

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Table of Contents

Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

Probabilistic Input	2
Total Dose	3
Total Risk	4
Dose vs Pathway: Ground External	5
Dose vs Pathway: Inhalation (w/o Radon)	6
Dose vs Pathway: Radon (Water Ind.)	7
Dose vs Pathway: Plant (Water Ind.)	8
Dose vs Pathway: Meat (Water Ind.)	9
Dose vs Pathway: Milk (Water Ind.)	10
Dose vs Pathway: Soil Ingestion	11
Dose vs Pathway: Water Ingestion	12
Dose vs Pathway: Fish Ingestion	13
Dose vs Pathway: Radon (Water Dep.)	14
Dose vs Pathway: Plant (Water Dep.)	15
Dose vs Pathway: Meat (Water Dep.)	16
Dose vs Pathway: Milk (Water Dep.)	17
Cumulative Probability Summary.....	18
Summary of dose at graphical times, reptition 1.....	19
Summary of dose at graphical times, reptition 2.....	20
Summary of dose at graphical times, reptition 3.....	21
Peak of the mean dose at graphical times.....	22
Correlation and Regression coefficients (if any).....	23

[illegible]

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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
Cs-137										
Min	0.00E+00	2.27E+00	2.27E+00	2.15E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.59E+00	3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.56E-01	3.51E-03	3.32E-10
Avg	0.00E+00	2.83E+00	2.83E+00	2.76E+00	2.63E+00	2.20E+00	1.35E+00	2.55E-01	1.88E-03	7.17E-11
Std	0.00E+00	4.75E-01	4.75E-01	4.64E-01	4.43E-01	4.43E-01	3.20E-01	7.12E-02	1.08E-03	1.05E-10
ALL										
Min	0.00E+00	2.27E+00	2.27E+00	2.15E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	3.59E+00	3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.56E-01	3.51E-03	3.32E-10
Avg	0.00E+00	2.83E+00	2.83E+00	2.76E+00	2.63E+00	2.20E+00	1.35E+00	2.55E-01	1.88E-03	7.17E-11
Std	0.00E+00	4.75E-01	4.75E-01	4.64E-01	4.43E-01	4.43E-01	3.20E-01	7.12E-02	1.08E-03	1.05E-10

ALL is total dose summed for all nuclides.

Probabilistic Risk Summary

Nuclide		RISK(j,t)							
(j)	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
Cs-137									
Min		5.17E-05	4.94E-05	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.15E-05	7.96E-05	7.60E-05	6.46E-05	4.07E-05	8.08E-06	7.95E-08	7.52E-15
Avg		6.42E-05	6.26E-05	5.97E-05	5.00E-05	3.07E-05	5.78E-06	4.26E-08	1.63E-15
Std		1.08E-05	1.05E-05	1.01E-05	9.96E-06	7.25E-06	1.61E-06	2.45E-08	2.38E-15
ALL									
Min		5.17E-05	4.94E-05	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.15E-05	7.96E-05	7.60E-05	6.46E-05	4.07E-05	8.08E-06	7.95E-08	7.52E-15
Avg		6.42E-05	6.26E-05	5.97E-05	5.00E-05	3.07E-05	5.78E-06	4.26E-08	1.63E-15
Std		1.08E-05	1.05E-05	1.01E-05	9.96E-06	7.25E-06	1.61E-06	2.45E-08	2.38E-15

ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Cs-137									
Min		1.59E+00	1.55E+00	1.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.59E+00	1.55E+00	1.48E+00	1.26E+00	7.95E-01	1.58E-01	1.55E-03	1.47E-10
Avg		1.59E+00	1.55E+00	1.48E+00	1.25E+00	7.72E-01	1.50E-01	1.18E-03	4.52E-11
Std		1.36E-04	3.98E-04	9.07E-04	1.31E-01	1.23E-01	3.14E-02	6.14E-04	6.33E-11
ΣALL									
Min		1.59E+00	1.55E+00	1.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		1.59E+00	1.55E+00	1.48E+00	1.26E+00	7.95E-01	1.58E-01	1.55E-03	1.47E-10
Avg		1.59E+00	1.55E+00	1.48E+00	1.25E+00	7.72E-01	1.50E-01	1.18E-03	4.52E-11
Std		1.36E-04	3.98E-04	9.07E-04	1.31E-01	1.23E-01	3.14E-02	6.14E-04	6.33E-11
<hr/>									

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Cs-137									
Min		3.98E-09	3.89E-09	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.50E-06	2.44E-06	2.33E-06	1.98E-06	1.25E-06	2.48E-07	2.43E-09	2.29E-16
Avg		4.31E-07	4.21E-07	4.02E-07	3.38E-07	2.09E-07	4.08E-08	3.12E-10	1.10E-17
Std		2.64E-07	2.58E-07	2.46E-07	2.12E-07	1.34E-07	2.68E-08	2.82E-10	2.08E-17
ΣALL									
Min		3.98E-09	3.89E-09	3.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		2.50E-06	2.44E-06	2.33E-06	1.98E-06	1.25E-06	2.48E-07	2.43E-09	2.29E-16
Avg		4.31E-07	4.21E-07	4.02E-07	3.38E-07	2.09E-07	4.08E-08	3.12E-10	1.10E-17
Std		2.64E-07	2.58E-07	2.46E-07	2.12E-07	1.34E-07	2.68E-08	2.82E-10	2.08E-17

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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
ALL									
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
<hr/>									

ALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Cs-137									
Min		1.23E-01	9.95E-02	5.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.16E-01	5.05E-01	4.82E-01	4.10E-01	2.58E-01	5.12E-02	5.04E-04	4.77E-11
Avg		2.91E-01	2.83E-01	2.69E-01	2.23E-01	1.35E-01	2.38E-02	1.52E-04	5.86E-12
Std		1.40E-01	1.37E-01	1.31E-01	1.14E-01	7.31E-02	1.48E-02	1.47E-04	1.12E-11
ΣALL									
Min		1.23E-01	9.95E-02	5.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		5.16E-01	5.05E-01	4.82E-01	4.10E-01	2.58E-01	5.12E-02	5.04E-04	4.77E-11
Avg		2.91E-01	2.83E-01	2.69E-01	2.23E-01	1.35E-01	2.38E-02	1.52E-04	5.86E-12
Std		1.40E-01	1.37E-01	1.31E-01	1.14E-01	7.31E-02	1.48E-02	1.47E-04	1.12E-11

ΣALL is total pathway dose summed for all nuclides.

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Cs-137									
Min	2.57E-01	2.33E-01	1.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.96E-01	5.82E-01	5.56E-01	4.73E-01	2.98E-01	5.91E-02	5.82E-04	5.50E-11	
Avg	4.00E-01	3.90E-01	3.71E-01	3.09E-01	1.89E-01	3.46E-02	2.38E-04	8.95E-12	
Std	1.22E-01	1.19E-01	1.14E-01	1.02E-01	6.78E-02	1.41E-02	1.70E-04	1.47E-11	
<hr/>									
ΣALL									
Min	2.57E-01	2.33E-01	1.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	5.96E-01	5.82E-01	5.56E-01	4.73E-01	2.98E-01	5.91E-02	5.82E-04	5.50E-11	
Avg	4.00E-01	3.90E-01	3.71E-01	3.09E-01	1.89E-01	3.46E-02	2.38E-04	8.95E-12	
Std	1.22E-01	1.19E-01	1.14E-01	1.02E-01	6.78E-02	1.41E-02	1.70E-04	1.47E-11	
<hr/>									
ΣALL is total pathway dose summed for all nuclides.									

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Cs-137									
Min		2.99E-01	2.62E-01	1.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.92E-01	8.71E-01	8.32E-01	7.08E-01	4.46E-01	8.84E-02	8.70E-04	8.23E-11
Avg		5.50E-01	5.37E-01	5.10E-01	4.24E-01	2.58E-01	4.65E-02	3.09E-04	1.17E-11
Std		2.12E-01	2.08E-01	1.98E-01	1.74E-01	1.13E-01	2.32E-02	2.52E-04	2.05E-11
<hr/>									
ALL									
Min		2.99E-01	2.62E-01	1.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		8.92E-01	8.71E-01	8.32E-01	7.08E-01	4.46E-01	8.84E-02	8.70E-04	8.23E-11
Avg		5.50E-01	5.37E-01	5.10E-01	4.24E-01	2.58E-01	4.65E-02	3.09E-04	1.17E-11
Std		2.12E-01	2.08E-01	1.98E-01	1.74E-01	1.13E-01	2.32E-02	2.52E-04	2.05E-11
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
Cs-137									
Min		7.05E-04	6.87E-04	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.06E-04	6.89E-04	6.58E-04	5.60E-04	3.53E-04	7.00E-05	6.89E-07	6.52E-14
Avg		7.05E-04	6.89E-04	6.58E-04	5.53E-04	3.43E-04	6.64E-05	5.04E-07	1.84E-14
Std		6.02E-08	1.77E-07	1.29E-06	5.91E-05	5.53E-05	1.41E-05	2.80E-07	2.71E-14
ALL									
Min		7.05E-04	6.87E-04	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		7.06E-04	6.89E-04	6.58E-04	5.60E-04	3.53E-04	7.00E-05	6.89E-07	6.52E-14
Avg		7.05E-04	6.89E-04	6.58E-04	5.53E-04	3.43E-04	6.64E-05	5.04E-07	1.84E-14
Std		6.02E-08	1.77E-07	1.29E-06	5.91E-05	5.53E-05	1.41E-05	2.80E-07	2.71E-14
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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	3.67E-06	5.30E-05	3.44E-06	1.91E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-09	1.16E-07	1.60E-08	9.08E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	1.65E-06	1.42E-07	6.66E-14
<hr/>									
ALL									
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	3.67E-06	5.30E-05	3.44E-06	1.91E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-09	1.16E-07	1.60E-08	9.08E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07	1.65E-06	1.42E-07	6.66E-14
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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
ALL									
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
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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
ALL									
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
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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	3.02E-07	4.35E-06	5.02E-07	2.52E-13
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-10	1.14E-08	1.60E-09	8.31E-16
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.69E-07	1.69E-08	7.41E-15
<hr/>									
ALL									
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	3.02E-07	4.35E-06	5.02E-07	2.52E-13
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-10	1.14E-08	1.60E-09	8.31E-16
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-08	1.69E-07	1.69E-08	7.41E-15
<hr/>									

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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	2.66E-06	3.72E-05	3.33E-06	1.12E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-09	8.41E-08	1.20E-08	6.34E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-08	1.19E-06	1.18E-07	4.58E-14
<hr/>									
ΣALL									
Min		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max		0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	3.72E-05	3.33E-06	1.12E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-09	8.41E-08	1.20E-08	6.34E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-08	1.19E-06	1.18E-07	4.58E-14
<hr/>									

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

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

Nuclide		DOSE(i,j,t), mrem/yr							
(j)	t=	0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
<hr/>									
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	3.25E-06	4.43E-05	4.47E-06	1.42E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-09	1.02E-07	1.47E-08	7.54E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	1.44E-06	1.51E-07	5.47E-14
<hr/>									
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	3.25E-06	4.43E-05	4.47E-06	1.42E-12
Avg		0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-09	1.02E-07	1.47E-08	7.54E-15
Std		0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	1.44E-06	1.51E-07	5.47E-14
<hr/>									

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative	Dose(t), mrem/yr								
Probability	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		2.29E+00	2.24E+00	2.13E+00	1.80E+00	3.73E-01	0.00E+00	0.00E+00	0.00E+00
0.050		2.30E+00	2.25E+00	2.14E+00	1.81E+00	1.13E+00	2.04E-01	0.00E+00	0.00E+00
0.075		2.32E+00	2.26E+00	2.16E+00	1.82E+00	1.13E+00	2.11E-01	0.00E+00	0.00E+00
0.100		2.33E+00	2.27E+00	2.17E+00	1.83E+00	1.14E+00	2.14E-01	0.00E+00	0.00E+00
0.125		2.34E+00	2.28E+00	2.18E+00	1.84E+00	1.15E+00	2.17E-01	0.00E+00	0.00E+00
0.150		2.35E+00	2.30E+00	2.19E+00	1.85E+00	1.15E+00	2.19E-01	0.00E+00	0.00E+00
0.175		2.37E+00	2.31E+00	2.20E+00	1.86E+00	1.16E+00	2.21E-01	9.40E-10	0.00E+00
0.200		2.38E+00	2.32E+00	2.21E+00	1.87E+00	1.17E+00	2.23E-01	2.87E-06	0.00E+00
0.225		2.40E+00	2.34E+00	2.23E+00	1.89E+00	1.17E+00	2.25E-01	1.09E-03	0.00E+00
0.250		2.41E+00	2.36E+00	2.24E+00	1.90E+00	1.18E+00	2.26E-01	1.53E-03	0.00E+00
0.275		2.43E+00	2.37E+00	2.26E+00	1.91E+00	1.19E+00	2.28E-01	1.75E-03	0.00E+00
0.300		2.45E+00	2.39E+00	2.28E+00	1.92E+00	1.20E+00	2.29E-01	1.86E-03	0.00E+00
0.325		2.47E+00	2.41E+00	2.30E+00	1.94E+00	1.21E+00	2.30E-01	1.94E-03	0.00E+00
0.350		2.49E+00	2.43E+00	2.32E+00	1.96E+00	1.22E+00	2.32E-01	1.99E-03	0.00E+00
0.375		2.51E+00	2.45E+00	2.34E+00	1.97E+00	1.23E+00	2.34E-01	2.01E-03	0.00E+00
0.400		2.54E+00	2.48E+00	2.36E+00	1.99E+00	1.24E+00	2.35E-01	2.05E-03	1.04E-17
0.425		2.57E+00	2.50E+00	2.38E+00	2.01E+00	1.25E+00	2.38E-01	2.07E-03	1.06E-16
0.450		2.59E+00	2.53E+00	2.41E+00	2.04E+00	1.26E+00	2.40E-01	2.11E-03	3.97E-16
0.475		2.62E+00	2.56E+00	2.44E+00	2.06E+00	1.28E+00	2.43E-01	2.13E-03	1.19E-15
0.500		2.66E+00	2.59E+00	2.47E+00	2.08E+00	1.29E+00	2.45E-01	2.15E-03	2.07E-15
0.525		2.69E+00	2.63E+00	2.50E+00	2.11E+00	1.31E+00	2.48E-01	2.18E-03	4.54E-15
0.550		2.73E+00	2.67E+00	2.54E+00	2.14E+00	1.33E+00	2.51E-01	2.21E-03	8.60E-15
0.575		2.78E+00	2.71E+00	2.58E+00	2.17E+00	1.35E+00	2.55E-01	2.23E-03	1.97E-14
0.600		2.83E+00	2.76E+00	2.63E+00	2.21E+00	1.37E+00	2.58E-01	2.26E-03	3.94E-14
0.625		2.88E+00	2.81E+00	2.68E+00	2.25E+00	1.40E+00	2.63E-01	2.29E-03	7.89E-14
0.650		2.94E+00	2.87E+00	2.74E+00	2.30E+00	1.42E+00	2.68E-01	2.32E-03	2.16E-11
0.675		3.01E+00	2.93E+00	2.79E+00	2.35E+00	1.45E+00	2.74E-01	2.36E-03	1.01E-10
0.700		3.08E+00	3.00E+00	2.86E+00	2.40E+00	1.49E+00	2.81E-01	2.41E-03	1.32E-10
0.725		3.17E+00	3.09E+00	2.94E+00	2.47E+00	1.53E+00	2.88E-01	2.46E-03	1.58E-10
0.750		3.28E+00	3.19E+00	3.03E+00	2.55E+00	1.59E+00	2.95E-01	2.53E-03	1.74E-10
0.775		3.38E+00	3.30E+00	3.14E+00	2.64E+00	1.63E+00	3.07E-01	2.60E-03	1.88E-10
0.800		3.52E+00	3.44E+00	3.26E+00	2.73E+00	1.68E+00	3.14E-01	2.67E-03	2.01E-10
0.825		3.59E+00	3.51E+00	3.35E+00	2.83E+00	1.74E+00	3.25E-01	2.75E-03	2.11E-10
0.850		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.79E+00	3.41E-01	2.86E-03	2.16E-10
0.875		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.79E+00	3.50E-01	2.98E-03	2.24E-10
0.900		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.79E+00	3.54E-01	3.09E-03	2.38E-10
0.925		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.55E-01	3.31E-03	2.52E-10
0.950		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.56E-01	3.45E-03	2.75E-10
0.975		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.56E-01	3.49E-03	3.10E-10
1.000		3.59E+00	3.51E+00	3.35E+00	2.85E+00	1.80E+00	3.56E-01	3.51E-03	3.32E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Summary of dose at graphical times, reptition 1								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.27E+00	3.59E+00	2.83E+00	2.66E+00	3.59E+00	3.59E+00	3.59E+00	3.59E+00
1.00E+00	2.15E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.06E+00	2.14E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.12E+00	2.13E+00	3.50E+00	2.75E+00	2.59E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.19E+00	2.12E+00	3.50E+00	2.75E+00	2.58E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.25E+00	2.12E+00	3.49E+00	2.75E+00	2.58E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.33E+00	2.11E+00	3.48E+00	2.74E+00	2.57E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.40E+00	2.10E+00	3.48E+00	2.74E+00	2.57E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.49E+00	2.09E+00	3.47E+00	2.73E+00	2.56E+00	3.47E+00	3.47E+00	3.47E+00	3.47E+00
1.57E+00	2.08E+00	3.46E+00	2.72E+00	2.56E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.66E+00	2.07E+00	3.46E+00	2.72E+00	2.55E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.76E+00	2.06E+00	3.45E+00	2.71E+00	2.55E+00	3.45E+00	3.45E+00	3.45E+00	3.45E+00
1.86E+00	2.05E+00	3.44E+00	2.71E+00	2.54E+00	3.44E+00	3.44E+00	3.44E+00	3.44E+00
1.97E+00	2.03E+00	3.43E+00	2.70E+00	2.53E+00	3.43E+00	3.43E+00	3.43E+00	3.43E+00
2.09E+00	2.02E+00	3.42E+00	2.69E+00	2.53E+00	3.42E+00	3.42E+00	3.42E+00	3.42E+00
2.21E+00	2.01E+00	3.41E+00	2.68E+00	2.52E+00	3.41E+00	3.41E+00	3.41E+00	3.41E+00
2.34E+00	1.99E+00	3.40E+00	2.67E+00	2.51E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
2.47E+00	1.98E+00	3.39E+00	2.67E+00	2.50E+00	3.39E+00	3.39E+00	3.39E+00	3.39E+00
2.62E+00	1.96E+00	3.38E+00	2.66E+00	2.49E+00	3.38E+00	3.38E+00	3.38E+00	3.38E+00
2.77E+00	1.94E+00	3.37E+00	2.65E+00	2.48E+00	3.37E+00	3.37E+00	3.37E+00	3.37E+00
2.93E+00	1.93E+00	3.36E+00	2.64E+00	2.47E+00	3.36E+00	3.36E+00	3.36E+00	3.36E+00
3.00E+00	1.92E+00	3.35E+00	2.63E+00	2.47E+00	3.35E+00	3.35E+00	3.35E+00	3.35E+00
3.10E+00	1.91E+00	3.34E+00	2.63E+00	2.46E+00	3.34E+00	3.34E+00	3.34E+00	3.34E+00
3.28E+00	1.88E+00	3.33E+00	2.61E+00	2.45E+00	3.33E+00	3.33E+00	3.33E+00	3.33E+00
3.48E+00	1.85E+00	3.32E+00	2.60E+00	2.44E+00	3.31E+00	3.32E+00	3.32E+00	3.32E+00
3.68E+00	1.82E+00	3.30E+00	2.59E+00	2.43E+00	3.30E+00	3.30E+00	3.30E+00	3.30E+00
3.89E+00	1.74E+00	3.28E+00	2.57E+00	2.42E+00	3.28E+00	3.28E+00	3.28E+00	3.28E+00
4.12E+00	1.63E+00	3.27E+00	2.56E+00	2.40E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00
4.36E+00	1.46E+00	3.25E+00	2.55E+00	2.39E+00	3.25E+00	3.25E+00	3.25E+00	3.25E+00
4.61E+00	1.20E+00	3.23E+00	2.53E+00	2.38E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
4.88E+00	7.84E-01	3.21E+00	2.51E+00	2.36E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
5.17E+00	3.96E-01	3.19E+00	2.49E+00	2.34E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
5.47E+00	9.41E-02	3.17E+00	2.47E+00	2.33E+00	3.17E+00	3.17E+00	3.17E+00	3.17E+00
5.78E+00	8.19E-05	3.14E+00	2.45E+00	2.31E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
6.12E+00	0.00E+00	3.12E+00	2.43E+00	2.29E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
6.48E+00	0.00E+00	3.09E+00	2.41E+00	2.27E+00	3.09E+00	3.09E+00	3.09E+00	3.09E+00
6.86E+00	0.00E+00	3.07E+00	2.38E+00	2.25E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00
7.26E+00	0.00E+00	3.04E+00	2.36E+00	2.23E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
7.68E+00	0.00E+00	3.01E+00	2.34E+00	2.21E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
8.13E+00	0.00E+00	2.98E+00	2.31E+00	2.18E+00	2.98E+00	2.98E+00	2.98E+00	2.98E+00
8.60E+00	0.00E+00	2.95E+00	2.28E+00	2.15E+00	2.94E+00	2.94E+00	2.94E+00	2.95E+00
9.10E+00	0.00E+00	2.91E+00	2.25E+00	2.13E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
9.63E+00	0.00E+00	2.88E+00	2.22E+00	2.10E+00	2.87E+00	2.88E+00	2.88E+00	2.88E+00
1.00E+01	0.00E+00	2.85E+00	2.20E+00	2.08E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
1.02E+01	0.00E+00	2.84E+00	2.19E+00	2.07E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
1.08E+01	0.00E+00	2.80E+00	2.16E+00	2.04E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
1.14E+01	0.00E+00	2.76E+00	2.13E+00	2.01E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
1.21E+01	0.00E+00	2.72E+00	2.09E+00	1.98E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
1.28E+01	0.00E+00	2.67E+00	2.06E+00	1.94E+00	2.67E+00	2.67E+00	2.67E+00	2.67E+00
1.35E+01	0.00E+00	2.63E+00	2.02E+00	1.91E+00	2.63E+00	2.63E+00	2.63E+00	2.63E+00
1.43E+01	0.00E+00	2.58E+00	1.98E+00	1.88E+00	2.58E+00	2.58E+00	2.58E+00	2.58E+00
1.51E+01	0.00E+00	2.53E+00	1.94E+00	1.84E+00	2.53E+00	2.53E+00	2.53E+00	2.53E+00
1.60E+01	0.00E+00	2.48E+00	1.90E+00	1.80E+00	2.48E+00	2.48E+00	2.48E+00	2.48E+00
1.70E+01	0.00E+00	2.43E+00	1.86E+00	1.76E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
1.80E+01	0.00E+00	2.37E+00	1.81E+00	1.72E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00
1.90E+01	0.00E+00	2.32E+00	1.77E+00	1.67E+00	2.31E+00	2.32E+00	2.32E+00	2.32E+00

2.01E+01 0.00E+00 2.26E+00 1.72E+00 1.63E+00 2.26E+00 2.26E+00 2.26E+00 2.26E+00

2.13E+01 0.00E+00 2.20E+00 1.67E+00 1.59E+00 2.20E+00 2.20E+00 2.20E+00 2.20E+00

2.25E+01 0.00E+00 2.14E+00 1.62E+00 1.54E+00 2.13E+00 2.13E+00 2.14E+00 2.14E+00

2.38E+01 0.00E+00 2.07E+00 1.57E+00 1.49E+00 2.07E+00 2.07E+00 2.07E+00 2.07E+00

2.52E+01 0.00E+00 2.01E+00 1.52E+00 1.44E+00 2.00E+00 2.01E+00 2.01E+00 2.01E+00

2.67E+01 0.00E+00 1.94E+00 1.47E+00 1.40E+00 1.94E+00 1.94E+00 1.94E+00 1.94E+00

2.82E+01 0.00E+00 1.87E+00 1.42E+00 1.34E+00 1.87E+00 1.87E+00 1.87E+00 1.87E+00

2.99E+01 0.00E+00 1.80E+00 1.36E+00 1.29E+00 1.80E+00 1.80E+00 1.80E+00 1.80E+00

3.00E+01 0.00E+00 1.80E+00 1.36E+00 1.29E+00 1.79E+00 1.80E+00 1.80E+00 1.80E+00

3.16E+01 0.00E+00 1.73E+00 1.30E+00 1.24E+00 1.73E+00 1.73E+00 1.73E+00 1.73E+00

3.35E+01 0.00E+00 1.66E+00 1.25E+00 1.19E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+00

3.54E+01	0.00E+00	1.58E+00	1.19E+00	1.13E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

3.75E+01 0.00E+00 1.51E+00 1.13E+00 1.08E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00

3.97E+01 0.00E+00 1.44E+00 1.08E+00 1.03E+00 1.43E+00 1.44E+00 1.44E+00 1.44E+00

4.20E+01	0.00E+00	1.36E+00	1.02E+00	9.70E-01	1.36E+00	1.36E+00	1.36E+00	1.36E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.44E+01 0.00E+00 1.29E+00 9.60E-01 9.15E-01 1.29E+00 1.29E+00 1.29E+00 1.29E+00

4.70E+01 0.00E+00 1.21E+00 9.02E-01 8.61E-01 1.21E+00 1.21E+00 1.21E+00 1.21E+00

4.97E+01 0.00E+00 1.14E+00 8.45E-01 8.07E-01 1.14E+00 1.14E+00 1.14E+00 1.14E+00

5.26E+01 0.00E+00 1.06E+00 7.89E-01 7.53E-01 1.06E+00 1.06E+00 1.06E+00 1.06E+00

5.57E+01	0.00E+00	9.92E-01	7.33E-01	7.00E-01	9.90E-01	9.91E-01	9.91E-01	9.92E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.90E+01 0.00E+00 9.20E-01 6.78E-01 6.48E-01 9.18E-01 9.19E-01 9.20E-01 9.20E-01

6.24E+01 0.00E+00 8.50E-01 6.25E-01 5.97E-01 8.48E-01 8.49E-01 8.50E-01 8.50E-01

6.60E+01 0.00E+00 7.81E-01 5.73E-01 5.48E-01 7.80E-01 7.81E-01 7.81E-01 7.81E-01

6.99E+01 0.00E+00 7.15E-01 5.23E-01 5.00E-01 7.13E-01 7.14E-01 7.15E-01 7.15E-01

7.39E+01 0.00E+00 6.51E-01 4.75E-01 4.55E-01 6.49E-01 6.50E-01 6.51E-01 6.51E-01

7.82E+01 0.00E+00 5.89E-01 4.28E-01 4.11E-01 5.87E-01 5.89E-01 5.89E-01 5.89E-01

8.28E+01 0.00E+00 5.30E-01 3.84E-01 3.69E-01 5.28E-01 5.30E-01 5.30E-01 5.30E-01

8.76E+01 0.00E+00 4.74E-01 3.43E-01 3.30E-01 4.72E-01 4.74E-01 4.74E-01 4.74E-01

9.27E+01	0.00E+00	4.22E-01	3.03E-01	2.92E-01	4.19E-01	4.21E-01	4.21E-01	4.21E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.81E+01 0.00E+00 3.72E-01 2.67E-01 2.58E-01 3.70E-01 3.72E-01 3.72E-01 3.72E-01

1.00E+02 0.00E+00 3.56E-01 2.55E-01 2.47E-01 3.54E-01 3.56E-01 3.56E-01 3.56E-01

1.04E+02 0.00E+00 3.26E-01 2.33E-01 2.25E-01 3.23E-01 3.26E-01 3.26E-01 3.26E-01

1.10E+02 0.00E+00 2.84E-01 2.02E-01 1.95E-01 2.81E-01 2.83E-01 2.83E-01 2.83E-01

1.16E+02 0.00E+00 2.45E-01 1.73E-01 1.68E-01 2.42E-01 2.44E-01 2.44E-01 2.44E-01

1.23E+02 0.00E+00 2.09E-01 1.47E-01 1.43E-01 2.07E-01 2.09E-01 2.09E-01 2.09E-01

1.30E+02	0.00E+00	1.77E-01	1.24E-01	1.21E-01	1.75E-01	1.77E-01	1.77E-01	1.77E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.38E+02 0.00E+00 1.49E-01 1.04E-01 1.01E-01 1.46E-01 1.48E-01 1.49E-01 1.49E-01

1.46E+02 0.00E+00 1.24E-01 8.56E-02 8.38E-02 1.21E-01 1.23E-01 1.23E-01 1.23E-01

1.54E+02 0.00E+00 1.02E-01 6.99E-02 6.83E-02 9.88E-02 1.01E-01 1.01E-01 1.01E-01

1.63E+02 0.00E+00 8.25E-02 5.64E-02 5.52E-02 8.01E-02 8.22E-02 8.23E-02 8.24E-02

1.73E+02 0.00E+00 6.62E-02 4.48E-02 4.40E-02 6.39E-02 6.59E-02 6.61E-02 6.61E-02

1.83E+02 0.00E+00 5.24E-02 3.51E-02 3.47E-02 5.02E-02 5.22E-02 5.23E-02 5.24E-02

1.94E+02 0.00E+00 4.10E-02 2.70E-02 2.69E-02 3.89E-02 4.08E-02 4.09E-02 4.10E-02

2.05E+02 0.00E+00 3.16E-02 2.04E-02 2.06E-02 2.99E-02 3.14E-02 3.15E-02 3.16E-02

2.17E+02 0.00E+00 2.40E-02 1.51E-02 1.56E-02 2.25E-02 2.37E-02 2.39E-02 2.40E-02

2.29E+02 0.00E+00 1.79E-02 1.10E-02 1.15E-02 1.66E-02 1.77E-02 1.79E-02 1.79E-02

2.43E+02 0.00E+00 1.32E-02 7.84E-03 8.42E-03 1.19E-02 1.30E-02 1.31E-02 1.31E-02

2.57E+02 0.00E+00 9.49E-03 5.49E-03 6.02E-03 8.50E-03 9.35E-03 9.45E-03 9.48E-03

2.72E+02 0.00E+00 6.71E-03 3.78E-03 4.23E-03 5.95E-03 6.61E-03 6.69E-03 6.71E-03

2.88E+02 0.00E+00 4.65E-03 2.54E-03 2.90E-03 4.11E-03 4.57E-03 4.63E-03 4.65E-03

3.00E+02 0.00E+00 3.51E-03 1.88E-03 2.17E-03 3.09E-03 3.43E-03 3.49E-03 3.50E-03

3.05E+02 0.00E+00 3.16E-03 1.68E-03 1.95E-03 2.78E-03 3.09E-03 3.14E-03 3.16E-03

3.22E+02 0.00E+00 2.10E-03 1.08E-03 1.28E-03 1.83E-03 2.03E-03 2.09E-03 2.10E-03

3.41E+02 0.00E+00 1.36E-03 6.78E-04 8.21E-04 1.18E-03 1.31E-03 1.35E-03 1.36E-03

3.61E+02 0.00E+00 8.59E-04 4.14E-04 5.14E-04 7.45E-04 8.08E-04 8.53E-04 8.58E-04

3.82E+02 0.00E+00 5.28E-04 2.47E-04 3.11E-04 4.51E-04 4.94E-04 5.25E-04 5.28E-04

4.04E+02	0.00E+00	3.16E-04	1.42E-04	1.84E-04	2.65E-04	2.93E-04	3.13E-04	3.16E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.28E+02	0.00E+00	1.83E-04	7.98E-05	1.05E-04	1.53E-04	1.69E-04	1.82E-04	1.83E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.53E+02 0.00E+00 1.03E-04 4.33E-05 5.74E-05 8.50E-05 9.46E-05 1.02E-04 1.03E-04

4.79E+02 0.00E+00 5.61E-05 2.27E-05 3.02E-05 4.56E-05 5.12E-05 5.55E-05 5.60E-05

5.07E+02	0.00E+00	2.94E-05	1.14E-05	1.48E-05	2.39E-05	2.65E-05	2.90E-05	2.94E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.36E+02	0.00E+00	1.49E-05	5.56E-06	7.19E-06	1.18E-05	1.31E-05	1.46E-05	1.48E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.68E+02 0.00E+00 7.23E-06 2.59E-06 3.12E-06 5.65E-06 6.36E-06 6.95E-06 7.20E-06

6.01E+02 0.00E+00 3.37E-06 1.16E-06 1.25E-06 2.62E-06 2.96E-06 3.22E-06 3.35E-06

6.36E+02	0.00E+00	1.50E-06	4.94E-07	3.92E-07	1.16E-06	1.31E-06	1.43E-06	1.49E-06
----------	----------	----------	----------	----------	----------	----------	----------	----------

6.73E+02 0.00E+00 6.38E-07 2.01E-07 5.94E-09 4.82E-07 5.54E-07 6.04E-07 6.35E-07

7.12E+02 0.00E+00 2.58E-07 7.75E-08 4.01E-11 1.93E-07 2.24E-07 2.42E-07 2.57E-07

7.53E+02 0.00E+00 9.89E-08 2.83E-08 5.70E-12 7.37E-08 8.42E-08 9.18E-08 9.84E-08

7.97E+02 0.00E+00 3.59E-08 9.74E-09 1.13E-12 2.65E-08 3.04E-08 3.33E-08 3.57E-08

8.44E+02 0.00E+00 1.22E-08 3.16E-09 1.63E-13 8.92E-09 1.03E-08 1.12E-08 1.21E-08

8.93E+02	0.00E+00	3.93E-09	9.59E-10	3.65E-14	2.86E-09	3.28E-09	3.49E-09	3.89E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.45E+02 0.00E+00 1.18E-09 2.72E-10 9.25E-15 8.44E-10 9.65E-10 1.04E-09 1.17E-09

1.00E+03 0.00E+00 3.31E-10 7.17E-11 2.00E-15 2.35E-10 2.68E-10 2.92E-10 3.28E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Summary of dose at graphical times, reptition 2								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.28E+00	3.59E+00	2.83E+00	2.66E+00	3.59E+00	3.59E+00	3.59E+00	3.59E+00
1.00E+00	2.22E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.06E+00	2.21E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.12E+00	2.21E+00	3.50E+00	2.75E+00	2.58E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.19E+00	2.20E+00	3.50E+00	2.75E+00	2.58E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.25E+00	2.19E+00	3.49E+00	2.75E+00	2.57E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.33E+00	2.18E+00	3.48E+00	2.74E+00	2.57E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.40E+00	2.17E+00	3.48E+00	2.74E+00	2.56E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.49E+00	2.16E+00	3.47E+00	2.73E+00	2.56E+00	3.47E+00	3.47E+00	3.47E+00	3.47E+00
1.57E+00	2.15E+00	3.46E+00	2.72E+00	2.55E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.66E+00	2.14E+00	3.46E+00	2.72E+00	2.55E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.76E+00	2.13E+00	3.45E+00	2.71E+00	2.54E+00	3.45E+00	3.45E+00	3.45E+00	3.45E+00
1.86E+00	2.11E+00	3.44E+00	2.71E+00	2.53E+00	3.44E+00	3.44E+00	3.44E+00	3.44E+00
1.97E+00	2.10E+00	3.43E+00	2.70E+00	2.53E+00	3.43E+00	3.43E+00	3.43E+00	3.43E+00
2.09E+00	2.09E+00	3.42E+00	2.69E+00	2.52E+00	3.42E+00	3.42E+00	3.42E+00	3.42E+00
2.21E+00	2.07E+00	3.41E+00	2.68E+00	2.51E+00	3.41E+00	3.41E+00	3.41E+00	3.41E+00
2.34E+00	2.05E+00	3.40E+00	2.67E+00	2.51E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
2.47E+00	2.04E+00	3.39E+00	2.67E+00	2.50E+00	3.39E+00	3.39E+00	3.39E+00	3.39E+00
2.62E+00	2.02E+00	3.38E+00	2.66E+00	2.49E+00	3.38E+00	3.38E+00	3.38E+00	3.38E+00
2.77E+00	2.00E+00	3.37E+00	2.65E+00	2.48E+00	3.37E+00	3.37E+00	3.37E+00	3.37E+00
2.93E+00	1.98E+00	3.36E+00	2.64E+00	2.47E+00	3.36E+00	3.36E+00	3.36E+00	3.36E+00
3.00E+00	1.98E+00	3.35E+00	2.63E+00	2.46E+00	3.35E+00	3.35E+00	3.35E+00	3.35E+00
3.10E+00	1.96E+00	3.34E+00	2.62E+00	2.46E+00	3.34E+00	3.34E+00	3.34E+00	3.34E+00
3.28E+00	1.94E+00	3.33E+00	2.61E+00	2.45E+00	3.33E+00	3.33E+00	3.33E+00	3.33E+00
3.48E+00	1.92E+00	3.32E+00	2.60E+00	2.44E+00	3.31E+00	3.32E+00	3.32E+00	3.32E+00
3.68E+00	1.90E+00	3.30E+00	2.59E+00	2.42E+00	3.30E+00	3.30E+00	3.30E+00	3.30E+00
3.89E+00	1.87E+00	3.28E+00	2.57E+00	2.41E+00	3.28E+00	3.28E+00	3.28E+00	3.28E+00
4.12E+00	1.55E+00	3.27E+00	2.56E+00	2.40E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00
4.36E+00	1.02E+00	3.25E+00	2.54E+00	2.38E+00	3.25E+00	3.25E+00	3.25E+00	3.25E+00
4.61E+00	5.41E-01	3.23E+00	2.53E+00	2.37E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
4.88E+00	1.65E-01	3.21E+00	2.51E+00	2.36E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
5.17E+00	2.67E-03	3.19E+00	2.49E+00	2.34E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
5.47E+00	0.00E+00	3.17E+00	2.47E+00	2.32E+00	3.17E+00	3.17E+00	3.17E+00	3.17E+00
5.78E+00	0.00E+00	3.14E+00	2.45E+00	2.30E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
6.12E+00	0.00E+00	3.12E+00	2.43E+00	2.29E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
6.48E+00	0.00E+00	3.09E+00	2.41E+00	2.27E+00	3.09E+00	3.09E+00	3.09E+00	3.09E+00
6.86E+00	0.00E+00	3.07E+00	2.38E+00	2.25E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00
7.26E+00	0.00E+00	3.04E+00	2.36E+00	2.22E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
7.68E+00	0.00E+00	3.01E+00	2.34E+00	2.20E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
8.13E+00	0.00E+00	2.98E+00	2.31E+00	2.18E+00	2.98E+00	2.98E+00	2.98E+00	2.98E+00
8.60E+00	0.00E+00	2.95E+00	2.28E+00	2.15E+00	2.94E+00	2.95E+00	2.95E+00	2.95E+00
9.10E+00	0.00E+00	2.91E+00	2.25E+00	2.13E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
9.63E+00	0.00E+00	2.88E+00	2.22E+00	2.10E+00	2.88E+00	2.88E+00	2.88E+00	2.88E+00
1.00E+01	0.00E+00	2.85E+00	2.20E+00	2.08E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
1.02E+01	0.00E+00	2.84E+00	2.19E+00	2.07E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
1.08E+01	0.00E+00	2.80E+00	2.16E+00	2.04E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
1.14E+01	0.00E+00	2.76E+00	2.13E+00	2.01E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
1.21E+01	0.00E+00	2.72E+00	2.09E+00	1.98E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
1.28E+01	0.00E+00	2.67E+00	2.06E+00	1.95E+00	2.67E+00	2.67E+00	2.67E+00	2.67E+00
1.35E+01	0.00E+00	2.63E+00	2.02E+00	1.91E+00	2.63E+00	2.63E+00	2.63E+00	2.63E+00
1.43E+01	0.00E+00	2.58E+00	1.98E+00	1.88E+00	2.58E+00	2.58E+00	2.58E+00	2.58E+00
1.51E+01	0.00E+00	2.53E+00	1.94E+00	1.84E+00	2.53E+00	2.53E+00	2.53E+00	2.53E+00
1.60E+01	0.00E+00	2.48E+00	1.90E+00	1.80E+00	2.48E+00	2.48E+00	2.48E+00	2.48E+00
1.70E+01	0.00E+00	2.43E+00	1.86E+00	1.76E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
1.80E+01	0.00E+00	2.37E+00	1.81E+00	1.72E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00
1.90E+01	0.00E+00	2.32E+00	1.77E+00	1.68E+00	2.31E+00	2.32E+00	2.32E+00	2.32E+00

2.01E+01 0.00E+00 2.26E+00 1.72E+00 1.63E+00 2.26E+00 2.26E+00 2.26E+00 2.26E+00

2.13E+01 0.00E+00 2.20E+00 1.67E+00 1.59E+00 2.20E+00 2.20E+00 2.20E+00 2.20E+00

2.25E+01 0.00E+00 2.14E+00 1.62E+00 1.54E+00 2.13E+00 2.13E+00 2.14E+00 2.14E+00

2.38E+01 0.00E+00 2.07E+00 1.57E+00 1.50E+00 2.07E+00 2.07E+00 2.07E+00 2.07E+00

2.52E+01	0.00E+00	2.01E+00	1.52E+00	1.45E+00	2.00E+00	2.01E+00	2.01E+00	2.01E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

2.67E+01 0.00E+00 1.94E+00 1.47E+00 1.40E+00 1.94E+00 1.94E+00 1.94E+00 1.94E+00

2.82E+01 0.00E+00 1.87E+00 1.41E+00 1.35E+00 1.87E+00 1.87E+00 1.87E+00 1.87E+00

2.99E+01 0.00E+00 1.80E+00 1.36E+00 1.30E+00 1.80E+00 1.80E+00 1.80E+00 1.80E+00

3.00E+01 0.00E+00 1.80E+00 1.36E+00 1.30E+00 1.79E+00 1.80E+00 1.80E+00 1.80E+00

3.16E+01 0.00E+00 1.73E+00 1.30E+00 1.25E+00 1.73E+00 1.73E+00 1.73E+00 1.73E+00

3.35E+01 0.00E+00 1.66E+00 1.25E+00 1.19E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+00

3.54E+01	0.00E+00	1.58E+00	1.19E+00	1.14E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.75E+01 0.00E+00 1.51E+00 1.13E+00 1.08E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00

3.97E+01 0.00E+00 1.44E+00 1.08E+00 1.03E+00 1.43E+00 1.44E+00 1.44E+00 1.44E+00

4.20E+01	0.00E+00	1.36E+00	1.02E+00	9.73E-01	1.36E+00	1.36E+00	1.36E+00	1.36E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.44E+01 0.00E+00 1.29E+00 9.59E-01 9.17E-01 1.29E+00 1.29E+00 1.29E+00 1.29E+00

4.70E+01 0.00E+00 1.21E+00 9.01E-01 8.62E-01 1.21E+00 1.21E+00 1.21E+00 1.21E+00

4.97E+01 0.00E+00 1.14E+00 8.44E-01 8.08E-01 1.14E+00 1.14E+00 1.14E+00 1.14E+00

5.26E+01	0.00E+00	1.06E+00	7.88E-01	7.55E-01	1.06E+00	1.06E+00	1.06E+00	1.06E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.57E+01	0.00E+00	9.92E-01	7.32E-01	7.03E-01	9.89E-01	9.91E-01	9.91E-01	9.92E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.90E+01 0.00E+00 9.20E-01 6.78E-01 6.50E-01 9.18E-01 9.19E-01 9.20E-01 9.20E-01

6.24E+01 0.00E+00 8.50E-01 6.24E-01 6.00E-01 8.47E-01 8.49E-01 8.50E-01 8.50E-01

6.60E+01 0.00E+00 7.81E-01 5.73E-01 5.49E-01 7.79E-01 7.81E-01 7.81E-01 7.81E-01

6.99E+01 0.00E+00 7.15E-01 5.23E-01 5.01E-01 7.13E-01 7.14E-01 7.15E-01 7.15E-01

7.39E+01 0.00E+00 6.51E-01 4.74E-01 4.55E-01 6.48E-01 6.50E-01 6.50E-01 6.51E-01

7.82E+01 0.00E+00 5.89E-01 4.28E-01 4.11E-01 5.86E-01 5.89E-01 5.89E-01 5.89E-01

8.28E+01 0.00E+00 5.30E-01 3.84E-01 3.70E-01 5.27E-01 5.30E-01 5.30E-01 5.30E-01

8.76E+01 0.00E+00 4.74E-01 3.42E-01 3.30E-01 4.72E-01 4.74E-01 4.74E-01 4.74E-01

9.27E+01 0.00E+00 4.22E-01 3.03E-01 2.92E-01 4.19E-01 4.21E-01 4.21E-01 4.21E-01

9.81E+01 0.00E+00 3.72E-01 2.67E-01 2.57E-01 3.70E-01 3.72E-01 3.72E-01 3.72E-01

1.00E+02 0.00E+00 3.56E-01 2.55E-01 2.46E-01 3.54E-01 3.56E-01 3.56E-01 3.56E-01

1.04E+02 0.00E+00 3.26E-01 2.33E-01 2.24E-01 3.23E-01 3.26E-01 3.26E-01 3.26E-01

1.10E+02 0.00E+00 2.84E-01 2.01E-01 1.94E-01 2.81E-01 2.83E-01 2.83E-01 2.83E-01

1.16E+02 0.00E+00 2.45E-01 1.73E-01 1.67E-01 2.42E-01 2.44E-01 2.44E-01 2.44E-01

1.23E+02 0.00E+00 2.09E-01 1.47E-01 1.42E-01 2.07E-01 2.09E-01 2.09E-01 2.09E-01

1.30E+02 0.00E+00 1.77E-01 1.24E-01 1.20E-01 1.75E-01 1.77E-01 1.77E-01 1.77E-01

1.38E+02 0.00E+00 1.49E-01 1.04E-01 1.01E-01 1.47E-01 1.48E-01 1.49E-01 1.49E-01

1.46E+02 0.00E+00 1.24E-01 8.54E-02 8.34E-02 1.21E-01 1.23E-01 1.23E-01 1.23E-01

1.54E+02 0.00E+00 1.02E-01 6.97E-02 6.83E-02 9.92E-02 1.01E-01 1.01E-01 1.01E-01

1.63E+02 0.00E+00 8.25E-02 5.62E-02 5.50E-02 8.02E-02 8.22E-02 8.23E-02 8.24E-02

1.73E+02 0.00E+00 6.62E-02 4.47E-02 4.40E-02 6.42E-02 6.60E-02 6.61E-02 6.62E-02

1.83E+02 0.00E+00 5.24E-02 3.51E-02 3.46E-02 5.07E-02 5.22E-02 5.24E-02 5.24E-02

1.94E+02 0.00E+00 4.10E-02 2.70E-02 2.69E-02 3.91E-02 4.08E-02 4.09E-02 4.10E-02

2.05E+02 0.00E+00 3.16E-02 2.03E-02 2.05E-02 2.98E-02 3.14E-02 3.15E-02 3.16E-02

2.17E+02 0.00E+00 2.40E-02 1.50E-02 1.55E-02 2.22E-02 2.38E-02 2.39E-02 2.40E-02

2.29E+02 0.00E+00 1.79E-02 1.09E-02 1.14E-02 1.63E-02 1.77E-02 1.79E-02 1.79E-02

2.43E+02 0.00E+00 1.32E-02 7.80E-03 8.34E-03 1.19E-02 1.30E-02 1.31E-02 1.31E-02

2.57E+02 0.00E+00 9.49E-03 5.47E-03 5.95E-03 8.50E-03 9.37E-03 9.46E-03 9.48E-03

2.72E+02 0.00E+00 6.71E-03 3.77E-03 4.18E-03 5.96E-03 6.63E-03 6.69E-03 6.71E-03

2.88E+02 0.00E+00 4.66E-03 2.54E-03 2.88E-03 4.07E-03 4.60E-03 4.64E-03 4.65E-03

3.00E+02 0.00E+00 3.51E-03 1.87E-03 2.16E-03 3.05E-03 3.46E-03 3.50E-03 3.50E-03

3.05E+02 0.00E+00 3.16E-03 1.67E-03 1.94E-03 2.75E-03 3.12E-03 3.15E-03 3.16E-03

3.22E+02 0.00E+00 2.10E-03 1.08E-03 1.27E-03 1.82E-03 2.06E-03 2.09E-03 2.10E-03

3.41E+02	0.00E+00	1.36E-03	6.76E-04	8.15E-04	1.17E-03	1.33E-03	1.35E-03	1.36E-03
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.61E+02	0.00E+00	8.59E-04	4.13E-04	5.11E-04	7.37E-04	8.37E-04	8.56E-04	8.58E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.82E+02	0.00E+00	5.29E-04	2.46E-04	3.09E-04	4.49E-04	5.14E-04	5.27E-04	5.28E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.04E+02	0.00E+00	3.16E-04	1.42E-04	1.82E-04	2.66E-04	3.07E-04	3.15E-04	3.16E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.28E+02 0.00E+00 1.83E-04 7.95E-05 1.04E-04 1.53E-04 1.78E-04 1.83E-04 1.83E-04

4.53E+02 0.00E+00 1.03E-04 4.31E-05 5.69E-05 8.45E-05 1.00E-04 1.03E-04 1.03E-04

4.79E+02 0.00E+00 5.61E-05 2.26E-05 2.98E-05 4.58E-05 5.41E-05 5.58E-05 5.60E-05

5.07E+02 0.00E+00 2.94E-05 1.14E-05 1.52E-05 2.38E-05 2.82E-05 2.93E-05 2.94E-05

5.36E+02	0.00E+00	1.49E-05	5.54E-06	7.21E-06	1.19E-05	1.42E-05	1.48E-05	1.48E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.68E+02 0.00E+00 7.23E-06 2.59E-06 3.18E-06 5.69E-06 6.82E-06 7.18E-06 7.21E-06

6.01E+02 0.00E+00 3.37E-06 1.16E-06 1.28E-06 2.62E-06 3.12E-06 3.35E-06 3.36E-06

6.36E+02 0.00E+00 1.50E-06 4.93E-07 3.65E-07 1.16E-06 1.36E-06 1.49E-06 1.50E-06

6.73E+02 0.00E+00 6.37E-07 2.00E-07 5.39E-10 4.87E-07 5.68E-07 6.30E-07 6.35E-07

7.12E+02 0.00E+00 2.57E-07 7.72E-08 2.99E-11 1.95E-07 2.28E-07 2.54E-07 2.57E-07

7.53E+02 0.00E+00 9.88E-08 2.82E-08 4.48E-12 7.40E-08 8.69E-08 9.60E-08 9.85E-08

7.97E+02 0.00E+00 3.58E-08 9.73E-09 6.78E-13 2.66E-08 3.11E-08 3.48E-08 3.57E-08

8.44E+02 0.00E+00 1.22E-08 3.15E-09 1.71E-13 8.99E-09 1.05E-08 1.19E-08 1.22E-08

8.93E+02	0.00E+00	3.93E-09	9.57E-10	4.42E-14	2.85E-09	3.35E-09	3.81E-09	3.92E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.45E+02	0.00E+00	1.18E-09	2.72E-10	7.10E-15	8.50E-10	1.01E-09	1.15E-09	1.18E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

1.00E+03 0.00E+00 3.31E-10 7.16E-11 1.74E-15 2.37E-10 2.80E-10 3.21E-10 3.30E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Summary of dose at graphical times, reptition 3								
Time	Dose statistics at graphical times, mrem/yr							
Years	Minimum	Maximum	Mean	Median	90%	95%	97.5%	99%
0.00E+00	2.28E+00	3.59E+00	2.83E+00	2.66E+00	3.59E+00	3.59E+00	3.59E+00	3.59E+00
1.00E+00	2.23E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.06E+00	2.23E+00	3.51E+00	2.76E+00	2.59E+00	3.51E+00	3.51E+00	3.51E+00	3.51E+00
1.12E+00	2.22E+00	3.50E+00	2.75E+00	2.59E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.19E+00	2.22E+00	3.50E+00	2.75E+00	2.58E+00	3.50E+00	3.50E+00	3.50E+00	3.50E+00
1.25E+00	2.22E+00	3.49E+00	2.75E+00	2.58E+00	3.49E+00	3.49E+00	3.49E+00	3.49E+00
1.33E+00	2.21E+00	3.48E+00	2.74E+00	2.57E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.40E+00	2.21E+00	3.48E+00	2.74E+00	2.57E+00	3.48E+00	3.48E+00	3.48E+00	3.48E+00
1.49E+00	2.21E+00	3.47E+00	2.73E+00	2.56E+00	3.47E+00	3.47E+00	3.47E+00	3.47E+00
1.57E+00	2.20E+00	3.46E+00	2.72E+00	2.56E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.66E+00	2.19E+00	3.46E+00	2.72E+00	2.55E+00	3.46E+00	3.46E+00	3.46E+00	3.46E+00
1.76E+00	2.18E+00	3.45E+00	2.71E+00	2.55E+00	3.45E+00	3.45E+00	3.45E+00	3.45E+00
1.86E+00	2.17E+00	3.44E+00	2.70E+00	2.54E+00	3.44E+00	3.44E+00	3.44E+00	3.44E+00
1.97E+00	2.15E+00	3.43E+00	2.70E+00	2.53E+00	3.43E+00	3.43E+00	3.43E+00	3.43E+00
2.09E+00	2.14E+00	3.42E+00	2.69E+00	2.53E+00	3.42E+00	3.42E+00	3.42E+00	3.42E+00
2.21E+00	2.12E+00	3.41E+00	2.68E+00	2.52E+00	3.41E+00	3.41E+00	3.41E+00	3.41E+00
2.34E+00	2.11E+00	3.40E+00	2.67E+00	2.51E+00	3.40E+00	3.40E+00	3.40E+00	3.40E+00
2.47E+00	2.09E+00	3.39E+00	2.66E+00	2.50E+00	3.39E+00	3.39E+00	3.39E+00	3.39E+00
2.62E+00	2.07E+00	3.38E+00	2.66E+00	2.49E+00	3.38E+00	3.38E+00	3.38E+00	3.38E+00
2.77E+00	2.04E+00	3.37E+00	2.65E+00	2.48E+00	3.37E+00	3.37E+00	3.37E+00	3.37E+00
2.93E+00	2.02E+00	3.36E+00	2.64E+00	2.47E+00	3.36E+00	3.36E+00	3.36E+00	3.36E+00
3.00E+00	2.01E+00	3.35E+00	2.63E+00	2.47E+00	3.35E+00	3.35E+00	3.35E+00	3.35E+00
3.10E+00	1.99E+00	3.34E+00	2.62E+00	2.46E+00	3.34E+00	3.34E+00	3.34E+00	3.34E+00
3.28E+00	1.96E+00	3.33E+00	2.61E+00	2.45E+00	3.33E+00	3.33E+00	3.33E+00	3.33E+00
3.48E+00	1.93E+00	3.32E+00	2.60E+00	2.44E+00	3.31E+00	3.32E+00	3.32E+00	3.32E+00
3.68E+00	1.90E+00	3.30E+00	2.59E+00	2.43E+00	3.30E+00	3.30E+00	3.30E+00	3.30E+00
3.89E+00	1.82E+00	3.28E+00	2.57E+00	2.42E+00	3.28E+00	3.28E+00	3.28E+00	3.28E+00
4.12E+00	1.64E+00	3.27E+00	2.56E+00	2.40E+00	3.27E+00	3.27E+00	3.27E+00	3.27E+00
4.36E+00	1.38E+00	3.25E+00	2.54E+00	2.39E+00	3.25E+00	3.25E+00	3.25E+00	3.25E+00
4.61E+00	9.68E-01	3.23E+00	2.53E+00	2.38E+00	3.23E+00	3.23E+00	3.23E+00	3.23E+00
4.88E+00	5.47E-01	3.21E+00	2.51E+00	2.36E+00	3.21E+00	3.21E+00	3.21E+00	3.21E+00
5.17E+00	1.88E-01	3.19E+00	2.49E+00	2.34E+00	3.19E+00	3.19E+00	3.19E+00	3.19E+00
5.47E+00	3.91E-03	3.17E+00	2.47E+00	2.33E+00	3.17E+00	3.17E+00	3.17E+00	3.17E+00
5.78E+00	0.00E+00	3.14E+00	2.45E+00	2.31E+00	3.14E+00	3.14E+00	3.14E+00	3.14E+00
6.12E+00	0.00E+00	3.12E+00	2.43E+00	2.29E+00	3.12E+00	3.12E+00	3.12E+00	3.12E+00
6.48E+00	0.00E+00	3.09E+00	2.41E+00	2.27E+00	3.09E+00	3.09E+00	3.09E+00	3.09E+00
6.86E+00	0.00E+00	3.07E+00	2.39E+00	2.25E+00	3.07E+00	3.07E+00	3.07E+00	3.07E+00
7.26E+00	0.00E+00	3.04E+00	2.36E+00	2.23E+00	3.04E+00	3.04E+00	3.04E+00	3.04E+00
7.68E+00	0.00E+00	3.01E+00	2.34E+00	2.20E+00	3.01E+00	3.01E+00	3.01E+00	3.01E+00
8.13E+00	0.00E+00	2.98E+00	2.31E+00	2.18E+00	2.98E+00	2.98E+00	2.98E+00	2.98E+00
8.60E+00	0.00E+00	2.95E+00	2.28E+00	2.16E+00	2.94E+00	2.94E+00	2.94E+00	2.95E+00
9.10E+00	0.00E+00	2.91E+00	2.25E+00	2.13E+00	2.91E+00	2.91E+00	2.91E+00	2.91E+00
9.63E+00	0.00E+00	2.88E+00	2.22E+00	2.10E+00	2.87E+00	2.88E+00	2.88E+00	2.88E+00
1.00E+01	0.00E+00	2.85E+00	2.20E+00	2.09E+00	2.85E+00	2.85E+00	2.85E+00	2.85E+00
1.02E+01	0.00E+00	2.84E+00	2.19E+00	2.08E+00	2.84E+00	2.84E+00	2.84E+00	2.84E+00
1.08E+01	0.00E+00	2.80E+00	2.16E+00	2.05E+00	2.80E+00	2.80E+00	2.80E+00	2.80E+00
1.14E+01	0.00E+00	2.76E+00	2.13E+00	2.02E+00	2.76E+00	2.76E+00	2.76E+00	2.76E+00
1.21E+01	0.00E+00	2.72E+00	2.09E+00	1.98E+00	2.72E+00	2.72E+00	2.72E+00	2.72E+00
1.28E+01	0.00E+00	2.67E+00	2.05E+00	1.95E+00	2.67E+00	2.67E+00	2.67E+00	2.67E+00
1.35E+01	0.00E+00	2.63E+00	2.02E+00	1.92E+00	2.63E+00	2.63E+00	2.63E+00	2.63E+00
1.43E+01	0.00E+00	2.58E+00	1.98E+00	1.88E+00	2.58E+00	2.58E+00	2.58E+00	2.58E+00
1.51E+01	0.00E+00	2.53E+00	1.94E+00	1.84E+00	2.53E+00	2.53E+00	2.53E+00	2.53E+00
1.60E+01	0.00E+00	2.48E+00	1.90E+00	1.80E+00	2.48E+00	2.48E+00	2.48E+00	2.48E+00
1.70E+01	0.00E+00	2.43E+00	1.85E+00	1.76E+00	2.43E+00	2.43E+00	2.43E+00	2.43E+00
1.80E+01	0.00E+00	2.37E+00	1.81E+00	1.72E+00	2.37E+00	2.37E+00	2.37E+00	2.37E+00
1.90E+01	0.00E+00	2.32E+00	1.76E+00	1.68E+00	2.31E+00	2.32E+00	2.32E+00	2.32E+00

2.01E+01 0.00E+00 2.26E+00 1.72E+00 1.63E+00 2.26E+00 2.26E+00 2.26E+00 2.26E+00

2.13E+01 0.00E+00 2.20E+00 1.67E+00 1.59E+00 2.20E+00 2.20E+00 2.20E+00 2.20E+00

2.25E+01 0.00E+00 2.14E+00 1.62E+00 1.54E+00 2.13E+00 2.13E+00 2.14E+00 2.14E+00

2.38E+01 0.00E+00 2.07E+00 1.57E+00 1.49E+00 2.07E+00 2.07E+00 2.07E+00 2.07E+00

2.52E+01	0.00E+00	2.01E+00	1.52E+00	1.45E+00	2.00E+00	2.01E+00	2.01E+00	2.01E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

2.67E+01 0.00E+00 1.94E+00 1.46E+00 1.40E+00 1.94E+00 1.94E+00 1.94E+00 1.94E+00

2.82E+01 0.00E+00 1.87E+00 1.41E+00 1.34E+00 1.87E+00 1.87E+00 1.87E+00 1.87E+00

2.99E+01 0.00E+00 1.80E+00 1.36E+00 1.29E+00 1.80E+00 1.80E+00 1.80E+00 1.80E+00

3.00E+01 0.00E+00 1.80E+00 1.35E+00 1.29E+00 1.79E+00 1.80E+00 1.80E+00 1.80E+00

3.16E+01 0.00E+00 1.73E+00 1.30E+00 1.24E+00 1.73E+00 1.73E+00 1.73E+00 1.73E+00

3.35E+01 0.00E+00 1.66E+00 1.24E+00 1.19E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+00

3.54E+01	0.00E+00	1.58E+00	1.19E+00	1.13E+00	1.58E+00	1.58E+00	1.58E+00	1.58E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

3.75E+01 0.00E+00 1.51E+00 1.13E+00 1.08E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00

3.97E+01	0.00E+00	1.44E+00	1.07E+00	1.02E+00	1.43E+00	1.44E+00	1.44E+00	1.44E+00
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.20E+01 0.00E+00 1.36E+00 1.01E+00 9.66E-01 1.36E+00 1.36E+00 1.36E+00 1.36E+00

4.44E+01 0.00E+00 1.29E+00 9.56E-01 9.11E-01 1.29E+00 1.29E+00 1.29E+00 1.29E+00

4.70E+01 0.00E+00 1.21E+00 8.99E-01 8.56E-01 1.21E+00 1.21E+00 1.21E+00 1.21E+00

4.97E+01 0.00E+00 1.14E+00 8.43E-01 8.01E-01 1.14E+00 1.14E+00 1.14E+00 1.14E+00

5.26E+01 0.00E+00 1.06E+00 7.86E-01 7.48E-01 1.06E+00 1.06E+00 1.06E+00 1.06E+00

5.57E+01	0.00E+00	9.92E-01	7.31E-01	6.97E-01	9.90E-01	9.91E-01	9.92E-01	9.92E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.90E+01 0.00E+00 9.20E-01 6.76E-01 6.45E-01 9.18E-01 9.20E-01 9.20E-01 9.20E-01

6.24E+01 0.00E+00 8.50E-01 6.23E-01 5.95E-01 8.48E-01 8.49E-01 8.50E-01 8.50E-01

6.60E+01 0.00E+00 7.81E-01 5.72E-01 5.45E-01 7.80E-01 7.81E-01 7.81E-01 7.81E-01

6.99E+01 0.00E+00 7.15E-01 5.22E-01 4.98E-01 7.13E-01 7.15E-01 7.15E-01 7.15E-01

7.39E+01 0.00E+00 6.51E-01 4.74E-01 4.51E-01 6.49E-01 6.50E-01 6.51E-01 6.51E-01

7.82E+01 0.00E+00 5.89E-01 4.27E-01 4.08E-01 5.87E-01 5.89E-01 5.89E-01 5.89E-01

8.28E+01	0.00E+00	5.30E-01	3.83E-01	3.66E-01	5.28E-01	5.30E-01	5.30E-01	5.30E-01
----------	----------	----------	----------	----------	----------	----------	----------	----------

8.76E+01 0.00E+00 4.74E-01 3.41E-01 3.27E-01 4.72E-01 4.74E-01 4.74E-01 4.74E-01

9.27E+01 0.00E+00 4.22E-01 3.02E-01 2.89E-01 4.19E-01 4.21E-01 4.21E-01 4.22E-01

9.81E+01 0.00E+00 3.72E-01 2.66E-01 2.54E-01 3.70E-01 3.72E-01 3.72E-01 3.72E-01

1.00E+02 0.00E+00 3.56E-01 2.54E-01 2.44E-01 3.54E-01 3.56E-01 3.56E-01 3.56E-01

1.04E+02 0.00E+00 3.26E-01 2.32E-01 2.22E-01 3.24E-01 3.26E-01 3.26E-01 3.26E-01

1.10E+02 0.00E+00 2.84E-01 2.01E-01 1.93E-01 2.81E-01 2.83E-01 2.83E-01 2.84E-01

1.16E+02 0.00E+00 2.45E-01 1.73E-01 1.65E-01 2.43E-01 2.44E-01 2.44E-01 2.45E-01

1.23E+02 0.00E+00 2.09E-01 1.47E-01 1.41E-01 2.07E-01 2.09E-01 2.09E-01 2.09E-01

1.30E+02 0.00E+00 1.77E-01 1.24E-01 1.19E-01 1.75E-01 1.77E-01 1.77E-01 1.77E-01

1.38E+02 0.00E+00 1.49E-01 1.03E-01 9.94E-02 1.47E-01 1.48E-01 1.49E-01 1.49E-01

1.46E+02 0.00E+00 1.24E-01 8.54E-02 8.24E-02 1.22E-01 1.23E-01 1.23E-01 1.24E-01

1.54E+02 0.00E+00 1.02E-01 6.98E-02 6.74E-02 9.97E-02 1.01E-01 1.01E-01 1.01E-01

1.63E+02 0.00E+00 8.25E-02 5.63E-02 5.45E-02 8.04E-02 8.23E-02 8.24E-02 8.25E-02

1.73E+02 0.00E+00 6.62E-02 4.48E-02 4.35E-02 6.41E-02 6.60E-02 6.61E-02 6.62E-02

1.83E+02 0.00E+00 5.24E-02 3.51E-02 3.42E-02 5.07E-02 5.23E-02 5.24E-02 5.24E-02

1.94E+02 0.00E+00 4.10E-02 2.70E-02 2.65E-02 3.95E-02 4.09E-02 4.09E-02 4.10E-02

2.05E+02 0.00E+00 3.16E-02 2.03E-02 2.03E-02 3.04E-02 3.15E-02 3.16E-02 3.16E-02

2.17E+02 0.00E+00 2.40E-02 1.51E-02 1.53E-02 2.29E-02 2.39E-02 2.39E-02 2.40E-02

2.29E+02 0.00E+00 1.79E-02 1.10E-02 1.13E-02 1.67E-02 1.78E-02 1.79E-02 1.79E-02

2.43E+02 0.00E+00 1.32E-02 7.84E-03 8.25E-03 1.22E-02 1.31E-02 1.31E-02 1.31E-02

2.57E+02 0.00E+00 9.49E-03 5.51E-03 5.90E-03 8.73E-03 9.42E-03 9.47E-03 9.48E-03

2.72E+02 0.00E+00 6.71E-03 3.79E-03 4.14E-03 6.13E-03 6.66E-03 6.70E-03 6.71E-03

2.88E+02 0.00E+00 4.65E-03 2.55E-03 2.85E-03 4.22E-03 4.61E-03 4.64E-03 4.65E-03

3.00E+02 0.00E+00 3.51E-03 1.88E-03 2.14E-03 3.16E-03 3.47E-03 3.50E-03 3.51E-03

3.05E+02 0.00E+00 3.16E-03 1.68E-03 1.92E-03 2.83E-03 3.12E-03 3.15E-03 3.16E-03

3.22E+02 0.00E+00 2.10E-03 1.08E-03 1.26E-03 1.87E-03 2.06E-03 2.09E-03 2.10E-03

3.41E+02 0.00E+00 1.36E-03 6.81E-04 8.09E-04 1.19E-03 1.34E-03 1.35E-03 1.36E-03

3.61E+02 0.00E+00 8.59E-04 4.17E-04 5.03E-04 7.45E-04 8.42E-04 8.55E-04 8.58E-04

3.82E+02	0.00E+00	5.29E-04	2.48E-04	3.07E-04	4.53E-04	5.15E-04	5.26E-04	5.28E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.04E+02	0.00E+00	3.16E-04	1.43E-04	1.80E-04	2.67E-04	3.07E-04	3.14E-04	3.16E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.28E+02	0.00E+00	1.84E-04	8.04E-05	1.03E-04	1.54E-04	1.78E-04	1.82E-04	1.83E-04
----------	----------	----------	----------	----------	----------	----------	----------	----------

4.53E+02 0.00E+00 1.03E-04 4.36E-05 5.72E-05 8.53E-05 9.77E-05 1.02E-04 1.03E-04

4.79E+02 0.00E+00 5.61E-05 2.28E-05 3.03E-05 4.60E-05 5.18E-05 5.52E-05 5.59E-05

5.07E+02	0.00E+00	2.94E-05	1.15E-05	1.53E-05	2.37E-05	2.68E-05	2.89E-05	2.93E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.36E+02	0.00E+00	1.49E-05	5.59E-06	7.42E-06	1.20E-05	1.35E-05	1.46E-05	1.48E-05
----------	----------	----------	----------	----------	----------	----------	----------	----------

5.68E+02 0.00E+00 7.23E-06 2.61E-06 3.30E-06 5.70E-06 6.57E-06 7.08E-06 7.20E-06

6.01E+02 0.00E+00 3.37E-06 1.16E-06 1.34E-06 2.63E-06 3.02E-06 3.29E-06 3.35E-06

6.36E+02 0.00E+00 1.50E-06 4.95E-07 4.11E-07 1.15E-06 1.33E-06 1.47E-06 1.49E-06

6.73E+02 0.00E+00 6.37E-07 2.01E-07 1.03E-08 4.86E-07 5.62E-07 6.22E-07 6.34E-07

7.12E+02	0.00E+00	2.58E-07	7.74E-08	4.59E-11	1.94E-07	2.25E-07	2.50E-07	2.56E-07
----------	----------	----------	----------	----------	----------	----------	----------	----------

7.53E+02 0.00E+00 9.88E-08 2.82E-08 7.00E-12 7.42E-08 8.57E-08 9.57E-08 9.81E-08

7.97E+02 0.00E+00 3.58E-08 9.75E-09 1.18E-12 2.65E-08 3.08E-08 3.46E-08 3.56E-08

8.44E+02 0.00E+00 1.23E-08 3.16E-09 2.28E-13 8.91E-09 1.05E-08 1.18E-08 1.22E-08

8.93E+02	0.00E+00	3.94E-09	9.60E-10	6.38E-14	2.85E-09	3.36E-09	3.77E-09	3.90E-09
----------	----------	----------	----------	----------	----------	----------	----------	----------

9.45E+02 0.00E+00 1.18E-09 2.72E-10 1.45E-14 8.54E-10 1.01E-09 1.13E-09 1.17E-09

1.00E+03	0.00E+00	3.32E-10	7.19E-11	3.24E-15	2.39E-10	2.79E-10	3.16E-10	3.29E-10
----------	----------	----------	----------	----------	----------	----------	----------	----------

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose	Peak mean dose
	Years	mrem/yr
1	0.000E+00	2.830E+00
2	0.000E+00	2.830E+00
3	0.000E+00	2.830E+00

Title : RESRAD Default Parameters
Input File : FCS SOIL UNCERTAINTY ANALYSIS CS-137.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
Contaminated zone erosion rate	7 0.05	7 0.01	16 -0.02	16 0.00
Contaminated zone b parameter	11 -0.04	11 -0.01	5 -0.05	5 0.00
Evapotranspiration coefficient	6 -0.06	6 -0.02	10 -0.04	10 0.00
Wind Speed	19 0.02	19 0.01	18 0.01	18 0.00
Runoff coefficient	21 0.00	21 0.00	20 0.00	20 0.00
Well pump intake depth	4 0.07	4 0.02	3 0.06	3 0.01
b Parameter of Unsaturated zone 1	12 -0.04	12 -0.01	8 -0.05	8 0.00
Mass loading for inhalation	8 -0.05	9 -0.01	14 -0.04	14 0.00
Indoor dust filtration factor	13 -0.04	13 -0.01	15 0.03	15 0.00
Depth of soil mixing layer	20 -0.02	20 -0.01	4 -0.05	4 0.00
Depth of roots	1 -0.96	1 -0.96	1 -1.00	1 -1.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	3 -0.07	3 -0.02	13 -0.04	13 0.00
Weathering removal constant of all vegetation	18 -0.02	18 -0.01	6 -0.05	6 0.00
Wet foliar interception fraction of leafy vegetables	16 -0.02	16 -0.01	17 -0.01	17 0.00
Humidity in air	15 -0.03	15 -0.01	21 0.00	21 0.00
Kd of Cs-134 in Contaminated Zone	10 0.04	10 0.01	12 0.04	12 0.00
Kd of Cs-134 in Unsaturated Zone 1	2 0.09	2 0.03	7 -0.05	7 0.00
Kd of Cs-134 in Saturated Zone	14 -0.03	14 -0.01	19 0.01	19 0.00
Kd of Cs-137 in Contaminated Zone	17 -0.02	17 -0.01	2 0.07	2 0.01
Kd of Cs-137 in Unsaturated Zone 1	5 -0.06	5 -0.02	9 -0.04	9 0.00
Kd of Cs-137 in Saturated Zone	9 -0.05	8 -0.01	11 -0.04	11 0.00
R-SQUARE	0.92	0.92	0.99	0.99

-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 Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS CS-137.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
Contaminated zone erosion rate	2 -0.08	2 -0.02	20 0.00	20 0.00
Contaminated zone b parameter	19 -0.01	19 0.00	11 0.04	11 0.00
Evapotranspiration coefficient	4 0.07	4 0.02	2 0.11	2 0.01
Wind Speed	10 0.03	10 0.01	13 -0.04	13 0.00
Runoff coefficient	13 0.03	13 0.01	15 0.02	15 0.00
Well pump intake depth	11 -0.03	11 -0.01	9 -0.05	9 0.00
b Parameter of Unsaturated zone 1	14 0.02	14 0.01	7 0.06	7 0.01
Mass loading for inhalation	15 -0.02	15 -0.01	10 -0.05	10 0.00
Indoor dust filtration factor	20 0.01	20 0.00	12 0.04	12 0.00
Depth of soil mixing layer	6 -0.05	6 -0.01	16 -0.01	16 0.00
Depth of roots	1 -0.96	1 -0.96	1 -1.00	1 -1.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	5 -0.06	5 -0.02	21 0.00	21 0.00
Weathering removal constant of all vegetation	3 -0.08	3 -0.02	3 -0.10	3 -0.01
Wet foliar interception fraction of leafy vegetables	8 0.04	8 0.01	6 0.06	6 0.01
Humidity in air	9 -0.03	9 -0.01	17 -0.01	17 0.00
Kd of Cs-134 in Contaminated Zone	7 -0.04	7 -0.01	19 -0.01	19 0.00
Kd of Cs-134 in Unsaturated Zone 1	16 0.02	16 0.00	14 0.04	14 0.00
Kd of Cs-134 in Saturated Zone	12 -0.03	12 -0.01	8 0.05	8 0.00
Kd of Cs-137 in Contaminated Zone	21 0.00	21 0.00	4 0.09	4 0.01
Kd of Cs-137 in Unsaturated Zone 1	18 0.01	18 0.00	18 0.01	18 0.00
Kd of Cs-137 in Saturated Zone	17 0.01	17 0.00	5 0.07	5 0.01
R-SQUARE	0.92	0.92	0.99	0.99

-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 Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS CS-137.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
Contaminated zone erosion rate	14	-0.03	14	-0.01	4	-0.09	4	-0.01
Contaminated zone b parameter	20	0.00	20	0.00	9	-0.05	9	0.00
Evapotranspiration coefficient	2	-0.07	2	-0.02	3	-0.10	3	-0.01
Wind Speed	7	-0.05	7	-0.01	2	-0.12	2	-0.01
Runoff coefficient	12	-0.03	12	-0.01	8	-0.05	8	0.00
Well pump intake depth	3	-0.06	3	-0.02	6	-0.06	6	-0.01
b Parameter of Unsaturated zone 1	15	0.02	15	0.01	18	-0.01	18	0.00
Mass loading for inhalation	16	-0.02	16	-0.01	19	-0.01	19	0.00
Indoor dust filtration factor	21	0.00	21	0.00	14	0.03	14	0.00
Depth of soil mixing layer	9	0.04	9	0.01	7	0.05	7	0.00
Depth of roots	1	-0.96	1	-0.96	1	-1.00	1	-1.00
Wet weight crop yield of fruit, grain and non-leafy vegetables	18	-0.01	18	0.00	20	0.00	20	0.00
Weathering removal constant of all vegetation	10	0.04	11	0.01	12	0.03	12	0.00
Wet foliar interception fraction of leafy vegetables	5	-0.06	5	-0.02	17	-0.01	17	0.00
Humidity in air	17	0.02	17	0.00	16	0.01	16	0.00
Kd of Cs-134 in Contaminated Zone	11	-0.04	10	-0.01	11	0.04	11	0.00
Kd of Cs-134 in Unsaturated Zone 1	13	-0.03	13	-0.01	10	-0.04	10	0.00
Kd of Cs-134 in Saturated Zone	19	-0.01	19	0.00	5	-0.07	5	-0.01
Kd of Cs-137 in Contaminated Zone	4	0.06	4	0.02	21	0.00	21	0.00
Kd of Cs-137 in Unsaturated Zone 1	8	0.05	8	0.01	13	0.03	13	0.00
Kd of Cs-137 in Saturated Zone	6	-0.05	6	-0.02	15	-0.02	15	0.00
R-SQUARE	0.92		0.92		0.99		0.99	

-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.