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Part IV: Concentration of Radionuclides

Concentration of radionuclides in different media
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Concentration of radionuclides in environmental media
at t = 0.000E+00 years

Radio-Nuclide	Contaminated Zone pCi/g	Surface Soil* pCi/g	Air Particulate pCi/m**3	Well Water pCi/L	Surface Water pCi/L
Pb-210	1.000E+00	0.000E+00	0.000E+00	1.048E-01	2.347E-03
Ra-226	1.000E+00	0.000E+00	0.000E+00	6.346E-03	1.421E-04

*The Surface Soil is the top layer of soil within the user specified mixing zone/depth.

Concentrations in the media occurring in pathways that are suppressed are calculated using the current input parameters, i.e. using parameters appearing in the input screen when the pathways are active.

Concentration of radionuclides in foodstuff media
at t = 0.000E+00 years*

Radio-Nuclide	Drinking Water pCi/L	Nonleafy Vegetable pCi/kg	Leafy Vegetable pCi/kg	Fodder Meat pCi/kg	Fodder Milk pCi/kg	Meat pCi/kg	Milk pCi/L	Fish pCi/kg	Crustacea pCi/kg
Pb-210	1.048E-01	6.445E-03	1.772E-01	1.010E-01	1.010E-01	4.072E-03	6.636E-03	6.877E-01	2.347E-01
Ra-226	6.346E-03	4.405E-04	1.075E-02	6.162E-03	6.162E-03	3.087E-04	7.218E-05	7.007E-03	3.553E-02

*Concentrations are at consumption time and include radioactive decay and ingrowth during storage time.
For livestock fodder, consumption time is t minus meat or milk storage time.

Concentrations in the media occurring in pathways that are suppressed are calculated using the current input parameters, i.e. using parameters appearing in the input screen when the pathways are active.

Concentration of radionuclides in environmental media
at t = 1.000E+00 years

Radio-Nuclide	Contaminated Zone pCi/g	Surface Soil* pCi/g	Air Particulate pCi/m**3	Well Water pCi/L	Surface Water pCi/L
Pb-210	1.000E+00	0.000E+00	0.000E+00	1.048E-01	2.347E-03
Ra-226	9.996E-01	0.000E+00	0.000E+00	6.343E-03	1.421E-04

*The Surface Soil is the top layer of soil within the user specified mixing zone/depth.

Concentrations in the media occurring in pathways that are suppressed are calculated using the current input parameters, i.e. using parameters appearing in the input screen when the pathways are active.

Concentration of radionuclides in foodstuff media
at t = 1.000E+00 years*

Radio-Nuclide	Drinking Water pCi/L	Nonleafy Vegetable pCi/kg	Leafy Vegetable pCi/kg	Fodder Meat pCi/kg	Fodder Milk pCi/kg	Meat pCi/kg	Milk pCi/L	Fish pCi/kg	Crustacea pCi/kg
Pb-210	1.048E-01	6.437E-03	1.772E-01	1.007E-01	1.007E-01	4.062E-03	6.633E-03	6.873E-01	2.346E-01
Ra-226	6.343E-03	4.403E-04	1.074E-02	6.159E-03	6.159E-03	3.086E-04	7.215E-05	7.004E-03	3.552E-02

*Concentrations are at consumption time and include radioactive decay and ingrowth during storage time.
For livestock fodder, consumption time is t minus meat or milk storage time.

Concentrations in the media occurring in pathways that are suppressed are calculated using the current input parameters, i.e. using parameters appearing in the input screen when the pathways are active.