

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

Menu	Parameter	Current Value	Default	Parameter Name
Dose conversion factors for inhalation, mrem/pCi:				
B-1	H-3	6.400E-08	6.400E-08	DCF2(1)
Dose conversion factors for ingestion, mrem/pCi:				
D-1	H-3	6.400E-08	6.400E-08	DCF3(1)
Food transfer factors:				
D-34	H-3, plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(1,1)
D-34	H-3, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF(1,2)
D-34	H-3, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(1,3)
Bioaccumulation factors, fresh water, L/kg:				
D-5	H-3, fish	1.000E+00	1.000E+00	BIOFAC(1,1)
D-5	H-3, crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC(1,2)

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)	1.302E+04	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00	---	THICKO
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+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): H-3	8.527E+02	0.000E+00	---	S1 (1)
R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1 (1)
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVERO
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)	1.860E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	8.500E-04	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	3.500E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	1.000E-01	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	4.380E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	2.030E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	6.100E+00	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	7.500E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	1.200E+00	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	4.350E-01	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IDITCH
R013	Runoff coefficient	6.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	7.770E+05	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)	2.120E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	3.000E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	2.100E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	9.000E-02	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	1.000E-01	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	1.000E-01	2.000E-02	---	HGWT
R014	Saturated zone b parameter	4.900E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	1.451E+01	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	1.323E+03	2.500E+02	---	UW
R015	Number of unsaturated zone strata	1	1	---	NS

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R015	Unsat. zone 1, thickness (m)	1.430E+00	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.860E+00	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	3.500E-01	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	2.500E-01	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, field capacity	1.000E-01	2.000E-01	---	FCUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	4.380E+00	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---	HCUZ(1)
R016	Distribution coefficients for H-3				
R016	Contaminated zone (cm**3/g)	6.000E-02	0.000E+00	---	DCNUCC(1)
R016	Unsaturated zone 1 (cm**3/g)	6.000E-02	0.000E+00	---	DCNUCU(1,1)
R016	Saturated zone (cm**3/g)	6.000E-02	0.000E+00	---	DCNUCS(1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.974E-01	ALEACH(1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(1)
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	2.330E-05	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED
R017	Shielding factor, inhalation	5.500E-01	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	2.725E-01	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	6.571E-01	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	1.181E-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)
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)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R018	Fruits, vegetables and grain consumption (kg/yr)	1.120E+02	1.600E+02	---	DIET (1)
R018	Leafy vegetable consumption (kg/yr)	2.140E+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)	2.060E+01	5.400E+00	---	DIET (5)
R018	Other seafood consumption (kg/yr)	9.000E-01	9.000E-01	---	DIET (6)
R018	Soil ingestion rate (g/yr)	1.826E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	4.785E+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	1.000E+00	5.000E-01	---	FR9
R018	Contamination fraction of plant food	1.000E+00	-1	---	FPLANT
R018	Contamination fraction of meat	1.000E+00	-1	---	FMEAT
R018	Contamination fraction of milk	1.000E+00	-1	---	FMLK
R019	Livestock fodder intake for meat (kg/day)	2.710E+01	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	6.320E+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)	5.000E-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)	2.150E+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)	2.889E+00	1.500E+00	---	YV (2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	1.887E+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)
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)	not used	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
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
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	32	---	---	NPTS
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	³	User Selection
1 -- external gamma	³	active
2 -- inhalation (w/o radon)	³	active
3 -- plant ingestion	³	active
4 -- meat ingestion	³	active
5 -- milk ingestion	³	active
6 -- aquatic foods	³	active
7 -- drinking water	³	active
8 -- soil ingestion	³	active
9 -- radon	³	suppressed
Find peak pathway doses	³	active

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	C-14	2.090E-06	2.090E-06	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	C-14	2.090E-06	2.090E-06	DCF3 (1)
D-34	Food transfer factors:			
D-34	C-14 , plant/soil concentration ratio, dimensionless	5.500E+00	5.500E+00	RTF (1,1)
D-34	C-14 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.100E-02	3.100E-02	RTF (1,2)
D-34	C-14 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.200E-02	1.200E-02	RTF (1,3)
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)

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): C-14	1.123E+01	0.000E+00	---
R012	Concentration in groundwater (pCi/L): C-14	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								

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:09 Page 4
Summary : DCGL to Dose for C-14 File: C-14.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 C-14	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	1.100E+01	3	0.000E+00	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	1.100E+01	3	0.000E+00	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	1.100E+01	3	0.000E+00 3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 7.037E-03
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				
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				
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	
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	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	---
3	DIET(2)						
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	---
3	DIET(3)						
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	---
3	DIET(4)						
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	---
3	DIET(5)						
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	---
3	DIET(6)						
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	---
3	SOIL						
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	---
3	DWI						
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	---
3	FDW						
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	---
3	FHHW						
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	---
3	FLW						
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	---
3	FIRW						
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	---
3	FR9						
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	---
3	FPLANT						
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	---
3	FMEAT						
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	---
3	FMILK						
3							
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	---
3	LFI5						
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	---
3	LFI6						
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	---
3	LWI5						
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	---
3	LWI6						
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	---
3	LSI						
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	---
3	MLFD						
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	---
3	DM						
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	---
3	DROOT						
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWDW						
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	---
3	FGWHH						
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWLW						
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWIR						
3							
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	---
3	YV(1)						
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	---
3	YV(2)						
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	---
3	YV(3)						
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	---
3	TE(1)						
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	---
3	TE(2)						
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	---
3	TE(3)						
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	---
3	TIV(1)						

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	2.000E-05	3	2.000E-05	3	---
3	C12WTR							
C14	3	C-12 concentration in contaminated soil (g/g)	3	3.000E-02	3	3.000E-02	3	---
3	C12CZ							
C14	3	Fraction of vegetation carbon from soil	3	2.000E-02	3	2.000E-02	3	---
3	CSOIL							
C14	3	Fraction of vegetation carbon from air	3	9.800E-01	3	9.800E-01	3	---
3	CAIR							
1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:09 Page 6								
Summary : DCGL to Dose for C-14				File: C-14.rad				

Site-Specific Parameter Summary (continued)

0	3		3	User	3	3	3	Used by RESRAD
3	Parameter		3	Input	3	Default	3	(If different from user
Menu	3	Parameter	3	Input	3	Default	3	(If different from user
input)	3	Name	3		3		3	
AAAAAA	3	C-14 evasion layer thickness in soil (m)	3	3.600E-01	3	3.000E-01	3	---
3	DMC							
C14	3	C-14 evasion flux rate from soil (1/sec)	3	7.000E-07	3	7.000E-07	3	---
3	EVSN							
C14	3	C-12 evasion flux rate from soil (1/sec)	3	1.000E-10	3	1.000E-10	3	---
3	REVSN							
C14	3	Fraction of grain in beef cattle feed	3	2.500E-01	3	8.000E-01	3	---
3	AVFG4							
C14	3	Fraction of grain in milk cow feed	3	1.000E-01	3	2.000E-01	3	---
3	AVFG5							
C14	3	DCF correction factor for gaseous forms of C14	3	8.894E+01	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							

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

Table with 5 columns: Menu, Parameter, Current Value, Default, Parameter Name. Rows include parameters for inhalation, ingestion, and food transfer factors for Mn-54, and bioaccumulation factors for Mn-54.

Site-Specific Parameter Summary

Table with 6 columns: Menu, Parameter Name, User, Input, Default, Used by RESRAD. Rows include parameters for contaminated zone area, thickness, length, radiation dose limit, times for calculations, and radionuclide concentrations.

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: MN-54.RAD

Site-Specific Parameter Summary (continued)

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

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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 Mn-54	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	1.580E+02	3	2.000E+02	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	1.580E+02	3	2.000E+02	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	1.580E+02	3	2.000E+02 3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 4.939E-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				
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				
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	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
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
1RESRAD, Version 6.21      T< Limit = 0.5 year      04/21/2003 20:17 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: MN-54.RAD

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Site-Specific Parameter Summary (continued)

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0 3
3 Parameter 3 User 3 Used by RESRAD
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

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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	Fe-55	2.690E-06	2.690E-06	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Fe-55	6.070E-07	6.070E-07	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (1,1)				
D-34	Fe-55 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF (1,2)				
D-34	Fe-55 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Fe-55 , fish	2.000E+02	2.000E+02	BIOFAC (1,1)				
D-5	Fe-55 , crustacea and mollusks	3.200E+03	3.200E+03	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 (If different from user input)				
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): Fe-55	3.620E+04	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Fe-55	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								

1RESRAD, Version 6.21 T< Limit = 0.5 year 05/31/2003 18:47 Page 4
Summary : Yankee Rowe Sensitivity Analysis=soil File: FE-55.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter			3	User	3			Used by RESRAD
Menu	3	Parameter		3	Input	3	Default	3	(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 Fe-55	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	2.090E+02	3	1.000E+03	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	2.090E+02	3	1.000E+03	3			---

3	DCNUCU(1,1)				
	R016 3 Saturated zone (cm**3/g)	3	2.090E+02	3	1.000E+03 3 ---
3	DCNUCS(1)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 3.734E-04
3	ALEACH(1)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK(1)				
3		3		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					
	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		3		3	
	R017 3 Fractions of annular areas within AREA:	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		3		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				input)			
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
3	TIV(1)							

```

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      05/31/2003 18:47 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: FE-55.RAD

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Site-Specific Parameter Summary (continued)

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

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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-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

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-59	4.007E+03	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		3	User	3		3	Used by RESRAD
Menu	3	Parameter	3	Input	3	Default	3	(If different from user
input)	3	Name						

AA
AAAAAAAAAAAAAAAAAAAAAAAA

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		3		3		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		3		3		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		3		3		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				input)			
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
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
1RESRAD, Version 6.21      T< Limit = 0.5 year      04/25/2003 10:55 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: NI-59.RAD

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Site-Specific Parameter Summary (continued)

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

```


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	1.464E+03	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	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: YR_Ni-63.RAD

Site-Specific Parameter Summary (continued)

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

AA
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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-63	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		3		3		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		3		3		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		3		3		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	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
3	TIV(1)							

```

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      04/29/2003 19:36 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Ni-63.RAD

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Site-Specific Parameter Summary (continued)

```

0      3
3 Parameter      3 User      3 Used by RESRAD
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
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

```


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	Co-60	2.190E-04	2.190E-04	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Co-60	2.690E-05	2.690E-05	DCF3 (1)
D-34	Food transfer factors:			
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF (1,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF (1,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF (1,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Co-60 , fish	3.000E+02	3.000E+02	BIOFAC (1,1)
D-5	Co-60 , crustacea and mollusks	2.000E+02	2.000E+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): Co-60	4.838E+00	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Co-60	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 : DCGL to Dose for Co-60 File: Co-60.RAD

Site-Specific Parameter Summary (continued)

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

AA
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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 Co-60	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	2.350E+02	3	1.000E+03	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	2.350E+02	3	1.000E+03	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	2.350E+02	3	1.000E+03 3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 3.321E-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				
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				
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				input)			
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   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(1)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(2)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(3)
R19B 3 Wet Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RWET(1)
R19B 3 Wet Foliar Interception Fraction for   3 5.800E-01 3 2.500E-01 3      ---
3 RWET(2)
R19B 3 Wet Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RWET(3)
R19B 3 Weathering Removal Constant for Vegeta 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 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      04/21/2003 16:51 Page 6
Summary : DCGL to Dose for Co-60                      File: Co-60.RAD

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Site-Specific Parameter Summary (continued)

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0      3
3 Parameter                               3 User 3 Used by RESRAD
Menu 3 Parameter                          3 Input 3 Default 3 (If different from user
input) 3 Name
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
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 3 not used 3 8.894E+01 3      ---
3 CO2F
3
STOR 3 Storage times of contaminated foodstuff 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

```


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	Sr-90+D	1.310E-03	1.310E-03	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Sr-90+D	1.530E-04	1.530E-04	DCF3 (1)
D-34	Food transfer factors:			
D-34	Sr-90+D , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF (1,1)
D-34	Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	RTF (1,2)
D-34	Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF (1,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Sr-90+D , fish	6.000E+01	6.000E+01	BIOFAC (1,1)
D-5	Sr-90+D , 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): Sr-90	2.680E+00	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Sr-90	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_Sr-90.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						

AA
AAAAAAAAAAAAAAAAAAAAAAAA

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 Sr-90	3		3		3		---
3								
R016	3 Contaminated zone (cm**3/g)	3	3.200E+01	3	3.000E+01	3		---
3 DCNUCC(1)								
R016	3 Unsaturated zone 1 (cm**3/g)	3	3.200E+01	3	3.000E+01	3		---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	3.200E+01	3 3.000E+01	3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3 0.000E+00	3 2.433E-03
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				input)			
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)							

```

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      04/24/2003 16:31 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Sr-90.RAD

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Site-Specific Parameter Summary (continued)

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

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AA

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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

```


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

0	3	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	Nb-94	4.140E-04	4.140E-04	DCF2 (1)					
D-1	Dose conversion factors for ingestion, mrem/pCi:								
D-1	Nb-94	7.140E-06	7.140E-06	DCF3 (1)					
D-34	Food transfer factors:								
D-34	Nb-94 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF (1,1)					
D-34	Nb-94 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	RTF (1,2)					
D-34	Nb-94 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (1,3)					
D-5	Bioaccumulation factors, fresh water, L/kg:								
D-5	Nb-94 , fish	3.000E+02	3.000E+02	BIOFAC (1,1)					
D-5	Nb-94 , 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	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): Nb-94	8.532E+00	0.000E+00	---					
R012	Concentration in groundwater (pCi/L): Nb-94	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: NB-94.RAD

Site-Specific Parameter Summary (continued)

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

AA
AAAAAAAAAAAAAAAAAAAAAAAA

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 Nb-94	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	3.800E+02	3	0.000E+00	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	3.800E+02	3	0.000E+00	3			---

3	DCNUCU(1,1)						
	R016 3 Saturated zone (cm**3/g)	3	3.800E+02	3	0.000E+00	3	---
3	DCNUCS(1)						
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	2.054E-04
3	ALEACH(1)						
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3		3		3		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		3		3		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		3		3		3	

Site-Specific Parameter Summary (continued)

0	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	3	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	---
3	DIET(2)						
R018	3	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	---
3	DIET(3)						
R018	3	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	---
3	DIET(4)						
R018	3	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	---
3	DIET(5)						
R018	3	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	---
3	DIET(6)						
R018	3	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	---
3	SOIL						
R018	3	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	---
3	DWI						
R018	3	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	---
3	FDW						
R018	3	Contamination fraction of household water	3	not used	3	1.000E+00	---
3	FHHW						
R018	3	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	---
3	FLW						
R018	3	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	---
3	FIRW						
R018	3	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	---
3	FR9						
R018	3	Contamination fraction of plant food	3	1.000E+00	3	-1	---
3	FPLANT						
R018	3	Contamination fraction of meat	3	1.000E+00	3	-1	---
3	FMEAT						
R018	3	Contamination fraction of milk	3	1.000E+00	3	-1	---
3	FMILK						
3							
R019	3	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	---
3	LFI5						
R019	3	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	---
3	LFI6						
R019	3	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	---
3	LWI5						
R019	3	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	---
3	LWI6						
R019	3	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	---
3	LSI						
R019	3	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	---
3	MLFD						
R019	3	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	---
3	DM						
R019	3	Depth of roots (m)	3	2.150E+00	3	9.000E-01	---
3	DROOT						
R019	3	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWDW						
R019	3	Household water fraction from ground water	3	not used	3	1.000E+00	---
3	FGWHH						
R019	3	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWLW						
R019	3	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWIR						
3							
R19B	3	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	---
3	YV(1)						
R19B	3	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	---
3	YV(2)						
R19B	3	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	---
3	YV(3)						
R19B	3	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	---
3	TE(1)						
R19B	3	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	---
3	TE(2)						
R19B	3	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	---
3	TE(3)						
R19B	3	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
1RESRAD, Version 6.21      T< Limit = 0.5 year      04/21/2003 21:10 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: NB-94.RAD

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Site-Specific Parameter Summary (continued)

0	3	3	3	3	3	3	3
Parameter	Parameter	User	Default	(If different from user	Used by RESRAD		
Menu	Name	Input	Default	input)			
AAAAA	C14	3	3.000E-01	3	---		
	DMC	3	7.000E-07	3	---		
	EVS	3	1.000E-10	3	---		
	REVS	3	8.000E-01	3	---		
	AVFG4	3	2.000E-01	3	---		
	AVFG5	3	8.894E+01	3	---		
	CO2F	3		3			
	STOR	3		3			
	STOR_T(1)	3	1.400E+01	3	---		
	STOR_T(2)	3	1.000E+00	3	---		
	STOR_T(3)	3	1.000E+00	3	---		
	STOR_T(4)	3	2.000E+01	3	---		
	STOR_T(5)	3	7.000E+00	3	---		
	STOR_T(6)	3	7.000E+00	3	---		
	STOR_T(7)	3	1.000E+00	3	---		
	STOR_T(8)	3	1.000E+00	3	---		
	STOR_T(9)	3	4.500E+01	3	---		
	R021	3	1.500E-01	3	---		
	FLOOR1	3	2.400E+00	3	---		
	DENSFL	3	4.000E-01	3	---		
	TPCV	3	1.000E-01	3	---		
	TPFL	3		3			

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

0	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	Tc-99	8.330E-06	8.330E-06	DCF2 (1)			
D-1	Dose conversion factors for ingestion, mrem/pCi:						
D-1	Tc-99	1.460E-06	1.460E-06	DCF3 (1)			
D-34	Food transfer factors:						
D-34	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF (1,1)			
D-34	Tc-99 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (1,2)			
D-34	Tc-99 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF (1,3)			
D-5	Bioaccumulation factors, fresh water, L/kg:						
D-5	Tc-99 , fish	2.000E+01	2.000E+01	BIOFAC (1,1)			
D-5	Tc-99 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFAC (1,2)			

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 Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Tc-99.RAD

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3
Menu	Parameter Name	User Input	Default	Used by RESRAD			
				(If different from user input)			
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): Tc-99	2.528E+01	0.000E+00	---			
R012	Concentration in groundwater (pCi/L): Tc-99	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: YR_Tc-99.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter			3	User	3			Used by RESRAD
Menu	3	Parameter		3	Input	3	Default	3	(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 Tc-99	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	5.100E-01	3	0.000E+00	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	5.100E-01	3	0.000E+00	3			---

3	DCNUCU(1,1)						
	R016 3 Saturated zone (cm**3/g)	3	5.100E-01	3	0.000E+00	3	---
3	DCNUCS(1)						
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	1.286E-01
3	ALEACH(1)						
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3		3		3		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		3		3		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		3		3		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				input)			
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
3	TIV(1)							

```

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   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(1)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(2)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RDRY(3)
R19B 3 Wet Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RWET(1)
R19B 3 Wet Foliar Interception Fraction for   3 5.800E-01 3 2.500E-01 3      ---
3 RWET(2)
R19B 3 Wet Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3      ---
3 RWET(3)
R19B 3 Weathering Removal Constant for Vegeta 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 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      04/24/2003 17:36 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Tc-99.RAD

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Site-Specific Parameter Summary (continued)

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0      3      3      3      3      3      3      3      3      3
3 Parameter      User      Used by RESRAD
Menu      Parameter      Input      Default      (If different from user
input)      Name
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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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 3 not used 3 8.894E+01 3      ---
3 CO2F
3
STOR 3 Storage times of contaminated foodstuffs (days): 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

```


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	Ru-106+D	4.770E-04	4.770E-04	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Ru-106+D	2.740E-05	2.740E-05	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Ru-106+D , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF (1,1)				
D-34	Ru-106+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF (1,2)				
D-34	Ru-106+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.300E-06	3.300E-06	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Ru-106+D , fish	1.000E+01	1.000E+01	BIOFAC (1,1)				
D-5	Ru-106+D , crustacea and mollusks	3.000E+02	3.000E+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				
input	Name		(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): Ru-106	6.821E+01	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Ru-106	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 : DCGL to Dose for Ru106 File: Ru-106.RAD

Site-Specific Parameter Summary (continued)

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

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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 Ru-106	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	1.588E+03	3	0.000E+00	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	1.588E+03	3	0.000E+00	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	1.588E+03	3	0.000E+00 3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 4.917E-05
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				
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				
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	
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	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	---
3	DIET(2)						
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	---
3	DIET(3)						
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	---
3	DIET(4)						
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	---
3	DIET(5)						
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	---
3	DIET(6)						
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	---
3	SOIL						
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	---
3	DWI						
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	---
3	FDW						
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	---
3	FHHW						
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	---
3	FLW						
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	---
3	FIRW						
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	---
3	FR9						
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	---
3	FPLANT						
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	---
3	FMEAT						
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	---
3	FMILK						
3							
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	---
3	LFI5						
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	---
3	LFI6						
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	---
3	LWI5						
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	---
3	LWI6						
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	---
3	LSI						
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	---
3	MLFD						
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	---
3	DM						
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	---
3	DROOT						
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWDW						
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	---
3	FGWHH						
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWLW						
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	---
3	FGWIR						
3							
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	---
3	YV(1)						
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	---
3	YV(2)						
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	---
3	YV(3)						
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	---
3	TE(1)						
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	---
3	TE(2)						
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	---
3	TE(3)						
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	---
3	TIV(1)						


```

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
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Summary : DCGL to Dose for Ru106                      File: Ru-106.RAD

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Site-Specific Parameter Summary (continued)

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

```


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	Ag-108m+D	2.830E-04	2.830E-04	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Ag-108m+D	7.620E-06	7.620E-06	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Ag-108m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF (1,1)				
D-34	Ag-108m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-03	3.000E-03	RTF (1,2)				
D-34	Ag-108m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.500E-02	2.500E-02	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Ag-108m+D, fish	5.000E+00	5.000E+00	BIOFAC (1,1)				
D-5	Ag-108m+D, crustacea and mollusks	7.700E+02	7.700E+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				
input	Name		(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): Ag-108m	8.521E+00	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Ag-108m	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 : DCGL to Dose for Ag108m File: Ag-108m.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 Ag-108m	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	2.160E+02	3	0.000E+00	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	2.160E+02	3	0.000E+00	3			---

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	2.160E+02	3	0.000E+00 3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 3.613E-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				
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				
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	3
Parameter	Parameter	User	Input	Default	(If different from user	Used by RESRAD		
Menu input)	Name				input)			
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
3	TIV(1)							

```

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      06/03/2003 22:07 Page 6
Summary : DCGL to Dose for Ag108m                    File: Ag-108m.RAD

```

Site-Specific Parameter Summary (continued)

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

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AA

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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
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

```

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R021 3 Volumetric water content of the cover material 3 not used 3 5.000E-02 3 ---
3 PH2OCV
R021 3 Volumetric water content of the foundation 3 not used 3 3.000E-02 3 ---
3 PH2OFL
R021 3 Diffusion coefficient for radon gas (m/sec): 3 3 3
3
R021 3 in cover material 3 not used 3 2.000E-06 3 ---
3 DIFCV
R021 3 in foundation material 3 not used 3 3.000E-07 3 ---
3 DIFFL
R021 3 in contaminated zone soil 3 not used 3 2.000E-06 3 ---
3 DIFCZ
R021 3 Radon vertical dimension of mixing (m) 3 not used 3 2.000E+00 3 ---
3 HMIX
R021 3 Average building air exchange rate (1/hr) 3 not used 3 5.000E-01 3 ---
3 REXG
R021 3 Height of the building (room) (m) 3 not used 3 2.500E+00 3 ---
3 HRM
R021 3 Building interior area factor 3 not used 3 0.000E+00 3 ---
3 FAI
R021 3 Building depth below ground surface (m) 3 not used 3 -1.000E+00 3 ---
3 DMFL
R021 3 Emanating power of Rn-222 gas 3 not used 3 2.500E-01 3 ---
3 EMANA(1)
R021 3 Emanating power of Rn-220 gas 3 not used 3 1.500E-01 3 ---
3 EMANA(2)
3
3
TITL 3 Number of graphical time points 3 32 3 --- 3 ---
3 NPTS
TITL 3 Maximum number of integration points for dose 3 17 3 --- 3 ---
3 LYMAX
TITL 3 Maximum number of integration points for risk 3 1 3 --- 3 ---
3 KYMAX

```

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iiiii
lRESRAD, Version 6.21 T< Limit = 0.5 year 06/03/2003 22:07 Page 7
Summary : DCGL to Dose for Ag108m File: Ag-108m.RAD

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Summary of Pathway Selections

```

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

```


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	Sb-125+D	1.386E-05	1.386E-05	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Sb-125+D	3.647E-06	3.647E-06	DCF3 (1)
D-34	Food transfer factors:			
D-34	Sb-125+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF (1,1)
D-34	Sb-125+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF (1,2)
D-34	Sb-125+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-04	1.000E-04	RTF (1,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Sb-125+D , fish	1.000E+02	1.000E+02	BIOFAC (1,1)
D-5	Sb-125+D , crustacea and mollusks	1.000E+01	1.000E+01	BIOFAC (1,2)

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 Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Sb-125.RAD

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): Sb-125	3.773E+01	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Sb-125	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_Sb-125.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						

AA
AAAAAAAAAAAAAAAAAAAAAAAA

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 Sb-125	3		3		3		---
3								
R016	3 Contaminated zone (cm**3/g)	3	3.800E+02	3	0.000E+00	3		---
3 DCNUCC(1)								
R016	3 Unsaturated zone 1 (cm**3/g)	3	3.800E+02	3	0.000E+00	3		---

3	DCNUCU(1,1)						
	R016 3 Saturated zone (cm**3/g)	3	3.800E+02	3	0.000E+00	3	---
3	DCNUCS(1)						
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	2.054E-04
3	ALEACH(1)						
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3		3		3		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		3		3		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		3		3		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	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
3	TIV(1)							

```

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      04/24/2003 17:57 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Sb-125.RAD

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Site-Specific Parameter Summary (continued)

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

```


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	Cs-134	4.630E-05	4.630E-05	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Cs-134	7.330E-05	7.330E-05	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF (1,1)				
D-34	Cs-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-02	5.000E-02	RTF (1,2)				
D-34	Cs-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Cs-134 , fish	2.000E+03	2.000E+03	BIOFAC (1,1)				
D-5	Cs-134 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (1,2)				

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 Summary : DCGL to Dose for Cs134 File: Cs-134.RAD

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): Cs-134	6.706E+00	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Cs-134	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								

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:41 Page 4
Summary : DCGL to Dose for Cs134 File: Cs-134.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter			3	User	3			Used by RESRAD
Menu	3	Parameter		3	Input	3	Default	3	(If different from user
input)	3	Name							
<pre> AA AAAAAAAAAAAAAAAAAAAA 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 Cs-134 3 3 3 3 R016 3 Contaminated zone (cm**3/g) 3 4.460E+02 3 1.000E+03 3 --- 3 DCNUCC(1) R016 3 Unsaturated zone 1 (cm**3/g) 3 4.460E+02 3 1.000E+03 3 --- </pre>									

3	DCNUCU(1,1)						
	R016 3 Saturated zone (cm**3/g)	3	4.460E+02	3	1.000E+03	3	---
3	DCNUCS(1)						
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	1.750E-04
3	ALEACH(1)						
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3		3		3		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		3		3		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		3		3		3	

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3	3	3	3
Parameter	Parameter	User	Input	Default	(If different from user	Used by RESRAD		
Menu input)	Name				input)			
AAAAA	R018	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	R018	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	R018	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	R018	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	R018	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	R018	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	R018	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	R018	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	R018	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	R018	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	R018	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	R018	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	R018	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	R018	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	R018	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	R018	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3								
R019	R019	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	R019	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	R019	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	R019	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	R019	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	R019	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							
R019	R019	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	R019	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	R019	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	R019	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							
R019	R019	Livestock water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWLW							
R019	R019	Irrigation fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWIR							
3								
R19B	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	3	1.750E+00	3	7.000E-01	3	---
3	YV(1)							
R19B	R19B	Wet weight crop yield for Leafy (kg/m**2)	3	2.889E+00	3	1.500E+00	3	---
3	YV(2)							
R19B	R19B	Wet weight crop yield for Fodder (kg/m**2)	3	1.887E+00	3	1.100E+00	3	---
3	YV(3)							
R19B	R19B	Growing Season for Non-Leafy (years)	3	2.460E-01	3	1.700E-01	3	---
3	TE(1)							
R19B	R19B	Growing Season for Leafy (years)	3	1.230E-01	3	2.500E-01	3	---
3	TE(2)							
R19B	R19B	Growing Season for Fodder (years)	3	8.200E-02	3	8.000E-02	3	---
3	TE(3)							
R19B	R19B	Translocation Factor for Non-Leafy	3	1.000E-01	3	1.000E-01	3	---
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   3 3.500E-01 3 2.500E-01 3    ---
3 RDRY(1)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3    ---
3 RDRY(2)
R19B 3 Dry Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3    ---
3 RDRY(3)
R19B 3 Wet Foliar Interception Fraction for   3 3.500E-01 3 2.500E-01 3    ---
3 RWET(1)
R19B 3 Wet Foliar Interception Fraction for   3 5.800E-01 3 2.500E-01 3    ---
3 RWET(2)
R19B 3 Wet Foliar Interception Fraction for   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
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Summary : DCGL to Dose for Cs134                    File: Cs-134.RAD

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Site-Specific Parameter Summary (continued)

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

```


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	Cs-137+D	3.190E-05	3.190E-05	DCF2 (1)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3 (1)
D-34	Food transfer factors:			
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF (1,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-02	5.000E-02	RTF (1,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF (1,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFAC (1,1)
D-5	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (1,2)

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 Summary : DCGL to Dose for Cs137 File: Cs-137.RAD

Site-Specific Parameter Summary
 User

Menu	Parameter Name	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): Cs-137	1.224E+01	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Cs-137	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 : DCGL to Dose for Cs137 File: Cs-137.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 Cs-137	3		3		3			---
3									
R016	Contaminated zone (cm**3/g)	3	4.460E+02	3	1.000E+03	3			---
3	DCNUCC(1)								
R016	Unsaturated zone 1 (cm**3/g)	3	4.460E+02	3	1.000E+03	3			---

3	DCNUCU(1,1)						
	R016 3 Saturated zone (cm**3/g)	3	4.460E+02	3	1.000E+03	3	---
3	DCNUCS(1)						
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	1.750E-04
3	ALEACH(1)						
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3		3		3		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		3		3		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		3		3		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)							


```

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      04/21/2003 21:55 Page 6
Summary : DCGL to Dose for Cs137                      File: Cs-137.RAD

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Site-Specific Parameter Summary (continued)

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

```


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	Eu-152	2.210E-04	2.210E-04	DCF2(1)
B-1	Gd-152	2.430E-01	2.430E-01	DCF2(3)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Eu-152	6.480E-06	6.480E-06	DCF3(1)
D-1	Gd-152	1.610E-04	1.610E-04	DCF3(3)
D-34	Food transfer factors:			
D-34	Eu-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(1,1)
D-34	Eu-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(1,2)
D-34	Eu-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(1,3)
D-34	Gd-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(3,1)
D-34	Gd-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(3,2)
D-34	Gd-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(3,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Eu-152 , fish	5.000E+01	5.000E+01	BIOFAC(1,1)
D-5	Eu-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(1,2)
D-5	Gd-152 , fish	2.500E+01	2.500E+01	BIOFAC(3,1)
D-5	Gd-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(3,2)

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): Eu-152	1.206E+01	0.000E+00	---
R012	Concentration in groundwater (pCi/L): Eu-152	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 3 Cover depth erosion rate (m/yr) 3 not used 3 1.000E-03 3 ---
3 VCV
R013 3 Density of contaminated zone (g/cm**3) 3 1.860E+00 3 1.500E+00 3 ---
3 DENSCZ
R013 3 Contaminated zone erosion rate (m/yr) 3 8.500E-04 3 1.000E-03 3 ---
3 V CZ
R013 3 Contaminated zone total porosity 3 3.500E-01 3 4.000E-01 3 ---
3 TPCZ
R013 3 Contaminated zone field capacity 3 1.000E-01 3 2.000E-01 3 ---
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
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
3
R015 3 Number of unsaturated zone strata 3 1 3 1 3 ---
3 NS

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Summary : DCGL to Dose for Eu152 File: Eu-152.RAD

Site-Specific Parameter Summary (continued)

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0 3 User 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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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
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	Unsat. zone 1, hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---
3	3 HCUZ(1)	3	3	3
3				
R016	Distribution coefficients for Eu-152			
3				
R016	Contaminated zone (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCC(1)	3	3	3
R016	Unsaturated zone 1 (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCU(1,1)	3	3	3
R016	Saturated zone (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCS(1)	3	3	3
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.464E-05
3	3 ALEACH(1)	3	3	3
R016	Solubility constant	0.000E+00	0.000E+00	not used
3	3 SOLUBK(1)	3	3	3
3				
R016	Distribution coefficients for daughter Gd-152			
3				
R016	Contaminated zone (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCC(3)	3	3	3
R016	Unsaturated zone 1 (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCU(3,1)	3	3	3
R016	Saturated zone (cm**3/g)	8.250E+02	-1.000E+00	---
3	3 DCNUCS(3)	3	3	3
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.464E-05
3	3 ALEACH(3)	3	3	3
R016	Solubility constant	0.000E+00	0.000E+00	not used
3	3 SOLUBK(3)	3	3	3
3				
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---
3	3 INHALR	3	3	3
R017	Mass loading for inhalation (g/m**3)	2.330E-05	1.000E-04	---
3	3 MLINH	3	3	3
R017	Exposure duration	3.000E+01	3.000E+01	---
3	3 ED	3	3	3
R017	Shielding factor, inhalation	5.500E-01	4.000E-01	---
3	3 SHF3	3	3	3
R017	Shielding factor, external gamma	2.725E-01	7.000E-01	---
3	3 SHF1	3	3	3
R017	Fraction of time spent indoors	6.571E-01	5.000E-01	---
3	3 FIND	3	3	3
R017	Fraction of time spent outdoors (on site)	1.181E-01	2.500E-01	---
3	3 FOTD	3	3	3
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.
3	3 FS	3	3	3
R017	Radii of shape factor array (used if FS = -1):			
3				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---
3	3 RAD_SHAPE(1)	3	3	3
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---
3	3 RAD_SHAPE(2)	3	3	3
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---
3	3 RAD_SHAPE(3)	3	3	3
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---
3	3 RAD_SHAPE(4)	3	3	3
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---
3	3 RAD_SHAPE(5)	3	3	3
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---
3	3 RAD_SHAPE(6)	3	3	3
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---
3	3 RAD_SHAPE(7)	3	3	3
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---
3	3 RAD_SHAPE(8)	3	3	3
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---
3	3 RAD_SHAPE(9)	3	3	3
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---
3	3 RAD_SHAPE(10)	3	3	3
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---
3	3 RAD_SHAPE(11)	3	3	3
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---
3	3 RAD_SHAPE(12)	3	3	3
3				

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Summary : DCGL to Dose for Eu152 File: Eu-152.RAD

Site-Specific Parameter Summary (continued)

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

```

input) ³ Name
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
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
³
R018 ³ Fruits, vegetables and grain consumption (kg/yr) ³ 1.120E+02 ³ 1.600E+02 ³ ---
³ DIET(1)
R018 ³ Leafy vegetable consumption (kg/yr) ³ 2.140E+01 ³ 1.400E+01 ³ ---
³ DIET(2)
R018 ³ Milk consumption (L/yr) ³ 2.330E+02 ³ 9.200E+01 ³ ---
³ DIET(3)
R018 ³ Meat and poultry consumption (kg/yr) ³ 6.510E+01 ³ 6.300E+01 ³ ---
³ DIET(4)
R018 ³ Fish consumption (kg/yr) ³ 2.060E+01 ³ 5.400E+00 ³ ---
³ DIET(5)
R018 ³ Other seafood consumption (kg/yr) ³ 9.000E-01 ³ 9.000E-01 ³ ---
³ DIET(6)
R018 ³ Soil ingestion rate (g/yr) ³ 1.826E+01 ³ 3.650E+01 ³ ---
³ SOIL
R018 ³ Drinking water intake (L/yr) ³ 4.785E+02 ³ 5.100E+02 ³ ---
³ DWI
R018 ³ Contamination fraction of drinking water ³ 1.000E+00 ³ 1.000E+00 ³ ---
³ FDW
R018 ³ Contamination fraction of household water ³ not used ³ 1.000E+00 ³ ---
³ FHHW
R018 ³ Contamination fraction of livestock water ³ 1.000E+00 ³ 1.000E+00 ³ ---
³ FLW
R018 ³ Contamination fraction of irrigation water ³ 1.000E+00 ³ 1.000E+00 ³ ---
³ FIRW
R018 ³ Contamination fraction of aquatic food ³ 1.000E+00 ³ 5.000E-01 ³ ---
³ FR9
R018 ³ Contamination fraction of plant food ³ 1.000E+00 ³-1 ³ ---
³ FPLANT
R018 ³ Contamination fraction of meat ³ 1.000E+00 ³-1 ³ ---
³ FMEAT
R018 ³ Contamination fraction of milk ³ 1.000E+00 ³-1 ³ ---
³ FMILK
³
³
R019 ³ Livestock fodder intake for meat (kg/day) ³ 2.710E+01 ³ 6.800E+01 ³ ---
³ LFI5
R019 ³ Livestock fodder intake for milk (kg/day) ³ 6.320E+01 ³ 5.500E+01 ³ ---
³ LFI6
R019 ³ Livestock water intake for meat (L/day) ³ 5.060E+01 ³ 5.000E+01 ³ ---
³ LWI5
R019 ³ Livestock water intake for milk (L/day) ³ 6.000E+01 ³ 1.600E+02 ³ ---
³ LWI6
R019 ³ Livestock soil intake (kg/day) ³ 5.000E-01 ³ 5.000E-01 ³ ---
³ LSI
R019 ³ Mass loading for foliar deposition (g/m**3) ³ 4.000E-04 ³ 1.000E-04 ³ ---
³ MLFD
R019 ³ Depth of soil mixing layer (m) ³ 2.300E-01 ³ 1.500E-01 ³ ---
³ DM
R019 ³ Depth of roots (m) ³ 2.150E+00 ³ 9.000E-01 ³ ---
³ DROOT
R019 ³ Drinking water fraction from ground water ³ 1.000E+00 ³ 1.000E+00 ³ ---

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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 3 3
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
R021 3 Volumetric water content of the cover material 3 not used 3 5.000E-02 3 ---
3 PH2OCV
R021 3 Volumetric water content of the foundation 3 not used 3 3.000E-02 3 ---
3 PH2OFL
R021 3 Diffusion coefficient for radon gas (m/sec):
3
R021 3 in cover material 3 not used 3 2.000E-06 3 ---
3 DIFCV
R021 3 in foundation material 3 not used 3 3.000E-07 3 ---
3 DIFFL
R021 3 in contaminated zone soil 3 not used 3 2.000E-06 3 ---
3 DIFCZ
R021 3 Radon vertical dimension of mixing (m) 3 not used 3 2.000E+00 3 ---
3 HMIX
R021 3 Average building air exchange rate (1/hr) 3 not used 3 5.000E-01 3 ---
3 REXG
R021 3 Height of the building (room) (m) 3 not used 3 2.500E+00 3 ---
3 HRM
R021 3 Building interior area factor 3 not used 3 0.000E+00 3 ---
3 FAI
R021 3 Building depth below ground surface (m) 3 not used 3 -1.000E+00 3 ---
3 DMFL
R021 3 Emanating power of Rn-222 gas 3 not used 3 2.500E-01 3 ---
3 EMANA(1)
R021 3 Emanating power of Rn-220 gas 3 not used 3 1.500E-01 3 ---
3 EMANA(2)
3 3 3
3
TITL 3 Number of graphical time points 3 32 3 --- 3 ---
3 NPTS
TITL 3 Maximum number of integration points for dose 3 17 3 --- 3 ---
3 LYMAX
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Summary : DCGL to Dose for Eu152 File: Eu-152.RAD

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Site-Specific Parameter Summary (continued)

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0 3 User 3 Used by RESRAD
3 Parameter
Menu 3 Parameter 3 Input 3 Default 3 (If different from user
input) 3 Name
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
TITL 3 Maximum number of integration points for risk 3 1 3 --- 3 ---
3 KYMAX

```

```

iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
iiiiiiiiiiiiiiiiiiii

```

Summary of Pathway Selections

```

Pathway 3 User Selection
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
1 -- external gamma 3 active
2 -- inhalation (w/o radon) 3 active
3 -- plant ingestion 3 active
4 -- meat ingestion 3 active
5 -- milk ingestion 3 active

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6 -- aquatic foods	3	active
7 -- drinking water	3	active
8 -- soil ingestion	3	active
9 -- radon	3	suppressed
Find peak pathway doses	3	active

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								

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:15 Page 4
Summary : Yankee Rowe Sensitivity Analysis=soil File: EU-154.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter			3	User	3			Used by RESRAD
Menu	3	Parameter		3	Input	3	Default	3	(If different from user
input)	3	Name							
<pre> AA AAAAAAAAAAAAAAAAAAAAAAAA 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 Eu-154 3 3 3 3 R016 3 Contaminated zone (cm**3/g) 3 8.250E+02 3 -1.000E+00 3 --- 3 DCNUCC(1) R016 3 Unsaturated zone 1 (cm**3/g) 3 8.250E+02 3 -1.000E+00 3 --- </pre>									

3	DCNUCU(1,1)				
	R016 3 Saturated zone (cm**3/g)	3	8.250E+02	3	-1.000E+00 3 ---
3	DCNUCS(1)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 9.464E-05
3	ALEACH(1)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK(1)				
3		3		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					
	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		3		3	
	R017 3 Fractions of annular areas within AREA:	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		3		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)							

```

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      04/21/2003 21:15 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: EU-154.RAD

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Site-Specific Parameter Summary (continued)

```

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

```


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	Eu-155	4.140E-05	4.140E-05	DCF2 (1)				
D-1	Dose conversion factors for ingestion, mrem/pCi:							
D-1	Eu-155	1.530E-06	1.530E-06	DCF3 (1)				
D-34	Food transfer factors:							
D-34	Eu-155 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (1,1)				
D-34	Eu-155 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF (1,2)				
D-34	Eu-155 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,3)				
D-5	Bioaccumulation factors, fresh water, L/kg:							
D-5	Eu-155 , fish	5.000E+01	5.000E+01	BIOFAC (1,1)				
D-5	Eu-155 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)				

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:23 Page 3
 Summary : Yankee Rowe Sensitivity Analysis=soil File: EU-155.RAD

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3	3
Menu	Parameter Name	User Input	Default	Used by RESRAD				
input	Name		(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): Eu-155	4.670E+02	0.000E+00	---				
R012	Concentration in groundwater (pCi/L): Eu-155	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: EU-155.RAD

Site-Specific Parameter Summary (continued)

0	3								
3	Parameter			3	User	3			Used by RESRAD
Menu	3	Parameter		3	Input	3	Default	3	(If different from user
input)	3	Name							
<pre> AA AAAAAAAAAAAAAAAAAAAA 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 Eu-155 3 3 3 3 R016 3 Contaminated zone (cm**3/g) 3 8.250E+02 3 -1.000E+00 3 --- 3 DCNUCC(1) R016 3 Unsaturated zone 1 (cm**3/g) 3 8.250E+02 3 -1.000E+00 3 --- </pre>									

3 DCNUCU(1,1)				
R016 3 Saturated zone (cm**3/g)	3	8.250E+02	3 -1.000E+00	3 ---
3 DCNUCS(1)				
R016 3 Leach rate (/yr)	3	0.000E+00	3 0.000E+00	3 9.464E-05
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)							

```

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
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Summary : Yankee Rowe Sensitivity Analysis=soil      File: EU-155.RAD

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Site-Specific Parameter Summary (continued)

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

```


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

0	3	3	3	3	3	3
Menu	Parameter	Current Value	Default	Parameter Name		
AA						
B-1	Dose conversion factors for inhalation, mrem/pCi:					
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2 (1)		
B-1	Pu-238	3.920E-01	3.920E-01	DCF2 (2)		
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2 (3)		
B-1	Th-230	3.260E-01	3.260E-01	DCF2 (4)		
B-1	U-234	1.320E-01	1.320E-01	DCF2 (5)		
Dose conversion factors for ingestion, mrem/pCi:						
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3 (1)		
D-1	Pu-238	3.200E-03	3.200E-03	DCF3 (2)		
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3 (3)		
D-1	Th-230	5.480E-04	5.480E-04	DCF3 (4)		
D-1	U-234	2.830E-04	2.830E-04	DCF3 (5)		
Food transfer factors:						
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF (1,1)		
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF (1,2)		
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF (1,3)		
D-34	Pu-238 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (2,1)		
D-34	Pu-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (2,2)		
D-34	Pu-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF (2,3)		
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF (3,1)		
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF (3,2)		
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF (3,3)		
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (4,1)		
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (4,2)		
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (4,3)		
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (5,1)		
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (5,2)		
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (5,3)		
Bioaccumulation factors, fresh water, L/kg:						
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC (1,1)		
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (1,2)		
D-5	Pu-238 , fish	3.000E+01	3.000E+01	BIOFAC (2,1)		
D-5	Pu-238 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (2,2)		
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC (3,1)		
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC (3,2)		
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC (4,1)		
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (4,2)		
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC (5,1)		
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (5,2)		

Site-Specific Parameter Summary

0	3	3	3	3	3	3
Menu	Parameter	User Input	Default	Parameter Name	Used by RESRAD	
AA						
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04		---	
AREA						
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00		---	
THICK0						
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02		---	
LCZPAQ						
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+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		---	

³ T(3)						
R011	Times for calculations (yr)	³ 1.000E+01	³ 1.000E+01	³		---
³ T(4)						
R011	Times for calculations (yr)	³ 3.000E+01	³ 3.000E+01	³		---
³ T(5)						
R011	Times for calculations (yr)	³ 1.000E+02	³ 1.000E+02	³		---
³ T(6)						
R011	Times for calculations (yr)	³ 3.000E+02	³ 3.000E+02	³		---
³ T(7)						
R011	Times for calculations (yr)	³ 1.000E+03	³ 1.000E+03	³		---
³ T(8)						
R011	Times for calculations (yr)	³ not used	³ 0.000E+00	³		---
³ T(9)						
R011	Times for calculations (yr)	³ not used	³ 0.000E+00	³		---
³ T(10)						
³		³	³	³		
³						
R012	Initial principal radionuclide (pCi/g): Pu-238	³ 5.166E+01	³ 0.000E+00	³		---
³ S1(2)						
R012	Concentration in groundwater (pCi/L): Pu-238	³ not used	³ 0.000E+00	³		---
³ W1(2)						
³		³	³	³		
³						
R013	Cover depth (m)	³ 0.000E+00	³ 0.000E+00	³		---
³ COVERO						
R013	Density of cover material (g/cm**3)	³ not used	³ 1.500E+00	³		---
³ DENSCV						
R013	Cover depth erosion rate (m/yr)	³ not used	³ 1.000E-03	³		---
³ VCV						
R013	Density of contaminated zone (g/cm**3)	³ 1.860E+00	³ 1.500E+00	³		---
³ DENSCZ						
R013	Contaminated zone erosion rate (m/yr)	³ 8.500E-04	³ 1.000E-03	³		---
³ VCZ						
R013	Contaminated zone total porosity	³ 3.500E-01	³ 4.000E-01	³		---
³ TPCZ						
R013	Contaminated zone field capacity	³ 1.000E-01	³ 2.000E-01	³		---
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		³	³	³		
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						

Site-Specific Parameter Summary (continued)

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

AA
 AAAAAAAAAAAAAAAAAAAAA

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 Pu-238	3		3		3	
3							
R016 3	Contaminated zone (cm**3/g)	3	9.530E+02	3	2.000E+03	3	---
3	DCNUCC(2)						
R016 3	Unsat. zone 1 (cm**3/g)	3	9.530E+02	3	2.000E+03	3	---
3	DCNUCU(2,1)						
R016 3	Saturated zone (cm**3/g)	3	9.530E+02	3	2.000E+03	3	---
3	DCNUCS(2)						
R016 3	Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	8.193E-05
3	ALEACH(2)						
R016 3	Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(2)						
3							
R016 3	Distribution coefficients for daughter Pb-210	3		3		3	
3							
R016 3	Contaminated zone (cm**3/g)	3	2.392E+03	3	1.000E+02	3	---
3	DCNUCC(1)						
R016 3	Unsat. zone 1 (cm**3/g)	3	2.392E+03	3	1.000E+02	3	---
3	DCNUCU(1,1)						
R016 3	Saturated zone (cm**3/g)	3	2.392E+03	3	1.000E+02	3	---
3	DCNUCS(1)						
R016 3	Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	3.264E-05
3	ALEACH(1)						
R016 3	Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(1)						
3							
R016 3	Distribution coefficients for daughter Ra-226	3		3		3	
3							
R016 3	Contaminated zone (cm**3/g)	3	3.533E+03	3	7.000E+01	3	---
3	DCNUCC(3)						
R016 3	Unsat. zone 1 (cm**3/g)	3	3.533E+03	3	7.000E+01	3	---
3	DCNUCU(3,1)						
R016 3	Saturated zone (cm**3/g)	3	3.533E+03	3	7.000E+01	3	---
3	DCNUCS(3)						
R016 3	Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	2.210E-05
3	ALEACH(3)						
R016 3	Solubility constant	3	0.000E+00	3	0.000E+00	3	not used
3	SOLUBK(3)						
3							
R016 3	Distribution coefficients for daughter Th-230	3		3		3	
3							
R016 3	Contaminated zone (cm**3/g)	3	5.884E+03	3	6.000E+04	3	---
3	DCNUCC(4)						
R016 3	Unsat. zone 1 (cm**3/g)	3	5.884E+03	3	6.000E+04	3	---
3	DCNUCU(4,1)						
R016 3	Saturated zone (cm**3/g)	3	5.884E+03	3	6.000E+04	3	---
3	DCNUCS(4)						
R016 3	Leach rate (/yr)	3	0.000E+00	3	0.000E+00	3	1.327E-05
3	ALEACH(4)						

R016	Solubility constant	0.000E+00	0.000E+00	not used
3 SOLUBK(4)				
R016	Distribution coefficients for daughter U-234			
3				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---
3 DCNUCC(5)				
R016	Unsaturated zone 1 (cm**3/g)	1.260E+02	5.000E+01	---
3 DCNUCU(5,1)				
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---
3 DCNUCS(5)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.192E-04
3 ALEACH(5)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
3 SOLUBK(5)				
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---
3 INHALR				
R017	Mass loading for inhalation (g/m**3)	2.330E-05	1.000E-04	---
3 MLINH				
R017	Exposure duration	3.000E+01	3.000E+01	---
3 ED				
R017	Shielding factor, inhalation	5.500E-01	4.000E-01	---
3 SHF3				
R017	Shielding factor, external gamma	2.725E-01	7.000E-01	---
3 SHF1				
R017	Fraction of time spent indoors	6.571E-01	5.000E-01	---
3 FIND				
R017	Fraction of time spent outdoors (on site)	1.181E-01	2.500E-01	---
3 FOTD				
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.
3 FS				

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Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Pu-238.RAD

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3
Parameter	Parameter	User	Default	(If different from user	Used by RESRAD
Menu input)	Name	Input	Default	(If different from user	Used by RESRAD
AA					
R017	Radii of shape factor array (used if FS = -1):				
3					
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	
3 RAD_SHAPE(1)					
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	
3 RAD_SHAPE(2)					
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	
3 RAD_SHAPE(3)					
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	
3 RAD_SHAPE(4)					
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	
3 RAD_SHAPE(5)					
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	
3 RAD_SHAPE(6)					
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	
3 RAD_SHAPE(7)					
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	
3 RAD_SHAPE(8)					
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	
3 RAD_SHAPE(9)					
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	
3 RAD_SHAPE(10)					
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	
3 RAD_SHAPE(11)					
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	
3 RAD_SHAPE(12)					
3					
R017	Fractions of annular areas within AREA:				
3					
R017	Ring 1	not used	1.000E+00	---	
3 FRACA(1)					
R017	Ring 2	not used	2.732E-01	---	
3 FRACA(2)					
R017	Ring 3	not used	0.000E+00	---	
3 FRACA(3)					
R017	Ring 4	not used	0.000E+00	---	
3 FRACA(4)					

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

0	3	3	3	3	3	3	3
Menu	Parameter	Current Value	Default	Parameter Name			
AA							
B-1	Dose conversion factors for inhalation, mrem/pCi:						
B-1	Ac-227+D	6.720E+00	6.720E+00	DCF2 (1)			
B-1	Pa-231	1.280E+00	1.280E+00	DCF2 (2)			
B-1	Pu-239	4.290E-01	4.290E-01	DCF2 (3)			
B-1	U-235+D	1.230E-01	1.230E-01	DCF2 (4)			
Dose conversion factors for ingestion, mrem/pCi:							
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3 (1)			
D-1	Pa-231	1.060E-02	1.060E-02	DCF3 (2)			
D-1	Pu-239	3.540E-03	3.540E-03	DCF3 (3)			
D-1	U-235+D	2.670E-04	2.670E-04	DCF3 (4)			
Food transfer factors:							
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (1,1)			
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,2)			
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,3)			
D-34	Pa-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF (2,1)			
D-34	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF (2,2)			
D-34	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (2,3)			
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (3,1)			
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (3,2)			
D-34	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF (3,3)			
D-34	U-235+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (4,1)			
D-34	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (4,2)			
D-34	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (4,3)			
Bioaccumulation factors, fresh water, L/kg:							
D-5	Ac-227+D , fish	1.500E+01	1.500E+01	BIOFAC (1,1)			
D-5	Ac-227+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)			
D-5	Pa-231 , fish	1.000E+01	1.000E+01	BIOFAC (2,1)			
D-5	Pa-231 , crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC (2,2)			
D-5	Pu-239 , fish	3.000E+01	3.000E+01	BIOFAC (3,1)			
D-5	Pu-239 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (3,2)			
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC (4,1)			
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (4,2)			

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3
Menu	Parameter	User Input	Default	Parameter Name	Used by RESRAD		
AA							
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04		---		
AREA							
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00		---		
THICKO							
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02		---		
LCZPAQ							
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+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): Pu-239	4.591E+01	0.000E+00	---
S1(3)				
R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---
W1(3)				
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)	1.860E+00	1.500E+00	---
DENSCZ				
R013	Contaminated zone erosion rate (m/yr)	8.500E-04	1.000E-03	---
VCZ				
R013	Contaminated zone total porosity	3.500E-01	4.000E-01	---
TPCZ				
R013	Contaminated zone field capacity	1.000E-01	2.000E-01	---
FCCZ				
R013	Contaminated zone hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---
HCCZ				
R013	Contaminated zone b parameter	4.380E+00	5.300E+00	---
BCZ				
R013	Average annual wind speed (m/sec)	2.030E+00	2.000E+00	---
WIND				
R013	Humidity in air (g/m**3)	not used	8.000E+00	---
HUMID				
R013	Evapotranspiration coefficient	7.500E-01	5.000E-01	---
EVAPTR				
R013	Precipitation (m/yr)	1.200E+00	1.000E+00	---
PRECIP				
R013	Irrigation (m/yr)	4.350E-01	2.000E-01	---
RI				
R013	Irrigation mode	overhead	overhead	---
IDITCH				
R013	Runoff coefficient	6.000E-01	2.000E-01	---
RUNOFF				
R013	Watershed area for nearby stream or pond (m**2)	7.770E+05	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)	2.120E+00	1.500E+00	---
DENSAQ				
R014	Saturated zone total porosity	3.000E-01	4.000E-01	---
TPSZ				
R014	Saturated zone effective porosity	2.100E-01	2.000E-01	---
EPSZ				
R014	Saturated zone field capacity	9.000E-02	2.000E-01	---
FCSZ				
R014	Saturated zone hydraulic conductivity (m/yr)	1.000E-01	1.000E+02	---
HCSZ				
R014	Saturated zone hydraulic gradient	1.000E-01	2.000E-02	---
HGWT				
R014	Saturated zone b parameter	4.900E+00	5.300E+00	---
BSZ				
R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---
VWT				
R014	Well pump intake depth (m below water table)	1.451E+01	1.000E+01	---
DWIBWT				
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---
MODEL				
R014	Well pumping rate (m**3/yr)	1.323E+03	2.500E+02	---
UW				
R015	Number of unsaturated zone strata	1	1	---
NS				

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Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Pu-239.RAD

Site-Specific Parameter Summary (continued)

0 3

3 User 3 3

Used by RESRAD

Parameter Menu input)	Parameter Name	Input	Default	(If different from user
AA				
R015	Unsat. zone 1, thickness (m)	1.430E+00	4.000E+00	---
H(1)				
R015	Unsat. zone 1, soil density (g/cm**3)	1.860E+00	1.500E+00	---
DENSUZ(1)				
R015	Unsat. zone 1, total porosity	3.500E-01	4.000E-01	---
TPUZ(1)				
R015	Unsat. zone 1, effective porosity	2.500E-01	2.000E-01	---
EPUZ(1)				
R015	Unsat. zone 1, field capacity	1.000E-01	2.000E-01	---
FCUZ(1)				
R015	Unsat. zone 1, soil-specific b parameter	4.380E+00	5.300E+00	---
BUZ(1)				
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---
HCUZ(1)				
3				
R016	Distribution coefficients for Pu-239			
3				
R016	Contaminated zone (cm**3/g)	9.530E+02	2.000E+03	---
DCNUCC(3)				
R016	Unsat. zone 1 (cm**3/g)	9.530E+02	2.000E+03	---
DCNUCU(3,1)				
R016	Saturated zone (cm**3/g)	9.530E+02	2.000E+03	---
DCNUCS(3)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.193E-05
ALEACH(3)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(3)				
3				
R016	Distribution coefficients for daughter Ac-227			
3				
R016	Contaminated zone (cm**3/g)	8.250E+02	2.000E+01	---
DCNUCC(1)				
R016	Unsat. zone 1 (cm**3/g)	8.250E+02	2.000E+01	---
DCNUCU(1,1)				
R016	Saturated zone (cm**3/g)	8.250E+02	2.000E+01	---
DCNUCS(1)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.464E-05
ALEACH(1)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(1)				
3				
R016	Distribution coefficients for daughter Pa-231			
3				
R016	Contaminated zone (cm**3/g)	3.800E+02	5.000E+01	---
DCNUCC(2)				
R016	Unsat. zone 1 (cm**3/g)	3.800E+02	5.000E+01	---
DCNUCU(2,1)				
R016	Saturated zone (cm**3/g)	3.800E+02	5.000E+01	---
DCNUCS(2)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.054E-04
ALEACH(2)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(2)				
3				
R016	Distribution coefficients for daughter U-235			
3				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCC(4)				
R016	Unsat. zone 1 (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCU(4,1)				
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCS(4)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.192E-04
ALEACH(4)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(4)				
3				
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---
INHALR				
R017	Mass loading for inhalation (g/m**3)	2.330E-05	1.000E-04	---
MLINH				
R017	Exposure duration	3.000E+01	3.000E+01	---

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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
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Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Pu-239.RAD

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                                Site-Specific Parameter Summary (continued)
0      3
3 Parameter                               3 User                               3 Used by RESRAD
Menu 3                                     3 Input                               3 Default                               3 (If different from user
input) 3 Name

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R017 3 Radii of shape factor array (used if FS = -1):          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
3
3

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R017 3 Fractions of annular areas within AREA:          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
3
3

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R018 3 Fruits, vegetables and grain consumption (kg/yr) 3 1.120E+02 3 1.600E+02 3          ---
3 DIET(1)
R018 3 Leafy vegetable consumption (kg/yr)          3 2.140E+01 3 1.400E+01 3          ---
3 DIET(2)
R018 3 Milk consumption (L/yr)                    3 2.330E+02 3 9.200E+01 3          ---

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3 DIET(3)
R018 3 Meat and poultry consumption (kg/yr)          3 6.510E+01 3 6.300E+01 3 ---
3 DIET(4)
R018 3 Fish consumption (kg/yr)                    3 2.060E+01 3 5.400E+00 3 ---
3 DIET(5)
R018 3 Other seafood consumption (kg/yr)           3 9.000E-01 3 9.000E-01 3 ---
3 DIET(6)
R018 3 Soil ingestion rate (g/yr)                  3 1.826E+01 3 3.650E+01 3 ---
3 SOIL
R018 3 Drinking water intake (L/yr)                3 4.785E+02 3 5.100E+02 3 ---
3 DWI
R018 3 Contamination fraction of drinking water     3 1.000E+00 3 1.000E+00 3 ---
3 FDW
R018 3 Contamination fraction of household water    3 not used 3 1.000E+00 3 ---
3 FHHW
R018 3 Contamination fraction of livestock water   3 1.000E+00 3 1.000E+00 3 ---
3 FLW
R018 3 Contamination fraction of irrigation water   3 1.000E+00 3 1.000E+00 3 ---
3 FIRW
R018 3 Contamination fraction of aquatic food      3 1.000E+00 3 5.000E-01 3 ---
3 FR9
R018 3 Contamination fraction of plant food        3 1.000E+00 3 -1 3 ---
3 FPLANT
R018 3 Contamination fraction of meat              3 1.000E+00 3 -1 3 ---
3 FMEAT
R018 3 Contamination fraction of milk              3 1.000E+00 3 -1 3 ---
3 FMILK
3
R019 3 Livestock fodder intake for meat (kg/day)    3 2.710E+01 3 6.800E+01 3 ---
3 LFI5
R019 3 Livestock fodder intake for milk (kg/day)    3 6.320E+01 3 5.500E+01 3 ---
3 LFI6
R019 3 Livestock water intake for meat (L/day)      3 5.060E+01 3 5.000E+01 3 ---
3 LWI5
R019 3 Livestock water intake for milk (L/day)      3 6.000E+01 3 1.600E+02 3 ---
3 LWI6
R019 3 Livestock soil intake (kg/day)              3 5.000E-01 3 5.000E-01 3 ---
3 LSI
R019 3 Mass loading for foliar deposition (g/m**3)  3 4.000E-04 3 1.000E-04 3 ---
3 MLFD
1RESRAD, Version 6.21      T< Limit = 0.5 year      04/24/2003 18:50 Page 6
Summary : Yankee Rowe Sensitivity Analysis=soil      File: YR_Pu-239.RAD

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Site-Specific Parameter Summary (continued)

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

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AA

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R019 3 Depth of soil mixing layer (m)              3 2.300E-01 3 1.500E-01 3 ---
3 DM
R019 3 Depth of roots (m)                          3 2.150E+00 3 9.000E-01 3 ---
3 DROOT
R019 3 Drinking water fraction from ground water    3 1.000E+00 3 1.000E+00 3 ---
3 FGWDW
R019 3 Household water fraction from ground water   3 not used 3 1.000E+00 3 ---
3 FGWHH
R019 3 Livestock water fraction from ground water   3 1.000E+00 3 1.000E+00 3 ---
3 FGWLW
R019 3 Irrigation fraction from ground water        3 1.000E+00 3 1.000E+00 3 ---
3 FGWIR
3
R19B 3 Wet weight crop yield for Non-Leafy (kg/m**2) 3 1.750E+00 3 7.000E-01 3 ---
3 YV(1)
R19B 3 Wet weight crop yield for Leafy (kg/m**2)    3 2.889E+00 3 1.500E+00 3 ---
3 YV(2)
R19B 3 Wet weight crop yield for Fodder (kg/m**2)   3 1.887E+00 3 1.100E+00 3 ---
3 YV(3)
R19B 3 Growing Season for Non-Leafy (years)         3 2.460E-01 3 1.700E-01 3 ---
3 TE(1)
R19B 3 Growing Season for Leafy (years)              3 1.230E-01 3 2.500E-01 3 ---
3 TE(2)
R19B 3 Growing Season for Fodder (years)            3 8.200E-02 3 8.000E-02 3 ---
3 TE(3)
R19B 3 Translocation Factor for Non-Leafy             3 1.000E-01 3 1.000E-01 3 ---
3 TIV(1)
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 ---

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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
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
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
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
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
R021 3 Volumetric water content of the cover material 3 not used 3 5.000E-02 3 ---
3 PH2OCV
1RESRAD, Version 6.21 T< Limit = 0.5 year 04/24/2003 18:50 Page 7
Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Pu-239.RAD

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Site-Specific Parameter Summary (continued)

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

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
R021 3 Volumetric water content of the foundation 3 not used 3 3.000E-02 3 ---

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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				
AA								
B-1	Dose conversion factors for inhalation, mrem/pCi:							
B-1	Am-241	4.440E-01	4.440E-01	DCF2 (1)				
B-1	Np-237+D	5.400E-01	5.400E-01	DCF2 (2)				
B-1	Pu-241+D	8.250E-03	8.250E-03	DCF2 (3)				
B-1	Th-229+D	2.160E+00	2.160E+00	DCF2 (5)				
B-1	U-233	1.350E-01	1.350E-01	DCF2 (6)				
Dose conversion factors for ingestion, mrem/pCi:								
D-1	Am-241	3.640E-03	3.640E-03	DCF3 (1)				
D-1	Np-237+D	4.440E-03	4.440E-03	DCF3 (2)				
D-1	Pu-241+D	6.850E-05	6.850E-05	DCF3 (3)				
D-1	Th-229+D	4.030E-03	4.030E-03	DCF3 (5)				
D-1	U-233	2.890E-04	2.890E-04	DCF3 (6)				
Food transfer factors:								
D-34	Am-241 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (1,1)				
D-34	Am-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF (1,2)				
D-34	Am-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (1,3)				
D-34	Np-237+D , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF (2,1)				
D-34	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF (2,2)				
D-34	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (2,3)				
D-34	Pu-241+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (3,1)				
D-34	Pu-241+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (3,2)				
D-34	Pu-241+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF (3,3)				
D-34	Th-229+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (5,1)				
D-34	Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (5,2)				
D-34	Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (5,3)				
D-34	U-233 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (6,1)				
D-34	U-233 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (6,2)				
D-34	U-233 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (6,3)				
Bioaccumulation factors, fresh water, L/kg:								
D-5	Am-241 , fish	3.000E+01	3.000E+01	BIOFAC (1,1)				
D-5	Am-241 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)				
D-5	Np-237+D , fish	3.000E+01	3.000E+01	BIOFAC (2,1)				
D-5	Np-237+D , crustacea and mollusks	4.000E+02	4.000E+02	BIOFAC (2,2)				
D-5	Pu-241+D , fish	3.000E+01	3.000E+01	BIOFAC (3,1)				
D-5	Pu-241+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (3,2)				
D-5	Th-229+D , fish	1.000E+02	1.000E+02	BIOFAC (5,1)				
D-5	Th-229+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (5,2)				
D-5	U-233 , fish	1.000E+01	1.000E+01	BIOFAC (6,1)				
D-5	U-233 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (6,2)				

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3	3
Menu	Parameter	User Input	Default	Parameter Name	Used by RESRAD			
AA								
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04	AREA	---			
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00	THICK0	---			
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02	LCZPAQ	---			
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+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		---			

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			3					
3								
R018	3	Fruits, vegetables and grain consumption (kg/yr)	3	1.120E+02	3	1.600E+02	3	---
3	DIET(1)							
R018	3	Leafy vegetable consumption (kg/yr)	3	2.140E+01	3	1.400E+01	3	---
3	DIET(2)							
R018	3	Milk consumption (L/yr)	3	2.330E+02	3	9.200E+01	3	---
3	DIET(3)							
R018	3	Meat and poultry consumption (kg/yr)	3	6.510E+01	3	6.300E+01	3	---
3	DIET(4)							
R018	3	Fish consumption (kg/yr)	3	2.060E+01	3	5.400E+00	3	---
3	DIET(5)							
R018	3	Other seafood consumption (kg/yr)	3	9.000E-01	3	9.000E-01	3	---
3	DIET(6)							
R018	3	Soil ingestion rate (g/yr)	3	1.826E+01	3	3.650E+01	3	---
3	SOIL							
R018	3	Drinking water intake (L/yr)	3	4.785E+02	3	5.100E+02	3	---
3	DWI							
R018	3	Contamination fraction of drinking water	3	1.000E+00	3	1.000E+00	3	---
3	FDW							
R018	3	Contamination fraction of household water	3	not used	3	1.000E+00	3	---
3	FHHW							
R018	3	Contamination fraction of livestock water	3	1.000E+00	3	1.000E+00	3	---
3	FLW							
R018	3	Contamination fraction of irrigation water	3	1.000E+00	3	1.000E+00	3	---
3	FIRW							
R018	3	Contamination fraction of aquatic food	3	1.000E+00	3	5.000E-01	3	---
3	FR9							
R018	3	Contamination fraction of plant food	3	1.000E+00	3	-1	3	---
3	FPLANT							
R018	3	Contamination fraction of meat	3	1.000E+00	3	-1	3	---
3	FMEAT							
R018	3	Contamination fraction of milk	3	1.000E+00	3	-1	3	---
3	FMILK							
3			3					
3								
R019	3	Livestock fodder intake for meat (kg/day)	3	2.710E+01	3	6.800E+01	3	---
3	LFI5							
R019	3	Livestock fodder intake for milk (kg/day)	3	6.320E+01	3	5.500E+01	3	---
3	LFI6							
R019	3	Livestock water intake for meat (L/day)	3	5.060E+01	3	5.000E+01	3	---
3	LWI5							
R019	3	Livestock water intake for milk (L/day)	3	6.000E+01	3	1.600E+02	3	---
3	LWI6							
R019	3	Livestock soil intake (kg/day)	3	5.000E-01	3	5.000E-01	3	---
3	LSI							
R019	3	Mass loading for foliar deposition (g/m**3)	3	4.000E-04	3	1.000E-04	3	---
3	MLFD							

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 Summary : Yankee Rowe Sensitivity Analysis=soil File: YR_Pu-241.RAD

Site-Specific Parameter Summary (continued)

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

AA
 AAAAAAAAAAAAAAAAAAAAA

R019	3	Depth of soil mixing layer (m)	3	2.300E-01	3	1.500E-01	3	---
3	DM							
R019	3	Depth of roots (m)	3	2.150E+00	3	9.000E-01	3	---
3	DROOT							
R019	3	Drinking water fraction from ground water	3	1.000E+00	3	1.000E+00	3	---
3	FGWDW							
R019	3	Household water fraction from ground water	3	not used	3	1.000E+00	3	---
3	FGWHH							

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

0	3	3	3	3	3	3	3	3	3
Menu	Parameter	Current Value	Default	Parameter Name					
AA									
B-1	Dose conversion factors for inhalation, mrem/pCi:								
B-1	Am-241	4.440E-01	4.440E-01	DCF2 (1)					
B-1	Np-237+D	5.400E-01	5.400E-01	DCF2 (2)					
B-1	Th-229+D	2.160E+00	2.160E+00	DCF2 (3)					
B-1	U-233	1.350E-01	1.350E-01	DCF2 (4)					
Dose conversion factors for ingestion, mrem/pCi:									
D-1	Am-241	3.640E-03	3.640E-03	DCF3 (1)					
D-1	Np-237+D	4.440E-03	4.440E-03	DCF3 (2)					
D-1	Th-229+D	4.030E-03	4.030E-03	DCF3 (3)					
D-1	U-233	2.890E-04	2.890E-04	DCF3 (4)					
Food transfer factors:									
D-34	Am-241 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (1,1)					
D-34	Am-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF (1,2)					
D-34	Am-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (1,3)					
D-34	Np-237+D , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF (2,1)					
D-34	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF (2,2)					
D-34	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (2,3)					
D-34	Th-229+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (3,1)					
D-34	Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (3,2)					
D-34	Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (3,3)					
D-34	U-233 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (4,1)					
D-34	U-233 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (4,2)					
D-34	U-233 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (4,3)					
Bioaccumulation factors, fresh water, L/kg:									
D-5	Am-241 , fish	3.000E+01	3.000E+01	BIOFAC (1,1)					
D-5	Am-241 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)					
D-5	Np-237+D , fish	3.000E+01	3.000E+01	BIOFAC (2,1)					
D-5	Np-237+D , crustacea and mollusks	4.000E+02	4.000E+02	BIOFAC (2,2)					
D-5	Th-229+D , fish	1.000E+02	1.000E+02	BIOFAC (3,1)					
D-5	Th-229+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (3,2)					
D-5	U-233 , fish	1.000E+01	1.000E+01	BIOFAC (4,1)					
D-5	U-233 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (4,2)					

Site-Specific Parameter Summary

0	3	3	3	3	3	3	3	3	3
Menu	Parameter	Input	Default	Parameter Name	Used by RESRAD				
AA									
R011	Area of contaminated zone (m**2)	1.302E+04	1.000E+04		---				
AREA									
R011	Thickness of contaminated zone (m)	1.575E+00	2.000E+00		---				
THICKO									
R011	Length parallel to aquifer flow (m)	1.290E+02	1.000E+02		---				
LCZPAQ									
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+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	3	Times for calculations (yr)	3	1.000E+03	3	1.000E+03	3	---
3	T(8)							
R011	3	Times for calculations (yr)	3	not used	3	0.000E+00	3	---
3	T(9)							
R011	3	Times for calculations (yr)	3	not used	3	0.000E+00	3	---
3	T(10)							
3								
R012	3	Initial principal radionuclide (pCi/g): Am-241	3	4.435E+01	3	0.000E+00	3	---
3	S1(1)							
R012	3	Concentration in groundwater (pCi/L): Am-241	3	not used	3	0.000E+00	3	---
3	W1(1)							
3								
R013	3	Cover depth (m)	3	0.000E+00	3	0.000E+00	3	---
3	COVER0							
R013	3	Density of cover material (g/cm**3)	3	not used	3	1.500E+00	3	---
3	DENSCV							
R013	3	Cover depth erosion rate (m/yr)	3	not used	3	1.000E-03	3	---
3	VCV							
R013	3	Density of contaminated zone (g/cm**3)	3	1.860E+00	3	1.500E+00	3	---
3	DENSCZ							
R013	3	Contaminated zone erosion rate (m/yr)	3	8.500E-04	3	1.000E-03	3	---
3	VCZ							
R013	3	Contaminated zone total porosity	3	3.500E-01	3	4.000E-01	3	---
3	TPCZ							
R013	3	Contaminated zone field capacity	3	1.000E-01	3	2.000E-01	3	---
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							

1RESRAD, Version 6.21 T< Limit = 0.5 year
Summary : DCGL to Dose for Am-241

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File: Am-241.RAD

Site-Specific Parameter Summary (continued)

0 3

3 User 3 3

Used by RESRAD

Parameter Menu input)	Parameter Name	Input	Default	(If different from user
AA				
R015	Unsat. zone 1, thickness (m)	1.430E+00	4.000E+00	---
H(1)				
R015	Unsat. zone 1, soil density (g/cm**3)	1.860E+00	1.500E+00	---
DENSUZ(1)				
R015	Unsat. zone 1, total porosity	3.500E-01	4.000E-01	---
TPUZ(1)				
R015	Unsat. zone 1, effective porosity	2.500E-01	2.000E-01	---
EPUZ(1)				
R015	Unsat. zone 1, field capacity	1.000E-01	2.000E-01	---
FCUZ(1)				
R015	Unsat. zone 1, soil-specific b parameter	4.380E+00	5.300E+00	---
BUZ(1)				
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	5.550E+02	1.000E+01	---
HCUZ(1)				
R016	Distribution coefficients for Am-241			
R016	Contaminated zone (cm**3/g)	1.445E+03	2.000E+01	---
DCNUCC(1)				
R016	Unsat. zone 1 (cm**3/g)	1.445E+03	2.000E+01	---
DCNUCU(1,1)				
R016	Saturated zone (cm**3/g)	1.445E+03	2.000E+01	---
DCNUCS(1)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.403E-05
ALEACH(1)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(1)				
R016	Distribution coefficients for daughter Np-237			
R016	Contaminated zone (cm**3/g)	1.700E+01	-1.000E+00	---
DCNUCC(2)				
R016	Unsat. zone 1 (cm**3/g)	1.700E+01	-1.000E+00	---
DCNUCU(2,1)				
R016	Saturated zone (cm**3/g)	1.700E+01	-1.000E+00	---
DCNUCS(2)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.567E-03
ALEACH(2)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(2)				
R016	Distribution coefficients for daughter Th-229			
R016	Contaminated zone (cm**3/g)	5.884E+03	6.000E+04	---
DCNUCC(3)				
R016	Unsat. zone 1 (cm**3/g)	5.884E+03	6.000E+04	---
DCNUCU(3,1)				
R016	Saturated zone (cm**3/g)	5.884E+03	6.000E+04	---
DCNUCS(3)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.327E-05
ALEACH(3)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(3)				
R016	Distribution coefficients for daughter U-233			
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCC(4)				
R016	Unsat. zone 1 (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCU(4,1)				
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---
DCNUCS(4)				
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.192E-04
ALEACH(4)				
R016	Solubility constant	0.000E+00	0.000E+00	not used
SOLUBK(4)				
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---
INHALR				
R017	Mass loading for inhalation (g/m**3)	2.330E-05	1.000E-04	---
MLINH				
R017	Exposure duration	3.000E+01	3.000E+01	---

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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
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Summary : DCGL to Dose for Am-241                  File: Am-241.RAD

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Site-Specific Parameter Summary (continued)

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

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AA

```

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
3
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
3
3

```

```

R018 3 Fruits, vegetables and grain consumption (kg/yr) 3 1.120E+02 3 1.600E+02 3          ---
3 DIET(1)
R018 3 Leafy vegetable consumption (kg/yr)        3 2.140E+01 3 1.400E+01 3          ---
3 DIET(2)
R018 3 Milk consumption (L/yr)                   3 2.330E+02 3 9.200E+01 3          ---

```

DIET(3)					
R018	Meat and poultry consumption (kg/yr)	6.510E+01	6.300E+01		---
DIET(4)					
R018	Fish consumption (kg/yr)	2.060E+01	5.400E+00		---
DIET(5)					
R018	Other seafood consumption (kg/yr)	9.000E-01	9.000E-01		---
DIET(6)					
R018	Soil ingestion rate (g/yr)	1.826E+01	3.650E+01		---
SOIL					
R018	Drinking water intake (L/yr)	4.785E+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	1.000E+00	5.000E-01		---
FR9					
R018	Contamination fraction of plant food	1.000E+00	-1		---
FPLANT					
R018	Contamination fraction of meat	1.000E+00	-1		---
FMEAT					
R018	Contamination fraction of milk	1.000E+00	-1		---
FMILK					
R019	Livestock fodder intake for meat (kg/day)	2.710E+01	6.800E+01		---
LFI5					
R019	Livestock fodder intake for milk (kg/day)	6.320E+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)	5.000E-01	5.000E-01		---
LSI					
R019	Mass loading for foliar deposition (g/m**3)	4.000E-04	1.000E-04		---
MLFD					

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Summary : DCGL to Dose for Am-241 File: Am-241.RAD

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3
Parameter	Parameter	User	Input	Default	Used by RESRAD
Menu input)	Name			(If different from user	
AA					
R019	Depth of soil mixing layer (m)		2.300E-01	1.500E-01	---
DM					
R019	Depth of roots (m)		2.150E+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)		2.889E+00	1.500E+00	---
YV(2)					
R19B	Wet weight crop yield for Fodder (kg/m**2)		1.887E+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)					
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	---

```

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
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
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
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
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
R021 3 Volumetric water content of the cover material 3 not used 3 5.000E-02 3 ---
3 PH2OCV
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Summary : DCGL to Dose for Am-241 File: Am-241.RAD

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Site-Specific Parameter Summary (continued)

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0 3
3 Parameter 3 User 3 3 Used by RESRAD
Menu 3 Parameter 3 Input 3 Default 3 (If different from user
input) 3 Name
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
R021 3 Volumetric water content of the foundation 3 not used 3 3.000E-02 3 ---

```


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	Ac-227+D	6.720E+00	6.720E+00	DCF2 (1)
B-1	Am-243+D	4.400E-01	4.400E-01	DCF2 (2)
B-1	Cm-243	3.070E-01	3.070E-01	DCF2 (3)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2 (5)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2 (6)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2 (7)
D-1 Dose conversion factors for ingestion, mrem/pCi:				
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3 (1)
D-1	Am-243+D	3.630E-03	3.630E-03	DCF3 (2)
D-1	Cm-243	2.510E-03	2.510E-03	DCF3 (3)
D-1	Pa-231	1.060E-02	1.060E-02	DCF3 (5)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3 (6)
D-1	U-235+D	2.670E-04	2.670E-04	DCF3 (7)
D-34 Food transfer factors:				
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (1,1)
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,2)
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,3)
D-34	Am-243+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (2,1)
D-34	Am-243+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF (2,2)
D-34	Am-243+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (2,3)
D-34	Cm-243 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (3,1)
D-34	Cm-243 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF (3,2)
D-34	Cm-243 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (3,3)
D-34	Pa-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF (5,1)
D-34	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF (5,2)
D-34	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (5,3)
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (6,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (6,2)
D-34	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF (6,3)
D-34	U-235+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (7,1)
D-34	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (7,2)
D-34	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (7,3)
D-5 Bioaccumulation factors, fresh water, L/kg:				
D-5	Ac-227+D , fish	1.500E+01	1.500E+01	BIOFAC (1,1)
D-5	Ac-227+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)
D-5	Am-243+D , fish	3.000E+01	3.000E+01	BIOFAC (2,1)
D-5	Am-243+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (2,2)
D-5	Cm-243 , fish	3.000E+01	3.000E+01	BIOFAC (3,1)
D-5	Cm-243 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (3,2)

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

Menu	Parameter	Current Value	Default	Parameter Name
D-5	Pa-231 , fish	1.000E+01	1.000E+01	BIOFAC (5,1)
D-5	Pa-231 , crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC (5,2)
D-5	Pu-239 , fish	3.000E+01	3.000E+01	BIOFAC (6,1)
D-5	Pu-239 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (6,2)
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC (7,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (7,2)

Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user)

input) 3 Name

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA
R011 3 Area of contaminated zone (m**2) 3 1.302E+04 3 1.000E+04 3 ---
3 AREA
R011 3 Thickness of contaminated zone (m) 3 1.575E+00 3 2.000E+00 3 ---
3 THICKO
R011 3 Length parallel to aquifer flow (m) 3 1.290E+02 3 1.000E+02 3 ---
3 LCZPAQ
R011 3 Basic radiation dose limit (mrem/yr) 3 2.500E+01 3 2.500E+01 3 ---
3 BRDL
R011 3 Time since placement of material (yr) 3 0.000E+00 3 0.000E+00 3 ---
3 TI
R011 3 Times for calculations (yr) 3 1.000E+00 3 1.000E+00 3 ---
3 T( 2)
R011 3 Times for calculations (yr) 3 3.000E+00 3 3.000E+00 3 ---
3 T( 3)
R011 3 Times for calculations (yr) 3 1.000E+01 3 1.000E+01 3 ---
3 T( 4)
R011 3 Times for calculations (yr) 3 3.000E+01 3 3.000E+01 3 ---
3 T( 5)
R011 3 Times for calculations (yr) 3 1.000E+02 3 1.000E+02 3 ---
3 T( 6)
R011 3 Times for calculations (yr) 3 3.000E+02 3 3.000E+02 3 ---
3 T( 7)
R011 3 Times for calculations (yr) 3 1.000E+03 3 1.000E+03 3 ---
3 T( 8)
R011 3 Times for calculations (yr) 3 not used 3 0.000E+00 3 ---
3 T( 9)
R011 3 Times for calculations (yr) 3 not used 3 0.000E+00 3 ---
3 T(10)
3
3
R012 3 Initial principal radionuclide (pCi/g): Cm-243 3 4.551E+01 3 0.000E+00 3 ---
3 S1( 3)
R012 3 Concentration in groundwater (pCi/L): Cm-243 3 not used 3 0.000E+00 3 ---
3 W1( 3)
3
3
R013 3 Cover depth (m) 3 0.000E+00 3 0.000E+00 3 ---
3 COVERO
R013 3 Density of cover material (g/cm**3) 3 not used 3 1.500E+00 3 ---
3 DENSCV
R013 3 Cover depth erosion rate (m/yr) 3 not used 3 1.000E-03 3 ---
3 VCV
R013 3 Density of contaminated zone (g/cm**3) 3 1.860E+00 3 1.500E+00 3 ---
3 DENSCZ
R013 3 Contaminated zone erosion rate (m/yr) 3 8.500E-04 3 1.000E-03 3 ---
3 VCZ
R013 3 Contaminated zone total porosity 3 3.500E-01 3 4.000E-01 3 ---
3 TPCZ
R013 3 Contaminated zone field capacity 3 1.000E-01 3 2.000E-01 3 ---
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
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	DCNUCS (2)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 5.403E-05
3	ALEACH (2)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK (2)				
3					
	R016 3 Distribution coefficients for daughter Pa-231	3		3	
3					
	R016 3 Contaminated zone (cm**3/g)	3	3.800E+02	3	5.000E+01 3 ---
3	DCNUCC (5)				
	R016 3 Unsaturated zone 1 (cm**3/g)	3	3.800E+02	3	5.000E+01 3 ---
3	DCNUCU (5,1)				
	R016 3 Saturated zone (cm**3/g)	3	3.800E+02	3	5.000E+01 3 ---
3	DCNUCS (5)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 2.054E-04
3	ALEACH (5)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK (5)				
3					
	R016 3 Distribution coefficients for daughter Pu-239	3		3	
3					
	R016 3 Contaminated zone (cm**3/g)	3	9.530E+02	3	2.000E+03 3 ---
3	DCNUCC (6)				
	R016 3 Unsaturated zone 1 (cm**3/g)	3	9.530E+02	3	2.000E+03 3 ---
3	DCNUCU (6,1)				
	R016 3 Saturated zone (cm**3/g)	3	9.530E+02	3	2.000E+03 3 ---
3	DCNUCS (6)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 8.193E-05
3	ALEACH (6)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK (6)				
3					
	R016 3 Distribution coefficients for daughter U-235	3		3	
3					
	R016 3 Contaminated zone (cm**3/g)	3	1.260E+02	3	5.000E+01 3 ---
3	DCNUCC (7)				
	R016 3 Unsaturated zone 1 (cm**3/g)	3	1.260E+02	3	5.000E+01 3 ---
3	DCNUCU (7,1)				
	R016 3 Saturated zone (cm**3/g)	3	1.260E+02	3	5.000E+01 3 ---
3	DCNUCS (7)				
	R016 3 Leach rate (/yr)	3	0.000E+00	3	0.000E+00 3 6.192E-04
3	ALEACH (7)				
	R016 3 Solubility constant	3	0.000E+00	3	0.000E+00 3 not used
3	SOLUBK (7)				
3					
	R017 3 Inhalation rate (m**3/yr)	3	8.400E+03	3	8.400E+03 3 ---
3	INHALR				

1RESRAD, Version 6.21 T< Limit = 0.5 year 04/21/2003 21:19 Page 6
 Summary : DCGL to Dose for Cm243 File: Cm-243.RAD

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3
Parameter	Parameter	User	Default	(If different from user	Used by RESRAD
Menu	Name	Input	Default		
input)					
3	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					
	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	³	³	³	
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	³	³	³	
³				
R018 ³ Fruits, vegetables and grain consumption (kg/yr)	³ 1.120E+02	³ 1.600E+02	³	---
³ DIET(1)				
R018 ³ Leafy vegetable consumption (kg/yr)	³ 2.140E+01	³ 1.400E+01	³	---
³ DIET(2)				
R018 ³ Milk consumption (L/yr)	³ 2.330E+02	³ 9.200E+01	³	---
³ DIET(3)				
R018 ³ Meat and poultry consumption (kg/yr)	³ 6.510E+01	³ 6.300E+01	³	---
³ DIET(4)				
R018 ³ Fish consumption (kg/yr)	³ 2.060E+01	³ 5.400E+00	³	---
³ DIET(5)				
R018 ³ Other seafood consumption (kg/yr)	³ 9.000E-01	³ 9.000E-01	³	---
³ DIET(6)				
R018 ³ Soil ingestion rate (g/yr)	³ 1.826E+01	³ 3.650E+01	³	---
³ SOIL				
R018 ³ Drinking water intake (L/yr)	³ 4.785E+02	³ 5.100E+02	³	---
³ DWI				
R018 ³ Contamination fraction of drinking water	³ 1.000E+00	³ 1.000E+00	³	---
³ FDW				
R018 ³ Contamination fraction of household water	³ not used	³ 1.000E+00	³	---
³ FHHW				
R018 ³ Contamination fraction of livestock water	³ 1.000E+00	³ 1.000E+00	³	---
³ FLW				
R018 ³ Contamination fraction of irrigation water	³ 1.000E+00	³ 1.000E+00	³	---
³ FIRW				
R018 ³ Contamination fraction of aquatic food	³ 1.000E+00	³ 5.000E-01	³	---
³ FR9				
R018 ³ Contamination fraction of plant food	³ 1.000E+00	³ -1	³	---
³ FPLANT				
R018 ³ Contamination fraction of meat	³ 1.000E+00	³ -1	³	---
³ FMEAT				
R018 ³ Contamination fraction of milk	³ 1.000E+00	³ -1	³	---
³ FMILK				

Site-Specific Parameter Summary (continued)

0	3	3	3	3	3	3
Parameter	Parameter	User	Input	Default	(If different from user	Used by RESRAD
Menu input)	Name					
AA						
R019	Livestock fodder intake for meat (kg/day)		2.710E+01	6.800E+01		---
LFI5						
R019	Livestock fodder intake for milk (kg/day)		6.320E+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)		5.000E-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)		2.150E+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						
3						
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)		2.889E+00	1.500E+00		---
YV(2)						
R19B	Wet weight crop yield for Fodder (kg/m**2)		1.887E+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)						
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						
3						
C14	C-12 concentration in water (g/cm**3)		not used	2.000E-05		---
C12WTR						
C14	C-12 concentration in contaminated soil (g/g)		not used	3.000E-02		---
C12CZ						
C14	Fraction of vegetation carbon from soil		not used	2.000E-02		---
CSOIL						
C14	Fraction of vegetation carbon from air		not used	9.800E-01		---
CAIR						
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						

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Summary of Pathway Selections

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