

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Table of Contents

Part VI: Uncertainty Analysis

RESRAD Uncertainty Analysis Results

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

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Probabilistic Input

Number of Sample Runs: 1500

| Number | Name | Distribution | Parameters | | | | | | | | | | | | | | | | | |
|--------|-----------|-------------------------|------------|------|-------|---------|-------|---------|-------|--------|-------|--------|-------|--------|-------|---------|-------|-------|---|--|
| 1 | VCZ | CONTINUOUS LOGARITHMIC4 | 5.E-8 | 0 | .0007 | .22 | .005 | .95 | .2 | 1 | | | | | | | | | | |
| 2 | BCZ | BOUNDED LOGNORMAL-N | 1.28 | .334 | 1.28 | 10.1 | | | | | | | | | | | | | | |
| 3 | EVAPTR | UNIFORM | .5 | .99 | | | | | | | | | | | | | | | | |
| 4 | WIND | UNIFORM | 2.8 | 4.7 | | | | | | | | | | | | | | | | |
| 5 | RUNOFF | UNIFORM | .1 | .8 | | | | | | | | | | | | | | | | |
| 6 | BUZ(1) | BOUNDED LOGNORMAL-N | 1.28 | .334 | 1.28 | 10.1 | | | | | | | | | | | | | | |
| 7 | MLINH | CONTINUOUS LINEAR | 8 | 0 | 0 | .000008 | .0151 | .000016 | .1365 | .00003 | .8119 | .00004 | .9495 | .00006 | .9937 | .000076 | .9983 | .0001 | 1 | |
| 8 | SHF3 | UNIFORM | .15 | .95 | | | | | | | | | | | | | | | | |
| 9 | DM | TRIANGULAR | 0 | .15 | .6 | | | | | | | | | | | | | | | |
| 10 | DROOT | UNIFORM | .3 | 4 | | | | | | | | | | | | | | | | |
| 11 | YV(1) | TRUNCATED LOGNORMAL-N | .56 | .48 | .001 | .999 | | | | | | | | | | | | | | |
| 12 | WLAM | TRIANGULAR | 5.1 | 18 | 84 | | | | | | | | | | | | | | | |
| 13 | RWET(2) | TRIANGULAR | .06 | .67 | .95 | | | | | | | | | | | | | | | |
| 14 | HUMID | TRUNCATED LOGNORMAL-N | 1.98 | .334 | .001 | .999 | | | | | | | | | | | | | | |
| 15 | VCV | CONTINUOUS LOGARITHMIC4 | 5.E-8 | 0 | .0007 | .22 | .005 | .95 | .2 | 1 | | | | | | | | | | |
| 16 | DCACTC(1) | LOGNORMAL-N | 4.87 | 2.3 | | | | | | | | | | | | | | | | |
| 17 | DCACTS(1) | LOGNORMAL-N | 4.87 | 2.3 | | | | | | | | | | | | | | | | |
| 18 | DWIBWT | CONTINUOUS LINEAR | 6 | 5 | 0 | 24 | .29 | 43 | .66 | 53 | .68 | 76 | .95 | 89 | 1 | | | | | |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Probabilistic Total Dose Summary

| Nuclide (j) | Peak Time | Peak Dose | DOSE(j,t), mrem/yr | | | | | | | | | |
|----------------|--------------|--------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | t= 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 | | |
| Ni-59 | | | | | | | | | | | | |
| Min | 0.00E+00 | 3.00E-08 | 6.25E-10 | 6.63E-10 | 7.37E-10 | 9.99E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.00E+03 | 5.41E-04 | 3.98E-04 | 4.06E-04 | 4.78E-04 | 1.46E-04 | 1.53E-04 | 1.06E-04 | 2.45E-04 | 2.39E-04 | 2.45E-04 | 2.39E-04 |
| Avg | 5.68E+01 | 4.42E-05 | 3.50E-05 | 3.17E-05 | 2.96E-05 | 2.48E-05 | 1.87E-05 | 1.27E-05 | 8.19E-06 | 2.41E-06 | 2.41E-06 | 2.41E-06 |
| Std | 1.56E+02 | 3.43E-05 | 2.52E-05 | 2.45E-05 | 2.69E-05 | 2.18E-05 | 1.94E-05 | 1.78E-05 | 1.82E-05 | 1.28E-05 | 1.28E-05 | 1.28E-05 |
| ALL | | | | | | | | | | | | |
| Min | 0.00E+00 | 3.00E-08 | 6.25E-10 | 6.63E-10 | 7.37E-10 | 9.99E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.00E+03 | 5.41E-04 | 3.98E-04 | 4.06E-04 | 4.78E-04 | 1.46E-04 | 1.53E-04 | 1.06E-04 | 2.45E-04 | 2.39E-04 | 2.45E-04 | 2.39E-04 |
| Avg | 5.68E+01 | 4.42E-05 | 3.50E-05 | 3.17E-05 | 2.96E-05 | 2.48E-05 | 1.87E-05 | 1.27E-05 | 8.19E-06 | 2.41E-06 | 2.41E-06 | 2.41E-06 |
| Std | 1.56E+02 | 3.43E-05 | 2.52E-05 | 2.45E-05 | 2.69E-05 | 2.18E-05 | 1.94E-05 | 1.78E-05 | 1.82E-05 | 1.28E-05 | 1.28E-05 | 1.28E-05 |

ALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | | |
| Min | | 2.56E-14 | 2.71E-14 | 3.03E-14 | 4.13E-14 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.28E-08 | 1.46E-08 | 2.45E-08 | 6.47E-09 | 8.49E-09 | 5.91E-09 | 1.36E-08 | 1.33E-08 |
| Avg | | 2.14E-09 | 1.75E-09 | 1.61E-09 | 1.33E-09 | 1.00E-09 | 6.82E-10 | 4.46E-10 | 1.32E-10 |
| Std | | 2.12E-09 | 1.23E-09 | 1.38E-09 | 1.16E-09 | 1.07E-09 | 9.89E-10 | 1.01E-09 | 7.12E-10 |
| ALL | | | | | | | | | |
| Min | | 2.56E-14 | 2.71E-14 | 3.03E-14 | 4.13E-14 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 3.28E-08 | 1.46E-08 | 2.45E-08 | 6.47E-09 | 8.49E-09 | 5.91E-09 | 1.36E-08 | 1.33E-08 |
| Avg | | 2.14E-09 | 1.75E-09 | 1.61E-09 | 1.33E-09 | 1.00E-09 | 6.82E-10 | 4.46E-10 | 1.32E-10 |
| Std | | 2.12E-09 | 1.23E-09 | 1.38E-09 | 1.16E-09 | 1.07E-09 | 9.89E-10 | 1.01E-09 | 7.12E-10 |

ALL is total risk summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| 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 | 4.05E-12 | 4.60E-09 | 4.31E-09 | 7.19E-09 | 7.02E-09 | 7.29E-09 |
| Avg | 0.00E+00 | 0.00E+00 | 2.70E-15 | 1.48E-11 | 1.20E-11 | 1.42E-11 | 5.70E-11 | 4.52E-11 |
| Std | 0.00E+00 | 0.00E+00 | 1.05E-13 | 1.81E-10 | 1.84E-10 | 2.45E-10 | 3.85E-10 | 3.69E-10 |
| 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 | 4.05E-12 | 4.60E-09 | 4.31E-09 | 7.19E-09 | 7.02E-09 | 7.29E-09 |
| Avg | 0.00E+00 | 0.00E+00 | 2.70E-15 | 1.48E-11 | 1.20E-11 | 1.42E-11 | 5.70E-11 | 4.52E-11 |
| Std | 0.00E+00 | 0.00E+00 | 1.05E-13 | 1.81E-10 | 1.84E-10 | 2.45E-10 | 3.85E-10 | 3.69E-10 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Probabilistic Dose vs Pathway(i): Radon (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 |
| Ni-59 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 5.76E-05 | 5.75E-05 | 7.34E-05 | 6.80E-05 | 9.42E-05 | 7.61E-05 | 1.60E-04 | 1.64E-04 |
| Avg | 2.09E-05 | 1.91E-05 | 1.74E-05 | 1.43E-05 | 1.09E-05 | 7.71E-06 | 5.08E-06 | 1.40E-06 |
| Std | 1.46E-05 | 1.46E-05 | 1.47E-05 | 1.42E-05 | 1.37E-05 | 1.28E-05 | 1.24E-05 | 7.98E-06 |
| 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 | 5.76E-05 | 5.75E-05 | 7.34E-05 | 6.80E-05 | 9.42E-05 | 7.61E-05 | 1.60E-04 | 1.64E-04 |
| Avg | 2.09E-05 | 1.91E-05 | 1.74E-05 | 1.43E-05 | 1.09E-05 | 7.71E-06 | 5.08E-06 | 1.40E-06 |
| Std | 1.46E-05 | 1.46E-05 | 1.47E-05 | 1.42E-05 | 1.37E-05 | 1.28E-05 | 1.24E-05 | 7.98E-06 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 7.69E-07 | 7.68E-07 | 9.80E-07 | 2.47E-06 | 2.76E-06 | 1.84E-06 | 3.75E-06 | 8.21E-06 |
| Avg | 2.84E-07 | 2.58E-07 | 2.34E-07 | 1.97E-07 | 1.51E-07 | 1.07E-07 | 9.07E-08 | 3.89E-08 |
| Std | 1.96E-07 | 1.95E-07 | 1.96E-07 | 2.06E-07 | 2.08E-07 | 1.86E-07 | 2.60E-07 | 2.85E-07 |
| 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 | 7.69E-07 | 7.68E-07 | 9.80E-07 | 2.47E-06 | 2.76E-06 | 1.84E-06 | 3.75E-06 | 8.21E-06 |
| Avg | 2.84E-07 | 2.58E-07 | 2.34E-07 | 1.97E-07 | 1.51E-07 | 1.07E-07 | 9.07E-08 | 3.89E-08 |
| Std | 1.96E-07 | 1.95E-07 | 1.96E-07 | 2.06E-07 | 2.08E-07 | 1.86E-07 | 2.60E-07 | 2.85E-07 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| 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 | 2.21E-05 | 2.21E-05 | 2.82E-05 | 4.53E-05 | 5.47E-05 | 3.38E-05 | 8.13E-05 | 1.19E-04 |
| Avg | 8.11E-06 | 7.40E-06 | 6.71E-06 | 5.56E-06 | 4.26E-06 | 3.01E-06 | 2.23E-06 | 7.86E-07 |
| Std | 5.63E-06 | 5.61E-06 | 5.63E-06 | 5.60E-06 | 5.49E-06 | 5.01E-06 | 5.72E-06 | 4.93E-06 |
| 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 | 2.21E-05 | 2.21E-05 | 2.82E-05 | 4.53E-05 | 5.47E-05 | 3.38E-05 | 8.13E-05 | 1.19E-04 |
| Avg | 8.11E-06 | 7.40E-06 | 6.71E-06 | 5.56E-06 | 4.26E-06 | 3.01E-06 | 2.23E-06 | 7.86E-07 |
| Std | 5.63E-06 | 5.61E-06 | 5.63E-06 | 5.60E-06 | 5.49E-06 | 5.01E-06 | 5.72E-06 | 4.93E-06 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| 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 | 5.46E-10 | 4.84E-07 | 4.66E-07 | 5.00E-07 | 7.56E-07 | 2.20E-06 |
| Avg | 0.00E+00 | 0.00E+00 | 3.64E-13 | 1.89E-09 | 1.74E-09 | 1.30E-09 | 7.09E-09 | 6.27E-09 |
| Std | 0.00E+00 | 0.00E+00 | 1.41E-11 | 1.95E-08 | 2.36E-08 | 1.96E-08 | 4.43E-08 | 6.85E-08 |
| 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 | 5.46E-10 | 4.84E-07 | 4.66E-07 | 5.00E-07 | 7.56E-07 | 2.20E-06 |
| Avg | 0.00E+00 | 0.00E+00 | 3.64E-13 | 1.89E-09 | 1.74E-09 | 1.30E-09 | 7.09E-09 | 6.27E-09 |
| Std | 0.00E+00 | 0.00E+00 | 1.41E-11 | 1.95E-08 | 2.36E-08 | 1.96E-08 | 4.43E-08 | 6.85E-08 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

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 |
| Ni-59 | | | | | | | | |
| Min | 2.33E-10 | 2.40E-10 | 2.54E-10 | 3.03E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.13E-04 | 2.85E-04 | 3.42E-04 | 1.15E-04 | 5.82E-05 | 1.73E-05 | 5.94E-06 | 1.80E-06 |
| Avg | 4.34E-06 | 3.70E-06 | 3.97E-06 | 3.62E-06 | 2.58E-06 | 1.38E-06 | 5.86E-07 | 1.40E-07 |
| Std | 1.32E-05 | 1.21E-05 | 1.52E-05 | 9.90E-06 | 5.34E-06 | 2.10E-06 | 8.58E-07 | 2.56E-07 |
| ALL | | | | | | | | |
| Min | 2.33E-10 | 2.40E-10 | 2.54E-10 | 3.03E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.13E-04 | 2.85E-04 | 3.42E-04 | 1.15E-04 | 5.82E-05 | 1.73E-05 | 5.94E-06 | 1.80E-06 |
| Avg | 4.34E-06 | 3.70E-06 | 3.97E-06 | 3.62E-06 | 2.58E-06 | 1.38E-06 | 5.86E-07 | 1.40E-07 |
| Std | 1.32E-05 | 1.21E-05 | 1.52E-05 | 9.90E-06 | 5.34E-06 | 2.10E-06 | 8.58E-07 | 2.56E-07 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Probabilistic Dose vs Pathway(i): Fish 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/> | | | | | | | | |
| Ni-59 | | | | | | | | |
| 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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.RAD

Probabilistic Dose vs Pathway(i): Radon (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 |
| Ni-59 | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | |
| Min | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 |
| Ni-59 | | | | | | | | |
| Min | 2.89E-11 | 3.07E-11 | 3.41E-11 | 4.05E-11 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.61E-05 | 3.03E-05 | 3.67E-05 | 1.61E-05 | 6.72E-06 | 4.02E-06 | 1.09E-06 | 3.50E-07 |
| Avg | 3.85E-07 | 3.39E-07 | 3.64E-07 | 3.31E-07 | 2.36E-07 | 1.33E-07 | 5.69E-08 | 1.29E-08 |
| Std | 1.04E-06 | 1.18E-06 | 1.50E-06 | 9.81E-07 | 5.18E-07 | 2.60E-07 | 1.03E-07 | 2.79E-08 |
| ALL | | | | | | | | |
| Min | 2.89E-11 | 3.07E-11 | 3.41E-11 | 4.05E-11 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 1.61E-05 | 3.03E-05 | 3.67E-05 | 1.61E-05 | 6.72E-06 | 4.02E-06 | 1.09E-06 | 3.50E-07 |
| Avg | 3.85E-07 | 3.39E-07 | 3.64E-07 | 3.31E-07 | 2.36E-07 | 1.33E-07 | 5.69E-08 | 1.29E-08 |
| Std | 1.04E-06 | 1.18E-06 | 1.50E-06 | 9.81E-07 | 5.18E-07 | 2.60E-07 | 1.03E-07 | 2.79E-08 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 |
| Ni-59 | | | | | | | | |
| Min | 3.31E-12 | 3.41E-12 | 3.62E-12 | 4.32E-12 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.11E-06 | 3.22E-06 | 4.17E-06 | 1.31E-06 | 6.68E-07 | 1.88E-07 | 7.20E-08 | 2.15E-08 |
| Avg | 4.89E-08 | 4.01E-08 | 4.31E-08 | 3.95E-08 | 2.81E-08 | 1.51E-08 | 6.47E-09 | 1.53E-09 |
| Std | 1.45E-07 | 1.31E-07 | 1.70E-07 | 1.09E-07 | 5.80E-08 | 2.33E-08 | 9.61E-09 | 2.83E-09 |
| ALL | | | | | | | | |
| Min | 3.31E-12 | 3.41E-12 | 3.62E-12 | 4.32E-12 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 3.11E-06 | 3.22E-06 | 4.17E-06 | 1.31E-06 | 6.68E-07 | 1.88E-07 | 7.20E-08 | 2.15E-08 |
| Avg | 4.89E-08 | 4.01E-08 | 4.31E-08 | 3.95E-08 | 2.81E-08 | 1.51E-08 | 6.47E-09 | 1.53E-09 |
| Std | 1.45E-07 | 1.31E-07 | 1.70E-07 | 1.09E-07 | 5.80E-08 | 2.33E-08 | 9.61E-09 | 2.83E-09 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 |
| Ni-59 | | | | | | | | |
| Min | 7.26E-11 | 7.48E-11 | 7.92E-11 | 9.45E-11 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 5.33E-05 | 6.66E-05 | 8.43E-05 | 2.77E-05 | 1.35E-05 | 3.71E-06 | 1.52E-06 | 4.68E-07 |
| Avg | 9.45E-07 | 7.91E-07 | 8.51E-07 | 7.77E-07 | 5.54E-07 | 2.99E-07 | 1.28E-07 | 3.01E-08 |
| Std | 2.71E-06 | 2.64E-06 | 3.39E-06 | 2.17E-06 | 1.15E-06 | 4.66E-07 | 1.94E-07 | 5.67E-08 |
| ALL | | | | | | | | |
| Min | 7.26E-11 | 7.48E-11 | 7.92E-11 | 9.45E-11 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | 5.33E-05 | 6.66E-05 | 8.43E-05 | 2.77E-05 | 1.35E-05 | 3.71E-06 | 1.52E-06 | 4.68E-07 |
| Avg | 9.45E-07 | 7.91E-07 | 8.51E-07 | 7.77E-07 | 5.54E-07 | 2.99E-07 | 1.28E-07 | 3.01E-08 |
| Std | 2.71E-06 | 2.64E-06 | 3.39E-06 | 2.17E-06 | 1.15E-06 | 4.66E-07 | 1.94E-07 | 5.67E-08 |

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\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 | 4.00E-08 | 4.85E-08 | 4.84E-08 | 5.10E-08 | 2.87E-08 | 3.40E-19 | 0.00E+00 | 0.00E+00 |
| 0.050 | 1.49E-07 | 1.96E-07 | 1.59E-07 | 1.34E-07 | 9.24E-08 | 1.01E-09 | 0.00E+00 | 0.00E+00 |
| 0.075 | 3.71E-07 | 4.13E-07 | 3.93E-07 | 2.67E-07 | 1.64E-07 | 1.95E-08 | 5.95E-27 | 0.00E+00 |
| 0.100 | 7.00E-07 | 7.90E-07 | 6.51E-07 | 4.43E-07 | 2.46E-07 | 4.75E-08 | 3.45E-16 | 0.00E+00 |
| 0.125 | 1.69E-06 | 1.53E-06 | 1.26E-06 | 6.81E-07 | 3.87E-07 | 9.15E-08 | 4.11E-12 | 0.00E+00 |
| 0.150 | 3.17E-06 | 2.55E-06 | 1.88E-06 | 1.03E-06 | 5.47E-07 | 1.38E-07 | 2.70E-09 | 0.00E+00 |
| 0.175 | 7.72E-06 | 4.38E-06 | 2.94E-06 | 1.48E-06 | 7.56E-07 | 2.13E-07 | 1.10E-08 | 0.00E+00 |
| 0.200 | 1.65E-05 | 6.56E-06 | 4.39E-06 | 2.23E-06 | 9.99E-07 | 3.17E-07 | 2.36E-08 | 0.00E+00 |
| 0.225 | 2.32E-05 | 1.23E-05 | 6.18E-06 | 3.31E-06 | 1.33E-06 | 4.22E-07 | 4.45E-08 | 0.00E+00 |
| 0.250 | 2.41E-05 | 1.82E-05 | 9.04E-06 | 4.27E-06 | 1.84E-06 | 5.39E-07 | 7.90E-08 | 0.00E+00 |
| 0.275 | 2.49E-05 | 2.22E-05 | 1.32E-05 | 5.63E-06 | 2.28E-06 | 6.95E-07 | 1.10E-07 | 0.00E+00 |
| 0.300 | 2.57E-05 | 2.31E-05 | 1.67E-05 | 7.31E-06 | 3.10E-06 | 8.95E-07 | 1.43E-07 | 0.00E+00 |
| 0.325 | 2.65E-05 | 2.38E-05 | 1.97E-05 | 9.53E-06 | 3.79E-06 | 1.11E-06 | 2.13E-07 | 0.00E+00 |
| 0.350 | 2.73E-05 | 2.48E-05 | 2.22E-05 | 1.18E-05 | 4.49E-06 | 1.38E-06 | 2.84E-07 | 6.10E-21 |
| 0.375 | 2.82E-05 | 2.56E-05 | 2.32E-05 | 1.47E-05 | 5.61E-06 | 1.63E-06 | 3.45E-07 | 1.49E-15 |
| 0.400 | 2.91E-05 | 2.62E-05 | 2.41E-05 | 1.76E-05 | 6.55E-06 | 2.01E-06 | 4.27E-07 | 5.38E-12 |
| 0.425 | 2.99E-05 | 2.71E-05 | 2.48E-05 | 1.95E-05 | 7.80E-06 | 2.45E-06 | 5.23E-07 | 3.35E-10 |
| 0.450 | 3.08E-05 | 2.79E-05 | 2.57E-05 | 2.12E-05 | 9.59E-06 | 2.94E-06 | 6.24E-07 | 3.80E-09 |
| 0.475 | 3.19E-05 | 2.91E-05 | 2.63E-05 | 2.27E-05 | 1.16E-05 | 3.56E-06 | 7.36E-07 | 1.06E-08 |
| 0.500 | 3.28E-05 | 3.00E-05 | 2.73E-05 | 2.36E-05 | 1.38E-05 | 3.96E-06 | 8.76E-07 | 2.21E-08 |
| 0.525 | 3.40E-05 | 3.09E-05 | 2.86E-05 | 2.45E-05 | 1.62E-05 | 4.86E-06 | 1.03E-06 | 3.65E-08 |
| 0.550 | 3.53E-05 | 3.21E-05 | 2.97E-05 | 2.56E-05 | 1.77E-05 | 5.48E-06 | 1.20E-06 | 5.86E-08 |
| 0.575 | 3.64E-05 | 3.31E-05 | 3.07E-05 | 2.65E-05 | 1.96E-05 | 6.57E-06 | 1.42E-06 | 8.66E-08 |
| 0.600 | 3.77E-05 | 3.44E-05 | 3.19E-05 | 2.74E-05 | 2.16E-05 | 7.81E-06 | 1.70E-06 | 1.06E-07 |
| 0.625 | 3.89E-05 | 3.58E-05 | 3.32E-05 | 2.87E-05 | 2.27E-05 | 8.99E-06 | 2.04E-06 | 1.34E-07 |
| 0.650 | 4.05E-05 | 3.71E-05 | 3.43E-05 | 3.01E-05 | 2.37E-05 | 1.15E-05 | 2.45E-06 | 1.68E-07 |
| 0.675 | 4.20E-05 | 3.87E-05 | 3.58E-05 | 3.10E-05 | 2.49E-05 | 1.35E-05 | 2.87E-06 | 2.14E-07 |
| 0.700 | 4.44E-05 | 4.01E-05 | 3.69E-05 | 3.28E-05 | 2.62E-05 | 1.60E-05 | 3.63E-06 | 2.73E-07 |
| 0.725 | 4.60E-05 | 4.18E-05 | 3.85E-05 | 3.45E-05 | 2.79E-05 | 1.79E-05 | 4.48E-06 | 3.32E-07 |
| 0.750 | 4.82E-05 | 4.38E-05 | 4.03E-05 | 3.62E-05 | 2.95E-05 | 2.05E-05 | 5.71E-06 | 4.03E-07 |
| 0.775 | 4.99E-05 | 4.59E-05 | 4.30E-05 | 3.82E-05 | 3.12E-05 | 2.20E-05 | 8.11E-06 | 4.79E-07 |
| 0.800 | 5.23E-05 | 4.80E-05 | 4.55E-05 | 4.04E-05 | 3.33E-05 | 2.35E-05 | 1.16E-05 | 5.49E-07 |
| 0.825 | 5.50E-05 | 5.09E-05 | 4.85E-05 | 4.34E-05 | 3.55E-05 | 2.50E-05 | 1.50E-05 | 6.58E-07 |
| 0.850 | 5.76E-05 | 5.35E-05 | 5.11E-05 | 4.59E-05 | 3.87E-05 | 2.75E-05 | 1.76E-05 | 8.25E-07 |
| 0.875 | 6.07E-05 | 5.68E-05 | 5.54E-05 | 5.06E-05 | 4.15E-05 | 3.05E-05 | 2.20E-05 | 1.11E-06 |
| 0.900 | 6.41E-05 | 6.02E-05 | 5.91E-05 | 5.50E-05 | 4.55E-05 | 3.72E-05 | 2.77E-05 | 1.85E-06 |
| 0.925 | 6.79E-05 | 6.40E-05 | 6.37E-05 | 5.95E-05 | 5.08E-05 | 4.43E-05 | 3.31E-05 | 4.17E-06 |
| 0.950 | 7.34E-05 | 7.00E-05 | 6.93E-05 | 6.52E-05 | 5.76E-05 | 5.15E-05 | 4.34E-05 | 9.56E-06 |
| 0.975 | 7.97E-05 | 7.69E-05 | 7.66E-05 | 7.50E-05 | 6.58E-05 | 6.36E-05 | 6.26E-05 | 2.66E-05 |
| 1.000 | 3.98E-04 | 4.06E-04 | 4.78E-04 | 1.46E-04 | 1.53E-04 | 1.06E-04 | 2.45E-04 | 2.39E-04 |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 | 9.27E-10 | 1.66E-04 | 3.48E-05 | 3.21E-05 | 6.38E-05 | 7.46E-05 | 8.14E-05 | 9.86E-05 |
| 1.00E+00 | 1.00E-09 | 1.90E-04 | 3.16E-05 | 2.96E-05 | 6.18E-05 | 7.06E-05 | 7.89E-05 | 1.08E-04 |
| 1.06E+00 | 1.01E-09 | 1.94E-04 | 3.15E-05 | 2.96E-05 | 6.15E-05 | 7.05E-05 | 7.88E-05 | 1.10E-04 |
| 1.12E+00 | 1.01E-09 | 1.99E-04 | 3.14E-05 | 2.94E-05 | 6.11E-05 | 7.05E-05 | 7.88E-05 | 1.11E-04 |
| 1.19E+00 | 1.02E-09 | 2.03E-04 | 3.13E-05 | 2.93E-05 | 6.07E-05 | 7.04E-05 | 7.87E-05 | 1.12E-04 |
| 1.25E+00 | 1.02E-09 | 2.07E-04 | 3.12E-05 | 2.92E-05 | 6.07E-05 | 7.05E-05 | 7.86E-05 | 1.14E-04 |
| 1.33E+00 | 1.03E-09 | 2.12E-04 | 3.11E-05 | 2.91E-05 | 6.07E-05 | 7.05E-05 | 7.85E-05 | 1.15E-04 |
| 1.40E+00 | 1.03E-09 | 2.17E-04 | 3.10E-05 | 2.91E-05 | 6.07E-05 | 7.04E-05 | 7.84E-05 | 1.16E-04 |
| 1.49E+00 | 1.04E-09 | 2.22E-04 | 3.09E-05 | 2.90E-05 | 6.07E-05 | 7.04E-05 | 7.83E-05 | 1.18E-04 |
| 1.57E+00 | 1.05E-09 | 2.27E-04 | 3.08E-05 | 2.88E-05 | 6.05E-05 | 7.05E-05 | 7.82E-05 | 1.19E-04 |
| 1.66E+00 | 1.05E-09 | 2.32E-04 | 3.07E-05 | 2.87E-05 | 6.02E-05 | 7.02E-05 | 7.81E-05 | 1.21E-04 |
| 1.76E+00 | 1.06E-09 | 2.37E-04 | 3.06E-05 | 2.86E-05 | 6.03E-05 | 7.02E-05 | 7.79E-05 | 1.23E-04 |
| 1.86E+00 | 1.07E-09 | 2.43E-04 | 3.05E-05 | 2.86E-05 | 6.03E-05 | 7.00E-05 | 7.78E-05 | 1.22E-04 |
| 1.97E+00 | 1.08E-09 | 2.48E-04 | 3.04E-05 | 2.86E-05 | 6.03E-05 | 6.99E-05 | 7.78E-05 | 1.20E-04 |
| 2.09E+00 | 1.09E-09 | 2.54E-04 | 3.03E-05 | 2.81E-05 | 6.03E-05 | 6.98E-05 | 7.78E-05 | 1.17E-04 |
| 2.21E+00 | 1.10E-09 | 2.60E-04 | 3.02E-05 | 2.80E-05 | 6.07E-05 | 6.97E-05 | 7.78E-05 | 1.14E-04 |
| 2.24E+00 | 1.11E-09 | 2.66E-04 | 3.01E-05 | 2.77E-05 | 6.07E-05 | 6.97E-05 | 7.78E-05 | 1.11E-04 |
| 2.27E+00 | 1.12E-09 | 2.72E-04 | 2.99E-05 | 2.76E-05 | 6.07E-05 | 6.97E-05 | 7.77E-05 | 1.08E-04 |
| 2.26E+00 | 1.13E-09 | 2.78E-04 | 2.98E-05 | 2.75E-05 | 6.07E-05 | 6.97E-05 | 7.77E-05 | 1.05E-04 |
| 2.27E+00 | 1.14E-09 | 2.84E-04 | 2.97E-05 | 2.71E-05 | 6.09E-05 | 6.99E-05 | 7.76E-05 | 1.05E-04 |
| 2.29E+00 | 1.15E-09 | 2.90E-04 | 2.95E-05 | 2.70E-05 | 6.07E-05 | 6.98E-05 | 7.75E-05 | 1.06E-04 |
| 3.00E+00 | 1.16E-09 | 2.93E-04 | 2.95E-05 | 2.68E-05 | 6.07E-05 | 7.01E-05 | 7.83E-05 | 1.06E-04 |
| 3.31E+00 | 1.16E-09 | 2.96E-04 | 2.94E-05 | 2.67E-05 | 6.07E-05 | 7.01E-05 | 7.78E-05 | 1.06E-04 |
| 3.32E+00 | 1.18E-09 | 3.00E-04 | 2.93E-05 | 2.66E-05 | 6.13E-05 | 7.00E-05 | 7.77E-05 | 1.06E-04 |
| 3.48E+00 | 1.19E-09 | 2.97E-04 | 2.93E-05 | 2.64E-05 | 6.13E-05 | 7.06E-05 | 7.84E-05 | 1.06E-04 |
| 3.68E+00 | 1.21E-09 | 2.90E-04 | 2.92E-05 | 2.63E-05 | 6.12E-05 | 7.04E-05 | 7.86E-05 | 1.31E-04 |
| 3.89E+00 | 1.23E-09 | 2.77E-04 | 2.91E-05 | 2.62E-05 | 6.11E-05 | 6.96E-05 | 7.86E-05 | 1.43E-04 |
| 4.12E+00 | 1.24E-09 | 2.59E-04 | 2.90E-05 | 2.59E-05 | 6.09E-05 | 6.96E-05 | 7.81E-05 | 1.43E-04 |
| 4.36E+00 | 1.26E-09 | 2.40E-04 | 2.88E-05 | 2.57E-05 | 6.08E-05 | 6.97E-05 | 7.80E-05 | 1.44E-04 |
| 4.61E+00 | 1.28E-09 | 2.33E-04 | 2.86E-05 | 2.56E-05 | 6.07E-05 | 6.96E-05 | 7.79E-05 | 1.44E-04 |
| 4.88E+00 | 1.30E-09 | 2.35E-04 | 2.84E-05 | 2.55E-05 | 6.05E-05 | 6.96E-05 | 7.79E-05 | 1.44E-04 |
| 5.17E+00 | 1.32E-09 | 2.32E-04 | 2.81E-05 | 2.53E-05 | 6.05E-05 | 6.95E-05 | 7.78E-05 | 1.44E-04 |
| 5.47E+00 | 1.35E-09 | 2.25E-04 | 2.79E-05 | 2.51E-05 | 6.01E-05 | 6.87E-05 | 7.76E-05 | 1.44E-04 |
| 5.78E+00 | 1.37E-09 | 2.15E-04 | 2.77E-05 | 2.50E-05 | 6.03E-05 | 6.82E-05 | 7.75E-05 | 1.45E-04 |
| 6.12E+00 | 1.40E-09 | 2.03E-04 | 2.74E-05 | 2.48E-05 | 5.98E-05 | 6.78E-05 | 7.74E-05 | 1.36E-04 |
| 6.48E+00 | 1.42E-09 | 1.91E-04 | 2.71E-05 | 2.47E-05 | 5.96E-05 | 6.75E-05 | 7.75E-05 | 1.22E-04 |
| 6.86E+00 | 1.45E-09 | 1.78E-04 | 2.69E-05 | 2.43E-05 | 5.93E-05 | 6.74E-05 | 7.80E-05 | 1.08E-04 |
| 7.26E+00 | 1.48E-09 | 1.65E-04 | 2.66E-05 | 2.41E-05 | 5.90E-05 | 6.72E-05 | 7.79E-05 | 1.08E-04 |
| 7.68E+00 | 1.52E-09 | 1.52E-04 | 2.63E-05 | 2.40E-05 | 5.88E-05 | 6.72E-05 | 7.79E-05 | 1.08E-04 |
| 8.13E+00 | 1.55E-09 | 1.45E-04 | 2.60E-05 | 2.38E-05 | 5.85E-05 | 6.70E-05 | 7.75E-05 | 9.65E-05 |
| 8.60E+00 | 1.59E-09 | 1.46E-04 | 2.57E-05 | 2.35E-05 | 5.82E-05 | 6.61E-05 | 7.73E-05 | 8.85E-05 |
| 9.10E+00 | 1.62E-09 | 1.46E-04 | 2.54E-05 | 2.34E-05 | 5.76E-05 | 6.63E-05 | 7.55E-05 | 8.86E-05 |
| 9.63E+00 | 1.67E-09 | 1.46E-04 | 2.51E-05 | 2.32E-05 | 5.68E-05 | 6.67E-05 | 7.53E-05 | 8.86E-05 |
| 1.00E+01 | 1.69E-09 | 1.46E-04 | 2.49E-05 | 2.28E-05 | 5.64E-05 | 6.69E-05 | 7.53E-05 | 8.54E-05 |
| 1.02E+01 | 1.71E-09 | 1.46E-04 | 2.48E-05 | 2.27E-05 | 5.64E-05 | 6.59E-05 | 7.53E-05 | 8.31E-05 |
| 1.08E+01 | 1.75E-09 | 1.47E-04 | 2.45E-05 | 2.25E-05 | 5.63E-05 | 6.54E-05 | 7.48E-05 | 8.36E-05 |
| 1.14E+01 | 1.80E-09 | 1.47E-04 | 2.43E-05 | 2.21E-05 | 5.62E-05 | 6.49E-05 | 7.48E-05 | 8.41E-05 |
| 1.21E+01 | 1.85E-09 | 1.48E-04 | 2.40E-05 | 2.14E-05 | 5.56E-05 | 6.55E-05 | 7.47E-05 | 8.44E-05 |
| 1.28E+01 | 1.91E-09 | 1.45E-04 | 2.37E-05 | 2.08E-05 | 5.54E-05 | 6.56E-05 | 7.48E-05 | 8.47E-05 |
| 1.35E+01 | 1.96E-09 | 1.45E-04 | 2.33E-05 | 2.00E-05 | 5.54E-05 | 6.67E-05 | 7.49E-05 | 8.50E-05 |
| 1.43E+01 | 2.02E-09 | 1.45E-04 | 2.28E-05 | 1.96E-05 | 5.49E-05 | 6.55E-05 | 7.41E-05 | 8.11E-05 |
| 1.51E+01 | 2.09E-09 | 1.45E-04 | 2.26E-05 | 1.95E-05 | 5.44E-05 | 6.48E-05 | 7.38E-05 | 8.11E-05 |
| 1.60E+01 | 2.16E-09 | 1.45E-04 | 2.23E-05 | 1.91E-05 | 5.39E-05 | 6.48E-05 | 7.27E-05 | 8.07E-05 |
| 1.70E+01 | 4.39E-11 | 1.45E-04 | 2.20E-05 | 1.87E-05 | 5.31E-05 | 6.41E-05 | 7.24E-05 | 7.88E-05 |
| 1.80E+01 | 4.21E-13 | 1.13E-04 | 2.16E-05 | 1.82E-05 | 5.27E-05 | 6.35E-05 | 7.20E-05 | 7.67E-05 |
| 1.90E+01 | 3.07E-15 | 1.08E-04 | 2.13E-05 | 1.75E-05 | 5.23E-05 | 6.33E-05 | 7.14E-05 | 7.62E-05 |

2.01E+01 1.69E-17 1.08E-04 2.10E-05 1.73E-05 5.15E-05 6.31E-05 7.11E-05 7.60E-05

2.13E+01 6.83E-20 1.07E-04 2.07E-05 1.65E-05 5.11E-05 6.26E-05 7.01E-05 7.58E-05

2.25E+01 2.01E-22 8.88E-05 2.03E-05 1.57E-05 5.07E-05 6.15E-05 6.85E-05 7.51E-05

2.38E+01 4.20E-25 8.88E-05 2.00E-05 1.58E-05 4.94E-05 5.95E-05 6.72E-05 7.51E-05

2.52E+01 6.14E-28 8.88E-05 1.97E-05 1.52E-05 4.87E-05 5.92E-05 6.68E-05 7.51E-05

2.67E+01 0.00E+00 8.08E-05 1.94E-05 1.45E-05 4.84E-05 5.90E-05 6.65E-05 7.43E-05

2.82E+01 0.00E+00 8.08E-05 1.92E-05 1.43E-05 4.82E-05 5.86E-05 6.61E-05 7.43E-05

2.99E+01 0.00E+00 8.07E-05 1.89E-05 1.36E-05 4.76E-05 5.84E-05 6.56E-05 7.36E-05

3.00E+01 0.00E+00 8.07E-05 1.89E-05 1.36E-05 4.76E-05 5.83E-05 6.58E-05 7.35E-05

3.16E+01 0.00E+00 8.07E-05 1.86E-05 1.23E-05 4.75E-05 5.95E-05 6.58E-05 7.37E-05

3.35E+01 0.00E+00 8.84E-05 1.83E-05 1.16E-05 4.73E-05 5.93E-05 6.69E-05 7.40E-05

3.54E+01 0.00E+00 8.84E-05 1.79E-05 1.12E-05 4.63E-05 5.89E-05 6.77E-05 7.42E-05

3.75E+01 0.00E+00 8.82E-05 1.75E-05 1.07E-05 4.61E-05 6.03E-05 6.74E-05 7.42E-05

3.97E+01 0.00E+00 8.81E-05 1.72E-05 9.99E-06 4.55E-05 6.00E-05 6.69E-05 7.42E-05

4.20E+01 0.00E+00 8.79E-05 1.69E-05 9.43E-06 4.48E-05 5.96E-05 6.61E-05 7.63E-05

4.44E+01 0.00E+00 8.77E-05 1.67E-05 8.76E-06 4.41E-05 5.86E-05 6.53E-05 8.03E-05

4.70E+01 0.00E+00 8.75E-05 1.64E-05 8.30E-06 4.33E-05 5.75E-05 6.49E-05 8.02E-05

4.97E+01 0.00E+00 8.73E-05 1.61E-05 7.72E-06 4.25E-05 5.70E-05 6.45E-05 8.02E-05

5.26E+01 0.00E+00 8.70E-05 1.58E-05 7.33E-06 4.22E-05 5.63E-05 6.42E-05 8.01E-05

5.57E+01 0.00E+00 8.68E-05 1.56E-05 6.87E-06 4.24E-05 5.61E-05 6.41E-05 8.00E-05

5.90E+01 0.00E+00 8.65E-05 1.54E-05 6.68E-06 4.32E-05 5.62E-05 6.40E-05 7.99E-05

6.24E+01 0.00E+00 8.63E-05 1.52E-05 6.28E-06 4.25E-05 5.67E-05 6.59E-05 8.25E-05

6.0E+01 0.00E+00 9.00E-05 1.49E-05 6.24E-06 4.21E-05 5.56E-05 6.54E-05 8.24E-05

99E+01 0.00E+00 8.99E-05 1.47E-05 6.20E-06 4.19E-05 5.51E-05 6.49E-05 8.23E-05

7.39E+01 0.00E+00 8.99E-05 1.45E-05 6.07E-06 4.21E-05 5.50E-05 6.52E-05 8.20E-05

7.82E+01 0.00E+00 1.07E-04 1.43E-05 5.71E-06 4.18E-05 5.45E-05 6.47E-05 8.22E-05

8.28E+01 0.00E+00 1.07E-04 1.41E-05 5.32E-06 4.16E-05 5.42E-05 6.44E-05 8.22E-05

8.76E+01 0.00E+00 1.06E-04 1.40E-05 5.10E-06 4.15E-05 5.60E-05 6.55E-05 8.43E-05

9.27E+01 0.00E+00 1.06E-04 1.37E-05 4.77E-06 4.10E-05 5.69E-05 6.51E-05 8.39E-05

9.81E+01 0.00E+00 1.06E-04 1.35E-05 4.43E-06 4.10E-05 5.63E-05 6.47E-05 8.35E-05

1.00E+02 0.00E+00 1.06E-04 1.34E-05 4.25E-06 4.05E-05 5.61E-05 6.43E-05 8.33E-05

1.04E+02 0.00E+00 1.06E-04 1.32E-05 4.02E-06 3.96E-05 5.52E-05 6.38E-05 8.30E-05

1.10E+02 0.00E+00 1.06E-04 1.30E-05 3.79E-06 4.04E-05 5.51E-05 6.37E-05 8.53E-05

1.16E+02 0.00E+00 1.06E-04 1.27E-05 3.79E-06 3.87E-05 5.44E-05 6.33E-05 8.52E-05

1.23E+02 0.00E+00 1.06E-04 1.24E-05 3.40E-06 3.79E-05 5.38E-05 6.30E-05 8.52E-05

1.30E+02 0.00E+00 1.06E-04 1.22E-05 3.16E-06 3.88E-05 5.31E-05 6.28E-05 8.41E-05

1.38E+02 0.00E+00 1.06E-04 1.19E-05 2.95E-06 3.83E-05 5.12E-05 6.24E-05 8.40E-05

1.46E+02 0.00E+00 1.06E-04 1.16E-05 2.86E-06 3.77E-05 5.03E-05 6.19E-05 8.38E-05

1.54E+02 0.00E+00 1.06E-04 1.13E-05 2.72E-06 3.71E-05 4.97E-05 6.14E-05 8.35E-05

1.63E+02 0.00E+00 1.06E-04 1.10E-05 2.50E-06 3.59E-05 4.89E-05 6.10E-05 8.33E-05

1.73E+02 0.00E+00 1.06E-04 1.07E-05 2.29E-06 3.49E-05 4.85E-05 6.06E-05 8.30E-05

1.83E+02 0.00E+00 1.05E-04 1.04E-05 2.23E-06 3.43E-05 4.77E-05 6.04E-05 8.28E-05

1.94E+02 0.00E+00 1.05E-04 1.03E-05 2.06E-06 3.36E-05 4.72E-05 6.16E-05 8.44E-05

2.05E+02 0.00E+00 1.48E-04 1.01E-05 1.78E-06 3.28E-05 4.64E-05 6.15E-05 8.43E-05

2.17E+02 0.00E+00 1.44E-04 9.86E-06 1.54E-06 3.15E-05 4.56E-05 6.01E-05 8.42E-05

2.29E+02 0.00E+00 1.46E-04 1.00E-05 1.50E-06 3.26E-05 4.62E-05 6.81E-05 9.28E-05

2.43E+02 0.00E+00 1.61E-04 9.95E-06 1.37E-06 3.26E-05 4.82E-05 7.15E-05 8.85E-05

2.57E+02 0.00E+00 1.59E-04 9.58E-06 1.26E-06 3.17E-05 4.49E-05 6.72E-05 8.98E-05

2.72E+02 0.00E+00 1.57E-04 9.24E-06 1.13E-06 3.00E-05 4.37E-05 7.15E-05 9.23E-05

2.88E+02 0.00E+00 1.56E-04 8.85E-06 1.04E-06 2.89E-05 4.34E-05 6.94E-05 9.04E-05

3.00E+02 0.00E+00 1.63E-04 8.67E-06 9.91E-07 2.91E-05 4.32E-05 7.05E-05 8.90E-05

3.05E+02 0.00E+00 1.62E-04 8.62E-06 9.42E-07 2.87E-05 4.34E-05 7.07E-05 8.85E-05

3.22E+02 0.00E+00 2.13E-04 8.45E-06 8.36E-07 2.80E-05 4.28E-05 7.09E-05 8.65E-05

3.41E+02 0.00E+00 2.12E-04 8.19E-06 7.62E-07 2.76E-05 4.17E-05 7.00E-05 8.60E-05

3.61E+02 0.00E+00 2.10E-04 7.59E-06 6.66E-07 2.54E-05 3.89E-05 6.46E-05 8.27E-05

3.82E+02 0.00E+00 2.09E-04 7.26E-06 6.17E-07 2.43E-05 3.77E-05 6.22E-05 8.24E-05

4.04E+02 0.00E+00 2.07E-04 6.59E-06 5.34E-07 2.27E-05 3.60E-05 5.95E-05 7.78E-05

4.28E+02 0.00E+00 2.29E-04 6.54E-06 4.89E-07 2.17E-05 3.73E-05 5.94E-05 9.38E-05

4.53E+02 0.00E+00 2.27E-04 6.14E-06 4.46E-07 1.99E-05 3.53E-05 5.35E-05 9.34E-05

4.79E+02 0.00E+00 1.46E-04 5.36E-06 3.62E-07 1.69E-05 3.40E-05 5.14E-05 7.87E-05

5.07E+02 0.00E+00 1.44E-04 4.67E-06 3.27E-07 1.29E-05 3.03E-05 3.92E-05 7.32E-05

5.36E+02 0.00E+00 1.05E-04 4.34E-06 2.38E-07 1.29E-05 2.87E-05 4.09E-05 6.92E-05

5.68E+02 0.00E+00 1.01E-04 3.95E-06 2.08E-07 9.99E-06 2.85E-05 3.84E-05 6.77E-05

0.01E+02 0.00E+00 9.66E-05 3.81E-06 1.69E-07 1.07E-05 2.82E-05 3.84E-05 6.49E-05

6.36E+02 0.00E+00 9.24E-05 3.63E-06 1.44E-07 9.72E-06 2.69E-05 3.81E-05 5.80E-05

6.73E+02 0.00E+00 9.01E-05 3.34E-06 1.32E-07 7.91E-06 2.49E-05 3.72E-05 5.78E-05

7.12E+02 0.00E+00 8.95E-05 3.02E-06 1.19E-07 6.79E-06 2.26E-05 3.57E-05 5.66E-05

7.53E+02 0.00E+00 8.88E-05 2.80E-06 9.72E-08 6.11E-06 1.78E-05 3.44E-05 5.61E-05

7.97E+02 0.00E+00 1.41E-04 3.14E-06 8.96E-08 6.01E-06 2.39E-05 3.43E-05 6.67E-05

8.44E+02 0.00E+00 1.44E-04 2.92E-06 7.77E-08 5.04E-06 1.69E-05 3.40E-05 6.63E-05

93E+02 0.00E+00 1.42E-04 2.82E-06 5.84E-08 4.53E-06 1.88E-05 3.35E-05 6.58E-05

9.45E+02 0.00E+00 1.39E-04 2.65E-06 3.60E-08 3.63E-06 1.56E-05 3.13E-05 6.54E-05

1.00E+03 0.00E+00 1.36E-04 2.42E-06 2.98E-08 2.57E-06 1.19E-05 2.77E-05 6.75E-05

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 | 2.84E-09 | 2.34E-04 | 3.47E-05 | 3.29E-05 | 6.29E-05 | 7.36E-05 | 7.86E-05 | 9.22E-05 |
| 1.00E+00 | 2.89E-09 | 4.06E-04 | 3.17E-05 | 3.02E-05 | 6.00E-05 | 7.07E-05 | 7.70E-05 | 8.39E-05 |
| 1.06E+00 | 2.90E-09 | 4.14E-04 | 3.17E-05 | 3.02E-05 | 6.01E-05 | 7.07E-05 | 7.70E-05 | 8.34E-05 |
| 1.12E+00 | 2.90E-09 | 4.23E-04 | 3.16E-05 | 3.01E-05 | 6.00E-05 | 7.07E-05 | 7.69E-05 | 8.29E-05 |
| 1.19E+00 | 2.90E-09 | 4.32E-04 | 3.15E-05 | 3.01E-05 | 6.00E-05 | 7.07E-05 | 7.69E-05 | 8.24E-05 |
| 1.25E+00 | 2.91E-09 | 4.41E-04 | 3.15E-05 | 3.01E-05 | 6.02E-05 | 7.07E-05 | 7.69E-05 | 8.22E-05 |
| 1.33E+00 | 2.91E-09 | 4.51E-04 | 3.14E-05 | 3.01E-05 | 5.99E-05 | 7.06E-05 | 7.69E-05 | 8.34E-05 |
| 1.40E+00 | 2.92E-09 | 4.61E-04 | 3.13E-05 | 3.00E-05 | 5.98E-05 | 7.01E-05 | 7.67E-05 | 8.42E-05 |
| 1.49E+00 | 2.92E-09 | 4.71E-04 | 3.13E-05 | 2.99E-05 | 5.98E-05 | 6.95E-05 | 7.64E-05 | 8.42E-05 |
| 1.57E+00 | 2.93E-09 | 4.82E-04 | 3.12E-05 | 2.97E-05 | 6.03E-05 | 6.93E-05 | 7.60E-05 | 8.41E-05 |
| 1.66E+00 | 2.93E-09 | 4.93E-04 | 3.11E-05 | 2.96E-05 | 6.02E-05 | 6.98E-05 | 7.59E-05 | 8.41E-05 |
| 1.76E+00 | 2.94E-09 | 5.04E-04 | 3.11E-05 | 2.94E-05 | 5.99E-05 | 6.98E-05 | 7.69E-05 | 8.40E-05 |
| 1.86E+00 | 2.94E-09 | 5.15E-04 | 3.10E-05 | 2.91E-05 | 5.96E-05 | 7.06E-05 | 7.69E-05 | 8.77E-05 |
| 1.97E+00 | 2.95E-09 | 5.26E-04 | 3.09E-05 | 2.90E-05 | 6.01E-05 | 7.06E-05 | 7.65E-05 | 8.79E-05 |
| 2.09E+00 | 2.96E-09 | 5.35E-04 | 3.08E-05 | 2.88E-05 | 5.99E-05 | 7.06E-05 | 7.67E-05 | 8.80E-05 |
| 2.21E+00 | 2.96E-09 | 5.41E-04 | 3.07E-05 | 2.86E-05 | 5.96E-05 | 7.06E-05 | 7.69E-05 | 8.81E-05 |
| 2.24E+00 | 2.97E-09 | 5.41E-04 | 3.06E-05 | 2.83E-05 | 5.94E-05 | 6.99E-05 | 7.68E-05 | 8.81E-05 |
| 2.27E+00 | 2.98E-09 | 5.37E-04 | 3.04E-05 | 2.81E-05 | 5.91E-05 | 6.90E-05 | 7.68E-05 | 8.82E-05 |
| 2.26E+00 | 2.99E-09 | 5.28E-04 | 3.03E-05 | 2.78E-05 | 5.89E-05 | 6.93E-05 | 7.68E-05 | 8.83E-05 |
| 2.27E+00 | 3.00E-09 | 5.11E-04 | 3.01E-05 | 2.76E-05 | 5.89E-05 | 6.97E-05 | 7.68E-05 | 8.84E-05 |
| 2.29E+00 | 3.01E-09 | 4.88E-04 | 2.99E-05 | 2.75E-05 | 5.89E-05 | 6.98E-05 | 7.67E-05 | 8.94E-05 |
| 3.00E+00 | 3.01E-09 | 4.78E-04 | 2.98E-05 | 2.75E-05 | 5.88E-05 | 6.97E-05 | 7.67E-05 | 9.05E-05 |
| 3.31E+00 | 3.02E-09 | 4.62E-04 | 2.97E-05 | 2.75E-05 | 5.88E-05 | 7.05E-05 | 7.67E-05 | 9.21E-05 |
| 3.32E+00 | 3.03E-09 | 4.35E-04 | 2.95E-05 | 2.75E-05 | 5.85E-05 | 7.08E-05 | 7.67E-05 | 9.49E-05 |
| 3.48E+00 | 3.04E-09 | 4.09E-04 | 2.93E-05 | 2.74E-05 | 5.84E-05 | 7.09E-05 | 7.67E-05 | 9.78E-05 |
| 3.68E+00 | 3.05E-09 | 3.82E-04 | 2.91E-05 | 2.73E-05 | 5.81E-05 | 7.08E-05 | 7.67E-05 | 1.01E-04 |
| 3.89E+00 | 3.06E-09 | 3.56E-04 | 2.89E-05 | 2.73E-05 | 5.80E-05 | 7.07E-05 | 7.67E-05 | 1.02E-04 |
| 4.12E+00 | 3.08E-09 | 3.31E-04 | 2.87E-05 | 2.70E-05 | 5.79E-05 | 7.06E-05 | 7.71E-05 | 1.02E-04 |
| 4.36E+00 | 3.09E-09 | 3.06E-04 | 2.86E-05 | 2.68E-05 | 5.75E-05 | 7.06E-05 | 7.71E-05 | 1.03E-04 |
| 4.61E+00 | 3.11E-09 | 2.81E-04 | 2.84E-05 | 2.67E-05 | 5.73E-05 | 7.06E-05 | 7.78E-05 | 1.05E-04 |
| 4.88E+00 | 3.12E-09 | 2.57E-04 | 2.82E-05 | 2.67E-05 | 5.69E-05 | 7.05E-05 | 7.81E-05 | 1.07E-04 |
| 5.17E+00 | 3.14E-09 | 2.34E-04 | 2.80E-05 | 2.66E-05 | 5.64E-05 | 7.04E-05 | 7.81E-05 | 1.09E-04 |
| 5.47E+00 | 3.16E-09 | 2.12E-04 | 2.78E-05 | 2.63E-05 | 5.57E-05 | 7.06E-05 | 7.80E-05 | 1.09E-04 |
| 5.78E+00 | 3.17E-09 | 1.91E-04 | 2.76E-05 | 2.61E-05 | 5.57E-05 | 7.06E-05 | 7.80E-05 | 1.09E-04 |
| 6.12E+00 | 3.19E-09 | 1.71E-04 | 2.74E-05 | 2.59E-05 | 5.57E-05 | 7.06E-05 | 7.80E-05 | 1.09E-04 |
| 6.48E+00 | 3.21E-09 | 1.52E-04 | 2.71E-05 | 2.59E-05 | 5.62E-05 | 7.02E-05 | 7.79E-05 | 1.09E-04 |
| 6.86E+00 | 3.24E-09 | 1.34E-04 | 2.69E-05 | 2.60E-05 | 5.58E-05 | 6.98E-05 | 7.87E-05 | 1.09E-04 |
| 7.26E+00 | 3.26E-09 | 1.24E-04 | 2.66E-05 | 2.56E-05 | 5.57E-05 | 6.96E-05 | 7.82E-05 | 1.05E-04 |
| 7.68E+00 | 3.29E-09 | 1.20E-04 | 2.63E-05 | 2.54E-05 | 5.57E-05 | 6.95E-05 | 7.83E-05 | 9.93E-05 |
| 8.13E+00 | 3.31E-09 | 1.16E-04 | 2.61E-05 | 2.51E-05 | 5.55E-05 | 6.93E-05 | 7.80E-05 | 9.36E-05 |
| 8.60E+00 | 3.34E-09 | 1.11E-04 | 2.58E-05 | 2.50E-05 | 5.53E-05 | 6.92E-05 | 7.73E-05 | 8.86E-05 |
| 9.10E+00 | 3.37E-09 | 1.07E-04 | 2.55E-05 | 2.47E-05 | 5.53E-05 | 6.82E-05 | 7.68E-05 | 8.86E-05 |
| 9.63E+00 | 3.40E-09 | 1.03E-04 | 2.52E-05 | 2.45E-05 | 5.49E-05 | 6.79E-05 | 7.64E-05 | 8.86E-05 |
| 1.00E+01 | 3.42E-09 | 1.01E-04 | 2.50E-05 | 2.44E-05 | 5.49E-05 | 6.56E-05 | 7.62E-05 | 8.86E-05 |
| 1.02E+01 | 3.43E-09 | 1.02E-04 | 2.49E-05 | 2.42E-05 | 5.49E-05 | 6.60E-05 | 7.61E-05 | 8.77E-05 |
| 1.08E+01 | 3.47E-09 | 1.04E-04 | 2.47E-05 | 2.40E-05 | 5.45E-05 | 6.52E-05 | 7.58E-05 | 8.44E-05 |
| 1.14E+01 | 3.50E-09 | 1.06E-04 | 2.43E-05 | 2.36E-05 | 5.36E-05 | 6.49E-05 | 7.51E-05 | 8.20E-05 |
| 1.21E+01 | 3.54E-09 | 1.08E-04 | 2.39E-05 | 2.33E-05 | 5.26E-05 | 6.37E-05 | 7.45E-05 | 7.99E-05 |
| 1.28E+01 | 3.58E-09 | 1.10E-04 | 2.36E-05 | 2.28E-05 | 5.11E-05 | 6.31E-05 | 7.39E-05 | 7.93E-05 |
| 1.35E+01 | 3.63E-09 | 1.12E-04 | 2.34E-05 | 2.25E-05 | 5.18E-05 | 6.36E-05 | 7.36E-05 | 7.99E-05 |
| 1.43E+01 | 3.67E-09 | 1.39E-04 | 2.32E-05 | 2.21E-05 | 5.13E-05 | 6.36E-05 | 7.24E-05 | 7.90E-05 |
| 1.51E+01 | 3.72E-09 | 1.39E-04 | 2.29E-05 | 2.17E-05 | 5.05E-05 | 6.35E-05 | 7.25E-05 | 7.86E-05 |
| 1.60E+01 | 3.77E-09 | 1.38E-04 | 2.26E-05 | 2.12E-05 | 5.05E-05 | 6.20E-05 | 7.23E-05 | 7.83E-05 |
| 1.70E+01 | 3.83E-09 | 1.38E-04 | 2.24E-05 | 2.07E-05 | 5.05E-05 | 6.35E-05 | 7.30E-05 | 8.11E-05 |
| 1.80E+01 | 3.89E-09 | 1.37E-04 | 2.20E-05 | 2.03E-05 | 5.00E-05 | 6.16E-05 | 7.30E-05 | 8.03E-05 |
| 1.90E+01 | 2.90E-09 | 1.37E-04 | 2.17E-05 | 1.99E-05 | 4.90E-05 | 6.14E-05 | 7.29E-05 | 7.94E-05 |

2.01E+01 6.18E-10 1.36E-04 2.13E-05 1.93E-05 4.88E-05 6.12E-05 7.27E-05 7.85E-05

2.13E+01 1.20E-10 1.36E-04 2.10E-05 1.84E-05 4.81E-05 6.11E-05 7.25E-05 7.70E-05

2.25E+01 2.13E-11 1.35E-04 2.07E-05 1.80E-05 4.78E-05 6.10E-05 7.19E-05 7.66E-05

2.38E+01 3.41E-12 1.35E-04 2.03E-05 1.75E-05 4.72E-05 6.05E-05 7.18E-05 7.62E-05

2.52E+01 4.89E-13 1.34E-04 2.00E-05 1.70E-05 4.67E-05 6.01E-05 7.17E-05 7.63E-05

2.67E+01 6.28E-14 1.41E-04 1.97E-05 1.65E-05 4.65E-05 5.90E-05 7.17E-05 7.60E-05

2.82E+01 7.16E-15 1.53E-04 1.96E-05 1.62E-05 4.60E-05 5.96E-05 7.15E-05 7.63E-05

2.99E+01 7.18E-16 1.53E-04 1.93E-05 1.55E-05 4.55E-05 5.91E-05 7.10E-05 7.62E-05

3.00E+01 6.09E-16 1.53E-04 1.93E-05 1.54E-05 4.55E-05 5.86E-05 7.10E-05 7.62E-05

3.16E+01 6.31E-17 1.36E-04 1.90E-05 1.46E-05 4.53E-05 5.68E-05 6.99E-05 7.57E-05

3.35E+01 4.80E-18 1.16E-04 1.85E-05 1.39E-05 4.50E-05 5.67E-05 6.91E-05 7.56E-05

3.54E+01 3.15E-19 1.15E-04 1.81E-05 1.29E-05 4.43E-05 5.63E-05 6.98E-05 7.54E-05

3.75E+01 1.76E-20 1.15E-04 1.77E-05 1.24E-05 4.35E-05 5.58E-05 6.87E-05 7.52E-05

3.97E+01 8.34E-22 1.11E-04 1.73E-05 1.15E-05 4.31E-05 5.56E-05 6.85E-05 7.51E-05

4.20E+01 3.30E-23 1.07E-04 1.69E-05 1.08E-05 4.24E-05 5.53E-05 6.81E-05 7.49E-05

4.44E+01 1.08E-24 1.03E-04 1.66E-05 1.01E-05 4.16E-05 5.49E-05 6.75E-05 7.47E-05

4.70E+01 2.91E-26 9.73E-05 1.62E-05 9.72E-06 4.04E-05 5.48E-05 6.70E-05 7.46E-05

4.97E+01 6.34E-28 9.54E-05 1.57E-05 9.06E-06 3.97E-05 5.45E-05 6.44E-05 7.43E-05

5.26E+01 1.06E-29 9.54E-05 1.53E-05 8.33E-06 3.90E-05 5.42E-05 6.39E-05 7.41E-05

5.57E+01 0.00E+00 1.06E-04 1.51E-05 8.07E-06 3.87E-05 5.39E-05 6.34E-05 7.38E-05

5.90E+01 0.00E+00 1.05E-04 1.49E-05 7.76E-06 3.81E-05 5.36E-05 6.44E-05 7.36E-05

6.24E+01 0.00E+00 1.04E-04 1.46E-05 7.43E-06 3.78E-05 5.31E-05 6.54E-05 7.33E-05

60E+01 0.00E+00 1.03E-04 1.43E-05 6.76E-06 3.70E-05 5.29E-05 6.48E-05 7.38E-05

99E+01 0.00E+00 9.71E-05 1.40E-05 6.51E-06 3.63E-05 5.24E-05 6.44E-05 7.43E-05

7.39E+01 0.00E+00 9.49E-05 1.38E-05 6.10E-06 3.62E-05 5.20E-05 6.38E-05 7.43E-05

7.82E+01 0.00E+00 9.45E-05 1.36E-05 5.53E-06 3.66E-05 5.39E-05 6.49E-05 7.42E-05

8.28E+01 0.00E+00 9.41E-05 1.32E-05 5.09E-06 3.60E-05 5.38E-05 6.26E-05 7.41E-05

8.76E+01 0.00E+00 9.36E-05 1.28E-05 4.85E-06 3.59E-05 5.07E-05 6.23E-05 7.41E-05

9.27E+01 0.00E+00 9.32E-05 1.25E-05 4.28E-06 3.53E-05 5.02E-05 6.20E-05 7.40E-05

9.81E+01 0.00E+00 9.27E-05 1.21E-05 3.98E-06 3.52E-05 4.97E-05 6.17E-05 7.40E-05

1.00E+02 0.00E+00 9.25E-05 1.20E-05 3.92E-06 3.46E-05 4.95E-05 6.16E-05 7.39E-05

1.04E+02 0.00E+00 9.22E-05 1.18E-05 3.80E-06 3.39E-05 4.92E-05 6.14E-05 7.39E-05

1.10E+02 0.00E+00 9.16E-05 1.16E-05 3.53E-06 3.47E-05 4.91E-05 6.19E-05 7.38E-05

1.16E+02 0.00E+00 1.08E-04 1.14E-05 3.35E-06 3.33E-05 4.80E-05 6.15E-05 7.56E-05

1.23E+02 0.00E+00 1.07E-04 1.10E-05 3.14E-06 3.20E-05 4.74E-05 6.11E-05 7.37E-05

1.30E+02 0.00E+00 1.05E-04 1.07E-05 2.82E-06 3.14E-05 4.72E-05 6.06E-05 7.36E-05

1.38E+02 0.00E+00 1.40E-04 1.08E-05 2.77E-06 3.26E-05 4.77E-05 6.33E-05 7.75E-05

1.46E+02 0.00E+00 1.37E-04 1.07E-05 2.73E-06 3.34E-05 4.75E-05 6.64E-05 7.90E-05

1.54E+02 0.00E+00 1.34E-04 1.06E-05 2.64E-06 3.22E-05 4.80E-05 6.57E-05 8.55E-05

1.63E+02 0.00E+00 2.32E-04 1.10E-05 2.56E-06 3.36E-05 5.16E-05 6.60E-05 8.67E-05

1.73E+02 0.00E+00 2.32E-04 1.11E-05 2.31E-06 3.37E-05 5.21E-05 6.99E-05 9.65E-05

1.83E+02 0.00E+00 2.31E-04 1.09E-05 2.16E-06 3.34E-05 5.17E-05 6.92E-05 9.90E-05

1.94E+02 0.00E+00 2.31E-04 1.09E-05 2.12E-06 3.29E-05 5.32E-05 6.98E-05 9.78E-05

2.05E+02 0.00E+00 2.31E-04 1.06E-05 1.99E-06 3.36E-05 5.31E-05 6.91E-05 9.64E-05

2.17E+02 0.00E+00 2.53E-04 1.05E-05 1.78E-06 3.28E-05 5.32E-05 7.17E-05 9.50E-05

2.29E+02 0.00E+00 2.53E-04 1.02E-05 1.63E-06 3.18E-05 5.47E-05 7.13E-05 9.10E-05

2.43E+02 0.00E+00 2.52E-04 9.92E-06 1.45E-06 2.97E-05 5.36E-05 7.08E-05 9.47E-05

2.57E+02 0.00E+00 2.50E-04 9.56E-06 1.31E-06 2.89E-05 5.39E-05 7.02E-05 9.20E-05

2.72E+02 0.00E+00 2.49E-04 9.08E-06 1.08E-06 2.69E-05 5.18E-05 6.70E-05 8.89E-05

2.88E+02 0.00E+00 2.47E-04 8.34E-06 9.36E-07 2.50E-05 4.64E-05 5.99E-05 8.72E-05

3.00E+02 0.00E+00 2.45E-04 8.11E-06 7.98E-07 2.40E-05 4.81E-05 6.28E-05 8.59E-05

3.05E+02 0.00E+00 2.45E-04 8.06E-06 7.97E-07 2.37E-05 4.76E-05 6.27E-05 8.55E-05

3.22E+02 0.00E+00 2.43E-04 7.67E-06 7.34E-07 2.29E-05 4.22E-05 5.89E-05 8.12E-05

3.41E+02 0.00E+00 2.41E-04 7.30E-06 6.74E-07 2.24E-05 4.04E-05 5.81E-05 8.07E-05

3.61E+02 0.00E+00 2.38E-04 7.08E-06 5.74E-07 2.00E-05 4.11E-05 6.09E-05 8.03E-05

3.82E+02 0.00E+00 2.36E-04 6.90E-06 5.20E-07 1.88E-05 4.05E-05 5.94E-05 7.97E-05

4.04E+02 0.00E+00 2.33E-04 6.66E-06 4.15E-07 1.82E-05 3.84E-05 5.84E-05 7.92E-05

4.28E+02 0.00E+00 2.31E-04 6.33E-06 3.70E-07 1.69E-05 3.87E-05 5.88E-05 7.86E-05

4.53E+02 0.00E+00 2.28E-04 5.83E-06 3.17E-07 1.59E-05 3.44E-05 5.68E-05 7.80E-05

4.79E+02 0.00E+00 2.25E-04 5.27E-06 2.68E-07 1.32E-05 2.91E-05 5.22E-05 7.74E-05

5.07E+02 0.00E+00 2.22E-04 4.94E-06 2.52E-07 1.20E-05 2.86E-05 5.00E-05 7.19E-05

5.36E+02 0.00E+00 2.18E-04 4.68E-06 2.16E-07 1.11E-05 2.80E-05 4.77E-05 7.07E-05

5.68E+02 0.00E+00 2.15E-04 4.42E-06 1.66E-07 9.09E-06 2.61E-05 4.83E-05 7.06E-05

0.01E+02 0.00E+00 2.31E-04 4.49E-06 1.48E-07 8.69E-06 2.56E-05 4.86E-05 7.05E-05

6.36E+02 0.00E+00 2.29E-04 4.58E-06 1.26E-07 8.65E-06 2.85E-05 4.84E-05 8.34E-05

6.73E+02 0.00E+00 2.27E-04 4.53E-06 1.00E-07 7.95E-06 2.84E-05 4.82E-05 8.25E-05

7.12E+02 0.00E+00 2.25E-04 4.12E-06 9.16E-08 7.65E-06 2.37E-05 4.63E-05 7.16E-05

7.53E+02 0.00E+00 2.23E-04 3.98E-06 7.14E-08 5.73E-06 2.37E-05 4.52E-05 7.02E-05

7.97E+02 0.00E+00 2.21E-04 3.91E-06 6.02E-08 5.54E-06 2.43E-05 4.53E-05 7.07E-05

8.44E+02 0.00E+00 2.44E-04 4.00E-06 4.63E-08 4.61E-06 2.33E-05 4.39E-05 8.13E-05

93E+02 0.00E+00 2.42E-04 3.71E-06 3.40E-08 2.88E-06 2.05E-05 4.16E-05 7.85E-05

9.45E+02 0.00E+00 2.40E-04 3.53E-06 2.48E-08 2.30E-06 1.32E-05 4.05E-05 7.97E-05

1.00E+03 0.00E+00 2.39E-04 3.25E-06 1.83E-08 1.56E-06 1.12E-05 3.60E-05 7.27E-05

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 | 6.25E-10 | 3.98E-04 | 3.55E-05 | 3.33E-05 | 6.49E-05 | 7.20E-05 | 7.79E-05 | 9.32E-05 |
| 1.00E+00 | 6.63E-10 | 2.09E-04 | 3.17E-05 | 3.02E-05 | 6.00E-05 | 6.89E-05 | 7.70E-05 | 8.97E-05 |
| 1.06E+00 | 6.65E-10 | 2.11E-04 | 3.15E-05 | 3.01E-05 | 5.98E-05 | 6.87E-05 | 7.70E-05 | 9.11E-05 |
| 1.12E+00 | 6.67E-10 | 2.13E-04 | 3.14E-05 | 3.00E-05 | 5.97E-05 | 6.86E-05 | 7.62E-05 | 9.26E-05 |
| 1.19E+00 | 6.69E-10 | 2.16E-04 | 3.13E-05 | 2.99E-05 | 5.96E-05 | 6.85E-05 | 7.61E-05 | 9.43E-05 |
| 1.25E+00 | 6.72E-10 | 2.18E-04 | 3.12E-05 | 2.97E-05 | 5.96E-05 | 6.83E-05 | 7.61E-05 | 9.60E-05 |
| 1.33E+00 | 6.75E-10 | 2.21E-04 | 3.11E-05 | 2.96E-05 | 5.95E-05 | 6.81E-05 | 7.60E-05 | 9.78E-05 |
| 1.40E+00 | 6.78E-10 | 2.23E-04 | 3.10E-05 | 2.94E-05 | 5.94E-05 | 6.81E-05 | 7.59E-05 | 9.97E-05 |
| 1.49E+00 | 6.81E-10 | 2.26E-04 | 3.09E-05 | 2.92E-05 | 5.94E-05 | 6.81E-05 | 7.61E-05 | 1.02E-04 |
| 1.57E+00 | 6.84E-10 | 2.28E-04 | 3.08E-05 | 2.92E-05 | 5.94E-05 | 6.84E-05 | 7.65E-05 | 1.04E-04 |
| 1.66E+00 | 6.87E-10 | 2.31E-04 | 3.07E-05 | 2.89E-05 | 5.94E-05 | 6.84E-05 | 7.68E-05 | 1.06E-04 |
| 1.76E+00 | 6.91E-10 | 2.33E-04 | 3.06E-05 | 2.86E-05 | 5.93E-05 | 6.83E-05 | 7.64E-05 | 1.08E-04 |
| 1.86E+00 | 6.95E-10 | 2.36E-04 | 3.05E-05 | 2.84E-05 | 5.91E-05 | 6.83E-05 | 7.61E-05 | 1.07E-04 |
| 1.97E+00 | 6.99E-10 | 2.38E-04 | 3.04E-05 | 2.81E-05 | 5.93E-05 | 6.83E-05 | 7.59E-05 | 1.06E-04 |
| 2.09E+00 | 7.03E-10 | 2.41E-04 | 3.03E-05 | 2.81E-05 | 5.91E-05 | 6.87E-05 | 7.58E-05 | 1.05E-04 |
| 2.21E+00 | 7.08E-10 | 2.43E-04 | 3.02E-05 | 2.78E-05 | 5.91E-05 | 6.85E-05 | 7.57E-05 | 1.04E-04 |
| 2.24E+00 | 7.13E-10 | 2.45E-04 | 3.00E-05 | 2.76E-05 | 5.90E-05 | 6.84E-05 | 7.55E-05 | 1.03E-04 |
| 2.27E+00 | 7.18E-10 | 2.47E-04 | 2.99E-05 | 2.76E-05 | 5.90E-05 | 6.82E-05 | 7.53E-05 | 1.02E-04 |
| 2.26E+00 | 7.23E-10 | 2.49E-04 | 2.97E-05 | 2.76E-05 | 5.89E-05 | 6.91E-05 | 7.51E-05 | 1.01E-04 |
| 2.27E+00 | 7.29E-10 | 2.51E-04 | 2.96E-05 | 2.74E-05 | 5.89E-05 | 6.84E-05 | 7.49E-05 | 1.00E-04 |
| 2.93E+00 | 7.35E-10 | 2.53E-04 | 2.94E-05 | 2.73E-05 | 5.86E-05 | 6.80E-05 | 7.48E-05 | 9.94E-05 |
| 3.00E+00 | 7.37E-10 | 2.54E-04 | 2.94E-05 | 2.71E-05 | 5.86E-05 | 6.80E-05 | 7.48E-05 | 9.92E-05 |
| 3.10E+00 | 7.41E-10 | 2.55E-04 | 2.93E-05 | 2.70E-05 | 5.85E-05 | 6.79E-05 | 7.48E-05 | 9.88E-05 |
| 3.28E+00 | 7.48E-10 | 2.56E-04 | 2.91E-05 | 2.69E-05 | 5.84E-05 | 6.78E-05 | 7.57E-05 | 9.82E-05 |
| 3.48E+00 | 7.55E-10 | 2.58E-04 | 2.89E-05 | 2.69E-05 | 5.82E-05 | 6.77E-05 | 7.56E-05 | 9.76E-05 |
| 3.68E+00 | 7.63E-10 | 2.59E-04 | 2.88E-05 | 2.68E-05 | 5.78E-05 | 6.76E-05 | 7.53E-05 | 9.72E-05 |
| 3.89E+00 | 7.71E-10 | 2.61E-04 | 2.86E-05 | 2.68E-05 | 5.78E-05 | 6.75E-05 | 7.50E-05 | 9.67E-05 |
| 4.12E+00 | 7.79E-10 | 2.62E-04 | 2.84E-05 | 2.67E-05 | 5.74E-05 | 6.75E-05 | 7.48E-05 | 9.66E-05 |
| 4.36E+00 | 7.88E-10 | 2.63E-04 | 2.82E-05 | 2.65E-05 | 5.71E-05 | 6.74E-05 | 7.51E-05 | 9.60E-05 |
| 4.61E+00 | 7.98E-10 | 2.64E-04 | 2.80E-05 | 2.63E-05 | 5.64E-05 | 6.73E-05 | 7.54E-05 | 9.57E-05 |
| 4.88E+00 | 8.08E-10 | 2.64E-04 | 2.78E-05 | 2.60E-05 | 5.58E-05 | 6.72E-05 | 7.39E-05 | 9.55E-05 |
| 5.17E+00 | 8.18E-10 | 2.65E-04 | 2.76E-05 | 2.57E-05 | 5.57E-05 | 6.62E-05 | 7.30E-05 | 9.63E-05 |
| 5.47E+00 | 8.30E-10 | 2.66E-04 | 2.74E-05 | 2.56E-05 | 5.56E-05 | 6.57E-05 | 7.28E-05 | 9.62E-05 |
| 5.78E+00 | 8.42E-10 | 2.66E-04 | 2.71E-05 | 2.54E-05 | 5.56E-05 | 6.54E-05 | 7.27E-05 | 9.61E-05 |
| 6.12E+00 | 8.54E-10 | 2.67E-04 | 2.69E-05 | 2.53E-05 | 5.68E-05 | 6.50E-05 | 7.26E-05 | 9.61E-05 |
| 6.48E+00 | 8.68E-10 | 2.67E-04 | 2.67E-05 | 2.52E-05 | 5.72E-05 | 6.50E-05 | 7.25E-05 | 9.60E-05 |
| 6.86E+00 | 8.82E-10 | 2.67E-04 | 2.64E-05 | 2.50E-05 | 5.65E-05 | 6.59E-05 | 7.24E-05 | 9.59E-05 |
| 7.26E+00 | 8.97E-10 | 2.68E-04 | 2.62E-05 | 2.46E-05 | 5.51E-05 | 6.59E-05 | 7.23E-05 | 9.58E-05 |
| 7.68E+00 | 9.13E-10 | 2.68E-04 | 2.60E-05 | 2.43E-05 | 5.47E-05 | 6.58E-05 | 7.22E-05 | 9.57E-05 |
| 8.13E+00 | 9.29E-10 | 2.67E-04 | 2.57E-05 | 2.41E-05 | 5.46E-05 | 6.56E-05 | 7.21E-05 | 9.73E-05 |
| 8.60E+00 | 9.47E-10 | 2.45E-04 | 2.54E-05 | 2.40E-05 | 5.42E-05 | 6.56E-05 | 7.20E-05 | 1.07E-04 |
| 9.10E+00 | 9.66E-10 | 1.89E-04 | 2.51E-05 | 2.39E-05 | 5.40E-05 | 6.56E-05 | 7.19E-05 | 1.16E-04 |
| 9.63E+00 | 9.86E-10 | 1.37E-04 | 2.47E-05 | 2.37E-05 | 5.38E-05 | 6.52E-05 | 7.17E-05 | 1.16E-04 |
| 1.00E+01 | 9.99E-10 | 1.34E-04 | 2.44E-05 | 2.36E-05 | 5.33E-05 | 6.50E-05 | 7.16E-05 | 1.00E-04 |
| 1.02E+01 | 1.01E-09 | 1.32E-04 | 2.43E-05 | 2.35E-05 | 5.33E-05 | 6.48E-05 | 7.17E-05 | 9.45E-05 |
| 1.08E+01 | 1.03E-09 | 1.26E-04 | 2.40E-05 | 2.34E-05 | 5.28E-05 | 6.33E-05 | 7.14E-05 | 9.44E-05 |
| 1.14E+01 | 1.05E-09 | 1.21E-04 | 2.36E-05 | 2.32E-05 | 5.20E-05 | 6.25E-05 | 7.11E-05 | 9.44E-05 |
| 1.21E+01 | 9.94E-10 | 1.16E-04 | 2.33E-05 | 2.29E-05 | 5.20E-05 | 6.23E-05 | 7.09E-05 | 9.44E-05 |
| 1.28E+01 | 8.26E-10 | 1.15E-04 | 2.30E-05 | 2.27E-05 | 5.19E-05 | 6.21E-05 | 7.07E-05 | 9.06E-05 |
| 1.35E+01 | 7.38E-10 | 1.15E-04 | 2.27E-05 | 2.22E-05 | 5.19E-05 | 6.20E-05 | 7.04E-05 | 8.45E-05 |
| 1.43E+01 | 6.94E-10 | 1.15E-04 | 2.24E-05 | 2.15E-05 | 5.19E-05 | 6.20E-05 | 7.01E-05 | 8.20E-05 |
| 1.51E+01 | 6.73E-10 | 1.14E-04 | 2.21E-05 | 2.09E-05 | 5.15E-05 | 6.18E-05 | 6.99E-05 | 8.20E-05 |
| 1.60E+01 | 6.63E-10 | 1.14E-04 | 2.18E-05 | 2.02E-05 | 5.13E-05 | 6.12E-05 | 6.95E-05 | 8.19E-05 |
| 1.70E+01 | 6.59E-10 | 1.14E-04 | 2.16E-05 | 1.96E-05 | 5.12E-05 | 6.11E-05 | 6.92E-05 | 8.02E-05 |
| 1.80E+01 | 6.58E-10 | 1.19E-04 | 2.14E-05 | 1.93E-05 | 5.12E-05 | 6.04E-05 | 6.96E-05 | 8.01E-05 |
| 1.90E+01 | 6.57E-10 | 1.19E-04 | 2.11E-05 | 1.88E-05 | 5.04E-05 | 5.99E-05 | 6.89E-05 | 8.00E-05 |

2.01E+01 6.58E-10 1.19E-04 2.07E-05 1.79E-05 5.02E-05 5.93E-05 6.73E-05 7.99E-05

2.13E+01 6.58E-10 1.19E-04 2.03E-05 1.71E-05 4.98E-05 5.92E-05 6.72E-05 7.98E-05

2.25E+01 6.59E-10 1.19E-04 2.00E-05 1.59E-05 4.86E-05 5.84E-05 6.68E-05 7.98E-05

2.38E+01 2.89E-11 1.19E-04 1.96E-05 1.56E-05 4.77E-05 5.76E-05 6.56E-05 7.97E-05

2.52E+01 1.21E-13 1.19E-04 1.92E-05 1.51E-05 4.55E-05 5.76E-05 6.53E-05 7.95E-05

2.67E+01 3.69E-16 1.18E-04 1.87E-05 1.45E-05 4.34E-05 5.65E-05 6.38E-05 7.79E-05

2.82E+01 8.03E-19 1.18E-04 1.84E-05 1.38E-05 4.31E-05 5.63E-05 6.35E-05 7.79E-05

2.99E+01 1.22E-21 1.18E-04 1.80E-05 1.30E-05 4.24E-05 5.61E-05 6.31E-05 7.79E-05

3.00E+01 7.68E-22 1.18E-04 1.80E-05 1.30E-05 4.24E-05 5.61E-05 6.31E-05 7.79E-05

3.16E+01 1.28E-24 1.20E-04 1.78E-05 1.27E-05 4.21E-05 5.59E-05 6.26E-05 7.91E-05

3.35E+01 8.92E-28 1.18E-04 1.76E-05 1.24E-05 4.17E-05 5.57E-05 6.22E-05 7.89E-05

3.54E+01 0.00E+00 1.18E-04 1.73E-05 1.17E-05 4.11E-05 5.53E-05 6.32E-05 8.14E-05

3.75E+01 0.00E+00 1.18E-04 1.71E-05 1.09E-05 4.14E-05 5.49E-05 6.26E-05 8.14E-05

3.97E+01 0.00E+00 1.18E-04 1.68E-05 1.05E-05 4.13E-05 5.49E-05 6.42E-05 8.13E-05

4.20E+01 0.00E+00 1.17E-04 1.66E-05 9.74E-06 4.13E-05 5.46E-05 6.38E-05 8.13E-05

4.44E+01 0.00E+00 1.17E-04 1.63E-05 9.27E-06 4.16E-05 5.44E-05 6.35E-05 8.12E-05

4.70E+01 0.00E+00 1.17E-04 1.60E-05 8.70E-06 4.14E-05 5.60E-05 6.32E-05 8.11E-05

4.97E+01 0.00E+00 1.18E-04 1.58E-05 8.07E-06 4.07E-05 5.54E-05 6.44E-05 8.11E-05

5.26E+01 0.00E+00 1.72E-04 1.57E-05 7.46E-06 4.07E-05 5.47E-05 6.45E-05 8.10E-05

5.57E+01 0.00E+00 1.00E-04 1.52E-05 6.80E-06 4.03E-05 5.47E-05 6.33E-05 7.85E-05

5.90E+01 0.00E+00 9.92E-05 1.49E-05 6.71E-06 3.91E-05 5.39E-05 6.46E-05 7.73E-05

6.24E+01 0.00E+00 9.81E-05 1.47E-05 6.35E-06 3.87E-05 5.38E-05 6.45E-05 7.72E-05

6.0E+01 0.00E+00 9.69E-05 1.44E-05 6.16E-06 3.76E-05 5.32E-05 6.52E-05 7.90E-05

9.99E+01 0.00E+00 9.57E-05 1.41E-05 5.75E-06 3.72E-05 5.27E-05 6.42E-05 8.06E-05

7.39E+01 0.00E+00 9.44E-05 1.38E-05 5.16E-06 3.80E-05 5.24E-05 6.40E-05 8.05E-05

7.82E+01 0.00E+00 1.05E-04 1.36E-05 4.94E-06 3.78E-05 5.36E-05 6.41E-05 8.21E-05

8.28E+01 0.00E+00 1.05E-04 1.33E-05 4.61E-06 3.75E-05 5.21E-05 6.37E-05 8.17E-05

8.76E+01 0.00E+00 1.04E-04 1.30E-05 4.23E-06 3.72E-05 5.19E-05 6.31E-05 8.13E-05

9.27E+01 0.00E+00 1.04E-04 1.29E-05 4.10E-06 3.98E-05 5.18E-05 6.24E-05 8.03E-05

9.81E+01 0.00E+00 1.04E-04 1.27E-05 3.92E-06 3.98E-05 5.14E-05 6.32E-05 8.04E-05

1.00E+02 0.00E+00 1.04E-04 1.26E-05 3.92E-06 3.97E-05 5.11E-05 6.31E-05 8.02E-05

1.04E+02 0.00E+00 1.04E-04 1.25E-05 3.87E-06 3.97E-05 5.06E-05 6.28E-05 7.99E-05

1.10E+02 0.00E+00 1.04E-04 1.23E-05 3.72E-06 3.91E-05 5.07E-05 6.30E-05 8.14E-05

1.16E+02 0.00E+00 1.03E-04 1.22E-05 3.47E-06 3.86E-05 5.05E-05 6.25E-05 8.10E-05

1.23E+02 0.00E+00 1.03E-04 1.20E-05 3.27E-06 3.93E-05 5.02E-05 6.36E-05 8.07E-05

1.30E+02 0.00E+00 1.05E-04 1.19E-05 3.12E-06 3.93E-05 5.03E-05 6.75E-05 8.08E-05

1.38E+02 0.00E+00 1.87E-04 1.18E-05 3.00E-06 3.80E-05 4.98E-05 6.72E-05 8.00E-05

1.46E+02 0.00E+00 1.87E-04 1.15E-05 2.73E-06 3.85E-05 4.93E-05 6.68E-05 7.95E-05

1.54E+02 0.00E+00 1.87E-04 1.14E-05 2.60E-06 3.73E-05 4.94E-05 6.64E-05 7.91E-05

1.63E+02 0.00E+00 1.86E-04 1.13E-05 2.30E-06 3.67E-05 5.10E-05 6.87E-05 8.49E-05

1.73E+02 0.00E+00 1.86E-04 1.11E-05 2.05E-06 3.57E-05 5.03E-05 6.85E-05 8.30E-05

1.83E+02 0.00E+00 1.85E-04 1.08E-05 1.89E-06 3.51E-05 4.87E-05 6.70E-05 8.57E-05

1.94E+02 0.00E+00 1.85E-04 1.04E-05 1.72E-06 3.47E-05 4.80E-05 6.55E-05 8.41E-05

2.05E+02 0.00E+00 2.11E-04 1.03E-05 1.68E-06 3.33E-05 4.92E-05 6.49E-05 8.24E-05

2.17E+02 0.00E+00 2.11E-04 1.02E-05 1.53E-06 3.25E-05 5.10E-05 6.77E-05 8.02E-05

2.29E+02 0.00E+00 1.10E-04 9.51E-06 1.43E-06 3.12E-05 4.94E-05 6.57E-05 7.68E-05

2.43E+02 0.00E+00 1.09E-04 9.18E-06 1.32E-06 2.98E-05 4.68E-05 6.53E-05 7.53E-05

2.57E+02 0.00E+00 1.09E-04 8.79E-06 1.19E-06 3.05E-05 4.52E-05 6.27E-05 7.41E-05

2.72E+02 0.00E+00 1.08E-04 8.53E-06 1.06E-06 2.97E-05 4.63E-05 6.36E-05 7.34E-05

2.88E+02 0.00E+00 1.07E-04 8.00E-06 9.21E-07 2.84E-05 4.49E-05 6.40E-05 7.66E-05

3.00E+02 0.00E+00 1.07E-04 7.78E-06 7.77E-07 2.79E-05 4.33E-05 6.18E-05 7.51E-05

3.05E+02 0.00E+00 1.07E-04 7.73E-06 7.39E-07 2.78E-05 4.22E-05 6.25E-05 7.50E-05

3.22E+02 0.00E+00 1.06E-04 7.34E-06 6.61E-07 2.64E-05 3.64E-05 5.90E-05 7.26E-05

3.41E+02 0.00E+00 1.05E-04 6.78E-06 5.88E-07 2.47E-05 3.61E-05 5.60E-05 7.05E-05

3.61E+02 0.00E+00 1.05E-04 6.26E-06 5.38E-07 2.31E-05 3.23E-05 5.02E-05 6.94E-05

3.82E+02 0.00E+00 1.04E-04 5.77E-06 4.97E-07 2.19E-05 2.97E-05 4.80E-05 6.84E-05

4.04E+02 0.00E+00 1.03E-04 5.50E-06 4.62E-07 2.02E-05 2.85E-05 4.86E-05 7.03E-05

4.28E+02 0.00E+00 1.14E-04 5.37E-06 4.32E-07 1.94E-05 2.73E-05 4.70E-05 6.99E-05

4.53E+02 0.00E+00 1.12E-04 5.10E-06 3.40E-07 1.82E-05 2.63E-05 4.58E-05 6.61E-05

4.79E+02 0.00E+00 1.11E-04 4.57E-06 3.01E-07 1.63E-05 2.42E-05 4.07E-05 6.43E-05

5.07E+02 0.00E+00 1.09E-04 4.30E-06 2.74E-07 1.45E-05 2.36E-05 3.86E-05 6.83E-05

5.36E+02 0.00E+00 1.07E-04 3.76E-06 2.12E-07 1.19E-05 2.19E-05 3.20E-05 6.20E-05

5.68E+02 0.00E+00 1.06E-04 3.65E-06 1.81E-07 1.11E-05 2.08E-05 3.67E-05 6.08E-05

0.01E+02 0.00E+00 1.04E-04 3.52E-06 1.73E-07 1.03E-05 1.93E-05 3.57E-05 5.95E-05

6.36E+02 0.00E+00 1.02E-04 3.28E-06 1.34E-07 8.84E-06 1.82E-05 3.14E-05 5.82E-05

6.73E+02 0.00E+00 9.96E-05 3.18E-06 1.23E-07 6.99E-06 1.78E-05 3.17E-05 5.72E-05

7.12E+02 0.00E+00 9.74E-05 3.01E-06 9.95E-08 6.46E-06 1.66E-05 3.32E-05 5.95E-05

7.53E+02 0.00E+00 9.52E-05 2.71E-06 7.59E-08 4.81E-06 1.45E-05 2.94E-05 6.39E-05

7.97E+02 0.00E+00 9.29E-05 2.42E-06 6.05E-08 4.10E-06 1.31E-05 2.73E-05 5.92E-05

8.44E+02 0.00E+00 9.06E-05 2.13E-06 4.71E-08 3.62E-06 1.18E-05 2.46E-05 3.93E-05

93E+02 0.00E+00 1.22E-04 2.12E-06 3.62E-08 2.51E-06 1.11E-05 2.42E-05 4.52E-05

9.45E+02 0.00E+00 8.48E-05 1.93E-06 2.16E-08 2.33E-06 1.04E-05 2.36E-05 4.15E-05

1.00E+03 0.00E+00 8.31E-05 1.57E-06 2.02E-08 1.62E-06 9.15E-06 1.95E-05 3.79E-05

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA NI-59.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 | 3.481E-05 |
| 2 | 0.000E+00 | 3.474E-05 |
| 3 | 0.000E+00 | 3.549E-05 |

Title : RESRAD Default Parameters
 Input File : FCS BURIED PIPE INSITU UA NI-59.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 | 5 | 0.13 | 5 | 0.13 | 10 | -0.04 | 10 | -0.04 |
| Contaminated zone b parameter | 10 | 0.04 | 10 | 0.04 | 15 | 0.03 | 15 | 0.02 |
| Evapotranspiration coefficient | 6 | 0.11 | 6 | 0.10 | 6 | 0.10 | 6 | 0.09 |
| Wind Speed | 7 | -0.05 | 7 | -0.05 | 14 | -0.03 | 14 | -0.03 |
| Runoff coefficient | 9 | 0.04 | 9 | 0.04 | 12 | 0.03 | 12 | 0.03 |
| b Parameter of Unsaturated zone 1 | 15 | -0.03 | 15 | -0.03 | 9 | -0.05 | 9 | -0.05 |
| Mass loading for inhalation | 14 | 0.03 | 14 | 0.03 | 18 | 0.00 | 18 | 0.00 |
| Indoor dust filtration factor | 13 | -0.03 | 13 | -0.03 | 11 | -0.03 | 11 | -0.03 |
| Depth of soil mixing layer | 8 | -0.05 | 8 | -0.04 | 8 | -0.06 | 8 | -0.05 |
| Depth of roots | 3 | -0.17 | 3 | -0.16 | 1 | -0.20 | 1 | -0.19 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 16 | 0.01 | 16 | 0.01 | 17 | 0.00 | 17 | 0.00 |
| Weathering removal constant of all vegetation | 17 | 0.01 | 17 | 0.01 | 13 | 0.03 | 13 | 0.03 |
| Wet foliar interception fraction of leafy vegetables | 18 | 0.00 | 18 | 0.00 | 7 | -0.06 | 7 | -0.05 |
| Humidity in air | 12 | 0.04 | 12 | 0.03 | 16 | 0.02 | 16 | 0.02 |
| Cover erosion rate | 1 | 0.19 | 2 | 0.18 | 2 | 0.16 | 2 | 0.16 |
| Kd of Ni-59 in Contaminated Zone | 2 | 0.19 | 1 | 0.18 | 5 | 0.11 | 5 | 0.11 |
| Kd of Ni-59 in Saturated Zone | 11 | 0.04 | 11 | 0.03 | 4 | -0.11 | 4 | -0.11 |
| Well pump intake depth | 4 | -0.14 | 4 | -0.13 | 3 | -0.15 | 3 | -0.14 |
| R-SQUARE | | 0.15 | | 0.15 | | 0.12 | | 0.12 |

-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 BURIED PIPE INSITU UA NI-59.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 | 9 | -0.03 | 9 | -0.03 | 7 | -0.10 | 7 | -0.09 |
| Contaminated zone b parameter | 17 | 0.00 | 17 | 0.00 | 12 | 0.05 | 12 | 0.04 |
| Evapotranspiration coefficient | 3 | 0.13 | 3 | 0.12 | 6 | 0.11 | 6 | 0.10 |
| Wind Speed | 13 | 0.02 | 13 | 0.02 | 17 | 0.01 | 17 | 0.01 |
| Runoff coefficient | 6 | 0.06 | 6 | 0.06 | 13 | 0.05 | 13 | 0.04 |
| b Parameter of Unsaturated zone 1 | 11 | 0.03 | 11 | 0.03 | 10 | 0.08 | 10 | 0.07 |
| Mass loading for inhalation | 18 | 0.00 | 18 | 0.00 | 16 | 0.01 | 16 | 0.01 |
| Indoor dust filtration factor | 4 | -0.09 | 4 | -0.09 | 8 | -0.08 | 8 | -0.08 |
| Depth of soil mixing layer | 10 | -0.03 | 10 | -0.03 | 11 | 0.05 | 11 | 0.05 |
| Depth of roots | 2 | -0.14 | 2 | -0.14 | 1 | -0.21 | 1 | -0.19 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 5 | -0.08 | 5 | -0.08 | 9 | -0.08 | 9 | -0.08 |
| Weathering removal constant of all vegetation | 15 | -0.01 | 15 | -0.01 | 15 | -0.03 | 15 | -0.03 |
| Wet foliar interception fraction of leafy vegetables | 16 | 0.01 | 16 | 0.01 | 14 | 0.04 | 14 | 0.04 |
| Humidity in air | 14 | 0.02 | 14 | 0.02 | 18 | 0.00 | 18 | 0.00 |
| Cover erosion rate | 8 | 0.04 | 8 | 0.03 | 4 | 0.16 | 4 | 0.14 |
| Kd of Ni-59 in Contaminated Zone | 7 | 0.05 | 7 | 0.05 | 5 | 0.13 | 5 | 0.12 |
| Kd of Ni-59 in Saturated Zone | 12 | -0.03 | 12 | -0.03 | 3 | -0.18 | 3 | -0.16 |
| Well pump intake depth | 1 | -0.15 | 1 | -0.14 | 2 | -0.20 | 2 | -0.18 |
| R-SQUARE | | 0.08 | | 0.08 | | 0.18 | | 0.18 |

-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 BURIED PIPE INSITU UA NI-59.RAD

Coefficients for peak All Pathways Dose

| Coefficient = | PCC | SRC | PRCC | SRRC |
|---------------|-----|-----|------|------|
| Repetition = | 3 | 3 | 3 | 3 |

| Description of Probabilistic Variable | PCC | | SRC | | PRCC | | SRRC | |
|--|-----|-------|-----|-------|------|-------|------|-------|
| | Sig | Coeff | Sig | Coeff | Sig | Coeff | Sig | Coeff |
| Contaminated zone erosion rate | 13 | 0.02 | 13 | 0.02 | 17 | 0.00 | 17 | 0.00 |
| Contaminated zone b parameter | 17 | 0.01 | 17 | 0.01 | 8 | -0.04 | 8 | -0.04 |
| Evapotranspiration coefficient | 1 | 0.17 | 1 | 0.16 | 2 | 0.16 | 2 | 0.15 |
| Wind Speed | 9 | 0.05 | 9 | 0.04 | 14 | 0.02 | 14 | 0.02 |
| Runoff coefficient | 10 | 0.04 | 10 | 0.04 | 11 | 0.02 | 11 | 0.02 |
| b Parameter of Unsaturated zone 1 | 6 | 0.06 | 6 | 0.06 | 7 | 0.06 | 7 | 0.05 |
| Mass loading for inhalation | 15 | -0.02 | 15 | -0.02 | 13 | -0.02 | 13 | -0.02 |
| Indoor dust filtration factor | 16 | 0.02 | 16 | 0.02 | 12 | 0.02 | 12 | 0.02 |
| Depth of soil mixing layer | 5 | -0.08 | 5 | -0.08 | 6 | -0.07 | 6 | -0.06 |
| Depth of roots | 3 | -0.11 | 3 | -0.11 | 1 | -0.17 | 1 | -0.17 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 18 | 0.01 | 18 | 0.01 | 18 | 0.00 | 18 | 0.00 |
| Weathering removal constant of all vegetation | 11 | 0.03 | 11 | 0.03 | 9 | 0.04 | 9 | 0.03 |
| Wet foliar interception fraction of leafy vegetables | 8 | -0.05 | 8 | -0.05 | 16 | -0.01 | 16 | -0.01 |
| Humidity in air | 12 | -0.03 | 12 | -0.03 | 10 | -0.03 | 10 | -0.03 |
| Cover erosion rate | 4 | 0.10 | 4 | 0.09 | 3 | 0.13 | 3 | 0.12 |
| Kd of Ni-59 in Contaminated Zone | 14 | -0.02 | 14 | -0.02 | 15 | 0.01 | 15 | 0.01 |
| Kd of Ni-59 in Saturated Zone | 7 | -0.06 | 7 | -0.06 | 5 | -0.09 | 5 | -0.08 |
| Well pump intake depth | 2 | -0.12 | 2 | -0.11 | 4 | -0.09 | 4 | -0.09 |
| R-SQUARE | | 0.08 | | 0.08 | | 0.09 | | 0.09 |

-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.