^{90}Sr

Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	2.88 x 10^{1} Years
Origin [1]	Fission
Principal decay mode [1]	Beta
Specific activity [2]	5.2 x 10^{12} Bq/g
Freshwater Kd [3]	1.2 x 10^{3} L kg^{-1}
Marine Kd [4]	2 x 10^{2} L kg^{-1}

Parameters useful for human assessments	Value
CR Pasture grass [4]	1.3 x 10^{0}
CR Freshwater fish [4]	1.4 x 10^{-2} L kg^{-1}
CR Marine fish [3]	1.0 x 10^{0} L kg^{-1}
F_f Cow meat [4]	1.3 x 10^{-3} d kg^{-1}
F_m Cow milk [4]	1.3 x 10^{-3} d kg^{-1}
Human fractional absorption (f1) [5]	0.3
Inhalation dose coefficient [6]	1.6 x 10^{-7} Sv Bq^{-1}
Ingestion dose coefficient [6]	2.8 x 10^{-8} Sv Bq^{-1}
Biological half life for Human (adult) [7]	a: 11 yrs (1.0)
Biological half life for Cow milk [8]	0.5 days (0.93), 3 days (0.06), 16 days (0.004), 315 days (0.0006)
EU Food intervention limit- Dairy [9]	125 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Baby food [9]	75 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Liquid [9]	125 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Other food [9]	750 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Minor food [9]	7 500 Bq L^{-1} or Bq kg^{-1}

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STRATEGY FOR ALLIED RADIOECOLOGY

Commonly used or illustrative parameters

Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil [10]	2.3×10^{3} Bq kg^{-1}
Freshwater EMCL—Water [10]	3.39×10^{-1} Bq L^{-1}
Freshwater EMCL— Sediment [10]	2.65×10^{2} Bq kg^{-1}
Marine EMCL — Water [10]	2.53×10^{1} Bq L^{-1}
Marine EMCL — Sediment [10]	7.46×10^{1} Bq kg^{-1}
CR Terrestrial mammal (rat) [10]	1.7×10^{0}
CR Freshwater fish [10]	8.6×10^{2}
CR Freshwater mollusc [10]	4.6×10^{2}
CR Marine fish [10]	2.5×10^{1}
CR Marine mollusc [10]	1.5×10^{2}
Internal DCC Terrestrial mammal (rat) on soil [11]	6.2×10^{-4} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Terrestrial mammal (rat) in soil [11]	1.2×10^{-10} µGy h^{-1}/Bq kg^{-1} soil
External DCC Terrestrial mammal (rat) on soil [11]	1.6×10^{-11} µGy h^{-1}/Bq kg^{-1} soil
Internal DCC Marine fish (benthic) [11]	6.0×10^{-4} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Marine fish (benthic) in water [11]	5×10^{-5} µGy h^{-1}/Bq L^{-1} water
External DCC Marine fish (benthic) at sediment interface [11]	2.5×10^{-5} µGy h^{-1}/Bq kg^{-1} sediment
Internal DCC Freshwater fish (pelagic) [11]	1.6×10^{-11} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Freshwater fish in water [11]	6.3×10^{-4} µGy h^{-1}/Bq L^{-1} water

All terms used in these tables are described and discussed in underlying documents accessed via the hyperlinks provided

Sources of data reference list
Data compiled: September 2012
Data updated : May 2015