

Note: This chart was constructed with the intention of providing a simple, user-friendly, "order-of-magnitude" reference for radiation quantities of interest to scientists, managers, and the general public. In that spirit, most quantities were expressed in the more commonly used radiation protection unit, the rem (or Sievert, 2nd page), and medical doses are not in "effective" dose. It is acknowledged that the decision to use one set of units does not address everyone's needs. (NRC—US Nuclear Regulatory Commission; EPA—US Environmental Protection Agency)

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systems: 4 mrem/yr

from releases in air:

10 mrem/yr

Chart compiled by NF Metting, Office of Science, DOE/BER "Orders of Magnitude" revised March 2006

25 mrem/yr /person

(10-100 urem /scan)

100 mrem/yr = 1 mSv/yr

(ICRP, NCRP)

Absorbed dose: 100 rad = 1 Gray Dose equivalent: 100 rem = 1 Sievert 100 mrem = 1 mSv

(1 rem = 1 rad for x- and gamma-rays)

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