

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS SR-90.RAD

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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 |
| Sr-90 | | | | | | | | | | |
| Min | 0.00E+00 | 4.42E+00 | 4.42E+00 | 3.94E+00 | 1.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 1.77E+01 | 1.77E+01 | 1.73E+01 | 1.65E+01 | 1.40E+01 | 8.80E+00 | 1.64E+00 | 1.40E-02 | 7.98E-10 |
| Avg | 0.00E+00 | 1.00E+01 | 1.00E+01 | 9.71E+00 | 9.11E+00 | 7.33E+00 | 4.12E+00 | 5.95E-01 | 2.57E-03 | 3.98E-11 |
| Std | 0.00E+00 | 4.77E+00 | 4.77E+00 | 4.64E+00 | 4.43E+00 | 3.79E+00 | 2.35E+00 | 4.23E-01 | 3.09E-03 | 1.07E-10 |
| ALL | | | | | | | | | | |
| Min | 0.00E+00 | 4.42E+00 | 4.42E+00 | 3.94E+00 | 1.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 1.77E+01 | 1.77E+01 | 1.73E+01 | 1.65E+01 | 1.40E+01 | 8.80E+00 | 1.64E+00 | 1.40E-02 | 7.98E-10 |
| Avg | 0.00E+00 | 1.00E+01 | 1.00E+01 | 9.71E+00 | 9.11E+00 | 7.33E+00 | 4.12E+00 | 5.95E-01 | 2.57E-03 | 3.98E-11 |
| Std | 0.00E+00 | 4.77E+00 | 4.77E+00 | 4.64E+00 | 4.43E+00 | 3.79E+00 | 2.35E+00 | 4.23E-01 | 3.09E-03 | 1.07E-10 |

ALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Risk Summary

| Nuclide | RISK(j,t) | | | | | | | | |
|---------|-----------|-------------|----------|----------|----------|----------|----------|----------|----------|
| | (j) | t= 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Sr-90 | | | | | | | | | |
| Min | | 8.65E-05 | 7.81E-05 | 4.74E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.36E-04 | 3.28E-04 | 3.13E-04 | 2.65E-04 | 1.64E-04 | 3.11E-05 | 2.64E-07 | 1.51E-14 |
| Avg | | 1.91E-04 | 1.85E-04 | 1.73E-04 | 1.39E-04 | 7.80E-05 | 1.12E-05 | 4.83E-08 | 7.47E-16 |
| Std | | 9.04E-05 | 8.80E-05 | 8.38E-05 | 7.18E-05 | 4.46E-05 | 8.02E-06 | 5.86E-08 | 2.02E-15 |
| <hr/> | | | | | | | | | |
| TOTAL | | | | | | | | | |
| Min | | 8.65E-05 | 7.81E-05 | 4.74E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.36E-04 | 3.28E-04 | 3.13E-04 | 2.65E-04 | 1.64E-04 | 3.11E-05 | 2.64E-07 | 1.51E-14 |
| Avg | | 1.91E-04 | 1.85E-04 | 1.73E-04 | 1.39E-04 | 7.80E-05 | 1.12E-05 | 4.83E-08 | 7.47E-16 |
| Std | | 9.04E-05 | 8.80E-05 | 8.38E-05 | 7.18E-05 | 4.46E-05 | 8.02E-06 | 5.86E-08 | 2.02E-15 |
| <hr/> | | | | | | | | | |

TOTAL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Dose vs Pathway(i): Ground External

| Nuclide | 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 |
| <hr/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 8.46E-03 | 4.33E-03 | 1.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.15E-02 | 1.12E-02 | 1.07E-02 | 9.06E-03 | 5.62E-03 | 1.06E-03 | 9.08E-06 | 5.25E-13 |
| Avg | 1.14E-02 | 1.11E-02 | 1.05E-02 | 8.48E-03 | 4.83E-03 | 7.56E-04 | 4.00E-06 | 6.08E-14 |
| Std | 1.13E-04 | 2.91E-04 | 5.28E-04 | 1.28E-03 | 1.28E-03 | 3.33E-04 | 3.43E-06 | 1.32E-13 |
| <hr/> | | | | | | | | |
| ALL | | | | | | | | |
| Min | 8.46E-03 | 4.33E-03 | 1.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.15E-02 | 1.12E-02 | 1.07E-02 | 9.06E-03 | 5.62E-03 | 1.06E-03 | 9.08E-06 | 5.25E-13 |
| Avg | 1.14E-02 | 1.11E-02 | 1.05E-02 | 8.48E-03 | 4.83E-03 | 7.56E-04 | 4.00E-06 | 6.08E-14 |
| Std | 1.13E-04 | 2.91E-04 | 5.28E-04 | 1.28E-03 | 1.28E-03 | 3.33E-04 | 3.43E-06 | 1.32E-13 |
| <hr/> | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

| Nuclide | 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 |
| <hr/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 4.93E-08 | 4.81E-08 | 4.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.09E-04 | 1.07E-04 | 1.01E-04 | 8.56E-05 | 5.27E-05 | 9.63E-06 | 7.49E-08 | 3.11E-15 |
| Avg | 1.76E-05 | 1.70E-05 | 1.61E-05 | 1.30E-05 | 7.40E-06 | 1.16E-06 | 5.91E-09 | 9.13E-17 |
| Std | 1.07E-05 | 1.04E-05 | 9.85E-06 | 8.30E-06 | 5.11E-06 | 9.42E-07 | 7.38E-09 | 2.58E-16 |
| <hr/> | | | | | | | | |
| ALL | | | | | | | | |
| Min | 4.93E-08 | 4.81E-08 | 4.58E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.09E-04 | 1.07E-04 | 1.01E-04 | 8.56E-05 | 5.27E-05 | 9.63E-06 | 7.49E-08 | 3.11E-15 |
| Avg | 1.76E-05 | 1.70E-05 | 1.61E-05 | 1.30E-05 | 7.40E-06 | 1.16E-06 | 5.91E-09 | 9.13E-17 |
| Std | 1.07E-05 | 1.04E-05 | 9.85E-06 | 8.30E-06 | 5.11E-06 | 9.42E-07 | 7.38E-09 | 2.58E-16 |
| <hr/> | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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

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

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

| Nuclide | 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 |
| <hr/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 2.87E+00 | 2.56E+00 | 1.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.19E+01 | 1.16E+01 | 1.11E+01 | 9.37E+00 | 5.82E+00 | 1.10E+00 | 9.35E-03 | 5.35E-10 |
| Avg | 6.67E+00 | 6.46E+00 | 6.05E+00 | 4.87E+00 | 2.71E+00 | 3.85E-01 | 1.62E-03 | 2.46E-11 |
| Std | 3.22E+00 | 3.14E+00 | 3.00E+00 | 2.56E+00 | 1.60E+00 | 2.88E-01 | 2.08E-03 | 7.08E-11 |
| <hr/> | | | | | | | | |
| ALL | | | | | | | | |
| Min | 2.87E+00 | 2.56E+00 | 1.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.19E+01 | 1.16E+01 | 1.11E+01 | 9.37E+00 | 5.82E+00 | 1.10E+00 | 9.35E-03 | 5.35E-10 |
| Avg | 6.67E+00 | 6.46E+00 | 6.05E+00 | 4.87E+00 | 2.71E+00 | 3.85E-01 | 1.62E-03 | 2.46E-11 |
| Std | 3.22E+00 | 3.14E+00 | 3.00E+00 | 2.56E+00 | 1.60E+00 | 2.88E-01 | 2.08E-03 | 7.08E-11 |
| <hr/> | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

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

| Nuclide | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----------------------|----------|----------|----------|----------|----------|----------|----------|
| | 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/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 5.90E-01 | 5.27E-01 | 2.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.15E+00 | 2.10E+00 | 2.00E+00 | 1.69E+00 | 1.05E+00 | 1.99E-01 | 1.69E-03 | 9.67E-11 |
| Avg | 1.25E+00 | 1.21E+00 | 1.13E+00 | 9.10E-01 | 5.08E-01 | 7.26E-02 | 3.11E-04 | 4.69E-12 |
| Std | 5.59E-01 | 5.44E-01 | 5.19E-01 | 4.47E-01 | 2.81E-01 | 5.15E-02 | 3.80E-04 | 1.31E-11 |
| <hr/> | | | | | | | | |
| ALL | | | | | | | | |
| Min | 5.90E-01 | 5.27E-01 | 2.38E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.15E+00 | 2.10E+00 | 2.00E+00 | 1.69E+00 | 1.05E+00 | 1.99E-01 | 1.69E-03 | 9.67E-11 |
| Avg | 1.25E+00 | 1.21E+00 | 1.13E+00 | 9.10E-01 | 5.08E-01 | 7.26E-02 | 3.11E-04 | 4.69E-12 |
| Std | 5.59E-01 | 5.44E-01 | 5.19E-01 | 4.47E-01 | 2.81E-01 | 5.15E-02 | 3.80E-04 | 1.31E-11 |
| <hr/> | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

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

| Nuclide | 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 |
| Sr-90 | | | | | | | | |
| Min | 9.46E-01 | 8.45E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.69E+00 | 3.60E+00 | 3.44E+00 | 2.91E+00 | 1.81E+00 | 3.41E-01 | 2.90E-03 | 1.66E-10 |
| Avg | 2.10E+00 | 2.04E+00 | 1.91E+00 | 1.53E+00 | 8.56E-01 | 1.22E-01 | 5.16E-04 | 7.82E-12 |
| Std | 9.83E-01 | 9.57E-01 | 9.13E-01 | 7.83E-01 | 4.90E-01 | 8.89E-02 | 6.49E-04 | 2.22E-11 |
| ALL | | | | | | | | |
| Min | 9.46E-01 | 8.45E-01 | 3.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.69E+00 | 3.60E+00 | 3.44E+00 | 2.91E+00 | 1.81E+00 | 3.41E-01 | 2.90E-03 | 1.66E-10 |
| Avg | 2.10E+00 | 2.04E+00 | 1.91E+00 | 1.53E+00 | 8.56E-01 | 1.22E-01 | 5.16E-04 | 7.82E-12 |
| Std | 9.83E-01 | 9.57E-01 | 9.13E-01 | 7.83E-01 | 4.90E-01 | 8.89E-02 | 6.49E-04 | 2.22E-11 |

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Soil Ingestion

| Nuclide | 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 |
| <hr/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 1.59E-03 | 8.14E-04 | 2.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.16E-03 | 2.10E-03 | 2.01E-03 | 1.70E-03 | 1.06E-03 | 1.99E-04 | 1.70E-06 | 9.86E-14 |
| Avg | 2.15E-03 | 2.09E-03 | 1.97E-03 | 1.59E-03 | 9.06E-04 | 1.42E-04 | 7.18E-07 | 1.03E-14 |
| Std | 2.12E-05 | 5.46E-05 | 9.92E-05 | 2.45E-04 | 2.42E-04 | 6.26E-05 | 6.40E-07 | 2.35E-14 |
| <hr/> | | | | | | | | |
| ALL | | | | | | | | |
| Min | 1.59E-03 | 8.14E-04 | 2.13E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.16E-03 | 2.10E-03 | 2.01E-03 | 1.70E-03 | 1.06E-03 | 1.99E-04 | 1.70E-06 | 9.86E-14 |
| Avg | 2.15E-03 | 2.09E-03 | 1.97E-03 | 1.59E-03 | 9.06E-04 | 1.42E-04 | 7.18E-07 | 1.03E-14 |
| Std | 2.12E-05 | 5.46E-05 | 9.92E-05 | 2.45E-04 | 2.42E-04 | 6.26E-05 | 6.40E-07 | 2.35E-14 |
| <hr/> | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

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Probabilistic Dose vs Pathway(i): Water Ingestion

| Nuclide | 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 |
| Sr-90 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.34E-03 | 4.95E-02 | 1.59E-01 | 1.20E+00 | 2.81E+00 | 3.43E-01 | 1.74E-03 | 3.11E-11 |
| Avg | 6.97E-06 | 1.09E-04 | 7.71E-04 | 7.35E-03 | 2.27E-02 | 1.03E-02 | 8.08E-05 | 1.88E-12 |
| Std | 9.04E-05 | 1.50E-03 | 6.26E-03 | 5.78E-02 | 1.42E-01 | 3.06E-02 | 1.54E-04 | 3.40E-12 |
| 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 | 2.34E-03 | 4.95E-02 | 1.59E-01 | 1.20E+00 | 2.81E+00 | 3.43E-01 | 1.74E-03 | 3.11E-11 |
| Avg | 6.97E-06 | 1.09E-04 | 7.71E-04 | 7.35E-03 | 2.27E-02 | 1.03E-02 | 8.08E-05 | 1.88E-12 |
| Std | 9.04E-05 | 1.50E-03 | 6.26E-03 | 5.78E-02 | 1.42E-01 | 3.06E-02 | 1.54E-04 | 3.40E-12 |

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 SR-90.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/> | | | | | | | | |
| 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 |
| <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 | 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 SR-90.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/> | | | | | | | | |
| 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 |
| <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 | 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 SR-90.RAD

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

| Nuclide | 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 |
| Sr-90 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.62E-04 | 3.97E-03 | 2.98E-02 | 3.48E-01 | 5.57E-01 | 7.84E-02 | 1.91E-04 | 3.58E-12 |
| Avg | 5.69E-07 | 1.04E-05 | 9.35E-05 | 9.57E-04 | 2.95E-03 | 1.16E-03 | 8.73E-06 | 2.05E-13 |
| Std | 7.08E-06 | 1.39E-04 | 9.62E-04 | 1.08E-02 | 2.28E-02 | 4.04E-03 | 1.70E-05 | 4.00E-13 |
| 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 | 1.62E-04 | 3.97E-03 | 2.98E-02 | 3.48E-01 | 5.57E-01 | 7.84E-02 | 1.91E-04 | 3.58E-12 |
| Avg | 5.69E-07 | 1.04E-05 | 9.35E-05 | 9.57E-04 | 2.95E-03 | 1.16E-03 | 8.73E-06 | 2.05E-13 |
| Std | 7.08E-06 | 1.39E-04 | 9.62E-04 | 1.08E-02 | 2.28E-02 | 4.04E-03 | 1.70E-05 | 4.00E-13 |

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 SR-90.RAD

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

| Nuclide | 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 |
| Sr-90 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.53E-04 | 6.26E-03 | 2.24E-02 | 2.01E-01 | 4.08E-01 | 5.43E-02 | 2.25E-04 | 4.07E-12 |
| Avg | 5.93E-07 | 1.32E-05 | 1.04E-04 | 1.07E-03 | 3.34E-03 | 1.47E-03 | 1.15E-05 | 2.66E-13 |
| Std | 7.44E-06 | 1.90E-04 | 8.77E-04 | 8.98E-03 | 2.12E-02 | 4.37E-03 | 2.15E-05 | 4.80E-13 |
| 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 | 1.53E-04 | 6.26E-03 | 2.24E-02 | 2.01E-01 | 4.08E-01 | 5.43E-02 | 2.25E-04 | 4.07E-12 |
| Avg | 5.93E-07 | 1.32E-05 | 1.04E-04 | 1.07E-03 | 3.34E-03 | 1.47E-03 | 1.15E-05 | 2.66E-13 |
| Std | 7.44E-06 | 1.90E-04 | 8.77E-04 | 8.98E-03 | 2.12E-02 | 4.37E-03 | 2.15E-05 | 4.80E-13 |

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 SR-90.RAD

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

| Nuclide | 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 |
| <hr/> | | | | | | | | |
| Sr-90 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.47E-04 | 8.01E-03 | 2.77E-02 | 2.73E-01 | 5.01E-01 | 7.03E-02 | 2.66E-04 | 4.73E-12 |
| Avg | 8.45E-07 | 1.68E-05 | 1.31E-04 | 1.33E-03 | 4.11E-03 | 1.78E-03 | 1.39E-05 | 3.21E-13 |
| Std | 1.07E-05 | 2.44E-04 | 1.12E-03 | 1.15E-02 | 2.64E-02 | 5.34E-03 | 2.60E-05 | 5.84E-13 |
| <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 | 2.47E-04 | 8.01E-03 | 2.77E-02 | 2.73E-01 | 5.01E-01 | 7.03E-02 | 2.66E-04 | 4.73E-12 |
| Avg | 8.45E-07 | 1.68E-05 | 1.31E-04 | 1.33E-03 | 4.11E-03 | 1.78E-03 | 1.39E-05 | 3.21E-13 |
| Std | 1.07E-05 | 2.44E-04 | 1.12E-03 | 1.15E-02 | 2.64E-02 | 5.34E-03 | 2.60E-05 | 5.84E-13 |
| <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 SR-90.RAD

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 | 4.65E+00 | 4.50E+00 | 4.18E+00 | 2.16E+00 | 7.84E-02 | 2.62E-04 | 1.52E-13 | 0.00E+00 |
| 0.050 | 4.76E+00 | 4.60E+00 | 4.30E+00 | 3.23E+00 | 8.61E-01 | 1.24E-02 | 4.43E-07 | 0.00E+00 |
| 0.075 | 4.86E+00 | 4.72E+00 | 4.38E+00 | 3.49E+00 | 1.59E+00 | 6.20E-02 | 2.00E-06 | 0.00E+00 |
| 0.100 | 4.99E+00 | 4.82E+00 | 4.48E+00 | 3.60E+00 | 1.84E+00 | 1.13E-01 | 5.58E-06 | 0.00E+00 |
| 0.125 | 5.11E+00 | 4.94E+00 | 4.59E+00 | 3.66E+00 | 1.99E+00 | 1.67E-01 | 1.60E-05 | 0.00E+00 |
| 0.150 | 5.26E+00 | 5.07E+00 | 4.70E+00 | 3.73E+00 | 2.08E+00 | 2.04E-01 | 2.60E-05 | 0.00E+00 |
| 0.175 | 5.39E+00 | 5.19E+00 | 4.85E+00 | 3.86E+00 | 2.16E+00 | 2.38E-01 | 4.22E-05 | 0.00E+00 |
| 0.200 | 5.53E+00 | 5.32E+00 | 4.95E+00 | 3.97E+00 | 2.22E+00 | 2.63E-01 | 7.92E-05 | 1.50E-18 |
| 0.225 | 5.67E+00 | 5.47E+00 | 5.09E+00 | 4.10E+00 | 2.28E+00 | 2.85E-01 | 1.23E-04 | 1.03E-14 |
| 0.250 | 5.85E+00 | 5.65E+00 | 5.23E+00 | 4.21E+00 | 2.35E+00 | 3.04E-01 | 1.81E-04 | 2.57E-14 |
| 0.275 | 6.03E+00 | 5.81E+00 | 5.40E+00 | 4.35E+00 | 2.41E+00 | 3.28E-01 | 2.61E-04 | 5.11E-14 |
| 0.300 | 6.21E+00 | 6.02E+00 | 5.58E+00 | 4.52E+00 | 2.50E+00 | 3.44E-01 | 3.50E-04 | 9.14E-14 |
| 0.325 | 6.41E+00 | 6.20E+00 | 5.80E+00 | 4.67E+00 | 2.58E+00 | 3.62E-01 | 4.39E-04 | 1.33E-13 |
| 0.350 | 6.64E+00 | 6.42E+00 | 5.96E+00 | 4.81E+00 | 2.71E+00 | 3.81E-01 | 5.68E-04 | 2.31E-13 |
| 0.375 | 6.84E+00 | 6.62E+00 | 6.15E+00 | 4.98E+00 | 2.80E+00 | 3.98E-01 | 6.90E-04 | 3.02E-13 |
| 0.400 | 7.09E+00 | 6.87E+00 | 6.40E+00 | 5.16E+00 | 2.89E+00 | 4.14E-01 | 8.05E-04 | 4.10E-13 |
| 0.425 | 7.36E+00 | 7.13E+00 | 6.65E+00 | 5.37E+00 | 3.01E+00 | 4.31E-01 | 9.90E-04 | 5.63E-13 |
| 0.450 | 7.65E+00 | 7.40E+00 | 6.88E+00 | 5.56E+00 | 3.15E+00 | 4.47E-01 | 1.16E-03 | 8.06E-13 |
| 0.475 | 7.97E+00 | 7.68E+00 | 7.18E+00 | 5.77E+00 | 3.25E+00 | 4.67E-01 | 1.36E-03 | 1.04E-12 |
| 0.500 | 8.30E+00 | 7.98E+00 | 7.49E+00 | 6.08E+00 | 3.42E+00 | 4.87E-01 | 1.55E-03 | 1.35E-12 |
| 0.525 | 8.66E+00 | 8.36E+00 | 7.80E+00 | 6.33E+00 | 3.56E+00 | 5.01E-01 | 1.76E-03 | 1.55E-12 |
| 0.550 | 9.05E+00 | 8.73E+00 | 8.22E+00 | 6.63E+00 | 3.73E+00 | 5.20E-01 | 1.89E-03 | 2.01E-12 |
| 0.575 | 9.51E+00 | 9.20E+00 | 8.65E+00 | 7.01E+00 | 3.90E+00 | 5.42E-01 | 2.09E-03 | 2.52E-12 |
| 0.600 | 9.96E+00 | 9.64E+00 | 9.08E+00 | 7.30E+00 | 4.07E+00 | 5.66E-01 | 2.25E-03 | 3.18E-12 |
| 0.625 | 1.05E+01 | 1.02E+01 | 9.52E+00 | 7.72E+00 | 4.31E+00 | 5.97E-01 | 2.55E-03 | 4.08E-12 |
| 0.650 | 1.12E+01 | 1.09E+01 | 1.01E+01 | 8.24E+00 | 4.53E+00 | 6.26E-01 | 2.71E-03 | 5.04E-12 |
| 0.675 | 1.19E+01 | 1.14E+01 | 1.07E+01 | 8.76E+00 | 4.81E+00 | 6.80E-01 | 2.92E-03 | 6.08E-12 |
| 0.700 | 1.26E+01 | 1.22E+01 | 1.15E+01 | 9.22E+00 | 5.10E+00 | 7.17E-01 | 3.10E-03 | 7.42E-12 |
| 0.725 | 1.34E+01 | 1.30E+01 | 1.22E+01 | 9.80E+00 | 5.45E+00 | 7.60E-01 | 3.39E-03 | 9.84E-12 |
| 0.750 | 1.44E+01 | 1.40E+01 | 1.30E+01 | 1.05E+01 | 5.73E+00 | 8.18E-01 | 3.70E-03 | 1.28E-11 |
| 0.775 | 1.55E+01 | 1.50E+01 | 1.40E+01 | 1.11E+01 | 6.09E+00 | 8.94E-01 | 3.98E-03 | 1.69E-11 |
| 0.800 | 1.70E+01 | 1.63E+01 | 1.51E+01 | 1.19E+01 | 6.58E+00 | 9.49E-01 | 4.28E-03 | 2.48E-11 |
| 0.825 | 1.76E+01 | 1.70E+01 | 1.58E+01 | 1.28E+01 | 7.14E+00 | 1.02E+00 | 4.64E-03 | 3.68E-11 |
| 0.850 | 1.77E+01 | 1.72E+01 | 1.62E+01 | 1.32E+01 | 7.52E+00 | 1.07E+00 | 5.21E-03 | 6.37E-11 |
| 0.875 | 1.77E+01 | 1.72E+01 | 1.63E+01 | 1.35E+01 | 7.90E+00 | 1.17E+00 | 5.97E-03 | 9.12E-11 |
| 0.900 | 1.77E+01 | 1.73E+01 | 1.64E+01 | 1.37E+01 | 8.14E+00 | 1.29E+00 | 6.95E-03 | 1.37E-10 |
| 0.925 | 1.77E+01 | 1.73E+01 | 1.64E+01 | 1.38E+01 | 8.36E+00 | 1.42E+00 | 8.20E-03 | 1.82E-10 |
| 0.950 | 1.77E+01 | 1.73E+01 | 1.65E+01 | 1.39E+01 | 8.52E+00 | 1.52E+00 | 9.54E-03 | 2.56E-10 |
| 0.975 | 1.77E+01 | 1.73E+01 | 1.65E+01 | 1.40E+01 | 8.64E+00 | 1.60E+00 | 1.23E-02 | 3.93E-10 |
| 1.000 | 1.77E+01 | 1.73E+01 | 1.65E+01 | 1.40E+01 | 8.80E+00 | 1.64E+00 | 1.40E-02 | 7.98E-10 |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS SR-90.RAD

Summary of dose at graphical times, reptition 1

| Time Years | Dose statistics at graphical times, mrem/yr | | | | | | | |
|---------------|---|----------|----------|----------|----------|----------|----------|----------|
| | Minimum | Maximum | Mean | Median | 90% | 95% | 97.5% | 99% |
| 0.00E+00 | 4.54E+00 | 1.77E+01 | 1.00E+01 | 8.30E+00 | 1.77E+01 | 1.77E+01 | 1.77E+01 | 1.77E+01 |
| 1.00E+00 | 4.21E+00 | 1.73E+01 | 9.72E+00 | 7.96E+00 | 1.73E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.06E+00 | 4.18E+00 | 1.73E+01 | 9.70E+00 | 7.94E+00 | 1.73E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.12E+00 | 4.14E+00 | 1.73E+01 | 9.68E+00 | 7.93E+00 | 1.72E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.19E+00 | 4.10E+00 | 1.72E+01 | 9.66E+00 | 7.91E+00 | 1.72E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.25E+00 | 4.06E+00 | 1.72E+01 | 9.64E+00 | 7.89E+00 | 1.72E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.33E+00 | 4.02E+00 | 1.72E+01 | 9.62E+00 | 7.87E+00 | 1.71E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.40E+00 | 3.98E+00 | 1.72E+01 | 9.60E+00 | 7.85E+00 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.72E+01 |
| 1.49E+00 | 3.93E+00 | 1.71E+01 | 9.57E+00 | 7.82E+00 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.57E+00 | 3.88E+00 | 1.71E+01 | 9.55E+00 | 7.80E+00 | 1.70E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.66E+00 | 3.83E+00 | 1.70E+01 | 9.52E+00 | 7.78E+00 | 1.70E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.76E+00 | 3.78E+00 | 1.70E+01 | 9.49E+00 | 7.76E+00 | 1.69E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.86E+00 | 3.73E+00 | 1.70E+01 | 9.46E+00 | 7.74E+00 | 1.69E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.97E+00 | 3.67E+00 | 1.69E+01 | 9.42E+00 | 7.71E+00 | 1.69E+01 | 1.69E+01 | 1.69E+01 | 1.69E+01 |
| 2.09E+00 | 3.61E+00 | 1.69E+01 | 9.39E+00 | 7.69E+00 | 1.68E+01 | 1.69E+01 | 1.69E+01 | 1.69E+01 |
| 2.21E+00 | 3.55E+00 | 1.68E+01 | 9.35E+00 | 7.66E+00 | 1.68E+01 | 1.68E+01 | 1.68E+01 | 1.68E+01 |
| 2.34E+00 | 3.49E+00 | 1.68E+01 | 9.32E+00 | 7.63E+00 | 1.67E+01 | 1.68E+01 | 1.68E+01 | 1.68E+01 |
| 2.47E+00 | 3.42E+00 | 1.67E+01 | 9.28E+00 | 7.61E+00 | 1.66E+01 | 1.67E+01 | 1.67E+01 | 1.67E+01 |
| 2.62E+00 | 3.35E+00 | 1.67E+01 | 9.23E+00 | 7.58E+00 | 1.66E+01 | 1.66E+01 | 1.67E+01 | 1.67E+01 |
| 2.77E+00 | 3.28E+00 | 1.66E+01 | 9.19E+00 | 7.54E+00 | 1.65E+01 | 1.66E+01 | 1.66E+01 | 1.66E+01 |
| 2.93E+00 | 3.21E+00 | 1.65E+01 | 9.14E+00 | 7.51E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.00E+00 | 3.18E+00 | 1.65E+01 | 9.12E+00 | 7.50E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.310E+00 | 3.13E+00 | 1.65E+01 | 9.09E+00 | 7.47E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.328E+00 | 2.93E+00 | 1.64E+01 | 9.04E+00 | 7.44E+00 | 1.63E+01 | 1.64E+01 | 1.64E+01 | 1.64E+01 |
| 3.48E+00 | 2.65E+00 | 1.63E+01 | 8.99E+00 | 7.40E+00 | 1.62E+01 | 1.63E+01 | 1.63E+01 | 1.63E+01 |
| 3.68E+00 | 2.35E+00 | 1.62E+01 | 8.93E+00 | 7.36E+00 | 1.61E+01 | 1.62E+01 | 1.62E+01 | 1.62E+01 |
| 3.89E+00 | 2.04E+00 | 1.62E+01 | 8.87E+00 | 7.31E+00 | 1.60E+01 | 1.61E+01 | 1.62E+01 | 1.62E+01 |
| 4.12E+00 | 1.70E+00 | 1.61E+01 | 8.80E+00 | 7.27E+00 | 1.60E+01 | 1.61E+01 | 1.61E+01 | 1.61E+01 |
| 4.36E+00 | 1.34E+00 | 1.60E+01 | 8.74E+00 | 7.22E+00 | 1.59E+01 | 1.60E+01 | 1.60E+01 | 1.60E+01 |
| 4.61E+00 | 9.65E-01 | 1.59E+01 | 8.67E+00 | 7.17E+00 | 1.58E+01 | 1.59E+01 | 1.59E+01 | 1.59E+01 |
| 4.88E+00 | 5.86E-01 | 1.58E+01 | 8.60E+00 | 7.11E+00 | 1.56E+01 | 1.58E+01 | 1.58E+01 | 1.58E+01 |
| 5.17E+00 | 2.87E-01 | 1.57E+01 | 8.52E+00 | 7.05E+00 | 1.55E+01 | 1.57E+01 | 1.57E+01 | 1.57E+01 |
| 5.47E+00 | 1.00E-01 | 1.56E+01 | 8.44E+00 | 6.98E+00 | 1.54E+01 | 1.55E+01 | 1.56E+01 | 1.56E+01 |
| 5.78E+00 | 4.22E-02 | 1.54E+01 | 8.36E+00 | 6.92E+00 | 1.53E+01 | 1.54E+01 | 1.54E+01 | 1.54E+01 |
| 6.12E+00 | 4.13E-02 | 1.53E+01 | 8.27E+00 | 6.86E+00 | 1.52E+01 | 1.53E+01 | 1.53E+01 | 1.53E+01 |
| 6.48E+00 | 0.00E+00 | 1.52E+01 | 8.18E+00 | 6.79E+00 | 1.50E+01 | 1.52E+01 | 1.52E+01 | 1.52E+01 |
| 6.86E+00 | 0.00E+00 | 1.51E+01 | 8.09E+00 | 6.72E+00 | 1.49E+01 | 1.50E+01 | 1.50E+01 | 1.51E+01 |
| 7.26E+00 | 0.00E+00 | 1.49E+01 | 7.99E+00 | 6.64E+00 | 1.47E+01 | 1.49E+01 | 1.49E+01 | 1.49E+01 |
| 7.68E+00 | 0.00E+00 | 1.48E+01 | 7.88E+00 | 6.56E+00 | 1.46E+01 | 1.47E+01 | 1.48E+01 | 1.48E+01 |
| 8.13E+00 | 0.00E+00 | 1.46E+01 | 7.78E+00 | 6.47E+00 | 1.44E+01 | 1.46E+01 | 1.46E+01 | 1.46E+01 |
| 8.60E+00 | 0.00E+00 | 1.44E+01 | 7.67E+00 | 6.38E+00 | 1.42E+01 | 1.44E+01 | 1.44E+01 | 1.44E+01 |
| 9.10E+00 | 0.00E+00 | 1.43E+01 | 7.55E+00 | 6.30E+00 | 1.40E+01 | 1.42E+01 | 1.43E+01 | 1.43E+01 |
| 9.63E+00 | 0.00E+00 | 1.41E+01 | 7.43E+00 | 6.19E+00 | 1.38E+01 | 1.40E+01 | 1.41E+01 | 1.41E+01 |
| 1.00E+01 | 0.00E+00 | 1.40E+01 | 7.35E+00 | 6.12E+00 | 1.37E+01 | 1.39E+01 | 1.40E+01 | 1.40E+01 |
| 1.10E+01 | 0.00E+00 | 1.39E+01 | 7.31E+00 | 6.09E+00 | 1.36E+01 | 1.39E+01 | 1.39E+01 | 1.39E+01 |
| 1.08E+01 | 0.00E+00 | 1.37E+01 | 7.18E+00 | 5.98E+00 | 1.34E+01 | 1.37E+01 | 1.37E+01 | 1.37E+01 |
| 1.14E+01 | 0.00E+00 | 1.35E+01 | 7.05E+00 | 5.86E+00 | 1.32E+01 | 1.35E+01 | 1.35E+01 | 1.35E+01 |
| 1.21E+01 | 0.00E+00 | 1.33E+01 | 6.91E+00 | 5.76E+00 | 1.30E+01 | 1.32E+01 | 1.33E+01 | 1.33E+01 |
| 1.28E+01 | 0.00E+00 | 1.31E+01 | 6.77E+00 | 5.64E+00 | 1.28E+01 | 1.30E+01 | 1.31E+01 | 1.31E+01 |
| 1.35E+01 | 0.00E+00 | 1.28E+01 | 6.62E+00 | 5.53E+00 | 1.25E+01 | 1.28E+01 | 1.28E+01 | 1.28E+01 |
| 1.43E+01 | 0.00E+00 | 1.26E+01 | 6.47E+00 | 5.39E+00 | 1.23E+01 | 1.25E+01 | 1.26E+01 | 1.26E+01 |
| 1.51E+01 | 0.00E+00 | 1.24E+01 | 6.31E+00 | 5.26E+00 | 1.20E+01 | 1.23E+01 | 1.23E+01 | 1.24E+01 |
| 1.60E+01 | 0.00E+00 | 1.21E+01 | 6.15E+00 | 5.13E+00 | 1.17E+01 | 1.20E+01 | 1.21E+01 | 1.21E+01 |
| 1.70E+01 | 0.00E+00 | 1.18E+01 | 5.98E+00 | 4.98E+00 | 1.15E+01 | 1.18E+01 | 1.18E+01 | 1.18E+01 |
| 1.80E+01 | 0.00E+00 | 1.16E+01 | 5.82E+00 | 4.84E+00 | 1.12E+01 | 1.15E+01 | 1.15E+01 | 1.16E+01 |
| 1.90E+01 | 0.00E+00 | 1.13E+01 | 5.64E+00 | 4.71E+00 | 1.09E+01 | 1.12E+01 | 1.13E+01 | 1.13E+01 |

2.01E+01 0.00E+00 1.10E+01 5.47E+00 4.56E+00 1.06E+01 1.09E+01 1.10E+01 1.10E+01

2.13E+01 0.00E+00 1.07E+01 5.29E+00 4.39E+00 1.03E+01 1.06E+01 1.07E+01 1.07E+01

2.25E+01 0.00E+00 1.04E+01 5.10E+00 4.24E+00 9.97E+00 1.03E+01 1.03E+01 1.04E+01

2.38E+01 0.00E+00 1.00E+01 4.92E+00 4.09E+00 9.64E+00 9.97E+00 1.00E+01 1.00E+01

2.52E+01 0.00E+00 9.72E+00 4.73E+00 3.94E+00 9.31E+00 9.64E+00 9.69E+00 9.71E+00

2.67E+01 0.00E+00 9.43E+00 4.53E+00 3.78E+00 8.96E+00 9.30E+00 9.36E+00 9.38E+00

2.82E+01 0.00E+00 9.13E+00 4.34E+00 3.59E+00 8.62E+00 8.96E+00 9.02E+00 9.04E+00

2.99E+01 0.00E+00 8.82E+00 4.14E+00 3.39E+00 8.23E+00 8.61E+00 8.67E+00 8.69E+00

3.00E+01 0.00E+00 8.80E+00 4.13E+00 3.38E+00 8.21E+00 8.58E+00 8.64E+00 8.67E+00

3.16E+01 0.00E+00 8.45E+00 3.94E+00 3.23E+00 7.85E+00 8.25E+00 8.32E+00 8.34E+00

3.35E+01 0.00E+00 7.99E+00 3.74E+00 3.07E+00 7.49E+00 7.89E+00 7.96E+00 7.98E+00

3.54E+01 0.00E+00 7.62E+00 3.54E+00 2.93E+00 7.12E+00 7.52E+00 7.59E+00 7.61E+00

3.75E+01 0.00E+00 7.25E+00 3.34E+00 2.76E+00 6.75E+00 7.16E+00 7.23E+00 7.24E+00

3.97E+01 0.00E+00 6.89E+00 3.14E+00 2.59E+00 6.38E+00 6.79E+00 6.86E+00 6.88E+00

4.20E+01 0.00E+00 6.52E+00 2.95E+00 2.42E+00 6.02E+00 6.42E+00 6.49E+00 6.51E+00

4.44E+01 0.00E+00 6.15E+00 2.75E+00 2.26E+00 5.66E+00 6.05E+00 6.12E+00 6.14E+00

4.70E+01 0.00E+00 5.78E+00 2.56E+00 2.09E+00 5.29E+00 5.67E+00 5.75E+00 5.77E+00

4.97E+01 0.00E+00 5.41E+00 2.37E+00 1.94E+00 4.93E+00 5.31E+00 5.39E+00 5.41E+00

5.26E+01 0.00E+00 5.05E+00 2.19E+00 1.80E+00 4.55E+00 4.95E+00 5.02E+00 5.04E+00

5.57E+01 0.00E+00 4.70E+00 2.01E+00 1.65E+00 4.15E+00 4.59E+00 4.66E+00 4.69E+00

5.90E+01 0.00E+00 4.35E+00 1.84E+00 1.51E+00 3.81E+00 4.24E+00 4.32E+00 4.34E+00

6.24E+01 0.00E+00 4.00E+00 1.67E+00 1.38E+00 3.49E+00 3.90E+00 3.97E+00 4.00E+00

6.0E+01 0.00E+00 3.67E+00 1.51E+00 1.24E+00 3.17E+00 3.56E+00 3.64E+00 3.66E+00

99E+01 0.00E+00 3.35E+00 1.36E+00 1.12E+00 2.87E+00 3.23E+00 3.32E+00 3.34E+00

7.39E+01 0.00E+00 3.04E+00 1.21E+00 9.92E-01 2.59E+00 2.93E+00 3.01E+00 3.03E+00

7.82E+01 0.00E+00 2.74E+00 1.08E+00 8.84E-01 2.32E+00 2.64E+00 2.72E+00 2.74E+00

8.28E+01 0.00E+00 2.46E+00 9.51E-01 7.78E-01 2.06E+00 2.36E+00 2.44E+00 2.45E+00

8.76E+01 0.00E+00 2.19E+00 8.33E-01 6.83E-01 1.81E+00 2.09E+00 2.17E+00 2.19E+00

9.27E+01 0.00E+00 1.94E+00 7.24E-01 5.96E-01 1.58E+00 1.84E+00 1.92E+00 1.94E+00

9.81E+01 0.00E+00 1.71E+00 6.24E-01 5.15E-01 1.37E+00 1.61E+00 1.68E+00 1.70E+00

1.00E+02 0.00E+00 1.63E+00 5.93E-01 4.89E-01 1.30E+00 1.54E+00 1.61E+00 1.63E+00

1.04E+02 0.00E+00 1.49E+00 5.34E-01 4.40E-01 1.18E+00 1.39E+00 1.47E+00 1.48E+00

1.10E+02 0.00E+00 1.29E+00 4.52E-01 3.67E-01 1.01E+00 1.19E+00 1.27E+00 1.28E+00

1.16E+02 0.00E+00 1.11E+00 3.80E-01 3.11E-01 8.56E-01 1.02E+00 1.09E+00 1.10E+00

1.23E+02 0.00E+00 9.42E-01 3.16E-01 2.58E-01 7.15E-01 8.60E-01 9.23E-01 9.37E-01

1.30E+02 0.00E+00 7.94E-01 2.59E-01 2.09E-01 5.87E-01 7.19E-01 7.75E-01 7.89E-01

1.38E+02 0.00E+00 6.62E-01 2.11E-01 1.70E-01 4.86E-01 5.94E-01 6.45E-01 6.59E-01

1.46E+02 0.00E+00 5.47E-01 1.69E-01 1.37E-01 3.95E-01 4.86E-01 5.32E-01 5.44E-01

1.54E+02 0.00E+00 4.46E-01 1.34E-01 1.08E-01 3.17E-01 3.93E-01 4.34E-01 4.44E-01

1.63E+02 0.00E+00 3.60E-01 1.05E-01 8.42E-02 2.48E-01 3.15E-01 3.49E-01 3.58E-01

1.73E+02 0.00E+00 2.87E-01 8.06E-02 6.46E-02 1.94E-01 2.47E-01 2.78E-01 2.85E-01

1.83E+02 0.00E+00 2.26E-01 6.11E-02 4.82E-02 1.46E-01 1.88E-01 2.18E-01 2.24E-01

1.94E+02 0.00E+00 1.75E-01 4.56E-02 3.53E-02 1.13E-01 1.45E-01 1.69E-01 1.74E-01

2.05E+02 0.00E+00 1.34E-01 3.34E-02 2.53E-02 8.49E-02 1.11E-01 1.28E-01 1.33E-01

2.17E+02 0.00E+00 1.01E-01 2.40E-02 1.77E-02 6.24E-02 8.25E-02 9.45E-02 9.98E-02

2.29E+02 0.00E+00 7.45E-02 1.70E-02 1.20E-02 4.56E-02 5.97E-02 6.91E-02 7.38E-02

2.43E+02 0.00E+00 5.41E-02 1.19E-02 8.19E-03 3.23E-02 4.14E-02 5.00E-02 5.36E-02

2.57E+02 0.00E+00 3.86E-02 8.10E-03 5.46E-03 2.26E-02 2.93E-02 3.55E-02 3.82E-02

2.72E+02 0.00E+00 2.70E-02 5.41E-03 3.41E-03 1.54E-02 1.99E-02 2.47E-02 2.67E-02

2.88E+02 0.00E+00 1.85E-02 3.54E-03 2.07E-03 1.00E-02 1.33E-02 1.69E-02 1.83E-02

3.00E+02 0.00E+00 1.38E-02 2.56E-03 1.38E-03 7.43E-03 9.87E-03 1.25E-02 1.37E-02

3.05E+02 0.00E+00 1.24E-02 2.27E-03 1.24E-03 6.64E-03 8.85E-03 1.12E-02 1.23E-02

3.22E+02 0.00E+00 8.11E-03 1.42E-03 7.20E-04 4.20E-03 5.72E-03 7.27E-03 7.89E-03

3.41E+02 0.00E+00 5.18E-03 8.63E-04 4.02E-04 2.58E-03 3.53E-03 4.45E-03 4.97E-03

3.61E+02 0.00E+00 3.23E-03 5.11E-04 2.06E-04 1.53E-03 2.18E-03 2.63E-03 3.08E-03

3.82E+02 0.00E+00 1.95E-03 2.94E-04 1.01E-04 8.91E-04 1.25E-03 1.54E-03 1.86E-03

4.04E+02 0.00E+00 1.15E-03 1.65E-04 5.20E-05 5.19E-04 7.14E-04 8.88E-04 1.09E-03

4.28E+02 0.00E+00 6.55E-04 8.91E-05 2.34E-05 2.83E-04 3.97E-04 5.04E-04 6.21E-04

4.53E+02 0.00E+00 3.62E-04 4.67E-05 1.03E-05 1.49E-04 2.15E-04 2.77E-04 3.41E-04

4.79E+02 0.00E+00 1.93E-04 2.36E-05 4.62E-06 7.70E-05 1.10E-04 1.46E-04 1.81E-04

5.07E+02 0.00E+00 9.91E-05 1.15E-05 1.85E-06 3.76E-05 5.53E-05 7.35E-05 9.29E-05

5.36E+02 0.00E+00 4.90E-05 5.39E-06 7.27E-07 1.77E-05 2.70E-05 3.63E-05 4.57E-05

5.68E+02 0.00E+00 2.32E-05 2.43E-06 2.71E-07 7.97E-06 1.27E-05 1.68E-05 2.16E-05

0.01E+02 0.00E+00 1.05E-05 1.05E-06 1.15E-07 3.41E-06 5.64E-06 7.40E-06 9.77E-06

6.36E+02 0.00E+00 4.57E-06 4.29E-07 3.69E-08 1.39E-06 2.42E-06 3.18E-06 4.22E-06

6.73E+02 0.00E+00 1.89E-06 1.68E-07 1.26E-08 5.70E-07 9.98E-07 1.30E-06 1.74E-06

7.12E+02 0.00E+00 7.41E-07 6.23E-08 4.12E-09 2.13E-07 3.77E-07 5.03E-07 6.78E-07

7.53E+02 0.00E+00 2.75E-07 2.19E-08 1.33E-09 7.36E-08 1.37E-07 1.84E-07 2.51E-07

7.97E+02 0.00E+00 9.66E-08 7.28E-09 3.54E-10 2.46E-08 4.71E-08 6.40E-08 8.75E-08

8.44E+02 0.00E+00 3.19E-08 2.27E-09 1.01E-10 7.67E-09 1.52E-08 2.09E-08 2.76E-08

8.93E+02 0.00E+00 9.86E-09 6.64E-10 2.64E-11 2.25E-09 4.61E-09 6.37E-09 8.48E-09

9.45E+02 0.00E+00 2.85E-09 1.81E-10 7.02E-12 6.06E-10 1.30E-09 1.80E-09 2.43E-09

1.00E+03 0.00E+00 7.65E-10 4.58E-11 1.43E-12 1.57E-10 3.38E-10 4.74E-10 6.47E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS SR-90.RAD

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 | 4.42E+00 | 1.77E+01 | 1.00E+01 | 8.32E+00 | 1.77E+01 | 1.77E+01 | 1.77E+01 | 1.77E+01 |
| 1.00E+00 | 3.94E+00 | 1.73E+01 | 9.69E+00 | 7.97E+00 | 1.73E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.06E+00 | 3.92E+00 | 1.73E+01 | 9.68E+00 | 7.95E+00 | 1.72E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.12E+00 | 3.89E+00 | 1.73E+01 | 9.66E+00 | 7.94E+00 | 1.72E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.19E+00 | 3.86E+00 | 1.72E+01 | 9.63E+00 | 7.92E+00 | 1.72E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.25E+00 | 3.83E+00 | 1.72E+01 | 9.61E+00 | 7.89E+00 | 1.71E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.33E+00 | 3.80E+00 | 1.72E+01 | 9.59E+00 | 7.87E+00 | 1.71E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.40E+00 | 3.76E+00 | 1.72E+01 | 9.56E+00 | 7.85E+00 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.72E+01 |
| 1.49E+00 | 3.73E+00 | 1.71E+01 | 9.54E+00 | 7.84E+00 | 1.70E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.57E+00 | 3.69E+00 | 1.71E+01 | 9.51E+00 | 7.82E+00 | 1.70E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.66E+00 | 3.65E+00 | 1.70E+01 | 9.48E+00 | 7.80E+00 | 1.70E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.76E+00 | 3.61E+00 | 1.70E+01 | 9.45E+00 | 7.78E+00 | 1.69E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.86E+00 | 3.57E+00 | 1.70E+01 | 9.42E+00 | 7.76E+00 | 1.69E+01 | 1.69E+01 | 1.70E+01 | 1.70E+01 |
| 1.97E+00 | 3.53E+00 | 1.69E+01 | 9.38E+00 | 7.74E+00 | 1.68E+01 | 1.69E+01 | 1.69E+01 | 1.69E+01 |
| 2.09E+00 | 3.39E+00 | 1.69E+01 | 9.35E+00 | 7.71E+00 | 1.68E+01 | 1.68E+01 | 1.69E+01 | 1.69E+01 |
| 2.21E+00 | 3.13E+00 | 1.68E+01 | 9.31E+00 | 7.69E+00 | 1.67E+01 | 1.68E+01 | 1.68E+01 | 1.68E+01 |
| 2.24E+00 | 2.87E+00 | 1.68E+01 | 9.27E+00 | 7.65E+00 | 1.67E+01 | 1.67E+01 | 1.68E+01 | 1.68E+01 |
| 2.27E+00 | 2.63E+00 | 1.67E+01 | 9.23E+00 | 7.61E+00 | 1.66E+01 | 1.67E+01 | 1.67E+01 | 1.67E+01 |
| 2.26E+00 | 2.39E+00 | 1.67E+01 | 9.19E+00 | 7.57E+00 | 1.65E+01 | 1.66E+01 | 1.67E+01 | 1.67E+01 |
| 2.27E+00 | 2.16E+00 | 1.66E+01 | 9.14E+00 | 7.53E+00 | 1.65E+01 | 1.66E+01 | 1.66E+01 | 1.66E+01 |
| 2.29E+00 | 1.94E+00 | 1.65E+01 | 9.09E+00 | 7.50E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.00E+00 | 1.86E+00 | 1.65E+01 | 9.07E+00 | 7.48E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.10E+00 | 1.74E+00 | 1.65E+01 | 9.04E+00 | 7.46E+00 | 1.63E+01 | 1.64E+01 | 1.65E+01 | 1.65E+01 |
| 3.28E+00 | 1.55E+00 | 1.64E+01 | 8.99E+00 | 7.40E+00 | 1.63E+01 | 1.64E+01 | 1.64E+01 | 1.64E+01 |
| 3.48E+00 | 1.37E+00 | 1.63E+01 | 8.93E+00 | 7.36E+00 | 1.62E+01 | 1.63E+01 | 1.63E+01 | 1.63E+01 |
| 3.68E+00 | 1.20E+00 | 1.62E+01 | 8.88E+00 | 7.32E+00 | 1.61E+01 | 1.62E+01 | 1.62E+01 | 1.62E+01 |
| 3.89E+00 | 1.04E+00 | 1.62E+01 | 8.81E+00 | 7.28E+00 | 1.60E+01 | 1.61E+01 | 1.62E+01 | 1.62E+01 |
| 4.12E+00 | 9.04E-01 | 1.61E+01 | 8.75E+00 | 7.21E+00 | 1.59E+01 | 1.60E+01 | 1.61E+01 | 1.61E+01 |
| 4.36E+00 | 6.44E-01 | 1.60E+01 | 8.68E+00 | 7.13E+00 | 1.58E+01 | 1.59E+01 | 1.60E+01 | 1.60E+01 |
| 4.61E+00 | 3.60E-01 | 1.59E+01 | 8.61E+00 | 7.08E+00 | 1.57E+01 | 1.58E+01 | 1.59E+01 | 1.59E+01 |
| 4.88E+00 | 1.50E-01 | 1.58E+01 | 8.54E+00 | 7.02E+00 | 1.56E+01 | 1.57E+01 | 1.58E+01 | 1.58E+01 |
| 5.17E+00 | 2.69E-02 | 1.57E+01 | 8.46E+00 | 6.95E+00 | 1.55E+01 | 1.56E+01 | 1.57E+01 | 1.57E+01 |
| 5.47E+00 | 4.36E-05 | 1.56E+01 | 8.39E+00 | 6.87E+00 | 1.54E+01 | 1.55E+01 | 1.56E+01 | 1.56E+01 |
| 5.78E+00 | 0.00E+00 | 1.55E+01 | 8.30E+00 | 6.79E+00 | 1.52E+01 | 1.54E+01 | 1.54E+01 | 1.54E+01 |
| 6.12E+00 | 0.00E+00 | 1.53E+01 | 8.21E+00 | 6.73E+00 | 1.51E+01 | 1.53E+01 | 1.53E+01 | 1.53E+01 |
| 6.48E+00 | 0.00E+00 | 1.52E+01 | 8.12E+00 | 6.65E+00 | 1.50E+01 | 1.51E+01 | 1.52E+01 | 1.52E+01 |
| 6.86E+00 | 0.00E+00 | 1.51E+01 | 8.02E+00 | 6.58E+00 | 1.48E+01 | 1.50E+01 | 1.50E+01 | 1.51E+01 |
| 7.26E+00 | 0.00E+00 | 1.49E+01 | 7.92E+00 | 6.51E+00 | 1.47E+01 | 1.48E+01 | 1.49E+01 | 1.49E+01 |
| 7.68E+00 | 0.00E+00 | 1.48E+01 | 7.82E+00 | 6.44E+00 | 1.45E+01 | 1.47E+01 | 1.47E+01 | 1.48E+01 |
| 8.13E+00 | 0.00E+00 | 1.46E+01 | 7.72E+00 | 6.36E+00 | 1.43E+01 | 1.45E+01 | 1.46E+01 | 1.46E+01 |
| 8.60E+00 | 0.00E+00 | 1.45E+01 | 7.61E+00 | 6.27E+00 | 1.41E+01 | 1.44E+01 | 1.44E+01 | 1.44E+01 |
| 9.10E+00 | 0.00E+00 | 1.43E+01 | 7.49E+00 | 6.19E+00 | 1.40E+01 | 1.42E+01 | 1.42E+01 | 1.43E+01 |
| 9.63E+00 | 0.00E+00 | 1.41E+01 | 7.37E+00 | 6.09E+00 | 1.38E+01 | 1.40E+01 | 1.41E+01 | 1.41E+01 |
| 1.00E+01 | 0.00E+00 | 1.40E+01 | 7.29E+00 | 6.03E+00 | 1.36E+01 | 1.39E+01 | 1.39E+01 | 1.40E+01 |
| 1.02E+01 | 0.00E+00 | 1.39E+01 | 7.25E+00 | 6.00E+00 | 1.36E+01 | 1.38E+01 | 1.39E+01 | 1.39E+01 |
| 1.08E+01 | 0.00E+00 | 1.37E+01 | 7.13E+00 | 5.89E+00 | 1.34E+01 | 1.36E+01 | 1.37E+01 | 1.37E+01 |
| 1.14E+01 | 0.00E+00 | 1.35E+01 | 6.99E+00 | 5.77E+00 | 1.31E+01 | 1.34E+01 | 1.35E+01 | 1.35E+01 |
| 1.21E+01 | 0.00E+00 | 1.33E+01 | 6.86E+00 | 5.67E+00 | 1.29E+01 | 1.32E+01 | 1.33E+01 | 1.33E+01 |
| 1.28E+01 | 0.00E+00 | 1.31E+01 | 6.72E+00 | 5.57E+00 | 1.27E+01 | 1.30E+01 | 1.30E+01 | 1.31E+01 |
| 1.35E+01 | 0.00E+00 | 1.29E+01 | 6.57E+00 | 5.43E+00 | 1.24E+01 | 1.27E+01 | 1.28E+01 | 1.28E+01 |
| 1.43E+01 | 0.00E+00 | 1.26E+01 | 6.42E+00 | 5.30E+00 | 1.22E+01 | 1.25E+01 | 1.26E+01 | 1.26E+01 |
| 1.51E+01 | 0.00E+00 | 1.24E+01 | 6.27E+00 | 5.18E+00 | 1.19E+01 | 1.22E+01 | 1.23E+01 | 1.24E+01 |
| 1.60E+01 | 0.00E+00 | 1.21E+01 | 6.11E+00 | 5.05E+00 | 1.17E+01 | 1.20E+01 | 1.21E+01 | 1.21E+01 |
| 1.70E+01 | 0.00E+00 | 1.18E+01 | 5.94E+00 | 4.86E+00 | 1.14E+01 | 1.17E+01 | 1.18E+01 | 1.18E+01 |
| 1.80E+01 | 0.00E+00 | 1.16E+01 | 5.78E+00 | 4.69E+00 | 1.11E+01 | 1.14E+01 | 1.15E+01 | 1.16E+01 |
| 1.90E+01 | 0.00E+00 | 1.13E+01 | 5.60E+00 | 4.54E+00 | 1.08E+01 | 1.11E+01 | 1.12E+01 | 1.13E+01 |

2.01E+01 0.00E+00 1.10E+01 5.43E+00 4.41E+00 1.05E+01 1.08E+01 1.09E+01 1.10E+01

2.13E+01 0.00E+00 1.07E+01 5.25E+00 4.29E+00 1.02E+01 1.05E+01 1.06E+01 1.07E+01

2.25E+01 0.00E+00 1.04E+01 5.07E+00 4.18E+00 9.86E+00 1.02E+01 1.03E+01 1.04E+01

2.38E+01 0.00E+00 1.01E+01 4.88E+00 4.02E+00 9.53E+00 9.85E+00 1.00E+01 1.00E+01

2.52E+01 0.00E+00 9.73E+00 4.69E+00 3.87E+00 9.16E+00 9.52E+00 9.67E+00 9.71E+00

2.67E+01 0.00E+00 9.40E+00 4.50E+00 3.73E+00 8.82E+00 9.18E+00 9.34E+00 9.38E+00

2.82E+01 0.00E+00 9.06E+00 4.31E+00 3.59E+00 8.46E+00 8.84E+00 8.99E+00 9.04E+00

2.99E+01 0.00E+00 8.71E+00 4.11E+00 3.44E+00 8.11E+00 8.49E+00 8.64E+00 8.69E+00

3.00E+01 0.00E+00 8.68E+00 4.10E+00 3.43E+00 8.08E+00 8.46E+00 8.62E+00 8.66E+00

3.16E+01 0.00E+00 8.35E+00 3.92E+00 3.28E+00 7.75E+00 8.13E+00 8.28E+00 8.33E+00

3.35E+01 0.00E+00 8.00E+00 3.72E+00 3.10E+00 7.38E+00 7.77E+00 7.92E+00 7.97E+00

3.54E+01 0.00E+00 7.63E+00 3.52E+00 2.94E+00 7.01E+00 7.40E+00 7.56E+00 7.61E+00

3.75E+01 0.00E+00 7.27E+00 3.32E+00 2.76E+00 6.64E+00 7.04E+00 7.19E+00 7.25E+00

3.97E+01 0.00E+00 6.90E+00 3.13E+00 2.60E+00 6.27E+00 6.67E+00 6.83E+00 6.88E+00

4.20E+01 0.00E+00 6.53E+00 2.93E+00 2.43E+00 5.90E+00 6.30E+00 6.46E+00 6.51E+00

4.44E+01 0.00E+00 6.16E+00 2.74E+00 2.26E+00 5.51E+00 5.91E+00 6.09E+00 6.14E+00

4.70E+01 0.00E+00 5.79E+00 2.55E+00 2.09E+00 5.13E+00 5.56E+00 5.72E+00 5.77E+00

4.97E+01 0.00E+00 5.43E+00 2.36E+00 1.94E+00 4.77E+00 5.20E+00 5.36E+00 5.41E+00

5.26E+01 0.00E+00 5.06E+00 2.18E+00 1.78E+00 4.42E+00 4.85E+00 4.99E+00 5.04E+00

5.57E+01 0.00E+00 4.71E+00 2.00E+00 1.63E+00 4.07E+00 4.49E+00 4.64E+00 4.69E+00

5.90E+01 0.00E+00 4.36E+00 1.83E+00 1.48E+00 3.75E+00 4.15E+00 4.29E+00 4.34E+00

6.24E+01 0.00E+00 4.02E+00 1.66E+00 1.36E+00 3.44E+00 3.81E+00 3.95E+00 4.00E+00

60E+01 0.00E+00 3.68E+00 1.50E+00 1.22E+00 3.14E+00 3.49E+00 3.62E+00 3.66E+00

99E+01 0.00E+00 3.36E+00 1.35E+00 1.09E+00 2.84E+00 3.17E+00 3.30E+00 3.34E+00

7.39E+01 0.00E+00 3.05E+00 1.21E+00 9.82E-01 2.55E+00 2.87E+00 2.99E+00 3.03E+00

7.82E+01 0.00E+00 2.75E+00 1.08E+00 8.58E-01 2.28E+00 2.58E+00 2.69E+00 2.74E+00

8.28E+01 0.00E+00 2.47E+00 9.49E-01 7.50E-01 2.03E+00 2.31E+00 2.41E+00 2.45E+00

8.76E+01 0.00E+00 2.20E+00 8.31E-01 6.58E-01 1.77E+00 2.05E+00 2.15E+00 2.19E+00

9.27E+01 0.00E+00 1.95E+00 7.23E-01 5.76E-01 1.53E+00 1.81E+00 1.90E+00 1.94E+00

9.81E+01 0.00E+00 1.71E+00 6.24E-01 5.01E-01 1.33E+00 1.58E+00 1.67E+00 1.70E+00

1.00E+02 0.00E+00 1.64E+00 5.93E-01 4.76E-01 1.27E+00 1.51E+00 1.59E+00 1.63E+00

1.04E+02 0.00E+00 1.50E+00 5.34E-01 4.28E-01 1.15E+00 1.37E+00 1.45E+00 1.48E+00

1.10E+02 0.00E+00 1.30E+00 4.54E-01 3.62E-01 9.90E-01 1.17E+00 1.25E+00 1.28E+00

1.16E+02 0.00E+00 1.11E+00 3.81E-01 3.03E-01 8.33E-01 9.99E-01 1.08E+00 1.10E+00

1.23E+02 0.00E+00 9.47E-01 3.17E-01 2.54E-01 6.95E-01 8.45E-01 9.08E-01 9.36E-01

1.30E+02 1.93E-06 7.98E-01 2.61E-01 2.12E-01 5.77E-01 7.07E-01 7.65E-01 7.89E-01

1.38E+02 1.02E-05 6.66E-01 2.12E-01 1.73E-01 4.63E-01 5.86E-01 6.37E-01 6.58E-01

1.46E+02 5.17E-06 5.50E-01 1.70E-01 1.39E-01 3.73E-01 4.80E-01 5.25E-01 5.43E-01

1.54E+02 1.03E-06 4.50E-01 1.35E-01 1.10E-01 2.98E-01 3.88E-01 4.28E-01 4.43E-01

1.63E+02 0.00E+00 3.63E-01 1.06E-01 8.59E-02 2.36E-01 3.10E-01 3.45E-01 3.58E-01

1.73E+02 0.00E+00 2.89E-01 8.16E-02 6.64E-02 1.85E-01 2.43E-01 2.73E-01 2.85E-01

1.83E+02 0.00E+00 2.28E-01 6.19E-02 5.03E-02 1.40E-01 1.87E-01 2.14E-01 2.24E-01

1.94E+02 0.00E+00 1.77E-01 4.63E-02 3.72E-02 1.07E-01 1.41E-01 1.66E-01 1.74E-01

2.05E+02 0.00E+00 1.34E-01 3.40E-02 2.74E-02 8.03E-02 1.06E-01 1.26E-01 1.33E-01

2.17E+02 0.00E+00 1.01E-01 2.45E-02 1.94E-02 5.80E-02 7.79E-02 9.41E-02 9.93E-02

2.29E+02 0.00E+00 7.47E-02 1.73E-02 1.33E-02 4.10E-02 5.68E-02 6.94E-02 7.34E-02

2.43E+02 0.00E+00 5.44E-02 1.20E-02 8.77E-03 2.91E-02 4.00E-02 4.99E-02 5.33E-02

2.57E+02 0.00E+00 3.88E-02 8.20E-03 5.71E-03 1.99E-02 2.79E-02 3.52E-02 3.80E-02

2.72E+02 0.00E+00 2.72E-02 5.46E-03 3.73E-03 1.37E-02 1.92E-02 2.45E-02 2.66E-02

2.88E+02 0.00E+00 1.86E-02 3.55E-03 2.33E-03 9.15E-03 1.28E-02 1.59E-02 1.82E-02

3.00E+02 0.00E+00 1.39E-02 2.55E-03 1.61E-03 6.81E-03 9.43E-03 1.18E-02 1.36E-02

3.05E+02 0.00E+00 1.24E-02 2.26E-03 1.40E-03 6.07E-03 8.35E-03 1.06E-02 1.22E-02

3.22E+02 0.00E+00 8.13E-03 1.40E-03 7.91E-04 3.88E-03 5.31E-03 6.86E-03 7.97E-03

3.41E+02 0.00E+00 5.20E-03 8.50E-04 4.45E-04 2.28E-03 3.29E-03 4.34E-03 5.04E-03

3.61E+02 0.00E+00 3.24E-03 5.01E-04 2.37E-04 1.38E-03 1.98E-03 2.67E-03 3.13E-03

3.82E+02 0.00E+00 1.96E-03 2.87E-04 1.29E-04 7.75E-04 1.16E-03 1.60E-03 1.89E-03

4.04E+02 0.00E+00 1.15E-03 1.60E-04 6.50E-05 4.35E-04 6.59E-04 9.31E-04 1.11E-03

4.28E+02 0.00E+00 6.57E-04 8.62E-05 2.98E-05 2.38E-04 3.65E-04 5.24E-04 6.31E-04

4.53E+02 0.00E+00 3.63E-04 4.49E-05 1.26E-05 1.25E-04 1.98E-04 2.83E-04 3.47E-04

4.79E+02 0.00E+00 1.93E-04 2.26E-05 5.70E-06 6.23E-05 1.03E-04 1.47E-04 1.85E-04

5.07E+02 0.00E+00 9.94E-05 1.09E-05 2.20E-06 3.10E-05 5.22E-05 7.30E-05 9.45E-05

5.36E+02 0.00E+00 4.91E-05 5.07E-06 8.11E-07 1.50E-05 2.49E-05 3.49E-05 4.66E-05

5.68E+02 0.00E+00 2.33E-05 2.26E-06 3.28E-07 6.71E-06 1.14E-05 1.59E-05 2.18E-05

0.01E+02 0.00E+00 1.06E-05 9.66E-07 1.21E-07 2.84E-06 5.06E-06 6.93E-06 9.55E-06

6.36E+02 0.00E+00 4.60E-06 3.93E-07 4.36E-08 1.18E-06 2.15E-06 2.90E-06 4.11E-06

6.73E+02 0.00E+00 1.90E-06 1.52E-07 1.43E-08 4.64E-07 8.61E-07 1.17E-06 1.69E-06

7.12E+02 0.00E+00 7.46E-07 5.61E-08 4.66E-09 1.77E-07 3.33E-07 4.42E-07 6.60E-07

7.53E+02 0.00E+00 2.77E-07 1.95E-08 1.39E-09 6.43E-08 1.18E-07 1.64E-07 2.44E-07

7.97E+02 0.00E+00 9.74E-08 6.38E-09 3.55E-10 2.17E-08 3.95E-08 5.72E-08 8.46E-08

8.44E+02 0.00E+00 3.22E-08 1.97E-09 9.26E-11 6.76E-09 1.19E-08 1.85E-08 2.77E-08

8.93E+02 0.00E+00 9.95E-09 5.70E-10 2.23E-11 1.92E-09 3.48E-09 5.56E-09 8.50E-09

9.45E+02 0.00E+00 2.88E-09 1.55E-10 4.95E-12 5.40E-10 9.70E-10 1.54E-09 2.44E-09

1.00E+03 0.00E+00 7.74E-10 3.91E-11 1.20E-12 1.36E-10 2.61E-10 4.04E-10 6.49E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS SR-90.RAD

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 | 4.49E+00 | 1.77E+01 | 1.00E+01 | 8.29E+00 | 1.77E+01 | 1.77E+01 | 1.77E+01 | 1.77E+01 |
| 1.00E+00 | 4.03E+00 | 1.73E+01 | 9.72E+00 | 7.98E+00 | 1.73E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.06E+00 | 4.01E+00 | 1.73E+01 | 9.70E+00 | 7.97E+00 | 1.72E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.12E+00 | 3.98E+00 | 1.73E+01 | 9.69E+00 | 7.95E+00 | 1.72E+01 | 1.73E+01 | 1.73E+01 | 1.73E+01 |
| 1.19E+00 | 3.95E+00 | 1.72E+01 | 9.67E+00 | 7.92E+00 | 1.72E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.25E+00 | 3.92E+00 | 1.72E+01 | 9.64E+00 | 7.90E+00 | 1.72E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.33E+00 | 3.89E+00 | 1.72E+01 | 9.62E+00 | 7.89E+00 | 1.71E+01 | 1.72E+01 | 1.72E+01 | 1.72E+01 |
| 1.40E+00 | 3.86E+00 | 1.72E+01 | 9.60E+00 | 7.87E+00 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.72E+01 |
| 1.49E+00 | 3.83E+00 | 1.71E+01 | 9.57E+00 | 7.85E+00 | 1.71E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.57E+00 | 3.79E+00 | 1.71E+01 | 9.55E+00 | 7.84E+00 | 1.70E+01 | 1.71E+01 | 1.71E+01 | 1.71E+01 |
| 1.66E+00 | 3.75E+00 | 1.70E+01 | 9.52E+00 | 7.82E+00 | 1.70E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.76E+00 | 3.71E+00 | 1.70E+01 | 9.49E+00 | 7.80E+00 | 1.69E+01 | 1.70E+01 | 1.70E+01 | 1.70E+01 |
| 1.86E+00 | 3.66E+00 | 1.70E+01 | 9.46E+00 | 7.78E+00 | 1.69E+01 | 1.69E+01 | 1.70E+01 | 1.70E+01 |
| 1.97E+00 | 3.57E+00 | 1.69E+01 | 9.43E+00 | 7.70E+00 | 1.68E+01 | 1.69E+01 | 1.69E+01 | 1.69E+01 |
| 2.09E+00 | 3.48E+00 | 1.69E+01 | 9.39E+00 | 7.68E+00 | 1.68E+01 | 1.69E+01 | 1.69E+01 | 1.69E+01 |
| 2.21E+00 | 3.38E+00 | 1.68E+01 | 9.35E+00 | 7.66E+00 | 1.67E+01 | 1.68E+01 | 1.68E+01 | 1.68E+01 |
| 2.24E+00 | 3.28E+00 | 1.68E+01 | 9.32E+00 | 7.59E+00 | 1.67E+01 | 1.68E+01 | 1.68E+01 | 1.68E+01 |
| 2.27E+00 | 3.18E+00 | 1.67E+01 | 9.28E+00 | 7.56E+00 | 1.66E+01 | 1.67E+01 | 1.67E+01 | 1.67E+01 |
| 2.26E+00 | 3.08E+00 | 1.67E+01 | 9.23E+00 | 7.53E+00 | 1.66E+01 | 1.66E+01 | 1.67E+01 | 1.67E+01 |
| 2.27E+00 | 2.97E+00 | 1.66E+01 | 9.19E+00 | 7.50E+00 | 1.65E+01 | 1.66E+01 | 1.66E+01 | 1.66E+01 |
| 2.29E+00 | 2.86E+00 | 1.65E+01 | 9.14E+00 | 7.47E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.00E+00 | 2.82E+00 | 1.65E+01 | 9.12E+00 | 7.46E+00 | 1.64E+01 | 1.65E+01 | 1.65E+01 | 1.65E+01 |
| 3.10E+00 | 2.75E+00 | 1.65E+01 | 9.09E+00 | 7.44E+00 | 1.64E+01 | 1.64E+01 | 1.65E+01 | 1.65E+01 |
| 3.28E+00 | 2.64E+00 | 1.64E+01 | 9.04E+00 | 7.40E+00 | 1.63E+01 | 1.64E+01 | 1.64E+01 | 1.64E+01 |
| 3.48E+00 | 2.53E+00 | 1.63E+01 | 8.98E+00 | 7.35E+00 | 1.62E+01 | 1.63E+01 | 1.63E+01 | 1.63E+01 |
| 3.68E+00 | 2.41E+00 | 1.62E+01 | 8.93E+00 | 7.31E+00 | 1.61E+01 | 1.62E+01 | 1.62E+01 | 1.62E+01 |
| 3.89E+00 | 2.30E+00 | 1.62E+01 | 8.87E+00 | 7.27E+00 | 1.60E+01 | 1.61E+01 | 1.62E+01 | 1.62E+01 |
| 4.12E+00 | 2.08E+00 | 1.61E+01 | 8.80E+00 | 7.22E+00 | 1.59E+01 | 1.60E+01 | 1.61E+01 | 1.61E+01 |
| 4.36E+00 | 1.49E+00 | 1.60E+01 | 8.74E+00 | 7.17E+00 | 1.58E+01 | 1.60E+01 | 1.60E+01 | 1.60E+01 |
| 4.61E+00 | 8.92E-01 | 1.59E+01 | 8.66E+00 | 7.12E+00 | 1.57E+01 | 1.59E+01 | 1.59E+01 | 1.59E+01 |
| 4.88E+00 | 4.18E-01 | 1.58E+01 | 8.59E+00 | 7.07E+00 | 1.56E+01 | 1.58E+01 | 1.58E+01 | 1.58E+01 |
| 5.17E+00 | 1.12E-01 | 1.57E+01 | 8.51E+00 | 7.02E+00 | 1.55E+01 | 1.56E+01 | 1.57E+01 | 1.57E+01 |
| 5.47E+00 | 2.18E-03 | 1.56E+01 | 8.43E+00 | 6.96E+00 | 1.54E+01 | 1.55E+01 | 1.56E+01 | 1.56E+01 |
| 5.78E+00 | 0.00E+00 | 1.55E+01 | 8.35E+00 | 6.91E+00 | 1.53E+01 | 1.54E+01 | 1.54E+01 | 1.55E+01 |
| 6.12E+00 | 0.00E+00 | 1.53E+01 | 8.27E+00 | 6.85E+00 | 1.51E+01 | 1.53E+01 | 1.53E+01 | 1.53E+01 |
| 6.48E+00 | 0.00E+00 | 1.52E+01 | 8.18E+00 | 6.79E+00 | 1.50E+01 | 1.52E+01 | 1.52E+01 | 1.52E+01 |
| 6.86E+00 | 0.00E+00 | 1.51E+01 | 8.08E+00 | 6.72E+00 | 1.48E+01 | 1.50E+01 | 1.51E+01 | 1.51E+01 |
| 7.26E+00 | 0.00E+00 | 1.49E+01 | 7.98E+00 | 6.65E+00 | 1.47E+01 | 1.49E+01 | 1.49E+01 | 1.49E+01 |
| 7.68E+00 | 0.00E+00 | 1.48E+01 | 7.88E+00 | 6.53E+00 | 1.45E+01 | 1.47E+01 | 1.48E+01 | 1.48E+01 |
| 8.13E+00 | 0.00E+00 | 1.46E+01 | 7.78E+00 | 6.45E+00 | 1.44E+01 | 1.46E+01 | 1.46E+01 | 1.46E+01 |
| 8.60E+00 | 0.00E+00 | 1.45E+01 | 7.67E+00 | 6.34E+00 | 1.42E+01 | 1.44E+01 | 1.44E+01 | 1.44E+01 |
| 9.10E+00 | 0.00E+00 | 1.43E+01 | 7.55E+00 | 6.23E+00 | 1.40E+01 | 1.42E+01 | 1.43E+01 | 1.43E+01 |
| 9.63E+00 | 0.00E+00 | 1.41E+01 | 7.43E+00 | 6.14E+00 | 1.38E+01 | 1.40E+01 | 1.41E+01 | 1.41E+01 |
| 1.00E+01 | 0.00E+00 | 1.40E+01 | 7.35E+00 | 6.08E+00 | 1.37E+01 | 1.39E+01 | 1.40E+01 | 1.40E+01 |
| 1.02E+01 | 0.00E+00 | 1.39E+01 | 7.31E+00 | 6.05E+00 | 1.36E+01 | 1.38E+01 | 1.39E+01 | 1.39E+01 |
| 1.08E+01 | 0.00E+00 | 1.37E+01 | 7.18E+00 | 5.94E+00 | 1.34E+01 | 1.36E+01 | 1.37E+01 | 1.37E+01 |
| 1.14E+01 | 0.00E+00 | 1.35E+01 | 7.05E+00 | 5.79E+00 | 1.32E+01 | 1.34E+01 | 1.35E+01 | 1.35E+01 |
| 1.21E+01 | 0.00E+00 | 1.33E+01 | 6.91E+00 | 5.63E+00 | 1.30E+01 | 1.32E+01 | 1.33E+01 | 1.33E+01 |
| 1.28E+01 | 0.00E+00 | 1.31E+01 | 6.76E+00 | 5.50E+00 | 1.27E+01 | 1.30E+01 | 1.31E+01 | 1.31E+01 |
| 1.35E+01 | 0.00E+00 | 1.29E+01 | 6.62E+00 | 5.37E+00 | 1.25E+01 | 1.28E+01 | 1.28E+01 | 1.28E+01 |
| 1.43E+01 | 0.00E+00 | 1.26E+01 | 6.47E+00 | 5.23E+00 | 1.22E+01 | 1.25E+01 | 1.26E+01 | 1.26E+01 |
| 1.51E+01 | 0.00E+00 | 1.24E+01 | 6.31E+00 | 5.09E+00 | 1.20E+01 | 1.23E+01 | 1.23E+01 | 1.24E+01 |
| 1.60E+01 | 0.00E+00 | 1.21E+01 | 6.15E+00 | 4.97E+00 | 1.17E+01 | 1.20E+01 | 1.21E+01 | 1.21E+01 |
| 1.70E+01 | 0.00E+00 | 1.18E+01 | 5.99E+00 | 4.84E+00 | 1.14E+01 | 1.17E+01 | 1.18E+01 | 1.18E+01 |
| 1.80E+01 | 0.00E+00 | 1.16E+01 | 5.82E+00 | 4.71E+00 | 1.11E+01 | 1.14E+01 | 1.15E+01 | 1.16E+01 |
| 1.90E+01 | 0.00E+00 | 1.13E+01 | 5.64E+00 | 4.58E+00 | 1.08E+01 | 1.12E+01 | 1.12E+01 | 1.13E+01 |

2.01E+01 0.00E+00 1.10E+01 5.47E+00 4.45E+00 1.05E+01 1.09E+01 1.10E+01 1.10E+01

2.13E+01 0.00E+00 1.07E+01 5.28E+00 4.30E+00 1.02E+01 1.06E+01 1.07E+01 1.07E+01

2.25E+01 0.00E+00 1.04E+01 5.10E+00 4.16E+00 9.88E+00 1.02E+01 1.03E+01 1.04E+01

2.38E+01 0.00E+00 1.01E+01 4.91E+00 4.02E+00 9.55E+00 9.92E+00 1.00E+01 1.00E+01

2.52E+01 0.00E+00 9.73E+00 4.72E+00 3.88E+00 9.21E+00 9.59E+00 9.69E+00 9.71E+00

2.67E+01 0.00E+00 9.40E+00 4.53E+00 3.72E+00 8.86E+00 9.25E+00 9.36E+00 9.38E+00

2.82E+01 0.00E+00 9.05E+00 4.33E+00 3.57E+00 8.51E+00 8.90E+00 9.01E+00 9.04E+00

2.99E+01 0.00E+00 8.71E+00 4.14E+00 3.42E+00 8.16E+00 8.55E+00 8.66E+00 8.68E+00

3.00E+01 0.00E+00 8.68E+00 4.12E+00 3.41E+00 8.13E+00 8.52E+00 8.63E+00 8.66E+00

3.16E+01 0.00E+00 8.35E+00 3.94E+00 3.26E+00 7.80E+00 8.16E+00 8.30E+00 8.33E+00

3.35E+01 0.00E+00 8.00E+00 3.74E+00 3.09E+00 7.42E+00 7.80E+00 7.94E+00 7.97E+00

3.54E+01 0.00E+00 7.63E+00 3.54E+00 2.94E+00 7.04E+00 7.44E+00 7.58E+00 7.61E+00

3.75E+01 0.00E+00 7.27E+00 3.34E+00 2.76E+00 6.67E+00 7.07E+00 7.21E+00 7.24E+00

3.97E+01 0.00E+00 6.90E+00 3.14E+00 2.60E+00 6.30E+00 6.71E+00 6.85E+00 6.87E+00

4.20E+01 0.00E+00 6.53E+00 2.94E+00 2.44E+00 5.93E+00 6.34E+00 6.48E+00 6.50E+00

4.44E+01 0.00E+00 6.16E+00 2.75E+00 2.27E+00 5.57E+00 5.97E+00 6.11E+00 6.13E+00

4.70E+01 0.00E+00 5.79E+00 2.56E+00 2.10E+00 5.21E+00 5.60E+00 5.74E+00 5.77E+00

4.97E+01 0.00E+00 5.43E+00 2.37E+00 1.95E+00 4.84E+00 5.24E+00 5.37E+00 5.40E+00

5.26E+01 0.00E+00 5.06E+00 2.19E+00 1.80E+00 4.48E+00 4.88E+00 5.01E+00 5.04E+00

5.57E+01 0.00E+00 4.71E+00 2.01E+00 1.66E+00 4.13E+00 4.53E+00 4.66E+00 4.68E+00

5.90E+01 0.00E+00 4.36E+00 1.84E+00 1.52E+00 3.81E+00 4.18E+00 4.31E+00 4.33E+00

6.24E+01 0.00E+00 4.02E+00 1.67E+00 1.38E+00 3.48E+00 3.85E+00 3.97E+00 3.99E+00

6.60E+01 0.00E+00 3.68E+00 1.52E+00 1.25E+00 3.17E+00 3.52E+00 3.64E+00 3.66E+00

99E+01 0.00E+00 3.36E+00 1.36E+00 1.12E+00 2.87E+00 3.20E+00 3.32E+00 3.34E+00

7.39E+01 0.00E+00 3.05E+00 1.22E+00 9.99E-01 2.60E+00 2.90E+00 3.01E+00 3.03E+00

7.82E+01 0.00E+00 2.75E+00 1.08E+00 8.89E-01 2.33E+00 2.61E+00 2.71E+00 2.73E+00

8.28E+01 0.00E+00 2.47E+00 9.57E-01 7.91E-01 2.07E+00 2.33E+00 2.43E+00 2.45E+00

8.76E+01 0.00E+00 2.20E+00 8.39E-01 6.91E-01 1.82E+00 2.06E+00 2.16E+00 2.18E+00

9.27E+01 0.00E+00 1.95E+00 7.30E-01 5.94E-01 1.59E+00 1.82E+00 1.91E+00 1.93E+00

9.81E+01 0.00E+00 1.71E+00 6.29E-01 5.17E-01 1.36E+00 1.59E+00 1.68E+00 1.70E+00

1.00E+02 0.00E+00 1.64E+00 5.98E-01 4.91E-01 1.29E+00 1.52E+00 1.61E+00 1.62E+00

1.04E+02 0.00E+00 1.50E+00 5.38E-01 4.44E-01 1.17E+00 1.39E+00 1.47E+00 1.48E+00

1.10E+02 0.00E+00 1.30E+00 4.56E-01 3.74E-01 1.00E+00 1.19E+00 1.27E+00 1.28E+00

1.16E+02 0.00E+00 1.11E+00 3.83E-01 3.13E-01 8.56E-01 1.02E+00 1.09E+00 1.10E+00

1.23E+02 0.00E+00 9.47E-01 3.18E-01 2.57E-01 7.16E-01 8.61E-01 9.24E-01 9.36E-01

1.30E+02 0.00E+00 7.98E-01 2.62E-01 2.10E-01 5.91E-01 7.21E-01 7.78E-01 7.89E-01

1.38E+02 0.00E+00 6.66E-01 2.13E-01 1.71E-01 4.81E-01 5.89E-01 6.49E-01 6.58E-01

1.46E+02 0.00E+00 5.50E-01 1.71E-01 1.37E-01 3.90E-01 4.83E-01 5.35E-01 5.43E-01

1.54E+02 0.00E+00 4.50E-01 1.35E-01 1.08E-01 3.12E-01 3.89E-01 4.36E-01 4.43E-01

1.63E+02 0.00E+00 3.63E-01 1.06E-01 8.34E-02 2.45E-01 3.10E-01 3.52E-01 3.57E-01

1.73E+02 0.00E+00 2.89E-01 8.17E-02 6.46E-02 1.91E-01 2.45E-01 2.77E-01 2.85E-01

1.83E+02 0.00E+00 2.28E-01 6.21E-02 4.85E-02 1.44E-01 1.92E-01 2.18E-01 2.24E-01

1.94E+02 0.00E+00 1.77E-01 4.63E-02 3.57E-02 1.10E-01 1.43E-01 1.67E-01 1.73E-01

2.05E+02 0.00E+00 1.35E-01 3.40E-02 2.59E-02 8.24E-02 1.09E-01 1.27E-01 1.32E-01

2.17E+02 0.00E+00 1.02E-01 2.45E-02 1.84E-02 5.96E-02 8.09E-02 9.56E-02 9.95E-02

2.29E+02 0.00E+00 7.52E-02 1.73E-02 1.30E-02 4.36E-02 5.83E-02 7.05E-02 7.35E-02

2.43E+02 0.00E+00 5.47E-02 1.21E-02 9.01E-03 3.06E-02 4.18E-02 5.04E-02 5.35E-02

2.57E+02 0.00E+00 3.91E-02 8.22E-03 5.99E-03 2.14E-02 2.94E-02 3.55E-02 3.81E-02

2.72E+02 0.00E+00 2.74E-02 5.48E-03 3.71E-03 1.45E-02 2.02E-02 2.47E-02 2.67E-02

2.88E+02 0.00E+00 1.88E-02 3.59E-03 2.28E-03 9.55E-03 1.35E-02 1.69E-02 1.83E-02

3.00E+02 0.00E+00 1.40E-02 2.59E-03 1.60E-03 6.95E-03 9.71E-03 1.25E-02 1.36E-02

3.05E+02 0.00E+00 1.25E-02 2.29E-03 1.38E-03 6.20E-03 8.62E-03 1.12E-02 1.22E-02

3.22E+02 0.00E+00 8.21E-03 1.43E-03 8.03E-04 3.89E-03 5.40E-03 7.22E-03 7.94E-03

3.41E+02 0.00E+00 5.25E-03 8.67E-04 4.58E-04 2.39E-03 3.31E-03 4.39E-03 5.06E-03

3.61E+02 0.00E+00 3.27E-03 5.12E-04 2.46E-04 1.45E-03 2.02E-03 2.66E-03 3.15E-03

3.82E+02 0.00E+00 1.98E-03 2.94E-04 1.26E-04 8.74E-04 1.20E-03 1.58E-03 1.89E-03

4.04E+02 0.00E+00 1.17E-03 1.63E-04 6.21E-05 4.81E-04 6.64E-04 8.83E-04 1.11E-03

4.28E+02 0.00E+00 6.66E-04 8.78E-05 2.81E-05 2.64E-04 3.64E-04 4.96E-04 6.31E-04

4.53E+02 0.00E+00 3.68E-04 4.60E-05 1.38E-05 1.39E-04 1.95E-04 2.64E-04 3.48E-04

4.79E+02 0.00E+00 1.96E-04 2.30E-05 6.35E-06 6.66E-05 1.02E-04 1.34E-04 1.79E-04

5.07E+02 0.00E+00 1.01E-04 1.10E-05 2.39E-06 3.08E-05 5.12E-05 6.60E-05 9.14E-05

5.36E+02 0.00E+00 5.00E-05 5.05E-06 9.43E-07 1.45E-05 2.42E-05 3.09E-05 4.37E-05

5.68E+02 0.00E+00 2.37E-05 2.24E-06 3.43E-07 6.54E-06 1.14E-05 1.45E-05 1.96E-05

0.01E+02 0.00E+00 1.08E-05 9.47E-07 1.17E-07 2.90E-06 4.75E-06 6.07E-06 8.87E-06

6.36E+02 0.00E+00 4.69E-06 3.83E-07 4.05E-08 1.24E-06 1.99E-06 2.39E-06 3.84E-06

6.73E+02 0.00E+00 1.94E-06 1.46E-07 1.40E-08 4.99E-07 7.53E-07 9.62E-07 1.55E-06

7.12E+02 0.00E+00 7.63E-07 5.30E-08 4.45E-09 1.87E-07 2.77E-07 3.70E-07 5.99E-07

7.53E+02 0.00E+00 2.84E-07 1.82E-08 1.34E-09 6.58E-08 9.65E-08 1.33E-07 2.07E-07

7.97E+02 0.00E+00 9.98E-08 5.86E-09 3.90E-10 2.08E-08 3.29E-08 4.56E-08 6.52E-08

8.44E+02 0.00E+00 3.30E-08 1.78E-09 9.47E-11 6.49E-09 1.03E-08 1.48E-08 2.00E-08

93E+02 0.00E+00 1.02E-08 5.12E-10 2.33E-11 1.83E-09 3.14E-09 4.51E-09 6.18E-09

9.45E+02 0.00E+00 2.96E-09 1.38E-10 5.41E-12 4.79E-10 8.37E-10 1.26E-09 1.79E-09

1.00E+03 0.00E+00 7.98E-10 3.46E-11 1.35E-12 1.23E-10 2.06E-10 3.08E-10 4.80E-10

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\SOIL UNCERTAINTY ANALYSIS\FCS SOIL UNCERTAINTY ANALYSIS SR-90.RAD

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

| Repetition | Time of peak mean dose | | Peak mean dose mrem/yr |
|------------|------------------------|--|---------------------------|
| | Years | | |
| 1 | 0.000E+00 | | 1.004E+01 |
| 2 | 0.000E+00 | | 1.003E+01 |
| 3 | 0.000E+00 | | 1.004E+01 |

Title : RESRAD Default Parameters

Input File : FCS SOIL UNCERTAINTY ANALYSIS SR-90.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 | 2 | -0.12 | 2 | -0.04 | 14 | 0.01 | 14 | 0.00 |
| Contaminated zone b parameter | 16 | -0.01 | 16 | 0.00 | 7 | 0.04 | 7 | 0.00 |
| Evapotranspiration coefficient | 11 | -0.01 | 11 | 0.00 | 3 | 0.17 | 3 | 0.02 |
| Wind Speed | 15 | -0.01 | 15 | 0.00 | 8 | 0.04 | 8 | 0.00 |
| Runoff coefficient | 5 | -0.06 | 5 | -0.02 | 4 | 0.09 | 4 | 0.01 |
| Well pump intake depth | 8 | -0.04 | 8 | -0.01 | 6 | 0.04 | 6 | 0.00 |
| b Parameter of Unsaturated zone 1 | 3 | -0.08 | 3 | -0.02 | 15 | -0.01 | 15 | 0.00 |
| Mass loading for inhalation | 4 | 0.06 | 4 | 0.02 | 17 | -0.01 | 17 | 0.00 |
| Indoor dust filtration factor | 10 | 0.02 | 10 | 0.00 | 18 | 0.00 | 18 | 0.00 |
| Depth of soil mixing layer | 9 | 0.03 | 9 | 0.01 | 16 | -0.01 | 16 | 0.00 |
| Depth of roots | 1 | -0.96 | 1 | -0.96 | 1 | -0.99 | 1 | -0.99 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 14 | -0.01 | 14 | 0.00 | 11 | -0.02 | 11 | 0.00 |
| Weathering removal constant of all vegetation | 17 | 0.01 | 17 | 0.00 | 13 | 0.02 | 13 | 0.00 |
| Wet foliar interception fraction of leafy vegetables | 13 | -0.01 | 13 | 0.00 | 12 | -0.02 | 12 | 0.00 |
| Humidity in air | 12 | 0.01 | 12 | 0.00 | 9 | 0.03 | 9 | 0.00 |
| Kd of Sr-90 in Contaminated Zone | 6 | 0.04 | 6 | 0.01 | 2 | 0.28 | 2 | 0.03 |
| Kd of Sr-90 in Unsaturated Zone 1 | 7 | 0.04 | 7 | 0.01 | 5 | 0.05 | 5 | 0.01 |
| Kd of Sr-90 in Saturated Zone | 18 | 0.00 | 18 | 0.00 | 10 | 0.03 | 10 | 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 SR-90.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 | 3 | -0.11 | 3 | -0.03 | 15 | -0.03 | 15 | 0.00 |
| Contaminated zone b parameter | 10 | -0.04 | 10 | -0.01 | 18 | 0.00 | 18 | 0.00 |
| Evapotranspiration coefficient | 9 | 0.04 | 9 | 0.01 | 3 | 0.13 | 3 | 0.01 |
| Wind Speed | 16 | -0.02 | 16 | 0.00 | 8 | 0.06 | 8 | 0.01 |
| Runoff coefficient | 8 | 0.05 | 8 | 0.01 | 6 | 0.08 | 6 | 0.01 |
| Well pump intake depth | 4 | -0.10 | 5 | -0.03 | 16 | -0.02 | 16 | 0.00 |
| b Parameter of Unsaturated zone 1 | 6 | -0.09 | 6 | -0.03 | 14 | 0.03 | 14 | 0.00 |
| Mass loading for inhalation | 2 | 0.11 | 2 | 0.03 | 7 | 0.06 | 7 | 0.01 |
| Indoor dust filtration factor | 5 | 0.10 | 4 | 0.03 | 10 | 0.06 | 10 | 0.01 |
| Depth of soil mixing layer | 15 | -0.02 | 15 | 0.00 | 5 | -0.10 | 5 | -0.01 |
| Depth of roots | 1 | -0.96 | 1 | -0.96 | 1 | -0.99 | 1 | -0.99 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 17 | 0.00 | 17 | 0.00 | 4 | 0.11 | 4 | 0.01 |
| Weathering removal constant of all vegetation | 7 | 0.07 | 7 | 0.02 | 12 | 0.04 | 12 | 0.00 |
| Wet foliar interception fraction of leafy vegetables | 11 | 0.04 | 11 | 0.01 | 11 | 0.05 | 11 | 0.00 |
| Humidity in air | 13 | 0.02 | 13 | 0.01 | 9 | -0.06 | 9 | -0.01 |
| Kd of Sr-90 in Contaminated Zone | 18 | 0.00 | 18 | 0.00 | 2 | 0.33 | 2 | 0.04 |
| Kd of Sr-90 in Unsaturated Zone 1 | 12 | -0.03 | 12 | -0.01 | 17 | -0.01 | 17 | 0.00 |
| Kd of Sr-90 in Saturated Zone | 14 | 0.02 | 14 | 0.01 | 13 | 0.04 | 13 | 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 SR-90.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 | 9 | -0.04 | 9 | -0.01 | 10 | 0.02 | 10 | 0.00 |
| Contaminated zone b parameter | 6 | -0.05 | 6 | -0.02 | 12 | -0.02 | 12 | 0.00 |
| Evapotranspiration coefficient | 18 | 0.00 | 18 | 0.00 | 3 | 0.14 | 3 | 0.02 |
| Wind Speed | 8 | -0.05 | 8 | -0.01 | 5 | -0.09 | 5 | -0.01 |
| Runoff coefficient | 2 | -0.09 | 2 | -0.03 | 13 | 0.01 | 13 | 0.00 |
| Well pump intake depth | 4 | 0.07 | 4 | 0.02 | 7 | 0.06 | 7 | 0.01 |
| b Parameter of Unsaturated zone 1 | 14 | 0.02 | 14 | 0.01 | 8 | 0.04 | 8 | 0.00 |
| Mass loading for inhalation | 15 | 0.02 | 15 | 0.01 | 15 | 0.00 | 15 | 0.00 |
| Indoor dust filtration factor | 13 | 0.03 | 13 | 0.01 | 6 | 0.08 | 6 | 0.01 |
| Depth of soil mixing layer | 11 | -0.03 | 11 | -0.01 | 9 | -0.03 | 9 | 0.00 |
| Depth of roots | 1 | -0.96 | 1 | -0.96 | 1 | -0.99 | 1 | -0.99 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 17 | 0.01 | 17 | 0.00 | 11 | -0.02 | 11 | 0.00 |
| Weathering removal constant of all vegetation | 7 | -0.05 | 7 | -0.02 | 14 | 0.01 | 14 | 0.00 |
| Wet foliar interception fraction of leafy vegetables | 10 | -0.03 | 10 | -0.01 | 18 | 0.00 | 18 | 0.00 |
| Humidity in air | 16 | 0.02 | 16 | 0.00 | 4 | -0.10 | 4 | -0.01 |
| Kd of Sr-90 in Contaminated Zone | 3 | 0.08 | 3 | 0.02 | 2 | 0.32 | 2 | 0.04 |
| Kd of Sr-90 in Unsaturated Zone 1 | 5 | -0.07 | 5 | -0.02 | 17 | 0.00 | 17 | 0.00 |
| Kd of Sr-90 in Saturated Zone | 12 | 0.03 | 12 | 0.01 | 16 | 0.00 | 16 | 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.