

Summary : RESRAD Default Parameters

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Time = 0.000E+00 .....	11
Time = 1.000E+00 .....	12
Time = 3.000E+00 .....	13
Time = 1.000E+01 .....	14
Time = 3.000E+01 .....	15
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Dose Conversion Factor (and Related) Parameter Summary

Dose Library: FCS FGR Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
A-1	DCF's for external ground radiation, (mrem/yr)/(pCi/g)			
A-1	Ba-137m (Source: FGR 12)	3.606E+00	3.606E+00	DCF1 ( 1)
A-1	C-14 (Source: FGR 12)	1.345E-05	1.345E-05	DCF1 ( 2)
A-1	Co-60 (Source: FGR 12)	1.622E+01	1.622E+01	DCF1 ( 3)
A-1	Cs-137 (Source: FGR 12)	7.510E-04	7.510E-04	DCF1 ( 4)
A-1	Eu-152 (Source: FGR 12)	7.006E+00	7.006E+00	DCF1 ( 5)
A-1	Gd-152 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 ( 6)
A-1	Ni-63 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 ( 7)
A-1	Sr-90 (Source: FGR 12)	7.043E-04	7.043E-04	DCF1 ( 8)
A-1	Y-90 (Source: FGR 12)	2.391E-02	2.391E-02	DCF1 ( 9)
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	C-14(p) (Class: ORGANIC)	2.090E-06	2.090E-06	DCF2 ( 1)
B-1	C-14(g) (Class: CO2)	2.350E-08	2.350E-08	C14GInhDCF
B-1	Co-60	2.190E-04	2.190E-04	DCF2 ( 2)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2 ( 3)
B-1	Eu-152	2.210E-04	2.210E-04	DCF2 ( 4)
B-1	Gd-152	2.430E-01	2.430E-01	DCF2 ( 6)
B-1	Ni-63	6.290E-06	6.290E-06	DCF2 ( 7)
B-1	Sr-90+D	1.308E-03	1.300E-03	DCF2 ( 8)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	C-14	2.090E-06	2.090E-06	DCF3 ( 1)
D-1	Co-60	2.690E-05	2.690E-05	DCF3 ( 2)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3 ( 3)
D-1	Eu-152	6.480E-06	6.480E-06	DCF3 ( 4)
D-1	Gd-152	1.610E-04	1.610E-04	DCF3 ( 6)
D-1	Ni-63	5.770E-07	5.770E-07	DCF3 ( 7)
D-1	Sr-90+D	1.528E-04	1.420E-04	DCF3 ( 8)
D-34	Food transfer factors:			
D-34	C-14 , plant/soil concentration ratio, dimensionless	1.280E+00	5.500E+00	RTF( 1,1)
D-34	C-14 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.110E-02	3.100E-02	RTF( 1,2)
D-34	C-14 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.250E-02	1.200E-02	RTF( 1,3)
D-34	Co-60 , plant/soil concentration ratio, dimensionless	1.460E-01	8.000E-02	RTF( 2,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.980E-02	2.000E-02	RTF( 2,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.220E-03	2.000E-03	RTF( 2,3)
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	7.830E-02	4.000E-02	RTF( 3,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.560E-02	3.000E-02	RTF( 3,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-02	8.000E-03	RTF( 3,3)
D-34	Eu-152 , plant/soil concentration ratio, dimensionless	4.210E-03	2.500E-03	RTF( 4,1)
D-34	Eu-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.020E-03	2.000E-03	RTF( 4,2)
D-34	Eu-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.120E-04	5.000E-05	RTF( 4,3)
D-34	Gd-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF( 6,1)
D-34	Gd-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF( 6,2)
D-34	Gd-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF( 6,3)

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## Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: FCS FGR Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	Ni-63 , plant/soil concentration ratio, dimensionless	9.130E-02	5.000E-02	RTF( 7,1)
D-34	Ni-63 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	9.260E-03	5.000E-03	RTF( 7,2)
D-34	Ni-63 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.190E-02	2.000E-02	RTF( 7,3)
D-34				
D-34	Sr-90+D , plant/soil concentration ratio, dimensionless	5.900E-01	3.000E-01	RTF( 8,1)
D-34	Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.310E-02	8.000E-03	RTF( 8,2)
D-34	Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.760E-03	2.000E-03	RTF( 8,3)
D-34				
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	C-14 , fish	5.000E+04	5.000E+04	BIOFAC( 1,1)
D-5	C-14 , crustacea and mollusks	9.100E+03	9.100E+03	BIOFAC( 1,2)
D-5				
D-5	Co-60 , fish	3.000E+02	3.000E+02	BIOFAC( 2,1)
D-5	Co-60 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC( 2,2)
D-5				
D-5	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFAC( 3,1)
D-5	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 3,2)
D-5				
D-5	Eu-152 , fish	5.000E+01	5.000E+01	BIOFAC( 4,1)
D-5	Eu-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 4,2)
D-5				
D-5	Gd-152 , fish	2.500E+01	2.500E+01	BIOFAC( 6,1)
D-5	Gd-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC( 6,2)
D-5				
D-5	Ni-63 , fish	1.000E+02	1.000E+02	BIOFAC( 7,1)
D-5	Ni-63 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 7,2)
D-5				
D-5	Sr-90+D , fish	6.000E+01	6.000E+01	BIOFAC( 8,1)
D-5	Sr-90+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC( 8,2)

#For DCF1(xxx) only, factors are for infinite depth &amp; area. See EFTG table in Ground Pathway of Detailed Report.

\*Base Case means Default.Lib w/o Associate Nuclide contributions.

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## Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	5.000E+00	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	1.000E+00	2.000E+00	---	THICK0
R011	Fraction of contamination that is submerged	0.000E+00	0.000E+00	---	SUBMFRAC
R011	Length parallel to aquifer flow (m)	2.240E+00	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	3.000E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T ( 2)
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---	T ( 3)
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---	T ( 4)
R011	Times for calculations (yr)	3.000E+01	3.000E+01	---	T ( 5)
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---	T ( 6)
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---	T ( 7)
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---	T ( 8)
R011	Times for calculations (yr)	not used	0.000E+00	---	T ( 9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): C-14	1.000E+00	0.000E+00	---	S1(1)
R012	Initial principal radionuclide (pCi/g): Co-60	1.000E+00	0.000E+00	---	S1(2)
R012	Initial principal radionuclide (pCi/g): Cs-137	1.000E+00	0.000E+00	---	S1(3)
R012	Initial principal radionuclide (pCi/g): Eu-152	1.000E+00	0.000E+00	---	S1(4)
R012	Initial principal radionuclide (pCi/g): Ni-63	1.000E+00	0.000E+00	---	S1(7)
R012	Initial principal radionuclide (pCi/g): Sr-90	1.000E+00	0.000E+00	---	S1(8)
R012	Concentration in groundwater (pCi/L): C-14	not used	0.000E+00	---	W1( 1)
R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---	W1( 2)
R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1( 3)
R012	Concentration in groundwater (pCi/L): Eu-152	not used	0.000E+00	---	W1( 4)
R012	Concentration in groundwater (pCi/L): Ni-63	not used	0.000E+00	---	W1( 7)
R012	Concentration in groundwater (pCi/L): Sr-90	not used	0.000E+00	---	W1( 8)
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---	DENSCV
R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	7.590E-04	1.000E-03	---	V CZ
R013	Contaminated zone total porosity	4.300E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	2.800E-01	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	3.440E+01	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	2.870E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	3.270E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	not used	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	8.700E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	7.600E-01	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	1.900E-01	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IDITCH
R013	Runoff coefficient	6.300E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	---	EPS
R014	Density of saturated zone (g/cm**3)	1.490E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	4.500E-01	4.000E-01	---	TPSZ

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## Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R014	Saturated zone effective porosity	2.000E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	2.400E-01	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	4.350E+03	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	8.400E-04	2.000E-02	---	HGWT
R014	Saturated zone b parameter	not used	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	0.000E+00	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	2.140E+01	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	4.550E+03	2.500E+02	---	UW
R015	Number of unsaturated zone strata	1	1	---	NS
R015	Unsat. zone 1, thickness (m)	1.000E-01	4.000E+00	---	H (1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ (1)
R015	Unsat. zone 1, total porosity	4.300E-01	4.000E-01	---	TPUZ (1)
R015	Unsat. zone 1, effective porosity	1.600E-01	2.000E-01	---	EPUZ (1)
R015	Unsat. zone 1, field capacity	2.800E-01	2.000E-01	---	FCUZ (1)
R015	Unsat. zone 1, soil-specific b parameter	3.600E+00	5.300E+00	---	BUZ (1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	3.440E+01	1.000E+01	---	HCUZ (1)
R016	Distribution coefficients for C-14				
R016	Contaminated zone (cm**3/g)	9.670E+01	0.000E+00	---	DCNUCC ( 1)
R016	Unsat. zone 1 (cm**3/g)	9.670E+01	0.000E+00	---	DCNUCU ( 1,1)
R016	Saturated zone (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCS ( 1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.215E-04	ALEACH ( 1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 1)
R016	Distribution coefficients for Co-60				
R016	Contaminated zone (cm**3/g)	5.050E+03	1.000E+03	---	DCNUCC ( 2)
R016	Unsat. zone 1 (cm**3/g)	5.050E+03	1.000E+03	---	DCNUCU ( 2,1)
R016	Saturated zone (cm**3/g)	2.600E+02	1.000E+03	---	DCNUCS ( 2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.086E-06	ALEACH ( 2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 2)
R016	Distribution coefficients for Cs-137				
R016	Contaminated zone (cm**3/g)	3.500E+03	4.600E+03	---	DCNUCC ( 3)
R016	Unsat. zone 1 (cm**3/g)	3.500E+03	4.600E+03	---	DCNUCU ( 3,1)
R016	Saturated zone (cm**3/g)	5.280E+02	4.600E+03	---	DCNUCS ( 3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.167E-05	ALEACH ( 3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 3)
R016	Distribution coefficients for Eu-152				
R016	Contaminated zone (cm**3/g)	7.270E+03	-1.000E+00	---	DCNUCC ( 4)
R016	Unsat. zone 1 (cm**3/g)	7.270E+03	-1.000E+00	---	DCNUCU ( 4,1)
R016	Saturated zone (cm**3/g)	8.290E+02	-1.000E+00	---	DCNUCS ( 4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.617E-06	ALEACH ( 4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 4)

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## Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ni-63				
R016	Contaminated zone (cm**3/g)	5.320E+02	1.000E+03	---	DCNUCC ( 7)
R016	Unsaturated zone 1 (cm**3/g)	5.320E+02	1.000E+03	---	DCNUCU ( 7,1)
R016	Saturated zone (cm**3/g)	1.300E+02	1.000E+03	---	DCNUCS ( 7)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.673E-05	ALEACH ( 7)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 7)
R016	Distribution coefficients for Sr-90				
R016	Contaminated zone (cm**3/g)	1.680E+02	3.000E+01	---	DCNUCC ( 8)
R016	Unsaturated zone 1 (cm**3/g)	1.680E+02	3.000E+01	---	DCNUCU ( 8,1)
R016	Saturated zone (cm**3/g)	2.200E+01	3.000E+01	---	DCNUCS ( 8)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.428E-04	ALEACH ( 8)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 8)
R016	Distribution coefficients for daughter Gd-152				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC ( 6)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU ( 6,1)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS ( 6)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.950E-05	ALEACH ( 6)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK ( 6)
R017	Inhalation rate (m**3/yr)	8.600E+03	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	2.870E-05	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED
R017	Shielding factor, inhalation	7.500E-01	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	5.520E-01	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	6.600E-01	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	1.200E-01	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE ( 1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE ( 2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE ( 3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE ( 4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE ( 5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE ( 6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE ( 7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE ( 8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE ( 9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE (10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE (11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE (12)

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## Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA ( 1)
R017	Ring 2	not used	2.732E-01	---	FRACA ( 2)
R017	Ring 3	not used	0.000E+00	---	FRACA ( 3)
R017	Ring 4	not used	0.000E+00	---	FRACA ( 4)
R017	Ring 5	not used	0.000E+00	---	FRACA ( 5)
R017	Ring 6	not used	0.000E+00	---	FRACA ( 6)
R017	Ring 7	not used	0.000E+00	---	FRACA ( 7)
R017	Ring 8	not used	0.000E+00	---	FRACA ( 8)
R017	Ring 9	not used	0.000E+00	---	FRACA ( 9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	2.240E+02	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	4.280E+01	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	2.330E+02	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	6.510E+01	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	1.830E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	4.780E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	1.000E+00	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	1.000E+00	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	-1	-1	0.250E-02	FPLANT
R018	Contamination fraction of meat	-1	-1	0.250E-03	FMEAT
R018	Contamination fraction of milk	-1	-1	0.250E-03	FMILK
R019	Livestock fodder intake for meat (kg/day)	2.710E+01	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	6.321E+01	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	5.060E+01	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	6.000E+01	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	7.000E-01	5.000E-01	---	LSI
R019	Mass loading for foliar deposition (g/m**3)	4.000E-04	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	2.300E-01	1.500E-01	---	DM
R019	Depth of roots (m)	1.230E+00	9.000E-01	---	DROOT
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
R019	Livestock water fraction from ground water	1.000E+00	1.000E+00	---	FGWLW
R019	Irrigation fraction from ground water	1.000E+00	1.000E+00	---	FGWIR
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	1.750E+00	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	2.890E+00	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	1.890E+00	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	2.460E-01	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	1.230E-01	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	8.200E-02	8.000E-02	---	TE(3)

Summary : RESRAD Default Parameters

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## Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R19B	Translocation Factor for Non-Leafy	1.000E-01	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	1.000E+00	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	1.000E+00	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	3.500E-01	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	3.500E-01	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	3.500E-01	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	3.500E-01	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	5.800E-01	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	3.500E-01	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	3.300E+01	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	2.000E-05	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	3.000E-02	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	2.000E-02	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	9.800E-01	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	3.000E-01	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (1/sec)	7.000E-07	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (1/sec)	1.000E-10	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	9.000E-02	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	3.000E-02	2.000E-01	---	AVFG5
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)
STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T(4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
R021	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	not used	3.000E-07	---	DIFFL
R021	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
R021	Height of the building (room) (m)	not used	2.500E+00	---	HRM
R021	Building interior area factor	not used	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA(1)
R021	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA(2)
TITL	Number of graphical time points	128	---	---	NPTS



Summary : RESRAD Default Parameters

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## Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
TITL	Maximum number of integration points for dose	17	---	---	LYMAX
TITL	Maximum number of integration points for risk	1	---	---	KYMAX

## Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	active
2 -- inhalation (w/o radon)	active
3 -- plant ingestion	active
4 -- meat ingestion	active
5 -- milk ingestion	active
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	active
9 -- radon	suppressed
Find peak pathway doses	suppressed

Summary : RESRAD Default Parameters

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Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	5.00 square meters	C-14	1.000E+00
Thickness:	1.00 meters	Co-60	1.000E+00
Cover Depth:	0.00 meters	Cs-137	1.000E+00
		Eu-152	1.000E+00
		Ni-63	1.000E+00
		Sr-90	1.000E+00

Total Dose TDOSE(t), mrem/yr

Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years):	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
TDOSE(t):	3.825E+00	3.484E+00	2.908E+00	1.653E+00	5.363E-01	6.034E-02	5.271E-04	6.159E-09
M(t):	1.530E-01	1.394E-01	1.163E-01	6.610E-02	2.145E-02	2.414E-03	2.108E-05	2.463E-10

Maximum TDOSE(t): 3.825E+00 mrem/yr at t = 0.000E+00 years

Summary : RESRAD Default Parameters

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## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

## Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	3.456E-07	0.0000	1.280E-06	0.0000	0.000E+00	0.0000	9.177E-05	0.0000	2.857E-06	0.0000	2.292E-06	0.0000	2.245E-08	0.0000
Co-60	2.244E+00	0.5866	1.845E-06	0.0000	0.000E+00	0.0000	1.995E-03	0.0005	9.607E-05	0.0000	3.877E-05	0.0000	1.799E-06	0.0000
Cs-137	5.048E-01	0.1320	2.835E-07	0.0000	0.000E+00	0.0000	2.098E-03	0.0005	1.280E-04	0.0000	1.863E-04	0.0000	3.528E-06	0.0000
Eu-152	1.019E+00	0.2663	1.936E-06	0.0000	0.000E+00	0.0000	1.441E-05	0.0000	3.275E-07	0.0000	3.776E-08	0.0000	4.507E-07	0.0000
Ni-63	0.000E+00	0.0000	5.634E-08	0.0000	0.000E+00	0.0000	2.845E-05	0.0000	2.349E-07	0.0000	5.759E-06	0.0000	4.103E-08	0.0000
Sr-90	3.629E-03	0.0009	1.162E-05	0.0000	0.000E+00	0.0000	4.829E-02	0.0126	4.409E-04	0.0001	7.528E-04	0.0002	1.078E-05	0.0000
Total	3.771E+00	0.9858	1.702E-05	0.0000	0.000E+00	0.0000	5.251E-02	0.0137	6.683E-04	0.0002	9.859E-04	0.0003	1.662E-05	0.0000

## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

## Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.857E-05	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.246E+00	0.5872
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.072E-01	0.1326
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.019E+00	0.2663
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.454E-05	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.313E-02	0.0139
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.825E+00	1.0000

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

## Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	4.503E-10	0.0000	1.668E-09	0.0000	0.000E+00	0.0000	1.388E-07	0.0000	6.365E-09	0.0000	4.528E-09	0.0000	2.925E-11	0.0000
Co-60	1.967E+00	0.5647	1.618E-06	0.0000	0.000E+00	0.0000	1.748E-03	0.0005	8.418E-05	0.0000	3.397E-05	0.0000	1.577E-06	0.0000
Cs-137	4.932E-01	0.1416	2.770E-07	0.0000	0.000E+00	0.0000	2.048E-03	0.0006	1.250E-04	0.0000	1.819E-04	0.0001	3.447E-06	0.0000
Eu-152	9.670E-01	0.2776	1.838E-06	0.0000	0.000E+00	0.0000	1.367E-05	0.0000	3.109E-07	0.0000	3.584E-08	0.0000	4.278E-07	0.0000
Ni-63	0.000E+00	0.0000	5.593E-08	0.0000	0.000E+00	0.0000	2.823E-05	0.0000	2.331E-07	0.0000	5.713E-06	0.0000	4.073E-08	0.0000
Sr-90	3.542E-03	0.0010	1.135E-05	0.0000	0.000E+00	0.0000	4.710E-02	0.0135	4.301E-04	0.0001	7.343E-04	0.0002	1.052E-05	0.0000
Total	3.431E+00	0.9849	1.514E-05	0.0000	0.000E+00	0.0000	5.094E-02	0.0146	6.398E-04	0.0002	9.560E-04	0.0003	1.601E-05	0.0000

## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

## Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.519E-07	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.969E+00	0.5653
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.956E-01	0.1423
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.671E-01	0.2776
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.427E-05	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.183E-02	0.0149
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.484E+00	1.0000

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	7.417E-16	0.0000	2.747E-15	0.0000	0.000E+00	0.0000	2.287E-13	0.0000	1.051E-14	0.0000	7.470E-15	0.0000	4.817E-17	0.0000
Co-60	1.512E+00	0.5201	1.243E-06	0.0000	0.000E+00	0.0000	1.342E-03	0.0005	6.463E-05	0.0000	2.608E-05	0.0000	1.212E-06	0.0000
Cs-137	4.710E-01	0.1620	2.645E-07	0.0000	0.000E+00	0.0000	1.953E-03	0.0007	1.192E-04	0.0000	1.735E-04	0.0001	3.291E-06	0.0000
Eu-152	8.715E-01	0.2997	1.656E-06	0.0000	0.000E+00	0.0000	1.230E-05	0.0000	2.802E-07	0.0000	3.229E-08	0.0000	3.856E-07	0.0000
Ni-63	0.000E+00	0.0000	5.512E-08	0.0000	0.000E+00	0.0000	2.777E-05	0.0000	2.294E-07	0.0000	5.623E-06	0.0000	4.014E-08	0.0000
Sr-90	3.376E-03	0.0012	1.081E-05	0.0000	0.000E+00	0.0000	4.482E-02	0.0154	4.093E-04	0.0001	6.988E-04	0.0002	1.003E-05	0.0000
<b>Total</b>	<b>2.858E+00</b>	<b>0.9829</b>	<b>1.403E-05</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>4.816E-02</b>	<b>0.0166</b>	<b>5.936E-04</b>	<b>0.0002</b>	<b>9.040E-04</b>	<b>0.0003</b>	<b>1.495E-05</b>	<b>0.0000</b>

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.502E-13	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.514E+00	0.5206
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.732E-01	0.1627
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.715E-01	0.2997
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.372E-05	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.933E-02	0.0170
<b>Total</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>2.908E+00</b>	<b>1.0000</b>

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

## Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	6.024E-01	0.3645	4.952E-07	0.0000	0.000E+00	0.0000	5.315E-04	0.0003	2.563E-05	0.0000	1.034E-05	0.0000	4.829E-07	0.0000
Cs-137	4.006E-01	0.2424	2.250E-07	0.0000	0.000E+00	0.0000	1.652E-03	0.0010	1.010E-04	0.0001	1.469E-04	0.0001	2.800E-06	0.0000
Eu-152	6.056E-01	0.3665	1.151E-06	0.0000	0.000E+00	0.0000	8.504E-06	0.0000	1.945E-07	0.0000	2.241E-08	0.0000	2.679E-07	0.0000
Ni-63	0.000E+00	0.0000	5.238E-08	0.0000	0.000E+00	0.0000	2.625E-05	0.0000	2.171E-07	0.0000	5.318E-06	0.0000	3.814E-08	0.0000
Sr-90	2.853E-03	0.0017	9.139E-06	0.0000	0.000E+00	0.0000	3.768E-02	0.0228	3.442E-04	0.0002	5.875E-04	0.0004	8.472E-06	0.0000
Total	1.611E+00	0.9751	1.106E-05	0.0000	0.000E+00	0.0000	3.990E-02	0.0241	4.712E-04	0.0003	7.500E-04	0.0005	1.206E-05	0.0000

## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

## Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.030E-01	0.3649
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.025E-01	0.2436
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.056E-01	0.3665
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.188E-05	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.148E-02	0.0251
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.653E+00	1.0000

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	4.341E-02	0.0809	3.569E-08	0.0000	0.000E+00	0.0000	3.771E-05	0.0001	1.824E-06	0.0000	7.345E-07	0.0000	3.480E-08	0.0000
Cs-137	2.523E-01	0.4705	1.417E-07	0.0000	0.000E+00	0.0000	1.025E-03	0.0019	6.292E-05	0.0001	9.131E-05	0.0002	1.763E-06	0.0000
Eu-152	2.140E-01	0.3991	4.068E-07	0.0000	0.000E+00	0.0000	2.960E-06	0.0000	6.864E-08	0.0000	7.890E-09	0.0000	9.469E-08	0.0000
Ni-63	0.000E+00	0.0000	4.526E-08	0.0000	0.000E+00	0.0000	2.234E-05	0.0000	1.855E-07	0.0000	4.535E-06	0.0000	3.296E-08	0.0000
Sr-90	1.764E-03	0.0033	5.650E-06	0.0000	0.000E+00	0.0000	2.294E-02	0.0428	2.097E-04	0.0004	3.578E-04	0.0007	5.238E-06	0.0000
<b>Total</b>	<b>5.115E-01</b>	<b>0.9538</b>	<b>6.279E-06</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>2.402E-02</b>	<b>0.0448</b>	<b>2.747E-04</b>	<b>0.0005</b>	<b>4.543E-04</b>	<b>0.0008</b>	<b>7.163E-06</b>	<b>0.0000</b>

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.345E-02	0.0810
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.535E-01	0.4727
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.140E-01	0.3991
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.714E-05	0.0001
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.528E-02	0.0471
<b>Total</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>5.363E-01</b>	<b>1.0000</b>

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

## Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	4.361E-06	0.0001	3.586E-12	0.0000	0.000E+00	0.0000	3.583E-09	0.0000	1.751E-10	0.0000	7.012E-11	0.0000	3.496E-12	0.0000
Cs-137	5.002E-02	0.8290	2.809E-08	0.0000	0.000E+00	0.0000	1.921E-04	0.0032	1.200E-05	0.0002	1.727E-05	0.0003	3.496E-07	0.0000
Eu-152	5.617E-03	0.0931	1.068E-08	0.0000	0.000E+00	0.0000	7.345E-08	0.0000	1.790E-09	0.0000	2.045E-10	0.0000	2.485E-09	0.0000
Ni-63	0.000E+00	0.0000	2.716E-08	0.0000	0.000E+00	0.0000	1.267E-05	0.0002	1.069E-07	0.0000	2.593E-06	0.0000	1.978E-08	0.0000
Sr-90	3.277E-04	0.0054	1.050E-06	0.0000	0.000E+00	0.0000	4.029E-03	0.0668	3.694E-05	0.0006	6.293E-05	0.0010	9.730E-07	0.0000
Total	5.597E-02	0.9276	1.115E-06	0.0000	0.000E+00	0.0000	4.234E-03	0.0702	4.905E-05	0.0008	8.279E-05	0.0014	1.345E-06	0.0000

## Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

## Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	7.297E-30	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.297E-30	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.365E-06	0.0001
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.024E-02	0.8327
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.617E-03	0.0931
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.542E-05	0.0003
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.459E-03	0.0739
Total	7.297E-30	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.034E-02	1.0000

\*Sum of all water independent and dependent pathways.



Summary : RESRAD Default Parameters

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

## Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	1.647E-17	0.0000	1.354E-23	0.0000	0.000E+00	0.0000	1.131E-20	0.0000	5.733E-22	0.0000	2.253E-22	0.0000	1.321E-23	0.0000
Cs-137	4.912E-04	0.9320	2.759E-10	0.0000	0.000E+00	0.0000	1.577E-06	0.0030	1.044E-07	0.0002	1.461E-07	0.0003	3.433E-09	0.0000
Eu-152	1.708E-07	0.0003	3.246E-13	0.0000	0.000E+00	0.0000	1.866E-12	0.0000	5.345E-14	0.0000	5.990E-15	0.0000	7.555E-14	0.0000
Ni-63	0.000E+00	0.0000	6.311E-09	0.0000	0.000E+00	0.0000	2.461E-06	0.0047	2.187E-08	0.0000	5.172E-07	0.0010	4.596E-09	0.0000
Sr-90	2.672E-06	0.0051	8.559E-09	0.0000	0.000E+00	0.0000	2.746E-05	0.0521	2.545E-07	0.0005	4.309E-07	0.0008	7.935E-09	0.0000
Total	4.941E-04	0.9373	1.515E-08	0.0000	0.000E+00	0.0000	3.150E-05	0.0598	3.807E-07	0.0007	1.094E-06	0.0021	1.596E-08	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

## Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.648E-17	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.930E-04	0.9354
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.708E-07	0.0003
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.011E-06	0.0057
Sr-90	1.971E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.619E-12	0.0000	6.881E-13	0.0000	8.257E-13	0.0000	3.085E-05	0.0585
Total	1.971E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.619E-12	0.0000	6.881E-13	0.0000	8.257E-13	0.0000	5.271E-04	1.0000

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	4.163E-11	0.0068	2.589E-17	0.0000	0.000E+00	0.0000	4.613E-14	0.0000	5.376E-15	0.0000	6.012E-15	0.0000	3.222E-16	0.0000
Eu-152	2.337E-23	0.0000	7.171E-17	0.0000	0.000E+00	0.0000	1.727E-18	0.0000	1.227E-19	0.0000	4.501E-21	0.0000	3.772E-19	0.0000
Ni-63	0.000E+00	0.0000	3.817E-11	0.0062	0.000E+00	0.0000	4.641E-09	0.7536	6.953E-11	0.0113	1.324E-09	0.2150	2.780E-11	0.0045
Sr-90	1.195E-13	0.0000	4.191E-16	0.0000	0.000E+00	0.0000	4.191E-13	0.0001	4.445E-15	0.0000	7.001E-15	0.0000	3.885E-16	0.0000
<b>Total</b>	<b>4.175E-11</b>	<b>0.0068</b>	<b>3.818E-11</b>	<b>0.0062</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>4.642E-09</b>	<b>0.7537</b>	<b>6.954E-11</b>	<b>0.0113</b>	<b>1.324E-09</b>	<b>0.2150</b>	<b>2.780E-11</b>	<b>0.0045</b>

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.169E-11	0.0068
Eu-152	1.339E-19	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.215E-23	0.0000	7.070E-25	0.0000	4.010E-26	0.0000	7.407E-17	0.0000
Ni-63	1.540E-11	0.0025	0.000E+00	0.0000	0.000E+00	0.0000	6.228E-15	0.0000	3.772E-16	0.0000	7.374E-15	0.0000	6.116E-09	0.9931
Sr-90	3.900E-16	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.904E-19	0.0000	1.362E-20	0.0000	1.634E-20	0.0000	5.513E-13	0.0001
<b>Total</b>	<b>1.540E-11</b>	<b>0.0025</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>0.000E+00</b>	<b>0.0000</b>	<b>6.228E-15</b>	<b>0.0000</b>	<b>3.772E-16</b>	<b>0.0000</b>	<b>7.374E-15</b>	<b>0.0000</b>	<b>6.159E-09</b>	<b>1.0000</b>

\*Sum of all water independent and dependent pathways.

Summary : RESRAD Default Parameters

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Dose/Source Ratios Summed Over All Pathways  
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
C-14	C-14	1.000E+00	9.857E-05	1.519E-07	2.502E-13	1.042E-33	0.000E+00	7.300E-30	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	2.246E+00	1.969E+00	1.514E+00	6.030E-01	4.345E-02	4.365E-06	1.648E-17	0.000E+00
Cs-137+D	Cs-137+D	1.000E+00	5.072E-01	4.956E-01	4.732E-01	4.025E-01	2.535E-01	5.024E-02	4.930E-04	4.169E-11
Eu-152	Eu-152	7.208E-01	7.343E-01	6.971E-01	6.282E-01	4.365E-01	1.543E-01	4.049E-03	1.231E-07	1.685E-23
Eu-152	Eu-152	2.792E-01	2.844E-01	2.700E-01	2.433E-01	1.691E-01	5.976E-02	1.568E-03	4.768E-08	6.525E-24
Eu-152	Gd-152	2.792E-01	2.137E-18	6.253E-18	1.386E-17	3.503E-17	6.607E-17	8.198E-17	8.049E-17	7.407E-17
Eu-152	∑DSR(j)		2.844E-01	2.700E-01	2.433E-01	1.691E-01	5.976E-02	1.568E-03	4.768E-08	7.407E-17
Ni-63	Ni-63	1.000E+00	3.454E-05	3.427E-05	3.372E-05	3.188E-05	2.714E-05	1.542E-05	3.011E-06	6.116E-09
Sr-90+D	Sr-90+D	1.000E+00	5.313E-02	5.183E-02	4.933E-02	4.148E-02	2.528E-02	4.459E-03	3.085E-05	5.513E-13

The DSR includes contributions from associated (half-life ≤ 30 days) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Nuclide (i)	t =							
	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
C-14	2.536E+05	1.646E+08	*4.455E+12	*4.455E+12	*4.455E+12	*4.455E+12	*4.455E+12	*4.455E+12
Co-60	1.113E+01	1.269E+01	1.651E+01	4.146E+01	5.754E+02	5.727E+06	*1.132E+15	*1.132E+15
Cs-137	4.929E+01	5.044E+01	5.283E+01	6.211E+01	9.863E+01	4.976E+02	5.071E+04	5.996E+11
Eu-152	2.454E+01	2.585E+01	2.869E+01	4.128E+01	1.168E+02	4.451E+03	1.464E+08	*1.765E+14
Ni-63	7.237E+05	7.295E+05	7.414E+05	7.843E+05	9.212E+05	1.621E+06	8.302E+06	4.087E+09
Sr-90	4.705E+02	4.823E+02	5.068E+02	6.027E+02	9.890E+02	5.607E+03	8.103E+05	4.535E+13

\*At specific activity limit

Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)  
and Single Radionuclide Soil Guidelines G(i,t) in pCi/g  
at t<sub>min</sub> = time of minimum single radionuclide soil guideline  
and at t<sub>max</sub> = time of maximum total dose = 0.000E+00 years

Nuclide (i)	Initial (pCi/g)	t <sub>min</sub> (years)	DSR(i,t <sub>min</sub> )	G(i,t <sub>min</sub> ) (pCi/g)	DSR(i,t <sub>max</sub> )	G(i,t <sub>max</sub> ) (pCi/g)
C-14	1.000E+00	0.000E+00	9.857E-05	2.536E+05	9.857E-05	2.536E+05
Co-60	1.000E+00	0.000E+00	2.246E+00	1.113E+01	2.246E+00	1.113E+01
Cs-137	1.000E+00	0.000E+00	5.072E-01	4.929E+01	5.072E-01	4.929E+01
Eu-152	1.000E+00	0.000E+00	1.019E+00	2.454E+01	1.019E+00	2.454E+01
Ni-63	1.000E+00	0.000E+00	3.454E-05	7.237E+05	3.454E-05	7.237E+05
Sr-90	1.000E+00	0.000E+00	5.313E-02	4.705E+02	5.313E-02	4.705E+02

Summary : RESRAD Default Parameters

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## Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
C-14	C-14	1.000E+00	9.857E-05	1.519E-07	2.502E-13	0.000E+00	0.000E+00	7.297E-30	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	2.246E+00	1.969E+00	1.514E+00	6.030E-01	4.345E-02	4.365E-06	1.648E-17	0.000E+00
Cs-137	Cs-137	1.000E+00	5.072E-01	4.956E-01	4.732E-01	4.025E-01	2.535E-01	5.024E-02	4.930E-04	4.169E-11
Eu-152	Eu-152	7.208E-01	7.343E-01	6.971E-01	6.282E-01	4.365E-01	1.543E-01	4.049E-03	1.231E-07	1.685E-23
Eu-152	Eu-152	2.792E-01	2.844E-01	2.700E-01	2.433E-01	1.691E-01	5.976E-02	1.568E-03	4.768E-08	6.525E-24
Eu-152	ΣDOSE(j)		1.019E+00	9.671E-01	8.715E-01	6.056E-01	2.140E-01	5.617E-03	1.708E-07	2.337E-23
Gd-152	Eu-152	2.792E-01	2.137E-18	6.253E-18	1.386E-17	3.503E-17	6.607E-17	8.198E-17	8.049E-17	7.407E-17
Ni-63	Ni-63	1.000E+00	3.454E-05	3.427E-05	3.372E-05	3.188E-05	2.714E-05	1.542E-05	3.011E-06	6.116E-09
Sr-90	Sr-90	1.000E+00	5.313E-02	5.183E-02	4.933E-02	4.148E-02	2.528E-02	4.459E-03	3.085E-05	5.513E-13

THF(i) is the thread fraction of the parent nuclide.

## Individual Nuclide Soil Concentration

Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
C-14	C-14	1.000E+00	1.000E+00	1.305E-03	2.156E-09	9.067E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	1.000E+00	8.768E-01	6.740E-01	2.684E-01	1.935E-02	1.944E-06	7.341E-18	0.000E+00
Cs-137	Cs-137	1.000E+00	1.000E+00	9.771E-01	9.330E-01	7.936E-01	4.998E-01	9.910E-02	9.732E-04	9.133E-11
Eu-152	Eu-152	7.208E-01	7.208E-01	6.843E-01	6.167E-01	4.285E-01	1.514E-01	3.974E-03	1.208E-07	1.873E-23
Eu-152	Eu-152	2.792E-01	2.792E-01	2.651E-01	2.389E-01	1.660E-01	5.866E-02	1.540E-03	4.681E-08	7.254E-24
Eu-152	ΣS(j):		1.000E+00	9.493E-01	8.555E-01	5.945E-01	2.101E-01	5.514E-03	1.676E-07	2.598E-23
Gd-152	Eu-152	2.792E-01	0.000E+00	1.746E-15	4.977E-15	1.397E-14	2.719E-14	3.413E-14	3.398E-14	3.282E-14
Ni-63	Ni-63	1.000E+00	1.000E+00	9.927E-01	9.783E-01	9.296E-01	8.034E-01	4.821E-01	1.120E-01	6.776E-04
Sr-90	Sr-90	1.000E+00	1.000E+00	9.762E-01	9.304E-01	7.863E-01	4.861E-01	9.030E-02	7.364E-04	3.606E-11

THF(i) is the thread fraction of the parent nuclide.

RESCALC.EXE execution time = 0.86 seconds