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Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

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[illegible]

Probabilistic results summary : RESRAD Default Parameters

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Probabilistic Total Dose Summary

| Nuclide (j) | Peak Time | Peak Dose | DOSE(j,t), mrem/yr | | | | | | | |
|----------------|--------------|--------------|--------------------|----------|----------|----------|----------|----------|----------|----------|
| | | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| Co-60 | | | | | | | | | | |
| Min | 0.00E+00 | 2.40E-04 | 2.40E-04 | 2.13E-04 | 1.68E-04 | 7.31E-05 | 6.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.58E+01 | 6.18E+01 | 6.18E+01 | 4.58E+01 | 2.52E+01 | 5.64E+00 | 1.97E-01 | 1.55E-05 | 5.88E-17 | 0.00E+00 |
| Avg | 2.16E-01 | 2.16E+00 | 2.13E+00 | 1.77E+00 | 1.24E+00 | 4.12E-01 | 2.33E-02 | 1.93E-06 | 1.54E-17 | 0.00E+00 |
| Std | 1.68E+00 | 5.84E+00 | 5.84E+00 | 4.56E+00 | 2.84E+00 | 6.77E-01 | 2.98E-02 | 2.70E-06 | 2.00E-17 | 0.00E+00 |
| ALL | | | | | | | | | | |
| Min | 0.00E+00 | 2.40E-04 | 2.40E-04 | 2.13E-04 | 1.68E-04 | 7.31E-05 | 6.95E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 2.58E+01 | 6.18E+01 | 6.18E+01 | 4.58E+01 | 2.52E+01 | 5.64E+00 | 1.97E-01 | 1.55E-05 | 5.88E-17 | 0.00E+00 |
| Avg | 2.16E-01 | 2.16E+00 | 2.13E+00 | 1.77E+00 | 1.24E+00 | 4.12E-01 | 2.33E-02 | 1.93E-06 | 1.54E-17 | 0.00E+00 |
| Std | 1.68E+00 | 5.84E+00 | 5.84E+00 | 4.56E+00 | 2.84E+00 | 6.77E-01 | 2.98E-02 | 2.70E-06 | 2.00E-17 | 0.00E+00 |

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 |
| | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 5.66E-09 | 5.03E-09 | 3.96E-09 | 1.73E-09 | 1.65E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.47E-03 | 1.10E-03 | 6.04E-04 | 1.31E-04 | 4.78E-06 | 3.85E-10 | 1.46E-21 | 0.00E+00 |
| Avg | | 5.04E-05 | 4.20E-05 | 2.95E-05 | 9.80E-06 | 5.66E-07 | 4.79E-11 | 3.82E-22 | 0.00E+00 |
| Std | | 1.37E-04 | 1.07E-04 | 6.64E-05 | 1.56E-05 | 7.05E-07 | 6.62E-11 | 4.93E-22 | 0.00E+00 |
| ALL | | | | | | | | | |
| Min | | 5.66E-09 | 5.03E-09 | 3.96E-09 | 1.73E-09 | 1.65E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.47E-03 | 1.10E-03 | 6.04E-04 | 1.31E-04 | 4.78E-06 | 3.85E-10 | 1.46E-21 | 0.00E+00 |
| Avg | | 5.04E-05 | 4.20E-05 | 2.95E-05 | 9.80E-06 | 5.66E-07 | 4.79E-11 | 3.82E-22 | 0.00E+00 |
| Std | | 1.37E-04 | 1.07E-04 | 6.64E-05 | 1.56E-05 | 7.05E-07 | 6.62E-11 | 4.93E-22 | 0.00E+00 |

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 |
| Co-60 | | | | | | | | | |
| Min | | 1.29E-04 | 9.04E-05 | 4.43E-05 | 3.65E-06 | 2.92E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.25E-04 | 4.29E-03 | 2.87E-01 | 1.87E+00 | 1.35E-01 | 1.35E-05 | 5.13E-17 | 0.00E+00 |
| Avg | | 1.48E-04 | 1.51E-04 | 7.73E-04 | 2.20E-02 | 3.34E-03 | 4.90E-07 | 1.05E-17 | 0.00E+00 |
| Std | | 2.46E-05 | 2.04E-04 | 1.04E-02 | 1.93E-01 | 2.04E-02 | 2.40E-06 | 1.85E-17 | 0.00E+00 |
| TOTAL | | | | | | | | | |
| Min | | 1.29E-04 | 9.04E-05 | 4.43E-05 | 3.65E-06 | 2.92E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.25E-04 | 4.29E-03 | 2.87E-01 | 1.87E+00 | 1.35E-01 | 1.35E-05 | 5.13E-17 | 0.00E+00 |
| Avg | | 1.48E-04 | 1.51E-04 | 7.73E-04 | 2.20E-02 | 3.34E-03 | 4.90E-07 | 1.05E-17 | 0.00E+00 |
| Std | | 2.46E-05 | 2.04E-04 | 1.04E-02 | 1.93E-01 | 2.04E-02 | 2.40E-06 | 1.85E-17 | 0.00E+00 |

TOTAL 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 |
| <hr/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 8.16E-07 | 1.57E-06 | 1.18E-07 | 1.12E-11 | 7.73E-23 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 7.58E-10 | 7.71E-09 | 1.15E-09 | 1.66E-13 | 3.93E-24 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.20E-08 | 7.35E-08 | 7.76E-09 | 9.07E-13 | 8.14E-24 | 0.00E+00 |
| <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 | 8.16E-07 | 1.57E-06 | 1.18E-07 | 1.12E-11 | 7.73E-23 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 7.58E-10 | 7.71E-09 | 1.15E-09 | 1.66E-13 | 3.93E-24 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.20E-08 | 7.35E-08 | 7.76E-09 | 9.07E-13 | 8.14E-24 | 0.00E+00 |
| <hr/> | | | | | | | | | |

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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| TOTAL | | | | | | | | | |
| 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/> | | | | | | | | | |

TOTAL 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 |
| <hr/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.84E-01 | 3.52E-01 | 2.96E-01 | 1.32E-01 | 9.50E-03 | 9.55E-07 | 3.61E-18 | 0.00E+00 |
| Avg | | 2.29E-01 | 2.01E-01 | 1.54E-01 | 6.16E-02 | 4.43E-03 | 4.58E-07 | 1.97E-18 | 0.00E+00 |
| Std | | 1.34E-01 | 1.17E-01 | 8.98E-02 | 3.64E-02 | 2.69E-03 | 2.80E-07 | 1.23E-18 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| TOTAL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.84E-01 | 3.52E-01 | 2.96E-01 | 1.32E-01 | 9.50E-03 | 9.55E-07 | 3.61E-18 | 0.00E+00 |
| Avg | | 2.29E-01 | 2.01E-01 | 1.54E-01 | 6.16E-02 | 4.43E-03 | 4.58E-07 | 1.97E-18 | 0.00E+00 |
| Std | | 1.34E-01 | 1.17E-01 | 8.98E-02 | 3.64E-02 | 2.69E-03 | 2.80E-07 | 1.23E-18 | 0.00E+00 |
| <hr/> | | | | | | | | | |

TOTAL 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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 2.52E-01 | 2.31E-01 | 1.97E-01 | 1.02E-01 | 7.38E-03 | 7.42E-07 | 2.81E-18 | 0.00E+00 |
| Avg | | 1.51E-01 | 1.33E-01 | 1.02E-01 | 4.09E-02 | 2.95E-03 | 3.06E-07 | 1.39E-18 | 0.00E+00 |
| Std | | 8.86E-02 | 7.74E-02 | 5.93E-02 | 2.44E-02 | 1.83E-03 | 1.92E-07 | 9.11E-19 | 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 | | 2.52E-01 | 2.31E-01 | 1.97E-01 | 1.02E-01 | 7.38E-03 | 7.42E-07 | 2.81E-18 | 0.00E+00 |
| Avg | | 1.51E-01 | 1.33E-01 | 1.02E-01 | 4.09E-02 | 2.95E-03 | 3.06E-07 | 1.39E-18 | 0.00E+00 |
| Std | | 8.86E-02 | 7.74E-02 | 5.93E-02 | 2.44E-02 | 1.83E-03 | 1.92E-07 | 9.11E-19 | 0.00E+00 |
| <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): 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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.14E-01 | 1.04E-01 | 8.81E-02 | 4.21E-02 | 3.03E-03 | 3.05E-07 | 1.15E-18 | 0.00E+00 |
| Avg | | 6.80E-02 | 5.96E-02 | 4.58E-02 | 1.83E-02 | 1.32E-03 | 1.37E-07 | 6.02E-19 | 0.00E+00 |
| Std | | 3.98E-02 | 3.48E-02 | 2.67E-02 | 1.09E-02 | 8.08E-04 | 8.45E-08 | 3.82E-19 | 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 | | 1.14E-01 | 1.04E-01 | 8.81E-02 | 4.21E-02 | 3.03E-03 | 3.05E-07 | 1.15E-18 | 0.00E+00 |
| Avg | | 6.80E-02 | 5.96E-02 | 4.58E-02 | 1.83E-02 | 1.32E-03 | 1.37E-07 | 6.02E-19 | 0.00E+00 |
| Std | | 3.98E-02 | 3.48E-02 | 2.67E-02 | 1.09E-02 | 8.08E-04 | 8.45E-08 | 3.82E-19 | 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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 5.69E-05 | 9.66E-05 | 6.96E-06 | 7.00E-10 | 2.65E-21 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 8.41E-08 | 1.20E-06 | 1.77E-07 | 2.55E-11 | 5.84E-22 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.01E-06 | 1.03E-05 | 1.06E-06 | 1.24E-10 | 9.82E-22 | 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 | 5.69E-05 | 9.66E-05 | 6.96E-06 | 7.00E-10 | 2.65E-21 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 8.41E-08 | 1.20E-06 | 1.77E-07 | 2.55E-11 | 5.84E-22 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.01E-06 | 1.03E-05 | 1.06E-06 | 1.24E-10 | 9.82E-22 | 0.00E+00 |
| <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): 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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 1.29E-06 | 1.13E-06 | 8.70E-07 | 3.46E-07 | 2.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.49E+01 | 2.59E+01 | 1.43E+01 | 2.91E+00 | 7.66E-02 | 2.29E-06 | 2.84E-18 | 0.00E+00 |
| Avg | | 9.30E-01 | 7.63E-01 | 5.20E-01 | 1.49E-01 | 6.28E-03 | 3.00E-07 | 5.07E-19 | 0.00E+00 |
| Std | | 3.24E+00 | 2.52E+00 | 1.56E+00 | 3.59E-01 | 1.18E-02 | 4.53E-07 | 6.39E-19 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 1.29E-06 | 1.13E-06 | 8.70E-07 | 3.46E-07 | 2.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.49E+01 | 2.59E+01 | 1.43E+01 | 2.91E+00 | 7.66E-02 | 2.29E-06 | 2.84E-18 | 0.00E+00 |
| Avg | | 9.30E-01 | 7.63E-01 | 5.20E-01 | 1.49E-01 | 6.28E-03 | 3.00E-07 | 5.07E-19 | 0.00E+00 |
| Std | | 3.24E+00 | 2.52E+00 | 1.56E+00 | 3.59E-01 | 1.18E-02 | 4.53E-07 | 6.39E-19 | 0.00E+00 |
| <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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| TOTAL | | | | | | | | | |
| 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/> | | | | | | | | | |

TOTAL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| TOTAL | | | | | | | | | |
| 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/> | | | | | | | | | |

TOTAL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 2.15E-07 | 1.88E-07 | 1.45E-07 | 5.76E-08 | 4.15E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.02E+00 | 4.05E+00 | 2.63E+00 | 5.84E-01 | 1.12E-02 | 6.63E-07 | 7.43E-19 | 0.00E+00 |
| Avg | | 8.78E-02 | 7.23E-02 | 4.95E-02 | 1.42E-02 | 5.92E-04 | 2.84E-08 | 4.93E-20 | 0.00E+00 |
| Std | | 3.35E-01 | 2.67E-01 | 1.71E-01 | 4.07E-02 | 1.28E-03 | 5.28E-08 | 7.74E-20 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 2.15E-07 | 1.88E-07 | 1.45E-07 | 5.76E-08 | 4.15E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.02E+00 | 4.05E+00 | 2.63E+00 | 5.84E-01 | 1.12E-02 | 6.63E-07 | 7.43E-19 | 0.00E+00 |
| Avg | | 8.78E-02 | 7.23E-02 | 4.95E-02 | 1.42E-02 | 5.92E-04 | 2.84E-08 | 4.93E-20 | 0.00E+00 |
| Std | | 3.35E-01 | 2.67E-01 | 1.71E-01 | 4.07E-02 | 1.28E-03 | 5.28E-08 | 7.74E-20 | 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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 7.55E-07 | 6.62E-07 | 5.09E-07 | 2.03E-07 | 1.46E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.76E+01 | 1.31E+01 | 7.75E+00 | 1.87E+00 | 4.35E-02 | 1.66E-06 | 1.77E-18 | 0.00E+00 |
| Avg | | 5.07E-01 | 4.16E-01 | 2.84E-01 | 8.11E-02 | 3.39E-03 | 1.61E-07 | 2.75E-19 | 0.00E+00 |
| Std | | 1.77E+00 | 1.39E+00 | 8.71E-01 | 2.01E-01 | 6.40E-03 | 2.46E-07 | 3.51E-19 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 7.55E-07 | 6.62E-07 | 5.09E-07 | 2.03E-07 | 1.46E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.76E+01 | 1.31E+01 | 7.75E+00 | 1.87E+00 | 4.35E-02 | 1.66E-06 | 1.77E-18 | 0.00E+00 |
| Avg | | 5.07E-01 | 4.16E-01 | 2.84E-01 | 8.11E-02 | 3.39E-03 | 1.61E-07 | 2.75E-19 | 0.00E+00 |
| Std | | 1.77E+00 | 1.39E+00 | 8.71E-01 | 2.01E-01 | 6.40E-03 | 2.46E-07 | 3.51E-19 | 0.00E+00 |
| <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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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/> | | | | | | | | | |
| Co-60 | | | | | | | | | |
| Min | | 2.41E-07 | 2.11E-07 | 1.62E-07 | 6.47E-08 | 4.66E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.22E+00 | 4.06E+00 | 2.55E+00 | 6.17E-01 | 1.41E-02 | 5.71E-07 | 5.88E-19 | 0.00E+00 |
| Avg | | 1.56E-01 | 1.29E-01 | 8.77E-02 | 2.51E-02 | 1.04E-03 | 4.97E-08 | 8.49E-20 | 0.00E+00 |
| Std | | 5.48E-01 | 4.32E-01 | 2.72E-01 | 6.34E-02 | 1.99E-03 | 7.68E-08 | 1.10E-19 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 2.41E-07 | 2.11E-07 | 1.62E-07 | 6.47E-08 | 4.66E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 5.22E+00 | 4.06E+00 | 2.55E+00 | 6.17E-01 | 1.41E-02 | 5.71E-07 | 5.88E-19 | 0.00E+00 |
| Avg | | 1.56E-01 | 1.29E-01 | 8.77E-02 | 2.51E-02 | 1.04E-03 | 4.97E-08 | 8.49E-20 | 0.00E+00 |
| Std | | 5.48E-01 | 4.32E-01 | 2.72E-01 | 6.34E-02 | 1.99E-03 | 7.68E-08 | 1.10E-19 | 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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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 | 3.79E-03 | 3.33E-03 | 2.57E-03 | 1.13E-03 | 9.07E-05 | 5.53E-09 | 2.20E-24 | 0.00E+00 |
| 0.050 | 1.19E-02 | 1.06E-02 | 8.85E-03 | 4.26E-03 | 4.17E-04 | 3.08E-08 | 1.01E-20 | 0.00E+00 |
| 0.075 | 4.76E-02 | 4.27E-02 | 3.32E-02 | 1.39E-02 | 1.08E-03 | 1.07E-07 | 8.04E-20 | 0.00E+00 |
| 0.100 | 9.25E-02 | 8.49E-02 | 7.28E-02 | 3.09E-02 | 2.34E-03 | 2.28E-07 | 3.60E-19 | 0.00E+00 |
| 0.125 | 1.57E-01 | 1.41E-01 | 1.14E-01 | 5.17E-02 | 3.92E-03 | 3.55E-07 | 9.56E-19 | 0.00E+00 |
| 0.150 | 2.30E-01 | 2.05E-01 | 1.66E-01 | 7.13E-02 | 5.55E-03 | 5.06E-07 | 1.64E-18 | 0.00E+00 |
| 0.175 | 2.96E-01 | 2.60E-01 | 2.10E-01 | 8.80E-02 | 6.69E-03 | 6.62E-07 | 2.29E-18 | 0.00E+00 |
| 0.200 | 3.58E-01 | 3.14E-01 | 2.48E-01 | 1.02E-01 | 7.70E-03 | 7.87E-07 | 2.85E-18 | 0.00E+00 |
| 0.225 | 4.05E-01 | 3.55E-01 | 2.82E-01 | 1.17E-01 | 8.72E-03 | 8.91E-07 | 3.35E-18 | 0.00E+00 |
| 0.250 | 4.61E-01 | 4.05E-01 | 3.15E-01 | 1.29E-01 | 9.63E-03 | 9.89E-07 | 3.82E-18 | 0.00E+00 |
| 0.275 | 5.06E-01 | 4.46E-01 | 3.45E-01 | 1.41E-01 | 1.04E-02 | 1.06E-06 | 4.15E-18 | 0.00E+00 |
| 0.300 | 5.36E-01 | 4.73E-01 | 3.65E-01 | 1.48E-01 | 1.08E-02 | 1.12E-06 | 4.45E-18 | 0.00E+00 |
| 0.325 | 5.69E-01 | 5.00E-01 | 3.88E-01 | 1.58E-01 | 1.16E-02 | 1.18E-06 | 4.64E-18 | 0.00E+00 |
| 0.350 | 5.95E-01 | 5.22E-01 | 4.04E-01 | 1.65E-01 | 1.21E-02 | 1.23E-06 | 4.82E-18 | 0.00E+00 |
| 0.375 | 6.22E-01 | 5.45E-01 | 4.21E-01 | 1.70E-01 | 1.24E-02 | 1.27E-06 | 5.03E-18 | 0.00E+00 |
| 0.400 | 6.41E-01 | 5.62E-01 | 4.34E-01 | 1.75E-01 | 1.28E-02 | 1.31E-06 | 5.15E-18 | 0.00E+00 |
| 0.425 | 6.59E-01 | 5.78E-01 | 4.46E-01 | 1.80E-01 | 1.31E-02 | 1.34E-06 | 5.29E-18 | 0.00E+00 |
| 0.450 | 6.78E-01 | 5.95E-01 | 4.60E-01 | 1.85E-01 | 1.35E-02 | 1.37E-06 | 5.42E-18 | 0.00E+00 |
| 0.475 | 6.93E-01 | 6.09E-01 | 4.70E-01 | 1.89E-01 | 1.38E-02 | 1.40E-06 | 5.55E-18 | 0.00E+00 |
| 0.500 | 7.04E-01 | 6.18E-01 | 4.77E-01 | 1.92E-01 | 1.40E-02 | 1.43E-06 | 5.73E-18 | 0.00E+00 |
| 0.525 | 7.15E-01 | 6.28E-01 | 4.84E-01 | 1.94E-01 | 1.42E-02 | 1.46E-06 | 5.84E-18 | 0.00E+00 |
| 0.550 | 7.24E-01 | 6.35E-01 | 4.89E-01 | 1.97E-01 | 1.44E-02 | 1.48E-06 | 5.99E-18 | 0.00E+00 |
| 0.575 | 7.36E-01 | 6.46E-01 | 4.98E-01 | 2.00E-01 | 1.46E-02 | 1.51E-06 | 6.18E-18 | 0.00E+00 |
| 0.600 | 7.49E-01 | 6.57E-01 | 5.07E-01 | 2.06E-01 | 1.50E-02 | 1.55E-06 | 6.46E-18 | 0.00E+00 |
| 0.625 | 7.78E-01 | 6.84E-01 | 5.28E-01 | 2.14E-01 | 1.55E-02 | 1.57E-06 | 6.69E-18 | 0.00E+00 |
| 0.650 | 8.15E-01 | 7.15E-01 | 5.55E-01 | 2.24E-01 | 1.63E-02 | 1.61E-06 | 7.06E-18 | 0.00E+00 |
| 0.675 | 8.55E-01 | 7.49E-01 | 5.77E-01 | 2.39E-01 | 1.72E-02 | 1.66E-06 | 7.73E-18 | 0.00E+00 |
| 0.700 | 9.22E-01 | 8.09E-01 | 6.26E-01 | 2.56E-01 | 1.83E-02 | 1.71E-06 | 9.01E-18 | 0.00E+00 |
| 0.725 | 1.01E+00 | 8.82E-01 | 6.78E-01 | 2.83E-01 | 2.02E-02 | 1.76E-06 | 1.17E-17 | 0.00E+00 |
| 0.750 | 1.11E+00 | 9.74E-01 | 7.57E-01 | 3.12E-01 | 2.23E-02 | 1.85E-06 | 1.60E-17 | 0.00E+00 |
| 0.775 | 1.24E+00 | 1.09E+00 | 8.46E-01 | 3.58E-01 | 2.51E-02 | 1.95E-06 | 2.30E-17 | 0.00E+00 |
| 0.800 | 1.48E+00 | 1.29E+00 | 9.99E-01 | 4.11E-01 | 2.84E-02 | 2.05E-06 | 3.28E-17 | 0.00E+00 |
| 0.825 | 1.71E+00 | 1.49E+00 | 1.14E+00 | 4.80E-01 | 3.31E-02 | 2.21E-06 | 4.37E-17 | 0.00E+00 |
| 0.850 | 2.10E+00 | 1.83E+00 | 1.39E+00 | 6.33E-01 | 4.02E-02 | 2.38E-06 | 5.13E-17 | 0.00E+00 |
| 0.875 | 2.76E+00 | 2.41E+00 | 1.84E+00 | 7.69E-01 | 4.74E-02 | 2.55E-06 | 5.52E-17 | 0.00E+00 |
| 0.900 | 3.74E+00 | 3.25E+00 | 2.46E+00 | 1.04E+00 | 5.64E-02 | 2.85E-06 | 5.70E-17 | 0.00E+00 |
| 0.925 | 5.40E+00 | 4.67E+00 | 3.50E+00 | 1.41E+00 | 6.79E-02 | 3.25E-06 | 5.78E-17 | 0.00E+00 |
| 0.950 | 8.64E+00 | 7.42E+00 | 5.48E+00 | 2.06E+00 | 8.38E-02 | 4.05E-06 | 5.84E-17 | 0.00E+00 |
| 0.975 | 1.82E+01 | 1.51E+01 | 1.06E+01 | 2.66E+00 | 1.51E-01 | 1.50E-05 | 5.87E-17 | 0.00E+00 |
| 1.000 | 6.18E+01 | 4.58E+01 | 2.52E+01 | 5.64E+00 | 1.97E-01 | 1.55E-05 | 5.88E-17 | 0.00E+00 |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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 | 4.27E-04 | 5.50E+01 | 2.10E+00 | 6.99E-01 | 3.71E+00 | 8.68E+00 | 1.88E+01 | 3.65E+01 |
| 1.00E+00 | 3.81E-04 | 4.12E+01 | 1.75E+00 | 6.13E-01 | 3.23E+00 | 7.43E+00 | 1.56E+01 | 2.74E+01 |
| 1.06E+00 | 3.78E-04 | 4.05E+01 | 1.73E+00 | 6.09E-01 | 3.21E+00 | 7.36E+00 | 1.54E+01 | 2.70E+01 |
| 1.12E+00 | 3.75E-04 | 3.98E+01 | 1.71E+00 | 6.04E-01 | 3.18E+00 | 7.29E+00 | 1.52E+01 | 2.65E+01 |
| 1.19E+00 | 3.73E-04 | 3.90E+01 | 1.69E+00 | 5.99E-01 | 3.15E+00 | 7.21E+00 | 1.50E+01 | 2.60E+01 |
| 1.25E+00 | 3.70E-04 | 3.82E+01 | 1.67E+00 | 5.93E-01 | 3.12E+00 | 7.14E+00 | 1.48E+01 | 2.55E+01 |
| 1.33E+00 | 3.67E-04 | 3.74E+01 | 1.65E+00 | 5.88E-01 | 3.09E+00 | 7.06E+00 | 1.46E+01 | 2.49E+01 |
| 1.40E+00 | 3.64E-04 | 3.66E+01 | 1.63E+00 | 5.82E-01 | 3.06E+00 | 6.97E+00 | 1.44E+01 | 2.44E+01 |
| 1.49E+00 | 3.60E-04 | 3.57E+01 | 1.60E+00 | 5.75E-01 | 3.02E+00 | 6.88E+00 | 1.42E+01 | 2.38E+01 |
| 1.57E+00 | 3.57E-04 | 3.48E+01 | 1.58E+00 | 5.69E-01 | 2.99E+00 | 6.79E+00 | 1.40E+01 | 2.32E+01 |
| 1.66E+00 | 3.53E-04 | 3.39E+01 | 1.55E+00 | 5.62E-01 | 2.95E+00 | 6.69E+00 | 1.37E+01 | 2.26E+01 |
| 1.76E+00 | 3.49E-04 | 3.30E+01 | 1.52E+00 | 5.55E-01 | 2.91E+00 | 6.59E+00 | 1.35E+01 | 2.20E+01 |
| 1.86E+00 | 3.45E-04 | 3.20E+01 | 1.50E+00 | 5.48E-01 | 2.87E+00 | 6.49E+00 | 1.32E+01 | 2.14E+01 |
| 1.97E+00 | 3.41E-04 | 3.10E+01 | 1.47E+00 | 5.40E-01 | 2.83E+00 | 6.38E+00 | 1.29E+01 | 2.07E+01 |
| 2.09E+00 | 3.36E-04 | 3.00E+01 | 1.44E+00 | 5.32E-01 | 2.78E+00 | 6.26E+00 | 1.27E+01 | 2.00E+01 |
| 2.21E+00 | 3.32E-04 | 2.90E+01 | 1.41E+00 | 5.24E-01 | 2.74E+00 | 6.15E+00 | 1.24E+01 | 1.93E+01 |
| 2.34E+00 | 3.27E-04 | 2.79E+01 | 1.38E+00 | 5.15E-01 | 2.69E+00 | 6.02E+00 | 1.21E+01 | 1.86E+01 |
| 2.47E+00 | 3.22E-04 | 2.68E+01 | 1.34E+00 | 5.06E-01 | 2.64E+00 | 5.90E+00 | 1.18E+01 | 1.79E+01 |
| 2.62E+00 | 3.17E-04 | 2.57E+01 | 1.31E+00 | 4.96E-01 | 2.59E+00 | 5.77E+00 | 1.14E+01 | 1.72E+01 |
| 2.77E+00 | 3.11E-04 | 2.46E+01 | 1.27E+00 | 4.86E-01 | 2.53E+00 | 5.63E+00 | 1.11E+01 | 1.65E+01 |
| 2.93E+00 | 3.06E-04 | 2.35E+01 | 1.24E+00 | 4.76E-01 | 2.48E+00 | 5.49E+00 | 1.08E+01 | 1.57E+01 |
| 3.00E+00 | 3.03E-04 | 2.30E+01 | 1.23E+00 | 4.72E-01 | 2.45E+00 | 5.43E+00 | 1.06E+01 | 1.54E+01 |
| 3.10E+00 | 3.00E-04 | 2.23E+01 | 1.20E+00 | 4.66E-01 | 2.42E+00 | 5.35E+00 | 1.04E+01 | 1.50E+01 |
| 3.28E+00 | 2.94E-04 | 2.12E+01 | 1.17E+00 | 4.55E-01 | 2.36E+00 | 5.20E+00 | 1.01E+01 | 1.41E+01 |
| 3.48E+00 | 2.88E-04 | 2.00E+01 | 1.13E+00 | 4.44E-01 | 2.30E+00 | 5.04E+00 | 9.71E+00 | 1.34E+01 |
| 3.68E+00 | 2.81E-04 | 1.89E+01 | 1.09E+00 | 4.32E-01 | 2.24E+00 | 4.89E+00 | 9.34E+00 | 1.27E+01 |
| 3.89E+00 | 2.74E-04 | 1.78E+01 | 1.05E+00 | 4.20E-01 | 2.19E+00 | 4.73E+00 | 8.97E+00 | 1.19E+01 |
| 4.12E+00 | 2.67E-04 | 1.66E+01 | 1.01E+00 | 4.08E-01 | 2.12E+00 | 4.56E+00 | 8.59E+00 | 1.12E+01 |
| 4.36E+00 | 2.60E-04 | 1.55E+01 | 9.76E-01 | 3.96E-01 | 2.05E+00 | 4.39E+00 | 8.20E+00 | 1.05E+01 |
| 4.61E+00 | 2.53E-04 | 1.46E+01 | 9.37E-01 | 3.83E-01 | 1.98E+00 | 4.23E+00 | 7.81E+00 | 1.01E+01 |
| 4.88E+00 | 2.46E-04 | 1.38E+01 | 8.97E-01 | 3.69E-01 | 1.92E+00 | 4.25E+00 | 7.42E+00 | 9.62E+00 |
| 5.17E+00 | 2.38E-04 | 1.29E+01 | 8.58E-01 | 3.56E-01 | 1.85E+00 | 4.07E+00 | 7.02E+00 | 9.16E+00 |
| 5.47E+00 | 2.30E-04 | 1.21E+01 | 8.19E-01 | 3.42E-01 | 1.86E+00 | 3.89E+00 | 6.46E+00 | 8.69E+00 |
| 5.78E+00 | 2.22E-04 | 1.13E+01 | 7.79E-01 | 3.28E-01 | 1.78E+00 | 3.71E+00 | 6.03E+00 | 8.12E+00 |
| 6.12E+00 | 2.14E-04 | 1.05E+01 | 7.39E-01 | 3.14E-01 | 1.70E+00 | 3.57E+00 | 5.66E+00 | 7.54E+00 |
| 6.48E+00 | 2.06E-04 | 9.76E+00 | 6.98E-01 | 3.00E-01 | 1.61E+00 | 3.41E+00 | 5.29E+00 | 6.97E+00 |
| 6.86E+00 | 1.97E-04 | 9.00E+00 | 6.58E-01 | 2.85E-01 | 1.62E+00 | 3.25E+00 | 4.93E+00 | 6.42E+00 |
| 7.26E+00 | 1.87E-04 | 8.26E+00 | 6.18E-01 | 2.71E-01 | 1.53E+00 | 3.08E+00 | 4.50E+00 | 5.88E+00 |
| 7.68E+00 | 1.77E-04 | 7.54E+00 | 5.80E-01 | 2.56E-01 | 1.45E+00 | 2.89E+00 | 4.05E+00 | 5.36E+00 |
| 8.13E+00 | 1.67E-04 | 6.85E+00 | 5.41E-01 | 2.42E-01 | 1.36E+00 | 2.68E+00 | 3.68E+00 | 4.86E+00 |
| 8.60E+00 | 1.56E-04 | 6.19E+00 | 5.03E-01 | 2.28E-01 | 1.27E+00 | 2.55E+00 | 3.34E+00 | 4.38E+00 |
| 9.10E+00 | 1.47E-04 | 5.56E+00 | 4.65E-01 | 2.14E-01 | 1.22E+00 | 2.36E+00 | 2.99E+00 | 3.91E+00 |
| 9.63E+00 | 1.37E-04 | 4.96E+00 | 4.29E-01 | 1.99E-01 | 1.18E+00 | 2.17E+00 | 2.67E+00 | 3.50E+00 |
| 1.00E+01 | 1.30E-04 | 4.58E+00 | 4.05E-01 | 1.90E-01 | 1.12E+00 | 2.04E+00 | 2.50E+00 | 3.22E+00 |
| 1.02E+01 | 1.27E-04 | 4.39E+00 | 3.94E-01 | 1.85E-01 | 1.09E+00 | 1.99E+00 | 2.41E+00 | 3.09E+00 |
| 1.08E+01 | 1.17E-04 | 3.87E+00 | 3.60E-01 | 1.71E-01 | 1.01E+00 | 1.82E+00 | 2.15E+00 | 2.71E+00 |
| 1.14E+01 | 1.08E-04 | 3.38E+00 | 3.28E-01 | 1.58E-01 | 9.12E-01 | 1.59E+00 | 1.93E+00 | 2.38E+00 |
| 1.21E+01 | 9.91E-05 | 2.93E+00 | 2.97E-01 | 1.45E-01 | 8.28E-01 | 1.49E+00 | 1.71E+00 | 2.11E+00 |
| 1.28E+01 | 9.03E-05 | 2.52E+00 | 2.67E-01 | 1.32E-01 | 7.65E-01 | 1.32E+00 | 1.52E+00 | 1.84E+00 |
| 1.35E+01 | 8.19E-05 | 2.15E+00 | 2.39E-01 | 1.20E-01 | 6.89E-01 | 1.14E+00 | 1.35E+00 | 1.57E+00 |
| 1.43E+01 | 7.38E-05 | 1.87E+00 | 2.13E-01 | 1.09E-01 | 5.90E-01 | 1.01E+00 | 1.23E+00 | 1.37E+00 |
| 1.51E+01 | 6.62E-05 | 1.62E+00 | 1.88E-01 | 9.74E-02 | 5.13E-01 | 8.84E-01 | 1.09E+00 | 1.21E+00 |
| 1.60E+01 | 5.89E-05 | 1.39E+00 | 1.66E-01 | 8.68E-02 | 4.63E-01 | 7.50E-01 | 9.71E-01 | 1.04E+00 |
| 1.70E+01 | 5.21E-05 | 1.18E+00 | 1.45E-01 | 7.68E-02 | 3.96E-01 | 6.35E-01 | 8.59E-01 | 9.16E-01 |
| 1.80E+01 | 4.58E-05 | 9.95E-01 | 1.26E-01 | 6.75E-02 | 3.36E-01 | 5.42E-01 | 7.52E-01 | 8.03E-01 |
| 1.90E+01 | 3.99E-05 | 8.29E-01 | 1.08E-01 | 5.89E-02 | 2.89E-01 | 4.48E-01 | 6.57E-01 | 6.83E-01 |

2.01E+01 3.45E-05 6.84E-01 9.23E-02 5.09E-02 2.44E-01 3.78E-01 5.37E-01 5.90E-01

2.13E+01 2.96E-05 5.58E-01 7.82E-02 4.37E-02 2.09E-01 3.20E-01 4.30E-01 5.04E-01

2.25E+01 2.51E-05 4.50E-01 6.57E-02 3.72E-02 1.70E-01 2.62E-01 3.76E-01 4.28E-01

2.38E+01 2.12E-05 3.74E-01 5.47E-02 3.14E-02 1.42E-01 2.08E-01 3.16E-01 3.59E-01

2.52E+01 1.76E-05 3.09E-01 4.51E-02 2.61E-02 1.16E-01 1.73E-01 2.64E-01 2.95E-01

2.67E+01 1.45E-05 2.54E-01 3.68E-02 2.16E-02 9.43E-02 1.43E-01 2.28E-01 2.43E-01

2.82E+01 1.18E-05 2.05E-01 2.97E-02 1.76E-02 7.58E-02 1.13E-01 1.95E-01 1.98E-01

2.99E+01 9.54E-06 1.64E-01 2.36E-02 1.42E-02 5.89E-02 8.63E-02 1.56E-01 1.59E-01

3.00E+01 9.40E-06 1.62E-01 2.32E-02 1.39E-02 5.78E-02 8.47E-02 1.54E-01 1.57E-01

3.16E+01 7.59E-06 1.30E-01 1.85E-02 1.13E-02 4.37E-02 6.51E-02 1.24E-01 1.27E-01

3.35E+01 5.96E-06 1.01E-01 1.44E-02 8.86E-03 3.35E-02 4.94E-02 9.67E-02 9.92E-02

3.54E+01 4.61E-06 7.76E-02 1.10E-02 6.86E-03 2.50E-02 3.73E-02 7.45E-02 7.65E-02

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3.75E+01 | 3.52E-06 | 5.89E-02 | 8.30E-03 | 5.22E-03 | 1.77E-02 | 2.70E-02 | 5.65E-02 | 5.81E-02 |
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3.97E+01 2.64E-06 4.41E-02 6.16E-03 3.93E-03 1.30E-02 1.92E-02 4.34E-02 4.36E-02

4.20E+01 1.95E-06 3.25E-02 4.50E-03 2.90E-03 9.62E-03 1.37E-02 3.19E-02 3.21E-02

4.44E+01 1.41E-06 2.35E-02 3.23E-03 2.10E-03 6.73E-03 1.00E-02 2.30E-02 2.32E-02

4.70E+01 1.01E-06 1.67E-02 2.28E-03 1.50E-03 4.69E-03 6.78E-03 1.63E-02 1.65E-02

4.97E+01 7.02E-07 1.16E-02 1.57E-03 1.04E-03 3.13E-03 4.62E-03 1.13E-02 1.15E-02

5.26E+01 3.21E-07 7.90E-03 1.07E-03 7.14E-04 2.10E-03 3.04E-03 7.68E-03 7.88E-03

5.57E+01 1.07E-07 5.27E-03 7.05E-04 4.78E-04 1.38E-03 1.98E-03 5.10E-03 5.26E-03

5.90E+01 3.38E-08 3.44E-03 4.56E-04 3.13E-04 8.76E-04 1.28E-03 3.30E-03 3.44E-03

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| 6.24E+01 | 9.93E-09 | 2.19E-03 | 2.89E-04 | 1.99E-04 | 5.42E-04 | 7.97E-04 | 2.09E-03 | 2.19E-03 |
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6.60E+01 2.72E-09 1.36E-03 1.79E-04 1.23E-04 3.32E-04 4.77E-04 1.31E-03 1.36E-03

6.99E+01 6.90E-10 8.18E-04 1.07E-04 7.47E-05 1.94E-04 2.78E-04 8.08E-04 8.18E-04

7.39E+01 1.62E-10 4.79E-04 6.24E-05 4.38E-05 1.10E-04 1.58E-04 4.71E-04 4.79E-04

7.82E+01 3.48E-11 2.72E-04 3.52E-05 2.49E-05 6.09E-05 8.53E-05 2.69E-04 2.72E-04

8.28E+01 6.85E-12 1.49E-04 1.91E-05 1.37E-05 3.19E-05 4.57E-05 1.47E-04 1.49E-04

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| 8.76E+01 | 1.23E-12 | 7.92E-05 | 1.01E-05 | 7.28E-06 | 1.62E-05 | 2.33E-05 | 7.79E-05 | 7.91E-05 |
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| 9.27E+01 | 1.99E-13 | 4.05E-05 | 5.14E-06 | 3.72E-06 | 8.08E-06 | 1.15E-05 | 3.97E-05 | 4.04E-05 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

9.81E+01 2.90E-14 1.99E-05 2.51E-06 1.83E-06 3.79E-06 5.87E-06 1.95E-05 1.99E-05

1.00E+02 1.49E-14 1.55E-05 1.96E-06 1.43E-06 2.95E-06 4.68E-06 1.52E-05 1.55E-05

1.04E+02 3.78E-15 9.38E-06 1.18E-06 8.68E-07 1.74E-06 2.74E-06 9.17E-06 9.37E-06

1.10E+02 4.37E-16 4.23E-06 5.31E-07 3.92E-07 7.60E-07 1.18E-06 4.13E-06 4.23E-06

1.16E+02 4.46E-17 1.82E-06 2.28E-07 1.69E-07 3.16E-07 4.87E-07 1.79E-06 1.82E-06

1.23E+02 3.98E-18 7.48E-07 9.36E-08 6.95E-08 1.25E-07 1.89E-07 7.34E-07 7.47E-07

1.30E+02 3.09E-19 2.91E-07 3.65E-08 2.73E-08 4.76E-08 6.95E-08 2.85E-07 2.91E-07

1.38E+02 2.06E-20 1.07E-07 1.35E-08 1.01E-08 1.75E-08 2.41E-08 1.06E-07 1.07E-07

1.46E+02 1.18E-21 3.74E-08 4.72E-09 3.52E-09 6.46E-09 8.23E-09 3.68E-08 3.73E-08

1.54E+02 5.70E-23 1.22E-08 1.56E-09 1.16E-09 2.17E-09 2.98E-09 1.20E-08 1.22E-08

1.63E+02 2.31E-24 3.75E-09 4.88E-10 3.55E-10 6.90E-10 1.23E-09 3.67E-09 3.74E-09

1.73E+02 7.76E-26 1.07E-09 1.45E-10 1.02E-10 2.15E-10 5.14E-10 1.05E-09 1.07E-09

1.83E+02 2.14E-27 2.85E-10 4.14E-11 2.73E-11 7.03E-11 1.80E-10 2.79E-10 2.84E-10

1.94E+02 4.75E-29 7.03E-11 1.12E-11 6.82E-12 2.35E-11 6.15E-11 6.93E-11 7.00E-11

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| 2.05E+02 | 0.00E+00 | 1.59E-11 | 2.74E-12 | 1.55E-12 | 7.76E-12 | 1.50E-11 | 1.57E-11 | 1.59E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.17E+02 0.00E+00 3.32E-12 6.18E-13 3.25E-13 1.96E-12 3.19E-12 3.28E-12 3.32E-12

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| 2.29E+02 | 0.00E+00 | 6.31E-13 | 1.26E-13 | 6.17E-14 | 4.89E-13 | 6.12E-13 | 6.27E-13 | 6.30E-13 |
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| 2.43E+02 | 0.00E+00 | 1.09E-13 | 2.34E-14 | 1.07E-14 | 9.72E-14 | 1.06E-13 | 1.08E-13 | 1.09E-13 |
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| 2.57E+02 | 0.00E+00 | 1.69E-14 | 3.87E-15 | 1.66E-15 | 1.59E-14 | 1.67E-14 | 1.69E-14 | 1.69E-14 |
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| 2.72E+02 | 0.00E+00 | 2.36E-15 | 5.67E-16 | 2.29E-16 | 2.23E-15 | 2.34E-15 | 2.36E-15 | 2.36E-15 |
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| 2.88E+02 | 0.00E+00 | 2.95E-16 | 7.41E-17 | 2.85E-17 | 2.82E-16 | 2.92E-16 | 2.94E-16 | 2.94E-16 |
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| 3.00E+02 | 0.00E+00 | 5.88E-17 | 1.53E-17 | 5.70E-18 | 5.70E-17 | 5.85E-17 | 5.87E-17 | 5.88E-17 |
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| 3.05E+02 | 0.00E+00 | 3.25E-17 | 8.53E-18 | 3.15E-18 | 3.16E-17 | 3.23E-17 | 3.24E-17 | 3.25E-17 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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| 3.22E+02 | 0.00E+00 | 3.15E-18 | 8.62E-19 | 3.07E-19 | 3.07E-18 | 3.13E-18 | 3.15E-18 | 3.15E-18 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

3.41E+02 0.00E+00 2.67E-19 7.63E-20 2.65E-20 2.61E-19 2.66E-19 2.67E-19 2.67E-19

3.61E+02 0.00E+00 1.96E-20 5.84E-21 1.93E-21 1.91E-20 1.95E-20 1.96E-20 1.96E-20

3.82E+02 0.00E+00 1.23E-21 3.82E-22 1.23E-22 1.21E-21 1.23E-21 1.23E-21 1.23E-21

4.04E+02 0.00E+00 6.62E-23 2.11E-23 6.72E-24 6.50E-23 6.59E-23 6.61E-23 6.62E-23

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.28E+02 | 0.00E+00 | 2.99E-24 | 9.85E-25 | 3.06E-25 | 2.94E-24 | 2.98E-24 | 2.99E-24 | 2.99E-24 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

4.53E+02 0.00E+00 1.13E-25 3.80E-26 1.17E-26 1.11E-25 1.13E-25 1.13E-25 1.13E-25

4.79E+02 0.00E+00 3.53E-27 1.22E-27 3.67E-28 3.47E-27 3.52E-27 3.52E-27 3.53E-27

5.07E+02 0.00E+00 8.99E-29 3.10E-29 8.78E-30 8.86E-29 8.96E-29 8.97E-29 8.99E-29

5.36E+02 0.00E+00 1.61E-30 4.56E-31 0.00E+00 1.59E-30 1.61E-30 1.61E-30 1.61E-30

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6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
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[illegible]

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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 | 4.53E-04 | 6.18E+01 | 2.13E+00 | 7.07E-01 | 3.72E+00 | 8.64E+00 | 1.87E+01 | 3.32E+01 |
| 1.00E+00 | 4.00E-04 | 4.58E+01 | 1.78E+00 | 6.21E-01 | 3.23E+00 | 7.41E+00 | 1.56E+01 | 2.69E+01 |
| 1.06E+00 | 3.97E-04 | 4.50E+01 | 1.76E+00 | 6.17E-01 | 3.21E+00 | 7.34E+00 | 1.54E+01 | 2.66E+01 |
| 1.12E+00 | 3.94E-04 | 4.42E+01 | 1.74E+00 | 6.12E-01 | 3.18E+00 | 7.27E+00 | 1.53E+01 | 2.62E+01 |
| 1.19E+00 | 3.91E-04 | 4.34E+01 | 1.72E+00 | 6.06E-01 | 3.15E+00 | 7.20E+00 | 1.51E+01 | 2.58E+01 |
| 1.25E+00 | 3.87E-04 | 4.25E+01 | 1.70E+00 | 6.01E-01 | 3.12E+00 | 7.13E+00 | 1.49E+01 | 2.55E+01 |
| 1.33E+00 | 3.84E-04 | 4.16E+01 | 1.68E+00 | 5.95E-01 | 3.09E+00 | 7.05E+00 | 1.47E+01 | 2.51E+01 |
| 1.40E+00 | 3.80E-04 | 4.06E+01 | 1.66E+00 | 5.89E-01 | 3.06E+00 | 6.97E+00 | 1.45E+01 | 2.47E+01 |
| 1.49E+00 | 3.76E-04 | 3.96E+01 | 1.63E+00 | 5.83E-01 | 3.02E+00 | 6.88E+00 | 1.43E+01 | 2.43E+01 |
| 1.57E+00 | 3.72E-04 | 3.86E+01 | 1.61E+00 | 5.76E-01 | 2.99E+00 | 6.79E+00 | 1.40E+01 | 2.38E+01 |
| 1.66E+00 | 3.68E-04 | 3.76E+01 | 1.58E+00 | 5.69E-01 | 2.95E+00 | 6.70E+00 | 1.38E+01 | 2.34E+01 |
| 1.76E+00 | 3.63E-04 | 3.65E+01 | 1.55E+00 | 5.62E-01 | 2.91E+00 | 6.60E+00 | 1.35E+01 | 2.29E+01 |
| 1.86E+00 | 3.59E-04 | 3.54E+01 | 1.53E+00 | 5.55E-01 | 2.87E+00 | 6.50E+00 | 1.33E+01 | 2.24E+01 |
| 1.97E+00 | 3.54E-04 | 3.43E+01 | 1.50E+00 | 5.47E-01 | 2.83E+00 | 6.40E+00 | 1.30E+01 | 2.19E+01 |
| 2.09E+00 | 3.49E-04 | 3.31E+01 | 1.47E+00 | 5.39E-01 | 2.78E+00 | 6.29E+00 | 1.28E+01 | 2.14E+01 |
| 2.21E+00 | 3.44E-04 | 3.19E+01 | 1.44E+00 | 5.30E-01 | 2.74E+00 | 6.17E+00 | 1.25E+01 | 2.08E+01 |
| 2.34E+00 | 3.38E-04 | 3.07E+01 | 1.40E+00 | 5.21E-01 | 2.69E+00 | 6.05E+00 | 1.22E+01 | 2.03E+01 |
| 2.47E+00 | 3.32E-04 | 2.95E+01 | 1.37E+00 | 5.13E-01 | 2.64E+00 | 5.93E+00 | 1.19E+01 | 1.97E+01 |
| 2.62E+00 | 3.27E-04 | 2.83E+01 | 1.34E+00 | 5.03E-01 | 2.59E+00 | 5.80E+00 | 1.16E+01 | 1.91E+01 |
| 2.77E+00 | 3.20E-04 | 2.70E+01 | 1.30E+00 | 4.93E-01 | 2.53E+00 | 5.67E+00 | 1.12E+01 | 1.85E+01 |
| 2.93E+00 | 3.14E-04 | 2.57E+01 | 1.27E+00 | 4.83E-01 | 2.48E+00 | 5.54E+00 | 1.09E+01 | 1.76E+01 |
| 3.00E+00 | 3.11E-04 | 2.52E+01 | 1.25E+00 | 4.79E-01 | 2.46E+00 | 5.48E+00 | 1.08E+01 | 1.71E+01 |
| 3.10E+00 | 3.07E-04 | 2.45E+01 | 1.23E+00 | 4.72E-01 | 2.42E+00 | 5.39E+00 | 1.06E+01 | 1.68E+01 |
| 3.28E+00 | 3.00E-04 | 2.32E+01 | 1.19E+00 | 4.61E-01 | 2.36E+00 | 5.25E+00 | 1.02E+01 | 1.62E+01 |
| 3.48E+00 | 2.93E-04 | 2.19E+01 | 1.15E+00 | 4.50E-01 | 2.30E+00 | 5.10E+00 | 9.88E+00 | 1.56E+01 |
| 3.68E+00 | 2.86E-04 | 2.06E+01 | 1.12E+00 | 4.38E-01 | 2.24E+00 | 4.95E+00 | 9.51E+00 | 1.50E+01 |
| 3.89E+00 | 2.78E-04 | 1.95E+01 | 1.08E+00 | 4.26E-01 | 2.17E+00 | 4.79E+00 | 9.14E+00 | 1.44E+01 |
| 4.12E+00 | 2.71E-04 | 1.86E+01 | 1.04E+00 | 4.14E-01 | 2.11E+00 | 4.63E+00 | 8.77E+00 | 1.38E+01 |
| 4.36E+00 | 2.63E-04 | 1.77E+01 | 9.98E-01 | 4.01E-01 | 2.05E+00 | 4.46E+00 | 8.39E+00 | 1.32E+01 |
| 4.61E+00 | 2.54E-04 | 1.68E+01 | 9.59E-01 | 3.88E-01 | 1.98E+00 | 4.30E+00 | 8.01E+00 | 1.23E+01 |
| 4.88E+00 | 2.46E-04 | 1.59E+01 | 9.20E-01 | 3.75E-01 | 1.90E+00 | 4.13E+00 | 7.62E+00 | 1.14E+01 |
| 5.17E+00 | 2.37E-04 | 1.50E+01 | 8.80E-01 | 3.61E-01 | 1.84E+00 | 4.13E+00 | 7.23E+00 | 1.07E+01 |
| 5.47E+00 | 2.29E-04 | 1.41E+01 | 8.40E-01 | 3.47E-01 | 1.86E+00 | 3.99E+00 | 6.84E+00 | 1.01E+01 |
| 5.78E+00 | 2.20E-04 | 1.33E+01 | 8.00E-01 | 3.33E-01 | 1.78E+00 | 3.82E+00 | 6.31E+00 | 9.49E+00 |
| 6.12E+00 | 2.11E-04 | 1.24E+01 | 7.60E-01 | 3.19E-01 | 1.70E+00 | 3.64E+00 | 5.83E+00 | 8.90E+00 |
| 6.48E+00 | 2.02E-04 | 1.15E+01 | 7.18E-01 | 3.04E-01 | 1.61E+00 | 3.50E+00 | 5.48E+00 | 8.33E+00 |
| 6.86E+00 | 1.92E-04 | 1.07E+01 | 6.77E-01 | 2.89E-01 | 1.62E+00 | 3.33E+00 | 5.14E+00 | 7.76E+00 |
| 7.26E+00 | 1.83E-04 | 9.84E+00 | 6.36E-01 | 2.75E-01 | 1.54E+00 | 3.15E+00 | 4.77E+00 | 7.06E+00 |
| 7.68E+00 | 1.74E-04 | 9.03E+00 | 5.96E-01 | 2.60E-01 | 1.45E+00 | 2.98E+00 | 4.40E+00 | 6.23E+00 |
| 8.13E+00 | 1.64E-04 | 8.25E+00 | 5.56E-01 | 2.45E-01 | 1.40E+00 | 2.75E+00 | 4.08E+00 | 5.45E+00 |
| 8.60E+00 | 1.55E-04 | 7.49E+00 | 5.18E-01 | 2.30E-01 | 1.31E+00 | 2.59E+00 | 3.76E+00 | 4.73E+00 |
| 9.10E+00 | 1.45E-04 | 6.77E+00 | 4.80E-01 | 2.16E-01 | 1.22E+00 | 2.43E+00 | 3.40E+00 | 4.08E+00 |
| 9.63E+00 | 1.36E-04 | 6.08E+00 | 4.43E-01 | 2.01E-01 | 1.14E+00 | 2.28E+00 | 3.00E+00 | 3.65E+00 |
| 1.00E+01 | 1.30E-04 | 5.64E+00 | 4.19E-01 | 1.92E-01 | 1.08E+00 | 2.17E+00 | 2.76E+00 | 3.40E+00 |
| 1.02E+01 | 1.27E-04 | 5.43E+00 | 4.07E-01 | 1.87E-01 | 1.05E+00 | 2.14E+00 | 2.66E+00 | 3.28E+00 |
| 1.08E+01 | 1.18E-04 | 4.81E+00 | 3.72E-01 | 1.73E-01 | 9.68E-01 | 1.96E+00 | 2.38E+00 | 2.93E+00 |
| 1.14E+01 | 1.09E-04 | 4.24E+00 | 3.38E-01 | 1.60E-01 | 8.87E-01 | 1.79E+00 | 2.08E+00 | 2.61E+00 |
| 1.21E+01 | 1.00E-04 | 3.70E+00 | 3.07E-01 | 1.46E-01 | 8.09E-01 | 1.58E+00 | 1.88E+00 | 2.30E+00 |
| 1.28E+01 | 9.20E-05 | 3.21E+00 | 2.77E-01 | 1.33E-01 | 7.34E-01 | 1.40E+00 | 1.66E+00 | 2.01E+00 |
| 1.35E+01 | 8.38E-05 | 2.76E+00 | 2.49E-01 | 1.21E-01 | 6.77E-01 | 1.24E+00 | 1.47E+00 | 1.79E+00 |
| 1.43E+01 | 7.60E-05 | 2.35E+00 | 2.22E-01 | 1.09E-01 | 5.97E-01 | 1.09E+00 | 1.30E+00 | 1.58E+00 |
| 1.51E+01 | 6.85E-05 | 1.99E+00 | 1.97E-01 | 9.79E-02 | 5.30E-01 | 9.85E-01 | 1.15E+00 | 1.38E+00 |
| 1.60E+01 | 6.14E-05 | 1.66E+00 | 1.72E-01 | 8.72E-02 | 4.69E-01 | 8.26E-01 | 1.01E+00 | 1.20E+00 |
| 1.70E+01 | 5.47E-05 | 1.37E+00 | 1.51E-01 | 7.71E-02 | 4.03E-01 | 7.08E-01 | 8.83E-01 | 1.04E+00 |
| 1.80E+01 | 4.84E-05 | 1.12E+00 | 1.31E-01 | 6.77E-02 | 3.49E-01 | 6.34E-01 | 7.58E-01 | 8.86E-01 |
| 1.90E+01 | 4.25E-05 | 9.10E-01 | 1.12E-01 | 5.90E-02 | 3.01E-01 | 5.21E-01 | 6.59E-01 | 7.51E-01 |

2.01E+01 3.71E-05 7.27E-01 9.60E-02 5.11E-02 2.58E-01 4.25E-01 5.70E-01 6.31E-01

2.13E+01 3.21E-05 5.73E-01 8.13E-02 4.38E-02 2.16E-01 3.67E-01 4.88E-01 5.21E-01

2.25E+01 2.75E-05 4.56E-01 6.81E-02 3.73E-02 1.79E-01 3.01E-01 4.14E-01 4.30E-01

2.38E+01 2.34E-05 3.82E-01 5.66E-02 3.14E-02 1.49E-01 2.42E-01 3.48E-01 3.55E-01

2.52E+01 1.96E-05 3.58E-01 4.66E-02 2.62E-02 1.20E-01 1.94E-01 2.90E-01 2.96E-01

2.67E+01 1.62E-05 3.11E-01 3.80E-02 2.16E-02 9.60E-02 1.55E-01 2.35E-01 2.44E-01

2.82E+01 1.32E-05 2.51E-01 3.05E-02 1.76E-02 7.62E-02 1.23E-01 1.94E-01 1.99E-01

2.99E+01 1.07E-05 2.00E-01 2.42E-02 1.42E-02 5.94E-02 9.59E-02 1.55E-01 1.60E-01

3.00E+01 1.05E-05 1.97E-01 2.38E-02 1.40E-02 5.83E-02 9.42E-02 1.53E-01 1.57E-01

3.16E+01 8.49E-06 1.57E-01 1.89E-02 1.13E-02 4.56E-02 7.22E-02 1.23E-01 1.27E-01

3.35E+01 6.67E-06 1.22E-01 1.47E-02 8.90E-03 3.45E-02 5.29E-02 9.54E-02 9.97E-02

3.54E+01 5.17E-06 9.34E-02 1.12E-02 6.89E-03 2.59E-02 3.68E-02 7.32E-02 7.70E-02

3.75E+01 3.95E-06 7.03E-02 8.41E-03 5.25E-03 1.95E-02 2.68E-02 5.53E-02 5.83E-02

3.97E+01 2.97E-06 5.21E-02 6.25E-03 3.94E-03 1.40E-02 1.97E-02 4.11E-02 4.35E-02

4.20E+01 2.20E-06 3.79E-02 4.58E-03 2.92E-03 1.02E-02 1.42E-02 3.18E-02 3.21E-02

4.44E+01 1.60E-06 2.71E-02 3.28E-03 2.12E-03 7.09E-03 9.78E-03 2.31E-02 2.35E-02

4.70E+01 1.14E-06 1.90E-02 2.30E-03 1.51E-03 4.79E-03 6.75E-03 1.64E-02 1.67E-02

4.97E+01 7.97E-07 1.30E-02 1.59E-03 1.05E-03 3.28E-03 4.71E-03 1.15E-02 1.16E-02

5.26E+01 3.44E-07 8.73E-03 1.08E-03 7.22E-04 2.18E-03 3.12E-03 7.82E-03 7.89E-03

5.57E+01 1.15E-07 5.73E-03 7.16E-04 4.82E-04 1.37E-03 1.97E-03 5.23E-03 5.27E-03

5.90E+01 3.61E-08 3.67E-03 4.62E-04 3.15E-04 8.70E-04 1.25E-03 3.39E-03 3.44E-03

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6.24E+01 | 1.06E-08 | 2.28E-03 | 2.90E-04 | 2.00E-04 | 5.40E-04 | 7.49E-04 | 2.15E-03 | 2.19E-03 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

6.60E+01 2.89E-09 1.39E-03 1.76E-04 1.24E-04 3.25E-04 4.36E-04 1.33E-03 1.36E-03

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6.99E+01 | 0.00E+00 | 8.21E-04 | 1.05E-04 | 7.48E-05 | 1.91E-04 | 2.55E-04 | 7.97E-04 | 8.17E-04 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

7.39E+01 0.00E+00 4.80E-04 6.12E-05 4.40E-05 1.06E-04 1.44E-04 4.64E-04 4.78E-04

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7.82E+01 | 0.00E+00 | 2.72E-04 | 3.46E-05 | 2.50E-05 | 5.94E-05 | 7.81E-05 | 2.62E-04 | 2.72E-04 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8.28E+01 | 0.00E+00 | 1.49E-04 | 1.89E-05 | 1.37E-05 | 3.12E-05 | 4.14E-05 | 1.45E-04 | 1.49E-04 |
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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8.76E+01 | 0.00E+00 | 7.92E-05 | 9.95E-06 | 7.29E-06 | 1.61E-05 | 2.09E-05 | 7.68E-05 | 7.89E-05 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

9.27E+01 0.00E+00 4.05E-05 5.05E-06 3.73E-06 7.83E-06 1.04E-05 3.95E-05 4.03E-05

9.81E+01 0.00E+00 1.99E-05 2.46E-06 1.84E-06 3.68E-06 5.00E-06 1.94E-05 1.98E-05

1.00E+02 0.00E+00 1.55E-05 1.92E-06 1.44E-06 2.85E-06 3.90E-06 1.51E-05 1.55E-05

1.04E+02 0.00E+00 9.38E-06 1.16E-06 8.70E-07 1.67E-06 2.34E-06 9.09E-06 9.33E-06

1.10E+02 0.00E+00 4.23E-06 5.18E-07 3.91E-07 7.32E-07 1.03E-06 4.09E-06 4.21E-06

1.16E+02 0.00E+00 1.82E-06 2.22E-07 1.68E-07 3.06E-07 4.29E-07 1.76E-06 1.81E-06

1.23E+02 0.00E+00 7.48E-07 9.14E-08 6.94E-08 1.21E-07 1.71E-07 7.33E-07 7.45E-07

1.30E+02 0.00E+00 2.91E-07 3.55E-08 2.69E-08 4.70E-08 6.48E-08 2.85E-07 2.90E-07

1.38E+02 0.00E+00 1.07E-07 1.31E-08 1.00E-08 1.73E-08 2.67E-08 1.05E-07 1.07E-07

1.46E+02 0.00E+00 3.74E-08 4.62E-09 3.47E-09 6.34E-09 8.95E-09 3.63E-08 3.72E-08

1.54E+02 0.00E+00 1.22E-08 1.54E-09 1.15E-09 2.15E-09 3.11E-09 1.20E-08 1.22E-08

1.63E+02 0.00E+00 3.75E-09 4.84E-10 3.51E-10 7.28E-10 1.22E-09 3.66E-09 3.73E-09

1.73E+02 0.00E+00 1.07E-09 1.45E-10 1.01E-10 2.47E-10 4.76E-10 1.05E-09 1.07E-09

1.83E+02 0.00E+00 2.85E-10 4.14E-11 2.70E-11 8.11E-11 1.87E-10 2.77E-10 2.84E-10

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.94E+02 | 0.00E+00 | 7.03E-11 | 1.11E-11 | 6.67E-12 | 2.46E-11 | 6.19E-11 | 6.92E-11 | 7.02E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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| 2.05E+02 | 0.00E+00 | 1.59E-11 | 2.75E-12 | 1.54E-12 | 7.94E-12 | 1.52E-11 | 1.58E-11 | 1.59E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.17E+02 0.00E+00 3.32E-12 6.17E-13 3.22E-13 2.20E-12 3.23E-12 3.28E-12 3.32E-12

2.29E+02 0.00E+00 6.31E-13 1.26E-13 6.16E-14 5.33E-13 6.17E-13 6.27E-13 6.30E-13

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.43E+02 | 0.00E+00 | 1.09E-13 | 2.32E-14 | 1.06E-14 | 9.58E-14 | 1.07E-13 | 1.08E-13 | 1.09E-13 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.57E+02 0.00E+00 1.69E-14 3.82E-15 1.64E-15 1.57E-14 1.67E-14 1.69E-14 1.69E-14

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.72E+02 | 0.00E+00 | 2.36E-15 | 5.60E-16 | 2.31E-16 | 2.21E-15 | 2.34E-15 | 2.36E-15 | 2.36E-15 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.88E+02 | 0.00E+00 | 2.95E-16 | 7.35E-17 | 2.91E-17 | 2.79E-16 | 2.91E-16 | 2.94E-16 | 2.94E-16 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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| 3.00E+02 | 0.00E+00 | 5.88E-17 | 1.53E-17 | 5.83E-18 | 5.63E-17 | 5.82E-17 | 5.87E-17 | 5.88E-17 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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| 3.05E+02 | 0.00E+00 | 3.25E-17 | 8.54E-18 | 3.22E-18 | 3.13E-17 | 3.22E-17 | 3.24E-17 | 3.25E-17 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3.22E+02 | 0.00E+00 | 3.15E-18 | 8.69E-19 | 3.14E-19 | 3.05E-18 | 3.14E-18 | 3.14E-18 | 3.15E-18 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

3.41E+02 0.00E+00 2.67E-19 7.67E-20 2.69E-20 2.60E-19 2.66E-19 2.67E-19 2.67E-19

3.61E+02 0.00E+00 1.96E-20 5.82E-21 2.00E-21 1.91E-20 1.95E-20 1.95E-20 1.96E-20

3.82E+02 0.00E+00 1.23E-21 3.80E-22 1.26E-22 1.20E-21 1.23E-21 1.23E-21 1.23E-21

4.04E+02 0.00E+00 6.62E-23 2.10E-23 6.79E-24 6.48E-23 6.58E-23 6.60E-23 6.61E-23

4.28E+02 0.00E+00 2.99E-24 9.83E-25 3.10E-25 2.93E-24 2.98E-24 2.99E-24 2.99E-24

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.53E+02 | 0.00E+00 | 1.13E-25 | 3.81E-26 | 1.18E-26 | 1.11E-25 | 1.12E-25 | 1.13E-25 | 1.13E-25 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

4.79E+02 0.00E+00 3.53E-27 1.23E-27 3.83E-28 3.45E-27 3.51E-27 3.52E-27 3.52E-27

5.07E+02 0.00E+00 8.99E-29 3.14E-29 9.29E-30 8.78E-29 8.93E-29 8.96E-29 8.98E-29

5.36E+02 0.00E+00 1.61E-30 4.68E-31 0.00E+00 1.58E-30 1.60E-30 1.61E-30 1.61E-30

[illegible]

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6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

```
7.53E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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 | 2.40E-04 | 5.60E+01 | 2.15E+00 | 7.05E-01 | 3.76E+00 | 8.79E+00 | 1.84E+01 | 4.08E+01 |
| 1.00E+00 | 2.13E-04 | 4.10E+01 | 1.79E+00 | 6.18E-01 | 3.26E+00 | 7.59E+00 | 1.52E+01 | 3.22E+01 |
| 1.06E+00 | 2.12E-04 | 4.03E+01 | 1.77E+00 | 6.13E-01 | 3.24E+00 | 7.53E+00 | 1.50E+01 | 3.17E+01 |
| 1.12E+00 | 2.10E-04 | 3.95E+01 | 1.75E+00 | 6.08E-01 | 3.21E+00 | 7.46E+00 | 1.49E+01 | 3.12E+01 |
| 1.19E+00 | 2.08E-04 | 3.87E+01 | 1.73E+00 | 6.03E-01 | 3.18E+00 | 7.39E+00 | 1.47E+01 | 3.05E+01 |
| 1.25E+00 | 2.07E-04 | 3.79E+01 | 1.71E+00 | 5.98E-01 | 3.15E+00 | 7.32E+00 | 1.45E+01 | 2.98E+01 |
| 1.33E+00 | 2.05E-04 | 3.70E+01 | 1.69E+00 | 5.92E-01 | 3.12E+00 | 7.24E+00 | 1.43E+01 | 2.90E+01 |
| 1.40E+00 | 2.03E-04 | 3.61E+01 | 1.66E+00 | 5.86E-01 | 3.09E+00 | 7.16E+00 | 1.41E+01 | 2.82E+01 |
| 1.49E+00 | 2.01E-04 | 3.52E+01 | 1.64E+00 | 5.80E-01 | 3.05E+00 | 7.07E+00 | 1.39E+01 | 2.75E+01 |
| 1.57E+00 | 1.99E-04 | 3.44E+01 | 1.61E+00 | 5.73E-01 | 3.01E+00 | 6.98E+00 | 1.37E+01 | 2.70E+01 |
| 1.66E+00 | 1.97E-04 | 3.36E+01 | 1.59E+00 | 5.67E-01 | 2.98E+00 | 6.89E+00 | 1.34E+01 | 2.64E+01 |
| 1.76E+00 | 1.95E-04 | 3.29E+01 | 1.56E+00 | 5.59E-01 | 2.94E+00 | 6.79E+00 | 1.32E+01 | 2.58E+01 |
| 1.86E+00 | 1.92E-04 | 3.21E+01 | 1.53E+00 | 5.52E-01 | 2.90E+00 | 6.69E+00 | 1.29E+01 | 2.51E+01 |
| 1.97E+00 | 1.90E-04 | 3.13E+01 | 1.50E+00 | 5.44E-01 | 2.85E+00 | 6.59E+00 | 1.27E+01 | 2.45E+01 |
| 2.09E+00 | 1.87E-04 | 3.04E+01 | 1.47E+00 | 5.36E-01 | 2.81E+00 | 6.48E+00 | 1.24E+01 | 2.38E+01 |
| 2.21E+00 | 1.84E-04 | 2.96E+01 | 1.44E+00 | 5.28E-01 | 2.76E+00 | 6.36E+00 | 1.21E+01 | 2.31E+01 |
| 2.34E+00 | 1.82E-04 | 2.87E+01 | 1.41E+00 | 5.19E-01 | 2.71E+00 | 6.24E+00 | 1.18E+01 | 2.24E+01 |
| 2.47E+00 | 1.79E-04 | 2.78E+01 | 1.37E+00 | 5.10E-01 | 2.66E+00 | 6.12E+00 | 1.15E+01 | 2.17E+01 |
| 2.62E+00 | 1.76E-04 | 2.68E+01 | 1.34E+00 | 5.00E-01 | 2.61E+00 | 5.99E+00 | 1.13E+01 | 2.10E+01 |
| 2.77E+00 | 1.72E-04 | 2.59E+01 | 1.30E+00 | 4.90E-01 | 2.55E+00 | 5.86E+00 | 1.10E+01 | 2.02E+01 |
| 2.93E+00 | 1.69E-04 | 2.49E+01 | 1.27E+00 | 4.80E-01 | 2.50E+00 | 5.72E+00 | 1.07E+01 | 1.94E+01 |
| 3.00E+00 | 1.68E-04 | 2.45E+01 | 1.25E+00 | 4.76E-01 | 2.48E+00 | 5.67E+00 | 1.05E+01 | 1.91E+01 |
| 3.10E+00 | 1.66E-04 | 2.39E+01 | 1.23E+00 | 4.70E-01 | 2.44E+00 | 5.58E+00 | 1.04E+01 | 1.87E+01 |
| 3.28E+00 | 1.62E-04 | 2.29E+01 | 1.19E+00 | 4.61E-01 | 2.38E+00 | 5.44E+00 | 1.00E+01 | 1.79E+01 |
| 3.48E+00 | 1.59E-04 | 2.19E+01 | 1.15E+00 | 4.49E-01 | 2.32E+00 | 5.29E+00 | 9.71E+00 | 1.71E+01 |
| 3.68E+00 | 1.55E-04 | 2.09E+01 | 1.12E+00 | 4.38E-01 | 2.25E+00 | 5.13E+00 | 9.38E+00 | 1.63E+01 |
| 3.89E+00 | 1.51E-04 | 1.99E+01 | 1.08E+00 | 4.25E-01 | 2.18E+00 | 4.97E+00 | 9.04E+00 | 1.55E+01 |
| 4.12E+00 | 1.47E-04 | 1.88E+01 | 1.04E+00 | 4.13E-01 | 2.12E+00 | 4.79E+00 | 8.69E+00 | 1.46E+01 |
| 4.36E+00 | 1.43E-04 | 1.78E+01 | 9.98E-01 | 4.00E-01 | 2.05E+00 | 4.60E+00 | 8.34E+00 | 1.38E+01 |
| 4.61E+00 | 1.39E-04 | 1.68E+01 | 9.58E-01 | 3.87E-01 | 1.98E+00 | 4.40E+00 | 7.98E+00 | 1.30E+01 |
| 4.88E+00 | 1.34E-04 | 1.57E+01 | 9.17E-01 | 3.74E-01 | 1.91E+00 | 4.20E+00 | 7.62E+00 | 1.22E+01 |
| 5.17E+00 | 1.30E-04 | 1.47E+01 | 8.76E-01 | 3.60E-01 | 1.84E+00 | 4.06E+00 | 7.10E+00 | 1.14E+01 |
| 5.47E+00 | 1.25E-04 | 1.37E+01 | 8.36E-01 | 3.46E-01 | 1.78E+00 | 3.90E+00 | 6.55E+00 | 1.06E+01 |
| 5.78E+00 | 1.21E-04 | 1.27E+01 | 7.94E-01 | 3.32E-01 | 1.70E+00 | 3.74E+00 | 6.14E+00 | 9.82E+00 |
| 6.12E+00 | 1.16E-04 | 1.17E+01 | 7.53E-01 | 3.18E-01 | 1.62E+00 | 3.58E+00 | 5.79E+00 | 9.06E+00 |
| 6.48E+00 | 1.11E-04 | 1.08E+01 | 7.10E-01 | 3.04E-01 | 1.54E+00 | 3.42E+00 | 5.45E+00 | 8.32E+00 |
| 6.86E+00 | 1.06E-04 | 9.87E+00 | 6.68E-01 | 2.89E-01 | 1.46E+00 | 3.23E+00 | 5.11E+00 | 7.60E+00 |
| 7.26E+00 | 1.01E-04 | 8.99E+00 | 6.28E-01 | 2.75E-01 | 1.38E+00 | 3.05E+00 | 4.76E+00 | 6.91E+00 |
| 7.68E+00 | 9.62E-05 | 8.13E+00 | 5.88E-01 | 2.60E-01 | 1.30E+00 | 2.84E+00 | 4.41E+00 | 6.24E+00 |
| 8.13E+00 | 9.13E-05 | 7.32E+00 | 5.49E-01 | 2.45E-01 | 1.28E+00 | 2.67E+00 | 4.07E+00 | 5.61E+00 |
| 8.60E+00 | 8.63E-05 | 6.54E+00 | 5.11E-01 | 2.31E-01 | 1.20E+00 | 2.47E+00 | 3.67E+00 | 5.07E+00 |
| 9.10E+00 | 8.13E-05 | 5.82E+00 | 4.73E-01 | 2.16E-01 | 1.14E+00 | 2.32E+00 | 3.25E+00 | 4.64E+00 |
| 9.63E+00 | 7.63E-05 | 5.13E+00 | 4.36E-01 | 2.02E-01 | 1.07E+00 | 2.13E+00 | 2.96E+00 | 4.09E+00 |
| 1.00E+01 | 7.31E-05 | 4.70E+00 | 4.12E-01 | 1.92E-01 | 1.02E+00 | 2.00E+00 | 2.79E+00 | 3.74E+00 |
| 1.02E+01 | 7.14E-05 | 4.50E+00 | 4.00E-01 | 1.87E-01 | 9.90E-01 | 1.97E+00 | 2.70E+00 | 3.57E+00 |
| 1.08E+01 | 6.66E-05 | 3.91E+00 | 3.65E-01 | 1.73E-01 | 9.00E-01 | 1.79E+00 | 2.45E+00 | 3.10E+00 |
| 1.14E+01 | 6.18E-05 | 3.37E+00 | 3.32E-01 | 1.60E-01 | 8.28E-01 | 1.58E+00 | 2.20E+00 | 2.67E+00 |
| 1.21E+01 | 5.71E-05 | 2.92E+00 | 3.01E-01 | 1.46E-01 | 7.59E-01 | 1.45E+00 | 1.97E+00 | 2.32E+00 |
| 1.28E+01 | 5.26E-05 | 2.54E+00 | 2.72E-01 | 1.34E-01 | 6.87E-01 | 1.29E+00 | 1.73E+00 | 2.00E+00 |
| 1.35E+01 | 4.81E-05 | 2.19E+00 | 2.43E-01 | 1.21E-01 | 6.18E-01 | 1.15E+00 | 1.50E+00 | 1.68E+00 |
| 1.43E+01 | 4.39E-05 | 1.88E+00 | 2.15E-01 | 1.09E-01 | 5.53E-01 | 1.01E+00 | 1.27E+00 | 1.42E+00 |
| 1.51E+01 | 3.98E-05 | 1.59E+00 | 1.90E-01 | 9.80E-02 | 4.86E-01 | 8.81E-01 | 1.10E+00 | 1.24E+00 |
| 1.60E+01 | 3.58E-05 | 1.34E+00 | 1.67E-01 | 8.73E-02 | 4.23E-01 | 7.71E-01 | 9.76E-01 | 1.13E+00 |
| 1.70E+01 | 3.21E-05 | 1.28E+00 | 1.46E-01 | 7.74E-02 | 3.79E-01 | 6.70E-01 | 8.60E-01 | 9.23E-01 |
| 1.80E+01 | 2.86E-05 | 1.11E+00 | 1.27E-01 | 6.80E-02 | 3.30E-01 | 5.59E-01 | 7.37E-01 | 7.90E-01 |
| 1.90E+01 | 2.53E-05 | 9.52E-01 | 1.09E-01 | 5.93E-02 | 2.84E-01 | 4.58E-01 | 6.58E-01 | 6.80E-01 |

2.01E+01 2.22E-05 8.07E-01 9.27E-02 5.13E-02 2.44E-01 3.80E-01 5.65E-01 5.87E-01

2.13E+01 1.93E-05 6.77E-01 7.84E-02 4.40E-02 2.07E-01 3.20E-01 4.69E-01 4.98E-01

2.25E+01 1.67E-05 5.63E-01 6.59E-02 3.74E-02 1.73E-01 2.54E-01 3.98E-01 4.20E-01

2.38E+01 1.43E-05 4.62E-01 5.47E-02 3.15E-02 1.43E-01 2.07E-01 3.22E-01 3.50E-01

2.52E+01 1.22E-05 3.76E-01 4.51E-02 2.63E-02 1.16E-01 1.70E-01 2.55E-01 2.91E-01

2.67E+01 1.02E-05 3.02E-01 3.68E-02 2.17E-02 9.27E-02 1.35E-01 2.11E-01 2.40E-01

2.82E+01 8.54E-06 2.39E-01 2.96E-02 1.77E-02 7.28E-02 1.04E-01 1.82E-01 1.97E-01

2.99E+01 7.05E-06 1.87E-01 2.34E-02 1.43E-02 5.53E-02 7.88E-02 1.43E-01 1.58E-01

3.00E+01 6.95E-06 1.84E-01 2.31E-02 1.41E-02 5.41E-02 7.73E-02 1.40E-01 1.56E-01

3.16E+01 5.75E-06 1.44E-01 1.84E-02 1.14E-02 4.20E-02 5.92E-02 1.11E-01 1.26E-01

3.35E+01 4.64E-06 1.10E-01 1.42E-02 8.95E-03 3.25E-02 4.49E-02 8.47E-02 9.87E-02

3.54E+01 3.70E-06 8.18E-02 1.09E-02 6.94E-03 2.48E-02 3.32E-02 7.34E-02 7.63E-02

3.75E+01 2.91E-06 6.01E-02 8.20E-03 5.29E-03 1.86E-02 2.44E-02 5.77E-02 5.82E-02

3.97E+01 2.26E-06 4.41E-02 6.07E-03 3.97E-03 1.35E-02 1.79E-02 4.32E-02 4.36E-02

4.20E+01 1.73E-06 3.25E-02 4.42E-03 2.93E-03 9.57E-03 1.29E-02 3.12E-02 3.22E-02

4.44E+01 1.30E-06 2.35E-02 3.18E-03 2.13E-03 6.75E-03 9.11E-03 2.21E-02 2.33E-02

4.70E+01 9.64E-07 1.67E-02 2.24E-03 1.51E-03 4.57E-03 6.24E-03 1.64E-02 1.65E-02

4.97E+01 5.59E-07 1.16E-02 1.55E-03 1.05E-03 3.07E-03 4.18E-03 1.14E-02 1.15E-02

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5.26E+01 | 1.93E-07 | 7.90E-03 | 1.05E-03 | 7.22E-04 | 2.02E-03 | 2.74E-03 | 7.78E-03 | 7.88E-03 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.57E+01 6.27E-08 5.27E-03 6.93E-04 4.84E-04 1.33E-03 1.80E-03 5.19E-03 5.26E-03

5.90E+01 1.90E-08 3.44E-03 4.48E-04 3.16E-04 8.54E-04 1.13E-03 3.38E-03 3.43E-03

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6.24E+01 | 5.40E-09 | 2.19E-03 | 2.84E-04 | 2.01E-04 | 5.27E-04 | 6.93E-04 | 2.15E-03 | 2.18E-03 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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| 6.60E+01 | 1.42E-09 | 1.36E-03 | 1.75E-04 | 1.24E-04 | 3.17E-04 | 4.09E-04 | 1.33E-03 | 1.35E-03 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

6.99E+01 3.47E-10 8.18E-04 1.05E-04 7.52E-05 1.85E-04 2.30E-04 8.03E-04 8.14E-04

7.39E+01 7.80E-11 4.79E-04 6.11E-05 4.39E-05 1.04E-04 1.32E-04 4.69E-04 4.78E-04

7.82E+01 1.61E-11 2.72E-04 3.45E-05 2.48E-05 5.73E-05 7.33E-05 2.66E-04 2.72E-04

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8.28E+01 | 3.02E-12 | 1.49E-04 | 1.88E-05 | 1.37E-05 | 3.02E-05 | 3.94E-05 | 1.45E-04 | 1.49E-04 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

8.76E+01 5.14E-13 7.92E-05 9.89E-06 7.23E-06 1.55E-05 2.05E-05 7.69E-05 7.91E-05

9.27E+01 7.90E-14 4.05E-05 5.02E-06 3.71E-06 7.62E-06 1.02E-05 3.92E-05 4.04E-05

9.81E+01 1.09E-14 1.99E-05 2.45E-06 1.83E-06 3.53E-06 5.07E-06 1.92E-05 1.99E-05

1.00E+02 5.48E-15 1.55E-05 1.91E-06 1.43E-06 2.72E-06 3.92E-06 1.50E-05 1.55E-05

1.04E+02 1.34E-15 9.38E-06 1.15E-06 8.61E-07 1.62E-06 2.31E-06 9.00E-06 9.36E-06

1.10E+02 1.45E-16 4.23E-06 5.15E-07 3.86E-07 7.14E-07 1.00E-06 4.04E-06 4.22E-06

1.16E+02 1.39E-17 1.82E-06 2.22E-07 1.67E-07 2.97E-07 4.15E-07 1.73E-06 1.82E-06

1.23E+02 1.15E-18 7.48E-07 9.09E-08 6.93E-08 1.17E-07 1.66E-07 7.09E-07 7.46E-07

1.30E+02 8.32E-20 2.91E-07 3.56E-08 2.72E-08 4.49E-08 6.09E-08 2.75E-07 2.91E-07

1.38E+02 5.14E-21 1.07E-07 1.32E-08 1.00E-08 1.66E-08 2.15E-08 1.03E-07 1.07E-07

1.46E+02 2.70E-22 3.74E-08 4.62E-09 3.51E-09 5.80E-09 7.65E-09 3.57E-08 3.73E-08

1.54E+02 1.20E-23 1.22E-08 1.53E-09 1.15E-09 2.09E-09 3.11E-09 1.18E-08 1.22E-08

1.63E+02 4.41E-25 3.75E-09 4.81E-10 3.56E-10 6.87E-10 1.26E-09 3.62E-09 3.74E-09

1.73E+02 1.34E-26 1.07E-09 1.44E-10 1.02E-10 2.13E-10 5.06E-10 1.03E-09 1.07E-09

1.83E+02 3.33E-28 2.85E-10 4.11E-11 2.69E-11 7.28E-11 1.92E-10 2.73E-10 2.84E-10

1.94E+02 5.88E-30 7.03E-11 1.11E-11 6.65E-12 2.46E-11 5.93E-11 6.88E-11 7.00E-11

2.05E+02 0.00E+00 1.59E-11 2.76E-12 1.52E-12 8.06E-12 1.53E-11 1.58E-11 1.59E-11

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.17E+02 | 0.00E+00 | 3.32E-12 | 6.24E-13 | 3.15E-13 | 2.24E-12 | 3.24E-12 | 3.30E-12 | 3.32E-12 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.29E+02 0.00E+00 6.31E-13 1.28E-13 5.95E-14 5.36E-13 6.20E-13 6.27E-13 6.30E-13

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.43E+02 | 0.00E+00 | 1.09E-13 | 2.36E-14 | 1.03E-14 | 1.00E-13 | 1.08E-13 | 1.08E-13 | 1.09E-13 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.57E+02 0.00E+00 1.69E-14 3.88E-15 1.60E-15 1.60E-14 1.68E-14 1.69E-14 1.69E-14

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2.72E+02 | 0.00E+00 | 2.36E-15 | 5.76E-16 | 2.23E-16 | 2.29E-15 | 2.35E-15 | 2.36E-15 | 2.36E-15 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.88E+02 0.00E+00 2.95E-16 7.52E-17 2.79E-17 2.86E-16 2.92E-16 2.94E-16 2.94E-16

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| 3.00E+02 | 0.00E+00 | 5.88E-17 | 1.56E-17 | 5.61E-18 | 5.75E-17 | 5.86E-17 | 5.88E-17 | 5.88E-17 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

3.05E+02 0.00E+00 3.25E-17 8.71E-18 3.10E-18 3.18E-17 3.24E-17 3.25E-17 3.25E-17

3.22E+02 0.00E+00 3.15E-18 8.80E-19 3.04E-19 3.09E-18 3.14E-18 3.15E-18 3.15E-18

3.41E+02 0.00E+00 2.67E-19 7.77E-20 2.58E-20 2.62E-19 2.66E-19 2.67E-19 2.67E-19

3.61E+02 0.00E+00 1.96E-20 5.91E-21 1.92E-21 1.92E-20 1.95E-20 1.96E-20 1.96E-20

3.82E+02 0.00E+00 1.23E-21 3.86E-22 1.21E-22 1.21E-21 1.23E-21 1.23E-21 1.23E-21 1.23E-21

4.04E+02 0.00E+00 6.62E-23 2.15E-23 6.57E-24 6.51E-23 6.59E-23 6.61E-23 6.62E-23

4.28E+02 0.00E+00 2.99E-24 1.00E-24 3.06E-25 2.94E-24 2.98E-24 2.99E-24 2.99E-24

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.53E+02 | 0.00E+00 | 1.13E-25 | 3.89E-26 | 1.18E-26 | 1.11E-25 | 1.13E-25 | 1.13E-25 | 1.13E-25 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

4.79E+02 0.00E+00 3.53E-27 1.25E-27 3.80E-28 3.46E-27 3.51E-27 3.52E-27 3.52E-27

5.07E+02 0.00E+00 8.99E-29 3.17E-29 9.15E-30 8.81E-29 8.94E-29 8.98E-29 8.98E-29

5.36E+02 0.00E+00 1.61E-30 4.71E-31 0.00E+00 1.58E-30 1.61E-30 1.61E-30 1.61E-30

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BFM INSITU UA C0-60.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 | 2.104E+00 |
| 2 | 0.000E+00 | 2.134E+00 |
| 3 | 0.000E+00 | 2.151E+00 |

Title : RESRAD Default Parameters

Input File : FCS BFM INSITU UA C0-60.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 | 11 -0.02 | 11 -0.02 | 4 -0.05 | 4 -0.02 |
| Contaminated zone b parameter | 2 -0.08 | 2 -0.08 | 15 -0.01 | 15 0.00 |
| Evapotranspiration coefficient | 6 -0.04 | 6 -0.04 | 5 0.05 | 5 0.02 |
| Wind Speed | 8 0.03 | 8 0.03 | 3 -0.08 | 3 -0.04 |
| Runoff coefficient | 4 -0.06 | 4 -0.06 | 16 -0.01 | 16 0.00 |
| b Parameter of Unsaturated zone 1 | 17 0.00 | 17 0.00 | 14 0.01 | 14 0.00 |
| Mass loading for inhalation | 15 0.00 | 15 0.00 | 9 -0.03 | 9 -0.02 |
| Indoor dust filtration factor | 9 0.02 | 9 0.02 | 11 -0.01 | 11 -0.01 |
| Depth of soil mixing layer | 10 -0.02 | 10 -0.02 | 10 0.02 | 10 0.01 |
| Depth of roots | 16 0.00 | 16 0.00 | 2 0.71 | 2 0.49 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 3 0.06 | 3 0.06 | 17 0.00 | 17 0.00 |
| Weathering removal constant of all vegetation | 14 -0.01 | 14 -0.01 | 12 -0.01 | 12 -0.01 |
| Wet foliar interception fraction of leafy vegetables | 7 -0.03 | 7 -0.03 | 7 -0.04 | 7 -0.02 |
| Humidity in air | 1 0.09 | 1 0.09 | 8 0.04 | 8 0.02 |
| Cover erosion rate | 12 0.01 | 13 0.01 | 6 0.04 | 6 0.02 |
| Kd of Co-60 in Contaminated Zone | 5 -0.05 | 5 -0.05 | 1 -0.83 | 1 -0.71 |
| Kd of Co-60 in Saturated Zone | 13 -0.01 | 12 -0.01 | 13 0.01 | 13 0.01 |
| R-SQUARE | 0.03 | 0.03 | 0.76 | 0.76 |

-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 BFM INSITU UA C0-60.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 | 10 | -0.02 | 10 | -0.02 | 14 | 0.01 | 14 | 0.00 |
| Contaminated zone b parameter | 14 | 0.02 | 14 | 0.02 | 10 | 0.05 | 10 | 0.02 |
| Evapotranspiration coefficient | 17 | 0.00 | 17 | 0.00 | 17 | 0.00 | 17 | 0.00 |
| Wind Speed | 1 | 0.07 | 1 | 0.07 | 11 | 0.04 | 11 | 0.02 |
| Runoff coefficient | 13 | 0.02 | 13 | 0.02 | 9 | 0.05 | 9 | 0.02 |
| b Parameter of Unsaturated zone 1 | 12 | -0.02 | 12 | -0.02 | 15 | 0.00 | 15 | 0.00 |
| Mass loading for inhalation | 15 | -0.01 | 15 | -0.01 | 16 | 0.00 | 16 | 0.00 |
| Indoor dust filtration factor | 2 | -0.06 | 2 | -0.06 | 8 | -0.06 | 8 | -0.03 |
| Depth of soil mixing layer | 3 | 0.06 | 3 | 0.06 | 13 | -0.02 | 13 | -0.01 |
| Depth of roots | 6 | 0.03 | 6 | 0.03 | 2 | 0.74 | 2 | 0.51 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 9 | 0.03 | 9 | 0.03 | 5 | 0.09 | 5 | 0.04 |
| Weathering removal constant of all vegetation | 7 | -0.03 | 7 | -0.03 | 4 | -0.10 | 4 | -0.04 |
| Wet foliar interception fraction of leafy vegetables | 4 | 0.05 | 4 | 0.05 | 3 | 0.12 | 3 | 0.06 |
| Humidity in air | 16 | -0.01 | 16 | -0.01 | 6 | -0.06 | 6 | -0.03 |
| Cover erosion rate | 11 | 0.02 | 11 | 0.02 | 12 | -0.04 | 12 | -0.02 |
| Kd of Co-60 in Contaminated Zone | 8 | -0.03 | 8 | -0.03 | 1 | -0.85 | 1 | -0.73 |
| Kd of Co-60 in Saturated Zone | 5 | 0.03 | 5 | 0.03 | 7 | 0.06 | 7 | 0.03 |

| | | | | |
|----------|------|------|------|------|
| R-SQUARE | 0.02 | 0.02 | 0.79 | 0.79 |
|----------|------|------|------|------|

-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 BFM INSITU UA C0-60.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 | 13 | 0.01 | 13 | 0.01 | 12 | 0.04 | 12 | 0.02 |
| Contaminated zone b parameter | 12 | 0.02 | 12 | 0.02 | 3 | 0.13 | 3 | 0.06 |
| Evapotranspiration coefficient | 14 | 0.00 | 14 | 0.00 | 7 | -0.07 | 7 | -0.03 |
| Wind Speed | 4 | -0.06 | 4 | -0.06 | 17 | 0.01 | 17 | 0.00 |
| Runoff coefficient | 7 | -0.04 | 7 | -0.04 | 15 | -0.02 | 15 | -0.01 |
| b Parameter of Unsaturated zone 1 | 16 | 0.00 | 16 | 0.00 | 14 | 0.03 | 14 | 0.01 |
| Mass loading for inhalation | 1 | 0.13 | 1 | 0.13 | 9 | -0.06 | 9 | -0.03 |
| Indoor dust filtration factor | 10 | -0.03 | 10 | -0.03 | 10 | -0.05 | 10 | -0.02 |
| Depth of soil mixing layer | 17 | 0.00 | 17 | 0.00 | 16 | 0.01 | 16 | 0.00 |
| Depth of roots | 3 | 0.09 | 3 | 0.09 | 2 | 0.73 | 2 | 0.49 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 6 | -0.04 | 6 | -0.04 | 13 | 0.03 | 13 | 0.02 |
| Weathering removal constant of all vegetation | 8 | -0.04 | 8 | -0.04 | 11 | -0.04 | 11 | -0.02 |
| Wet foliar interception fraction of leafy vegetables | 11 | 0.02 | 11 | 0.02 | 6 | 0.07 | 6 | 0.03 |
| Humidity in air | 9 | -0.03 | 9 | -0.03 | 4 | -0.08 | 4 | -0.04 |
| Cover erosion rate | 2 | 0.12 | 2 | 0.12 | 8 | 0.07 | 8 | 0.03 |
| Kd of Co-60 in Contaminated Zone | 5 | -0.04 | 5 | -0.04 | 1 | -0.85 | 1 | -0.73 |
| Kd of Co-60 in Saturated Zone | 15 | 0.00 | 15 | 0.00 | 5 | -0.07 | 5 | -0.03 |
| R-SQUARE | 0.05 | | 0.05 | | 0.79 | | 0.79 | |

-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.