

Bounding dose from deer

kg meat 48.64 kg/yr, assuming 50th percentile consumption of beef and chicken in die
total U activity 0.0205 pCi/g deer meat, max conc. in muscle, Table 3-2 of deer report

| DCFs FGR-11 (ingestion, f1=0.05) | | | |
|----------------------------------|---------------|----------|----------|
| | Sv/Bq | Sv/Ci | mrem/pCi |
| U-238 | 6.88E-08 | 2.55E+03 | 2.55E-04 |
| Th-234 | 3.69E-09 | 1.37E+02 | 1.37E-05 |
| Pa-234m | not available | | |
| U-238+D | 7.25E-08 | 2.68E+03 | 2.68E-04 |
| U-235 | 7.19E-08 | 2.66E+03 | 2.66E-04 |
| Th-231 | 3.65E-10 | 1.35E+01 | 1.35E-06 |
| U-235+D | 7.23E-08 | 2.67E+03 | 2.67E-04 |
| U-234 | 7.66E-08 | 2.83E+03 | 2.83E-04 |

| If all U is natural U | | | | DCF | |
|-----------------------|---------------|----------|-----------|----------|----------|
| | % by activity | pCi/g | pCi/yr | mrem/pCi | mrem/yr |
| U-238 | 48.5 | 9.94E-03 | 483.6032 | 2.68E-04 | 1.30E-01 |
| U-234 | 49.3 | 1.01E-02 | 491.58016 | 2.83E-04 | 1.39E-01 |
| U-235 | 2.2 | 4.51E-04 | 21.93664 | 2.67E-04 | 5.87E-03 |
| | | | | | 2.75E-01 |

| If all U is DU | | | | DCF | |
|----------------|---------------|----------|-----------|----------|----------|
| | % by activity | pCi/g | pCi/yr | mrem/pCi | mrem/yr |
| U-238 | 84.7 | 1.74E-02 | 844.56064 | 2.68E-04 | 2.27E-01 |
| U-234 | 14.2 | 2.91E-03 | 141.59104 | 2.83E-04 | 4.01E-02 |
| U-235 | 1.1 | 2.26E-04 | 10.96832 | 2.67E-04 | 2.93E-03 |
| | | | | | 2.70E-01 |

it is all replaced by consumption of deer meat