+01	2.89E+00	7.41E-01	3.90E-03	0.00E+00
0.925	2.81E+01	2.48E+01	1.97E+01	1.04E+01	2.99E+00	7.58E-01	3.91E-03	4.07E-08
0.950	2.81E+01	2.48E+01	1.97E+01	1.05E+01	3.09E+00	7.74E-01	3.92E-03	1.62E-07
0.975	2.81E+01	2.48E+01	1.97E+01	1.05E+01	3.20E+00	8.33E-01	3.92E-03	3.73E-07
1.000	2.81E+01	2.48E+01	1.98E+01	1.05E+01	3.36E+00	9.18E-01	3.93E-03	6.54E-07

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	2.80E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01
1.00E+00	2.44E+01	2.48E+01	2.46E+01	2.46E+01	2.48E+01	2.48E+01	2.48E+01	2.48E+01
1.30E+00	2.34E+01	2.39E+01	2.37E+01	2.37E+01	2.39E+01	2.39E+01	2.39E+01	2.39E+01
1.70E+00	2.22E+01	2.28E+01	2.25E+01	2.26E+01	2.28E+01	2.28E+01	2.28E+01	2.28E+01
2.22E+00	2.08E+01	2.15E+01	2.12E+01	2.12E+01	2.15E+01	2.15E+01	2.15E+01	2.15E+01
2.89E+00	1.91E+01	2.00E+01	1.96E+01	1.96E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01
3.00E+00	1.89E+01	1.98E+01	1.94E+01	1.94E+01	1.97E+01	1.97E+01	1.97E+01	1.98E+01
3.78E+00	1.72E+01	1.82E+01	1.78E+01	1.78E+01	1.82E+01	1.82E+01	1.82E+01	1.82E+01
4.92E+00	1.51E+01	1.63E+01	1.58E+01	1.58E+01	1.62E+01	1.62E+01	1.63E+01	1.63E+01
6.42E+00	1.29E+01	1.42E+01	1.36E+01	1.36E+01	1.41E+01	1.41E+01	1.42E+01	1.42E+01
8.38E+00	1.06E+01	1.20E+01	1.14E+01	1.14E+01	1.19E+01	1.19E+01	1.20E+01	1.20E+01
1.10E+01	9.10E+00	1.05E+01	9.86E+00	9.89E+00	1.04E+01	1.05E+01	1.05E+01	1.05E+01
1.09E+01	8.37E+00	9.77E+00	9.13E+00	9.15E+00	9.67E+00	9.72E+00	9.75E+00	9.77E+00
1.43E+01	6.29E+00	7.64E+00	7.01E+00	7.03E+00	7.54E+00	7.59E+00	7.62E+00	7.64E+00
1.86E+01	4.49E+00	5.68E+00	5.12E+00	5.13E+00	5.59E+00	5.64E+00	5.66E+00	5.68E+00
2.42E+01	3.06E+00	4.00E+00	3.54E+00	3.54E+00	3.92E+00	3.96E+00	3.98E+00	4.00E+00
3.00E+01	2.22E+00	3.36E+00	2.61E+00	2.62E+00	2.88E+00	3.13E+00	3.25E+00	3.36E+00
3.16E+01	2.04E+00	3.57E+00	2.52E+00	2.48E+00	3.08E+00	3.36E+00	3.50E+00	3.56E+00
4.12E+01	1.43E+00	4.30E+00	2.91E+00	2.97E+00	3.93E+00	4.12E+00	4.15E+00	4.30E+00
5.38E+01	2.49E+00	3.95E+00	3.15E+00	3.14E+00	3.65E+00	3.81E+00	3.89E+00	3.95E+00
7.02E+01	2.09E+00	2.92E+00	2.48E+00	2.47E+00	2.77E+00	2.85E+00	2.90E+00	2.92E+00
9.15E+01	6.12E-01	1.42E+00	9.93E-01	9.68E-01	1.31E+00	1.39E+00	1.41E+00	1.42E+00
1.00E+02	3.92E-01	8.80E-01	5.89E-01	5.75E-01	7.34E-01	7.68E-01	8.52E-01	8.80E-01
1.19E+02	1.91E-01	2.96E-01	2.32E-01	2.29E-01	2.58E-01	2.74E-01	2.88E-01	2.96E-01
1.56E+02	7.50E-02	8.20E-02	7.77E-02	7.76E-02	7.97E-02	8.01E-02	8.10E-02	8.20E-02
2.03E+02	2.48E-02	2.66E-02	2.60E-02	2.62E-02	2.65E-02	2.65E-02	2.65E-02	2.66E-02
2.65E+02	6.30E-03	7.47E-03	7.14E-03	7.24E-03	7.45E-03	7.47E-03	7.47E-03	7.47E-03
3.00E+02	3.01E-03	3.92E-03	3.66E-03	3.73E-03	3.90E-03	3.92E-03	3.92E-03	3.92E-03
3.46E+02	1.22E-03	1.86E-03	1.67E-03	1.72E-03	1.84E-03	1.85E-03	1.86E-03	1.86E-03
4.51E+02	1.90E-04	4.36E-04	3.59E-04	3.78E-04	4.29E-04	4.33E-04	4.36E-04	4.36E-04
5.88E+02	1.77E-05	6.34E-05	4.81E-05	5.15E-05	6.19E-05	6.28E-05	6.33E-05	6.34E-05
7.67E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+03	0.00E+00	6.54E-07	2.19E-08	0.00E+00	0.00E+00	2.70E-07	3.96E-07	6.51E-07

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	2.80E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01
1.00E+00	2.44E+01	2.48E+01	2.46E+01	2.46E+01	2.48E+01	2.48E+01	2.48E+01	2.48E+01
1.30E+00	2.34E+01	2.39E+01	2.37E+01	2.37E+01	2.39E+01	2.39E+01	2.39E+01	2.39E+01
1.70E+00	2.22E+01	2.28E+01	2.25E+01	2.26E+01	2.28E+01	2.28E+01	2.28E+01	2.28E+01
2.22E+00	2.08E+01	2.15E+01	2.12E+01	2.12E+01	2.15E+01	2.15E+01	2.15E+01	2.15E+01
2.89E+00	1.91E+01	2.00E+01	1.96E+01	1.96E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01
3.00E+00	1.89E+01	1.98E+01	1.94E+01	1.94E+01	1.97E+01	1.97E+01	1.97E+01	1.98E+01
3.78E+00	1.72E+01	1.82E+01	1.78E+01	1.78E+01	1.82E+01	1.82E+01	1.82E+01	1.82E+01
4.92E+00	1.51E+01	1.63E+01	1.58E+01	1.58E+01	1.62E+01	1.62E+01	1.63E+01	1.63E+01
6.42E+00	1.29E+01	1.42E+01	1.36E+01	1.36E+01	1.41E+01	1.41E+01	1.42E+01	1.42E+01
8.38E+00	1.06E+01	1.20E+01	1.14E+01	1.14E+01	1.19E+01	1.19E+01	1.20E+01	1.20E+01
1.10E+01	9.11E+00	1.05E+01	9.86E+00	9.89E+00	1.04E+01	1.05E+01	1.05E+01	1.05E+01
1.09E+01	8.37E+00	9.77E+00	9.13E+00	9.15E+00	9.66E+00	9.72E+00	9.75E+00	9.77E+00
1.43E+01	6.29E+00	7.64E+00	7.01E+00	7.03E+00	7.53E+00	7.59E+00	7.62E+00	7.64E+00
1.86E+01	4.49E+00	5.68E+00	5.12E+00	5.13E+00	5.58E+00	5.64E+00	5.66E+00	5.68E+00
2.42E+01	3.06E+00	3.99E+00	3.54E+00	3.55E+00	3.91E+00	3.96E+00	3.98E+00	3.99E+00
3.00E+01	2.20E+00	3.30E+00	2.61E+00	2.61E+00	2.89E+00	3.14E+00	3.27E+00	3.30E+00
3.16E+01	2.02E+00	3.55E+00	2.51E+00	2.46E+00	3.05E+00	3.41E+00	3.48E+00	3.55E+00
4.12E+01	1.47E+00	4.24E+00	2.92E+00	2.98E+00	3.88E+00	3.98E+00	4.14E+00	4.24E+00
5.38E+01	2.42E+00	3.92E+00	3.16E+00	3.16E+00	3.61E+00	3.79E+00	3.85E+00	3.92E+00
7.02E+01	2.10E+00	2.97E+00	2.48E+00	2.46E+00	2.76E+00	2.82E+00	2.90E+00	2.97E+00
9.15E+01	6.43E-01	1.41E+00	9.92E-01	9.52E-01	1.33E+00	1.38E+00	1.40E+00	1.41E+00
1.00E+02	4.11E-01	8.89E-01	5.89E-01	5.61E-01	7.54E-01	7.70E-01	8.48E-01	8.89E-01
1.19E+02	1.93E-01	3.00E-01	2.32E-01	2.27E-01	2.68E-01	2.81E-01	2.90E-01	2.99E-01
1.56E+02	7.51E-02	8.20E-02	7.77E-02	7.74E-02	8.01E-02	8.10E-02	8.14E-02	8.20E-02
2.03E+02	2.47E-02	2.66E-02	2.60E-02	2.62E-02	2.65E-02	2.65E-02	2.65E-02	2.66E-02
2.65E+02	6.28E-03	7.48E-03	7.14E-03	7.23E-03	7.45E-03	7.46E-03	7.47E-03	7.48E-03
3.00E+02	3.00E-03	3.93E-03	3.66E-03	3.73E-03	3.90E-03	3.92E-03	3.92E-03	3.93E-03
3.46E+02	1.21E-03	1.86E-03	1.67E-03	1.72E-03	1.84E-03	1.85E-03	1.85E-03	1.86E-03
4.51E+02	1.88E-04	4.37E-04	3.59E-04	3.78E-04	4.29E-04	4.34E-04	4.35E-04	4.37E-04
5.88E+02	1.74E-05	6.35E-05	4.80E-05	5.14E-05	6.18E-05	6.28E-05	6.32E-05	6.35E-05
7.67E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+03	0.00E+00	4.01E-07	1.51E-08	0.00E+00	0.00E+00	1.62E-07	2.58E-07	4.00E-07

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	2.80E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01	2.81E+01
1.00E+00	2.44E+01	2.48E+01	2.46E+01	2.46E+01	2.48E+01	2.48E+01	2.48E+01	2.48E+01
1.30E+00	2.34E+01	2.39E+01	2.37E+01	2.37E+01	2.39E+01	2.39E+01	2.39E+01	2.39E+01
1.70E+00	2.22E+01	2.28E+01	2.25E+01	2.26E+01	2.28E+01	2.28E+01	2.28E+01	2.28E+01
2.22E+00	2.08E+01	2.15E+01	2.12E+01	2.12E+01	2.15E+01	2.15E+01	2.15E+01	2.15E+01
2.89E+00	1.91E+01	2.00E+01	1.96E+01	1.96E+01	1.99E+01	2.00E+01	2.00E+01	2.00E+01
3.00E+00	1.89E+01	1.98E+01	1.94E+01	1.94E+01	1.97E+01	1.97E+01	1.97E+01	1.98E+01
3.78E+00	1.72E+01	1.82E+01	1.78E+01	1.78E+01	1.82E+01	1.82E+01	1.82E+01	1.82E+01
4.92E+00	1.52E+01	1.63E+01	1.58E+01	1.58E+01	1.62E+01	1.62E+01	1.63E+01	1.63E+01
6.42E+00	1.29E+01	1.42E+01	1.36E+01	1.36E+01	1.41E+01	1.41E+01	1.42E+01	1.42E+01
8.38E+00	1.06E+01	1.20E+01	1.14E+01	1.14E+01	1.19E+01	1.19E+01	1.20E+01	1.20E+01
1.10E+01	9.11E+00	1.05E+01	9.86E+00	9.89E+00	1.04E+01	1.05E+01	1.05E+01	1.05E+01
1.09E+01	8.37E+00	9.77E+00	9.13E+00	9.16E+00	9.67E+00	9.72E+00	9.76E+00	9.77E+00
1.43E+01	6.29E+00	7.64E+00	7.01E+00	7.03E+00	7.54E+00	7.59E+00	7.62E+00	7.64E+00
1.86E+01	4.50E+00	5.68E+00	5.12E+00	5.13E+00	5.59E+00	5.64E+00	5.67E+00	5.68E+00
2.42E+01	3.06E+00	3.99E+00	3.54E+00	3.55E+00	3.92E+00	3.96E+00	3.98E+00	3.99E+00
3.00E+01	2.21E+00	3.21E+00	2.61E+00	2.59E+00	2.99E+00	3.08E+00	3.16E+00	3.21E+00
3.16E+01	2.03E+00	3.48E+00	2.52E+00	2.45E+00	3.17E+00	3.32E+00	3.45E+00	3.48E+00
4.12E+01	1.50E+00	4.16E+00	2.91E+00	2.94E+00	3.85E+00	4.04E+00	4.14E+00	4.16E+00
5.38E+01	2.38E+00	3.86E+00	3.15E+00	3.13E+00	3.69E+00	3.78E+00	3.80E+00	3.86E+00
7.02E+01	2.06E+00	2.92E+00	2.48E+00	2.45E+00	2.77E+00	2.83E+00	2.88E+00	2.92E+00
9.15E+01	6.25E-01	1.46E+00	9.87E-01	9.67E-01	1.31E+00	1.37E+00	1.41E+00	1.46E+00
1.00E+02	3.98E-01	9.18E-01	5.89E-01	5.76E-01	7.44E-01	7.81E-01	8.68E-01	9.18E-01
1.19E+02	1.91E-01	3.14E-01	2.32E-01	2.30E-01	2.63E-01	2.69E-01	2.90E-01	3.13E-01
1.56E+02	7.50E-02	8.34E-02	7.77E-02	7.76E-02	7.96E-02	8.07E-02	8.17E-02	8.34E-02
2.03E+02	2.48E-02	2.65E-02	2.60E-02	2.62E-02	2.65E-02	2.65E-02	2.65E-02	2.65E-02
2.65E+02	6.32E-03	7.48E-03	7.14E-03	7.24E-03	7.45E-03	7.46E-03	7.47E-03	7.48E-03
3.00E+02	3.03E-03	3.93E-03	3.66E-03	3.73E-03	3.90E-03	3.92E-03	3.92E-03	3.93E-03
3.46E+02	1.23E-03	1.86E-03	1.67E-03	1.72E-03	1.84E-03	1.85E-03	1.85E-03	1.86E-03
4.51E+02	1.93E-04	4.37E-04	3.59E-04	3.78E-04	4.29E-04	4.34E-04	4.35E-04	4.37E-04
5.88E+02	1.82E-05	6.35E-05	4.80E-05	5.14E-05	6.19E-05	6.28E-05	6.32E-05	6.35E-05
7.67E+02	0.00E+00	9.52E-08	9.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-08
1.00E+03	0.00E+00	6.27E-07	2.32E-08	0.00E+00	0.00E+00	1.61E-07	4.33E-07	6.25E-07

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	2.806E+01
2	0.000E+00	2.806E+01
3	0.000E+00	2.806E+01

Title : RESRAD Default

Input File : ZION SURFACE SOIL DCGL KD 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
Kd of Cs-134 in Contaminated Zone	3	-0.19	3	-0.02	10	-0.03	10	0.00
Kd of Cs-134 in Unsaturated Zone 1	10	-0.03	10	0.00	12	0.02	12	0.00
Kd of Cs-134 in Saturated Zone	9	0.03	9	0.00	7	0.04	7	0.00
Kd of Cs-137 in Contaminated Zone	6	0.08	6	0.01	11	-0.02	11	0.00
Kd of Cs-137 in Unsaturated Zone 1	5	0.08	5	0.01	8	0.03	8	0.00
Kd of Cs-137 in Saturated Zone	12	0.02	12	0.00	9	-0.03	9	0.00
Kd of Ni-63 in Contaminated Zone	8	-0.06	8	-0.01	3	-0.14	3	-0.01
Kd of Ni-63 in Unsaturated Zone 1	4	0.12	4	0.01	2	0.16	2	0.01
Kd of Ni-63 in Saturated Zone	2	0.21	2	0.02	5	0.09	5	0.01
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	1.00
Kd of Sr-90 in Unsaturated Zone 1	11	-0.03	11	0.00	6	-0.05	6	0.00
Kd of Sr-90 in Saturated Zone	7	0.06	7	0.01	4	0.12	4	0.01
R-SQUARE		0.99		0.99		1.00		1.00

-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 : ZION SURFACE SOIL DCGL KD 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
Kd of Cs-134 in Contaminated Zone	12	-0.03	12	0.00	9	0.04	9	0.00
Kd of Cs-134 in Unsaturated Zone 1	6	-0.08	6	-0.01	7	-0.07	7	0.00
Kd of Cs-134 in Saturated Zone	3	0.15	3	0.02	10	-0.02	10	0.00
Kd of Cs-137 in Contaminated Zone	11	0.03	11	0.00	11	0.01	11	0.00
Kd of Cs-137 in Unsaturated Zone 1	2	-0.22	2	-0.03	8	-0.06	8	0.00
Kd of Cs-137 in Saturated Zone	5	0.11	5	0.01	2	0.12	2	0.01
Kd of Ni-63 in Contaminated Zone	8	-0.07	8	-0.01	12	0.00	12	0.00
Kd of Ni-63 in Unsaturated Zone 1	7	-0.07	7	-0.01	5	0.08	5	0.01
Kd of Ni-63 in Saturated Zone	9	0.06	9	0.01	6	0.08	6	0.01
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	1.00
Kd of Sr-90 in Unsaturated Zone 1	4	-0.13	4	-0.02	3	-0.11	3	-0.01
Kd of Sr-90 in Saturated Zone	10	0.04	10	0.01	4	-0.09	4	-0.01
R-SQUARE		0.99		0.99		1.00		1.00

-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 : ZION SURFACE SOIL DCGL KD 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
Kd of Cs-134 in Contaminated Zone	9	-0.08	9	-0.01	3	-0.13	3	-0.01
Kd of Cs-134 in Unsaturated Zone 1	11	-0.06	11	-0.01	8	-0.04	8	0.00
Kd of Cs-134 in Saturated Zone	3	-0.20	3	-0.02	11	-0.02	11	0.00
Kd of Cs-137 in Contaminated Zone	5	-0.12	5	-0.01	7	-0.05	7	0.00
Kd of Cs-137 in Unsaturated Zone 1	2	0.26	2	0.03	2	0.21	2	0.02
Kd of Cs-137 in Saturated Zone	6	-0.11	6	-0.01	10	-0.02	10	0.00
Kd of Ni-63 in Contaminated Zone	12	0.01	12	0.00	12	-0.01	12	0.00
Kd of Ni-63 in Unsaturated Zone 1	10	0.07	10	0.01	5	-0.08	5	-0.01
Kd of Ni-63 in Saturated Zone	8	-0.09	8	-0.01	6	-0.07	6	0.00
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	1.00
Kd of Sr-90 in Unsaturated Zone 1	4	0.13	4	0.01	9	0.04	9	0.00
Kd of Sr-90 in Saturated Zone	7	0.10	7	0.01	4	0.09	4	0.01
R-SQUARE		0.99		0.99		1.00		1.00

-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.