

Dose Conversion Factor (and Related) Parameter Summary
 File: FGR 13 Morbidity

0	3	3	3	3	3	3	3	3
Menu	Parameter	Current Value	Default	Parameter Name				
B-1	Dose conversion factors for inhalation, mrem/pCi:							
B-1	Ni-59	2.700E-06	2.700E-06	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Ni-59	2.100E-07	2.100E-07	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Ni-59 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF (1,1)				
D-34	Ni-59 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF (1,2)				
D-34	Ni-59 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Ni-59 , fish	1.000E+02	1.000E+02	BIOFAC (1,1)				
D-5	Ni-59 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (1,2)				

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3	3
Menu	Parameter Name	User Input	Default	Used by RESRAD				
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04	---				
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00	---				
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02	---				
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---				
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---				
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---				
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---				
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---				
R011	Times for calculations (yr)	3.000E+01	3.000E+01	---				
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---				
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---				
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---				
R011	Times for calculations (yr)	not used	0.000E+00	---				
R011	Times for calculations (yr)	not used	0.000E+00	---				
R012	Initial principal radionuclide (pCi/g): Ni-59	1.000E+00	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Ni-59	not used	0.000E+00	---				
R013	Cover depth (m)	0.000E+00	0.000E+00	---				
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---				
R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---				
R013	Density of contaminated zone (g/cm**3)	1.860E+00	1.500E+00	---				
R013	Contaminated zone erosion rate (m/yr)	8.500E-04	1.000E-03	---				
R013	Contaminated zone total porosity	3.500E-01	4.000E-01	---				
R013	Contaminated zone field capacity	1.000E-01	2.000E-01	---				

3	FCCZ								
R013	Contaminated zone hydraulic conductivity (m/yr)	3	5.550E+02	3	1.000E+01	3			---
3	HCCZ								
R013	Contaminated zone b parameter	3	4.380E+00	3	5.300E+00	3			---
3	BCZ								
R013	Average annual wind speed (m/sec)	3	2.030E+00	3	2.000E+00	3			---
3	WIND								
R013	Humidity in air (g/m**3)	3	not used	3	8.000E+00	3			---
3	HUMID								
R013	Evapotranspiration coefficient	3	7.500E-01	3	5.000E-01	3			---
3	EVAPTR								
R013	Precipitation (m/yr)	3	1.200E+00	3	1.000E+00	3			---
3	PRECIP								
R013	Irrigation (m/yr)	3	4.350E-01	3	2.000E-01	3			---
3	RI								
R013	Irrigation mode	3	overhead	3	overhead	3			---
3	IDITCH								
R013	Runoff coefficient	3	6.000E-01	3	2.000E-01	3			---
3	RUNOFF								
R013	Watershed area for nearby stream or pond (m**2)	3	7.770E+05	3	1.000E+06	3			---
3	WAREA								
R013	Accuracy for water/soil computations	3	1.000E-03	3	1.000E-03	3			---
3	EPS								
3									
R014	Density of saturated zone (g/cm**3)	3	2.120E+00	3	1.500E+00	3			---
3	DENSAQ								
R014	Saturated zone total porosity	3	3.000E-01	3	4.000E-01	3			---
3	TPSZ								
R014	Saturated zone effective porosity	3	2.100E-01	3	2.000E-01	3			---
3	EPSZ								
R014	Saturated zone field capacity	3	9.000E-02	3	2.000E-01	3			---
3	FCSZ								
R014	Saturated zone hydraulic conductivity (m/yr)	3	1.000E-01	3	1.000E+02	3			---
3	HCSZ								
R014	Saturated zone hydraulic gradient	3	1.000E-01	3	2.000E-02	3			---
3	HGWT								
R014	Saturated zone b parameter	3	4.900E+00	3	5.300E+00	3			---
3	BSZ								
R014	Water table drop rate (m/yr)	3	1.000E-03	3	1.000E-03	3			---
3	VWT								
R014	Well pump intake depth (m below water table)	3	1.451E+01	3	1.000E+01	3			---
3	DWIBWT								
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	3	ND	3	ND	3			---
3	MODEL								
R014	Well pumping rate (m**3/yr)	3	1.323E+03	3	2.500E+02	3			---
3	UW								
3									
R015	Number of unsaturated zone strata	3	1	3	1	3			---
3	NS								

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Summary : Yankee Rowe Sensitivity Analysis=soil File: NI-59.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter								Used by RESRAD
Menu	3	Parameter							(If different from user
input)	3	Name							

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R015	Unsat. zone 1, thickness (m)	3	1.430E+00	3	4.000E+00	3			---
3	H(1)								
R015	Unsat. zone 1, soil density (g/cm**3)	3	1.860E+00	3	1.500E+00	3			---
3	DENSUZ(1)								
R015	Unsat. zone 1, total porosity	3	3.500E-01	3	4.000E-01	3			---
3	TPUZ(1)								
R015	Unsat. zone 1, effective porosity	3	2.500E-01	3	2.000E-01	3			---
3	EPUZ(1)								
R015	Unsat. zone 1, field capacity	3	1.000E-01	3	2.000E-01	3			---
3	FCUZ(1)								
R015	Unsat. zone 1, soil-specific b parameter	3	4.380E+00	3	5.300E+00	3			---
3	BUZ(1)								
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	3	5.550E+02	3	1.000E+01	3			---
3	HCUZ(1)								
3									
R016	Distribution coefficients for Ni-59	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	4.240E+02	3	1.000E+03	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	4.240E+02	3	1.000E+03	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	4.240E+02	3 1.000E+03	3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3 0.000E+00	3 1.841E-04
3 ALEACH(1)				
R016 3 Solubility constant	3	0.000E+00	3 0.000E+00	3 not used
3 SOLUBK(1)				
3				
R017 3 Inhalation rate (m**3/yr)	3	8.400E+03	3 8.400E+03	3 ---
3 INHALR				
R017 3 Mass loading for inhalation (g/m**3)	3	2.330E-05	3 1.000E-04	3 ---
3 MLINH				
R017 3 Exposure duration	3	3.000E+01	3 3.000E+01	3 ---
3 ED				
R017 3 Shielding factor, inhalation	3	5.500E-01	3 4.000E-01	3 ---
3 SHF3				
R017 3 Shielding factor, external gamma	3	2.725E-01	3 7.000E-01	3 ---
3 SHF1				
R017 3 Fraction of time spent indoors	3	6.571E-01	3 5.000E-01	3 ---
3 FIND				
R017 3 Fraction of time spent outdoors (on site)	3	1.181E-01	3 2.500E-01	3 ---
3 FOTD				
R017 3 Shape factor flag, external gamma	3	1.000E+00	3 1.000E+00	3 >0 shows circular AREA.
3 FS				
R017 3 Radii of shape factor array (used if FS = -1):	3		3	3
3				
R017 3 Outer annular radius (m), ring 1:	3	not used	3 5.000E+01	3 ---
3 RAD_SHAPE(1)				
R017 3 Outer annular radius (m), ring 2:	3	not used	3 7.071E+01	3 ---
3 RAD_SHAPE(2)				
R017 3 Outer annular radius (m), ring 3:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(3)				
R017 3 Outer annular radius (m), ring 4:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(4)				
R017 3 Outer annular radius (m), ring 5:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(5)				
R017 3 Outer annular radius (m), ring 6:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(6)				
R017 3 Outer annular radius (m), ring 7:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(7)				
R017 3 Outer annular radius (m), ring 8:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(8)				
R017 3 Outer annular radius (m), ring 9:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(9)				
R017 3 Outer annular radius (m), ring 10:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(10)				
R017 3 Outer annular radius (m), ring 11:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(11)				
R017 3 Outer annular radius (m), ring 12:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(12)				
3				
R017 3 Fractions of annular areas within AREA:	3		3	3
3				
R017 3 Ring 1	3	not used	3 1.000E+00	3 ---
3 FRACA(1)				
R017 3 Ring 2	3	not used	3 2.732E-01	3 ---
3 FRACA(2)				
R017 3 Ring 3	3	not used	3 0.000E+00	3 ---
3 FRACA(3)				
R017 3 Ring 4	3	not used	3 0.000E+00	3 ---
3 FRACA(4)				
R017 3 Ring 5	3	not used	3 0.000E+00	3 ---
3 FRACA(5)				
R017 3 Ring 6	3	not used	3 0.000E+00	3 ---
3 FRACA(6)				
R017 3 Ring 7	3	not used	3 0.000E+00	3 ---
3 FRACA(7)				
R017 3 Ring 8	3	not used	3 0.000E+00	3 ---
3 FRACA(8)				
R017 3 Ring 9	3	not used	3 0.000E+00	3 ---
3 FRACA(9)				
R017 3 Ring 10	3	not used	3 0.000E+00	3 ---
3 FRACA(10)				
R017 3 Ring 11	3	not used	3 0.000E+00	3 ---
3 FRACA(11)				
R017 3 Ring 12	3	not used	3 0.000E+00	3 ---
3 FRACA(12)				
3				


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R19B 3 Translocation Factor for Leafy          3 1.000E+00 3 1.000E+00 3      ---
3 TIV(2)
R19B 3 Translocation Factor for Fodder         3 1.000E+00 3 1.000E+00 3      ---
3 TIV(3)
R19B 3 Dry Foliar Interception Fraction for Non-Leafy 3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(1)
R19B 3 Dry Foliar Interception Fraction for Leafy    3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(2)
R19B 3 Dry Foliar Interception Fraction for Fodder   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(3)
R19B 3 Wet Foliar Interception Fraction for Non-Leafy 3 3.500E-01 3 2.500E-01 3      ---
3 RWET(1)
R19B 3 Wet Foliar Interception Fraction for Leafy    3 5.800E-01 3 2.500E-01 3      ---
3 RWET(2)
R19B 3 Wet Foliar Interception Fraction for Fodder   3 3.500E-01 3 2.500E-01 3      ---
3 RWET(3)
R19B 3 Weathering Removal Constant for Vegetation    3 3.300E+01 3 2.000E+01 3      ---
3 WLAM
3
C14 3 C-12 concentration in water (g/cm**3)        3 not used 3 2.000E-05 3      ---
3 C12WTR
C14 3 C-12 concentration in contaminated soil (g/g) 3 not used 3 3.000E-02 3      ---
3 C12CZ
C14 3 Fraction of vegetation carbon from soil        3 not used 3 2.000E-02 3      ---
3 CSOIL
C14 3 Fraction of vegetation carbon from air         3 not used 3 9.800E-01 3      ---
3 CAIR
1RESRAD, Version 6.21      T< Limit = 0.5 year      05/21/2003 12:08 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: NI-59.RAD

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Site-Specific Parameter Summary (continued)

0	3	3	3	3	3	3
Parameter	Parameter	User	Default	(If different from user	Used by RESRAD	
Menu	Name	Input	Default	input)		
<pre> AA AAAAAAAAAAAAAAAAAAAAAAAA </pre>						
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01			---
DMC						
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07			---
EVSN						
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10			---
REVSN						
C14	Fraction of grain in beef cattle feed	not used	8.000E-01			---
AVFG4						
C14	Fraction of grain in milk cow feed	not used	2.000E-01			---
AVFG5						
C14	DCF correction factor for gaseous forms of C14	not used	8.894E+01			---
CO2F						
<pre> 3 STOR 3 Storage times of contaminated foodstuffs (days): 3 3 3 3 STOR 3 Fruits, non-leafy vegetables, and grain 3 1.400E+01 3 1.400E+01 3 3 3 3 STOR_T(1) STOR 3 Leafy vegetables 3 1.000E+00 3 1.000E+00 3 3 3 3 STOR_T(2) STOR 3 Milk 3 1.000E+00 3 1.000E+00 3 3 3 3 STOR_T(3) STOR 3 Meat and poultry 3 2.000E+01 3 2.000E+01 3 3 3 3 STOR_T(4) STOR 3 Fish 3 7.000E+00 3 7.000E+00 3 3 3 3 STOR_T(5) STOR 3 Crustacea and mollusks 3 7.000E+00 3 7.000E+00 3 3 3 3 STOR_T(6) STOR 3 Well water 3 1.000E+00 3 1.000E+00 3 3 3 3 STOR_T(7) STOR 3 Surface water 3 1.000E+00 3 1.000E+00 3 3 3 3 STOR_T(8) STOR 3 Livestock fodder 3 4.500E+01 3 4.500E+01 3 3 3 3 STOR_T(9) 3 R021 3 Thickness of building foundation (m) 3 not used 3 1.500E-01 3 3 3 3 FLOOR1 R021 3 Bulk density of building foundation (g/cm**3) 3 not used 3 2.400E+00 3 3 3 3 DENSFL R021 3 Total porosity of the cover material 3 not used 3 4.000E-01 3 3 3 3 TPCV R021 3 Total porosity of the building foundation 3 not used 3 1.000E-01 3 3 3 3 TPFL </pre>						

Dose Conversion Factor (and Related) Parameter Summary
 File: FGR 13 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ni-63	6.290E-06	6.290E-06	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ni-63	5.770E-07	5.770E-07	DCF3 (1)
D-34	Food transfer factors:			
D-34	Ni-63 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF (1,1)
D-34	Ni-63 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF (1,2)
D-34	Ni-63 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	RTF (1,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Ni-63 , fish	1.000E+02	1.000E+02	BIOFAC (1,1)
D-5	Ni-63 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (1,2)

Site-Specific Parameter Summary

Menu	Parameter Name	User Input	Default	Used by RESRAD (If different from user)
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04	---
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00	---
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02	---
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---
R011	Times for calculations (yr)	3.000E+01	3.000E+01	---
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---
R011	Times for calculations (yr)	not used	0.000E+00	---
R011	Times for calculations (yr)	not used	0.000E+00	---
R012	Initial principal radionuclide (pCi/g): Ni-63	1.000E+00	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Ni-63	not used	0.000E+00	---
R013	Cover depth (m)	0.000E+00	0.000E+00	---
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---
R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---
R013	Density of contaminated zone (g/cm**3)	1.860E+00	1.500E+00	---
R013	Contaminated zone erosion rate (m/yr)	8.500E-04	1.000E-03	---
R013	Contaminated zone total porosity	3.500E-01	4.000E-01	---
R013	Contaminated zone field capacity	1.000E-01	2.000E-01	---

3 FCCZ								
R013	3	Contaminated zone hydraulic conductivity (m/yr)	3	5.550E+02	3	1.000E+01	3	---
3 HCCZ								
R013	3	Contaminated zone b parameter	3	4.380E+00	3	5.300E+00	3	---
3 BCZ								
R013	3	Average annual wind speed (m/sec)	3	2.030E+00	3	2.000E+00	3	---
3 WIND								
R013	3	Humidity in air (g/m**3)	3	not used	3	8.000E+00	3	---
3 HUMID								
R013	3	Evapotranspiration coefficient	3	7.500E-01	3	5.000E-01	3	---
3 EVAPTR								
R013	3	Precipitation (m/yr)	3	1.200E+00	3	1.000E+00	3	---
3 PRECIP								
R013	3	Irrigation (m/yr)	3	4.350E-01	3	2.000E-01	3	---
3 RI								
R013	3	Irrigation mode	3	overhead	3	overhead	3	---
3 IDITCH								
R013	3	Runoff coefficient	3	6.000E-01	3	2.000E-01	3	---
3 RUNOFF								
R013	3	Watershed area for nearby stream or pond (m**2)	3	7.770E+05	3	1.000E+06	3	---
3 WAREA								
R013	3	Accuracy for water/soil computations	3	1.000E-03	3	1.000E-03	3	---
3 EPS								
3								
R014	3	Density of saturated zone (g/cm**3)	3	2.120E+00	3	1.500E+00	3	---
3 DENSAQ								
R014	3	Saturated zone total porosity	3	3.000E-01	3	4.000E-01	3	---
3 TPSZ								
R014	3	Saturated zone effective porosity	3	2.100E-01	3	2.000E-01	3	---
3 EPSZ								
R014	3	Saturated zone field capacity	3	9.000E-02	3	2.000E-01	3	---
3 FCSZ								
R014	3	Saturated zone hydraulic conductivity (m/yr)	3	1.000E-01	3	1.000E+02	3	---
3 HCSZ								
R014	3	Saturated zone hydraulic gradient	3	1.000E-01	3	2.000E-02	3	---
3 HGWT								
R014	3	Saturated zone b parameter	3	4.900E+00	3	5.300E+00	3	---
3 BSZ								
R014	3	Water table drop rate (m/yr)	3	1.000E-03	3	1.000E-03	3	---
3 VWT								
R014	3	Well pump intake depth (m below water table)	3	1.451E+01	3	1.000E+01	3	---
3 DWIBWT								
R014	3	Model: Nondispersion (ND) or Mass-Balance (MB)	3	ND	3	ND	3	---
3 MODEL								
R014	3	Well pumping rate (m**3/yr)	3	1.323E+03	3	2.500E+02	3	---
3 UW								
3								
R015	3	Number of unsaturated zone strata	3	1	3	1	3	---
3 NS								

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Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Ni-63.RAD

Site-Specific Parameter Summary (continued)

0	3		3	User	3		3	Used by RESRAD
3		Parameter						
Menu	3	Parameter	3	Input	3	Default	3	(If different from user
input)	3	Name						

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R015	3	Unsat. zone 1, thickness (m)	3	1.430E+00	3	4.000E+00	3	---
3 H(1)								
R015	3	Unsat. zone 1, soil density (g/cm**3)	3	1.860E+00	3	1.500E+00	3	---
3 DENSUZ(1)								
R015	3	Unsat. zone 1, total porosity	3	3.500E-01	3	4.000E-01	3	---
3 TPUZ(1)								
R015	3	Unsat. zone 1, effective porosity	3	2.500E-01	3	2.000E-01	3	---
3 EPUZ(1)								
R015	3	Unsat. zone 1, field capacity	3	1.000E-01	3	2.000E-01	3	---
3 FCUZ(1)								
R015	3	Unsat. zone 1, soil-specific b parameter	3	4.380E+00	3	5.300E+00	3	---
3 BUZ(1)								
R015	3	Unsat. zone 1, hydraulic conductivity (m/yr)	3	5.550E+02	3	1.000E+01	3	---
3 HCUZ(1)								
3								
R016	3	Distribution coefficients for Ni-63	3		3		3	
3								
R016	3	Contaminated zone (cm**3/g)	3	4.240E+02	3	1.000E+03	3	---
3 DCNUCC(1)								
R016	3	Unsaturated zone 1 (cm**3/g)	3	4.240E+02	3	1.000E+03	3	---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	4.240E+02	3 1.000E+03	3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3 0.000E+00	3 1.841E-04
3 ALEACH(1)				
R016 3 Solubility constant	3	0.000E+00	3 0.000E+00	3 not used
3 SOLUBK(1)				
3				
R017 3 Inhalation rate (m**3/yr)	3	8.400E+03	3 8.400E+03	3 ---
3 INHALR				
R017 3 Mass loading for inhalation (g/m**3)	3	2.330E-05	3 1.000E-04	3 ---
3 MLINH				
R017 3 Exposure duration	3	3.000E+01	3 3.000E+01	3 ---
3 ED				
R017 3 Shielding factor, inhalation	3	5.500E-01	3 4.000E-01	3 ---
3 SHF3				
R017 3 Shielding factor, external gamma	3	2.725E-01	3 7.000E-01	3 ---
3 SHF1				
R017 3 Fraction of time spent indoors	3	6.571E-01	3 5.000E-01	3 ---
3 FIND				
R017 3 Fraction of time spent outdoors (on site)	3	1.181E-01	3 2.500E-01	3 ---
3 FOTD				
R017 3 Shape factor flag, external gamma	3	1.000E+00	3 1.000E+00	3 >0 shows circular AREA.
3 FS				
R017 3 Radii of shape factor array (used if FS = -1):	3		3	3
3				
R017 3 Outer annular radius (m), ring 1:	3	not used	3 5.000E+01	3 ---
3 RAD_SHAPE(1)				
R017 3 Outer annular radius (m), ring 2:	3	not used	3 7.071E+01	3 ---
3 RAD_SHAPE(2)				
R017 3 Outer annular radius (m), ring 3:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(3)				
R017 3 Outer annular radius (m), ring 4:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(4)				
R017 3 Outer annular radius (m), ring 5:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(5)				
R017 3 Outer annular radius (m), ring 6:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(6)				
R017 3 Outer annular radius (m), ring 7:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(7)				
R017 3 Outer annular radius (m), ring 8:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(8)				
R017 3 Outer annular radius (m), ring 9:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(9)				
R017 3 Outer annular radius (m), ring 10:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(10)				
R017 3 Outer annular radius (m), ring 11:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(11)				
R017 3 Outer annular radius (m), ring 12:	3	not used	3 0.000E+00	3 ---
3 RAD_SHAPE(12)				
3				
R017 3 Fractions of annular areas within AREA:	3		3	3
3				
R017 3 Ring 1	3	not used	3 1.000E+00	3 ---
3 FRACA(1)				
R017 3 Ring 2	3	not used	3 2.732E-01	3 ---
3 FRACA(2)				
R017 3 Ring 3	3	not used	3 0.000E+00	3 ---
3 FRACA(3)				
R017 3 Ring 4	3	not used	3 0.000E+00	3 ---
3 FRACA(4)				
R017 3 Ring 5	3	not used	3 0.000E+00	3 ---
3 FRACA(5)				
R017 3 Ring 6	3	not used	3 0.000E+00	3 ---
3 FRACA(6)				
R017 3 Ring 7	3	not used	3 0.000E+00	3 ---
3 FRACA(7)				
R017 3 Ring 8	3	not used	3 0.000E+00	3 ---
3 FRACA(8)				
R017 3 Ring 9	3	not used	3 0.000E+00	3 ---
3 FRACA(9)				
R017 3 Ring 10	3	not used	3 0.000E+00	3 ---
3 FRACA(10)				
R017 3 Ring 11	3	not used	3 0.000E+00	3 ---
3 FRACA(11)				
R017 3 Ring 12	3	not used	3 0.000E+00	3 ---
3 FRACA(12)				
3				

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3	3	3	
Parameter	Parameter	User	Input	Default	(If different from user	Used by RESRAD		
Menu input)	Name							
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
	DIET(1)							
	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
	DIET(2)							
	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
	DIET(3)							
	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
	DIET(4)							
	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
	DIET(5)							
	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
	DIET(6)							
	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
	SOIL							
	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
	DWI							
	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
	FDW							
	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
	FHHW							
	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
	FLW							
	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
	FIRW							
	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
	FR9							
	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
	FPLANT							
	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
	FMEAT							
	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
	FMILK							
	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
	LFI5							
	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
	LFI6							
	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
	LWI5							
	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
	LWI6							
	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
	LSI							
	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
	MLFD							
	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
	DM							
	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
	DROOT							
	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
	FGWDW							
	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
	FGWHH							
	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
	FGWLW							
	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
	FGWIR							
	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
	YV(1)							
	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
	YV(2)							
	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
	YV(3)							
	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
	TE(1)							
	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
	TE(2)							
	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
	TE(3)							
	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
	TIV(1)							

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R19B 3 Translocation Factor for Leafy          3 1.000E+00 3 1.000E+00 3      ---
3 TIV(2)
R19B 3 Translocation Factor for Fodder        3 1.000E+00 3 1.000E+00 3      ---
3 TIV(3)
R19B 3 Dry Foliar Interception Fraction for Non-Leafy 3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(1)
R19B 3 Dry Foliar Interception Fraction for Leafy    3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(2)
R19B 3 Dry Foliar Interception Fraction for Fodder    3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(3)
R19B 3 Wet Foliar Interception Fraction for Non-Leafy 3 3.500E-01 3 2.500E-01 3      ---
3 RWET(1)
R19B 3 Wet Foliar Interception Fraction for Leafy    3 5.800E-01 3 2.500E-01 3      ---
3 RWET(2)
R19B 3 Wet Foliar Interception Fraction for Fodder    3 3.500E-01 3 2.500E-01 3      ---
3 RWET(3)
R19B 3 Weathering Removal Constant for Vegetation    3 3.300E+01 3 2.000E+01 3      ---
3 WLAM
3
C14 3 C-12 concentration in water (g/cm**3)        3 not used 3 2.000E-05 3      ---
3 C12WTR
C14 3 C-12 concentration in contaminated soil (g/g) 3 not used 3 3.000E-02 3      ---
3 C12CZ
C14 3 Fraction of vegetation carbon from soil        3 not used 3 2.000E-02 3      ---
3 CSOIL
C14 3 Fraction of vegetation carbon from air        3 not used 3 9.800E-01 3      ---
3 CAIR
lRESRAD, Version 6.21      T< Limit = 0.5 year      04/29/2003 18:18 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Ni-63.RAD

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Site-Specific Parameter Summary (continued)

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0      3      User      3      3      Used by RESRAD
3 Parameter
Menu 3      Parameter      3      Input      3      Default      3      (If different from user
input) 3      Name

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C14 3 C-14 evasion layer thickness in soil (m)      3 not used 3 3.000E-01 3      ---
3 DMC
C14 3 C-14 evasion flux rate from soil (1/sec)     3 not used 3 7.000E-07 3      ---
3 EVSN
C14 3 C-12 evasion flux rate from soil (1/sec)     3 not used 3 1.000E-10 3      ---
3 REVSN
C14 3 Fraction of grain in beef cattle feed        3 not used 3 8.000E-01 3      ---
3 AVFG4
C14 3 Fraction of grain in milk cow feed           3 not used 3 2.000E-01 3      ---
3 AVFG5
C14 3 DCF correction factor for gaseous forms of C14 3 not used 3 8.894E+01 3      ---
3 CO2F
3
STOR 3 Storage times of contaminated foodstuffs (days): 3      3      3
3
STOR 3 Fruits, non-leafy vegetables, and grain    3 1.400E+01 3 1.400E+01 3      ---
3 STOR_T(1)
STOR 3 Leafy vegetables                          3 1.000E+00 3 1.000E+00 3      ---
3 STOR_T(2)
STOR 3 Milk                                        3 1.000E+00 3 1.000E+00 3      ---
3 STOR_T(3)
STOR 3 Meat and poultry                          3 2.000E+01 3 2.000E+01 3      ---
3 STOR_T(4)
STOR 3 Fish                                        3 7.000E+00 3 7.000E+00 3      ---
3 STOR_T(5)
STOR 3 Crustacea and mollusks                    3 7.000E+00 3 7.000E+00 3      ---
3 STOR_T(6)
STOR 3 Well water                                3 1.000E+00 3 1.000E+00 3      ---
3 STOR_T(7)
STOR 3 Surface water                              3 1.000E+00 3 1.000E+00 3      ---
3 STOR_T(8)
STOR 3 Livestock fodder                          3 4.500E+01 3 4.500E+01 3      ---
3 STOR_T(9)
3
R021 3 Thickness of building foundation (m)        3 not used 3 1.500E-01 3      ---
3 FLOOR1
R021 3 Bulk density of building foundation (g/cm**3) 3 not used 3 2.400E+00 3      ---
3 DENSFL
R021 3 Total porosity of the cover material        3 not used 3 4.000E-01 3      ---
3 TPCV
R021 3 Total porosity of the building foundation    3 not used 3 1.000E-01 3      ---
3 TPFL

```

