```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days       05/04/2016  13:08  Page   1
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF
```

                        Table of Contents
                    ────────────────────

     Part I: Mixture Sums and Single Radionuclide Guidelines
     ═══

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   2
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                     Dose Conversion Factor (and Related) Parameter Summary
                                 Current Library: FGR 12
                                 Default Library: FGR 12
```

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	DCF's for external ground radiation, (mrem/yr)/(pCi/g)			
DCSF	Ba-137m (Source: FGR 12)	3.606E+00	3.606E+00	DCFEXT(1)
DCSF	Cs-137 (Source: FGR 12)	7.510E-04	7.510E-04	DCFEXT(2)
DCSF	Sr-90 (Source: FGR 12)	7.043E-04	7.043E-04	DCFEXT(3)
DCSF	Y-90 (Source: FGR 12)	2.391E-02	2.391E-02	DCFEXT(4)

```
                                 Current Library: FGR 11
                                 Default Library: FGR 11
```

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Dose conversion factors for inhalation, mrem/pCi:			
DCSF	Cs-137+D	3.190E-05	3.190E-05	DCF2(1)
DCSF	Sr-90+D	1.308E-03	1.308E-03	DCF2(2)
DCSF	Dose conversion factors for ingestion, mrem/pCi:			
DCSF	Cs-137+D	5.000E-05	5.000E-05	DCF3(1)
DCSF	Sr-90+D	1.528E-04	1.528E-04	DCF3(2)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   3
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                    Dose Conversion Factor (and Related) Parameter Summary (continued)
                          Current Library: RESRAD Default Transfer factors
                          Default Library: RESRAD Default Transfer factors


        |                                                    | Current |         |   Parameter
Menu    |                   Parameter                        |  Value  | Default |    Name
————————|————————————————————————————————————————————————————|—————————|—————————|———————————————
TF      | Soil to plant transfer factors:                    |         |         |
TF      | Cs-137+D , plant/soil concentration ratio, dimensionless | 4.000E-02 | 4.000E-02 | RTF(1,1)
TF      | Cs-137+D , plant/soil concentration ratio, dimensionless | 4.000E-02 | 4.000E-02 | RTF(1,2)
TF      | Cs-137+D , plant/soil concentration ratio, dimensionless | 4.000E-02 | 4.000E-02 | RTF(1,3)
TF      | Cs-137+D , plant/soil concentration ratio, dimensionless | 4.000E-02 | 4.000E-02 | RTF(1,4)
TF      |                                                    |         |         |
TF      | Sr-90+D  , plant/soil concentration ratio, dimensionless | 3.000E-01 | 3.000E-01 | RTF(2,1)
TF      | Sr-90+D  , plant/soil concentration ratio, dimensionless | 3.000E-01 | 3.000E-01 | RTF(2,2)
TF      | Sr-90+D  , plant/soil concentration ratio, dimensionless | 3.000E-01 | 3.000E-01 | RTF(2,3)
TF      | Sr-90+D  , plant/soil concentration ratio, dimensionless | 3.000E-01 | 3.000E-01 | RTF(2,4)
        |                                                    |         |         |
TF      | intake to meat/milk transfer factors:              |         |         |
TF      | Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d) | 3.000E-02 | 3.000E-02 | I_M(1,1)
TF      | Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)  | 8.000E-03 | 8.000E-03 | I_M(1,2)
TF      |                                                    |         |         |
TF      | Sr-90+D  , beef/livestock-intake ratio, (pCi/kg)/(pCi/d) | 8.000E-03 | 8.000E-03 | I_M(2,1)
TF      | Sr-90+D  , milk/livestock-intake ratio, (pCi/L)/(pCi/d)  | 2.000E-03 | 2.000E-03 | I_M(2,2)
        |                                                    |         |         |
TF      | Bioaccumulation factors, fresh water, L/kg:        |         |         |
TF      | Cs-137+D , fish                                    | 2.000E+03 | 2.000E+03 | BIOFA(1,1)
TF      | Cs-137+D , crustacea and mollusks                  | 1.000E+02 | 1.000E+02 | BIOFA(1,2)
TF      |                                                    |         |         |
TF      | Sr-90+D  , fish                                    | 6.000E+01 | 6.000E+01 | BIOFA(2,1)
TF      | Sr-90+D  , crustacea and mollusks                  | 1.000E+02 | 1.000E+02 | BIOFA(2,2)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   4
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                              Site-Specific Parameter Summary
```

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
FSTI	Exposure duration	1.000E+00	3.000E+01	---	ED
FSTI	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---	BRDL
CONC	Initial principal radionuclide (pCi/g): Cs-137	1.690E-01	0.000E+00	---	S1(1)
CONC	Initial principal radionuclide (pCi/g): Sr-90	7.000E-03	0.000E+00	---	S1(2)
VDEP	Deposition velocity for Cs-137	1.000E-03	1.000E-03	---	DEPVEL(1)
VDEP	Deposition velocity for Sr-90	1.000E-03	1.000E-03	---	DEPVEL(2)
DCLR	Distribution coefficients for Cs-137				
DCLR	Contaminated zone (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCC(1)
DCLR	Unsaturated zone 1 (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCU(1,1)
DCLR	Saturated zone (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCS(1)
DCLR	Sediment in surface water body (cm**3/g)	4.800E+02	4.600E+03	---	DCNUCSWB(1)
DCLR	Agricultural area 1 (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCOF(1,1)
DCLR	Agricultural area 2 (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCOF(1,2)
DCLR	Agricultural area 3 (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCOF(1,3)
DCLR	Agricultural area 4 (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCOF(1,4)
DCLR	Offsite Dwelling (cm**3/g)	2.800E+02	4.600E+03	---	DCNUCDWE(1)
DCLR	Initial Leach rate (/yr) Cs-137	0.000E+00	0.000E+00	5.461E-04	ALEACH(1)
DCLR	Distribution coefficients for Sr-90				
DCLR	Contaminated zone (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCC(2)
DCLR	Unsaturated zone 1 (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCU(2,1)
DCLR	Saturated zone (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCS(2)
DCLR	Sediment in surface water body (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCSWB(2)
DCLR	Agricultural area 1 (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCOF(2,1)
DCLR	Agricultural area 2 (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCOF(2,2)
DCLR	Agricultural area 3 (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCOF(2,3)
DCLR	Agricultural area 4 (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCOF(2,4)
DCLR	Offsite Dwelling (cm**3/g)	5.000E+00	3.000E+01	---	DCNUCDWE(2)
DCLR	Initial Leach rate (/yr) Sr-90	0.000E+00	0.000E+00	2.989E-02	ALEACH(2)
LYOT	Bearing of X axis (clockwise angle N-->X in degrees)	9.000E+01	9.000E+01	---	DNXBEARING
LYOT	Length of Primary contamination in X Direction	4.670E+02	1.000E+02	---	SOURCEXY(1)
LYOT	Length of Primary contamination in Y Direction	2.800E+02	1.000E+02	---	SOURCEXY(2)
LYOT	Smaller X coordinate of Agricultural Area 1	0.000E+00	3.438E+01	---	AGRIXY(1,1)
LYOT	Larger X coordinate of Agricultural Area 1	1.000E+00	6.563E+01	---	AGRIXY(2,1)
LYOT	Smaller Y coordinate of Agricultural Area 1	0.000E+00	2.340E+02	---	AGRIXY(3,1)
LYOT	Larger Y coordinate of Agricultural Area 1	1.000E+00	2.660E+02	---	AGRIXY(4,1)
LYOT	Smaller X coordinate of Agricultural Area 2	0.000E+00	3.438E+01	---	AGRIXY(1,2)
LYOT	Larger X coordinate of Agricultural Area 2	1.000E+00	6.563E+01	---	AGRIXY(2,2)
LYOT	Smaller Y coordinate of Agricultural Area 2	0.000E+00	2.680E+02	---	AGRIXY(3,2)
LYOT	Larger Y coordinate of Agricultural Area 2	1.000E+00	3.000E+02	---	AGRIXY(4,2)
LYOT	Smaller X coordinate of Agricultural Area 3	0.000E+00	0.000E+00	---	AGRIXY(1,3)
LYOT	Larger X coordinate of Agricultural Area 3	7.150E+02	1.000E+02	---	AGRIXY(2,3)
LYOT	Smaller Y coordinate of Agricultural Area 3	-6.850E+02	4.500E+02	---	AGRIXY(3,3)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   5
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                           Site-Specific Parameter Summary (continued)


        |                                           |  User   |         | RESRAD   |   Parameter
Menu    |                Parameter                  |  Input  | Default | computed |    Name
────────┼───────────────────────────────────────────┼─────────┼─────────┼──────────┼──────────────
LYOT │ Larger Y coordinate of Agricultural Area 3  | 7.150E+02 | 5.500E+02 |   ---    | AGRIXY(4,3)
LYOT │ Smaller X coordinate of Agricultural Area 4 | 0.000E+00 | 0.000E+00 |   ---    | AGRIXY(1,4)
LYOT │ Larger X coordinate of Agricultural Area 4  | 1.000E+00 | 1.000E+02 |   ---    | AGRIXY(2,4)
LYOT │ Smaller Y coordinate of Agricultural Area 4 | 0.000E+00 | 3.000E+02 |   ---    | AGRIXY(3,4)
LYOT │ Larger Y coordinate of Agricultural Area 4  | 1.000E+00 | 4.000E+02 |   ---    | AGRIXY(4,4)
LYOT │ Smaller X coordinate of Dwelling Area       | 0.000E+00 | 3.438E+01 |   ---    | DWELLXY(1)
LYOT │ Larger X coordinate of Dwelling Area        | 1.200E+02 | 6.563E+01 |   ---    | DWELLXY(2)
LYOT │ Smaller Y coordinate of Dwelling Area       | 9.500E+01 | 1.340E+02 |   ---    | DWELLXY(3)
LYOT │ Larger Y coordinate of Dwelling Area        | 1.900E+02 | 1.660E+02 |   ---    | DWELLXY(4)
LYOT │ Smaller X coordinate of Surface water body  | 3.110E+02 |-1.000E+02 |   ---    | SWXY(1)
LYOT │ Larger X coordinate of Surface water body   | 4.670E+02 | 2.000E+02 |   ---    | SWXY(2)
LYOT │ Smaller Y coordinate of Surface water body  |-1.750E+02 | 5.500E+02 |   ---    | SWXY(3)
LYOT │ Larger Y coordinate of Surface water body   |-5.800E+01 | 8.500E+02 |   ---    | SWXY(4)
        |                                           |         |         |          |
STOR │ Storage times of contaminated foodstuffs (days): |    |         |          |
STOR │    Surface water                            | 1.000E+00 | 1.000E+00 |   ---    | STOR_T(1)
STOR │    Well water                               | 1.000E+00 | 1.000E+00 |   ---    | STOR_T(2)
STOR │    Fruits, non-leafy vegetables, and grain  | 1.400E+01 | 1.400E+01 |   ---    | STOR_T(3)
STOR │    Leafy vegetables                         | 1.000E+00 | 1.000E+00 |   ---    | STOR_T(4)
STOR │    Livestock feed - pasture or silage       | 1.000E+00 | 1.000E+00 |   ---    | STOR_T(5)
STOR │    Livestock feed - grain                   | 4.500E+01 | 4.500E+01 |   ---    | STOR_T(6)
STOR │    Meat and poultry                         | 2.000E+01 | 2.000E+01 |   ---    | STOR_T(7)
STOR │    Milk                                     | 1.000E+00 | 1.000E+00 |   ---    | STOR_T(8)
STOR │    Fish                                     | 7.000E+00 | 7.000E+00 |   ---    | STOR_T(9)
STOR │    Crustacea and mollusks                   | 7.000E+00 | 7.000E+00 |   ---    | STOR_T(10)
        |                                           |         |         |          |
TIME │ Times at which dose/risk are to be reported (yr) | 1.000E+00 | 1.000E+00 |   ---    | T(2)
TIME │ Times at which dose/risk are to be reported (yr) | 3.000E+00 | 3.000E+00 |   ---    | T(3)
TIME │ Times at which dose/risk are to be reported (yr) | 6.000E+00 | 6.000E+00 |   ---    | T(4)
TIME │ Times at which dose/risk are to be reported (yr) | 1.200E+01 | 1.200E+01 |   ---    | T(5)
TIME │ Times at which dose/risk are to be reported (yr) | 3.000E+01 | 3.000E+01 |   ---    | T(6)
TIME │ Times at which dose/risk are to be reported (yr) | 7.500E+01 | 7.500E+01 |   ---    | T(7)
TIME │ Times at which dose/risk are to be reported (yr) | 1.750E+02 | 1.750E+02 |   ---    | T(8)
TIME │ Times at which dose/risk are to be reported (yr) | 4.200E+02 | 4.200E+02 |   ---    | T(9)
TIME │ Times at which dose/risk are to be reported (yr) | 9.700E+02 | 9.700E+02 |   ---    | T(10)
        |                                           |         |         |          |
SITE │ Precipitation (m/yr)                        | 1.160E+00 | 1.000E+00 |   ---    | PRECIP
SITE │ Average annual wind speed (m/sec)           | 2.278E+00 | 2.000E+00 |   ---    | WIND
        |                                           |         |         |          |
PRCZ │ Area of primary contamination (m**2)        | 1.308E+05 | 1.000E+04 |   ---    | AREA
PRCZ │ Length parallel to aquifer flow (m)         | 3.020E+02 | 1.000E+02 |   ---    | LCZPAQ
PRCZ │ Depth of soil mixing layer (m)              | 1.500E-01 | 1.500E-01 |   ---    | DM
PRCZ │ Deposition velocity of dust (m)             | 1.000E-03 | 1.000E-03 |   ---    | DEPVEL_DUST
PRCZ │ Irrigation (m/yr)                           | 0.000E+00 | 2.000E-01 |   ---    | RI
PRCZ │ Evapotranspiration coefficient              | 6.200E-01 | 5.000E-01 |   ---    | EVAPTR
PRCZ │ Runoff coefficient                          | 4.100E-01 | 2.000E-01 |   ---    | RUNOFF
PRCZ │ Rainfall Erosion Index                      | 1.600E+02 | 1.600E+02 |   ---    | RAINEROS
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   6
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                       Site-Specific Parameter Summary (continued)


          |                                                    |  User   |         | RESRAD   |   Parameter
  Menu    |                  Parameter                         |  Input  | Default | computed |     Name
 ─────────┼────────────────────────────────────────────────────┼─────────┼─────────┼──────────┼──────────────
  PRCZ  | Slope-length-steepness factor of prim. contamination| 4.000E-01 | 4.000E-01 |   ---   | SLPLENSTPPC
  PRCZ  | Cropping-management factor of primary contamination | 3.000E-03 | 3.000E-03 |   ---   | CRPMANGPC
  PRCZ  | Conservation practice factor of prim. contamination | 1.000E+00 | 1.000E+00 |   ---   | CONVPRACPC
  PRCZ  | Thickness of contaminated zone (m)                  | 1.000E+00 | 2.000E+00 |   ---   | THICK0
  PRCZ  | Contaminated zone total porosity                    | 3.600E-01 | 4.000E-01 |   ---   | TPCZ
  PRCZ  | Computed erosion rate of contaminated zone (m/yr)   | 1.265E-05 | 1.147E-05 |   ---   | VCZ
  PRCZ  | Density of contaminated zone (g/cm**3)              | 1.700E+00 | 1.500E+00 |   ---   | DENSCZ
  PRCZ  | Soil erodibility factor of contaminated zone        | 5.000E-01 | 4.000E-01 |   ---   | ERODIBILITYCZ
  PRCZ  | Contaminated zone field capacity                    | 2.000E-01 | 3.000E-01 |   ---   | FCCZ
  PRCZ  | Contaminated zone b parameter                       | 1.400E+00 | 5.300E+00 |   ---   | BCZ
  PRCZ  | Contaminated zone hydraulic conductivity (m/yr)     | 1.400E+02 | 1.000E+01 |   ---   | HCCZ
  PRCZ  | Contaminated zone effective porosity                | 2.500E-01 | 4.000E-01 |   ---   | EPCZ
  PRCZ  | longitudinal dispersivity of prime contamination (m)| 5.000E-02 | 5.000E-02 |   ---   | ALPHALCZ
  PRCZ  | Cover depth (m)                                     | not used  | 0.000E+00 |   ---   | COVER0
  PRCZ  | Total porosity of the cover material                | not used  | 4.000E-01 |   ---   | TPCV
  PRCZ  | Computed erosion rate of cover material (m/yr)      | not used  | 1.147E-05 |   ---   | VCV
  PRCZ  | Density of cover material (g/cm**3)                 | not used  | 1.500E+00 |   ---   | DENSCV
  PRCZ  | Soil erodibility factor of cover                    | 4.000E-01 | 4.000E-01 |   ---   | ERODIBILITYCV
  PRCZ  | Volumetric water content of the cover material      | not used  | 5.000E-02 |   ---   | PH2OCV
          |                                                    |           |           |         |
  AGRI  | Areal extent of Agricultural Area 1  (m**2)         | 1.000E+00 | 1.000E+03 |   ---   | AREAO(1)
  AGRI  | Fraction of Agri. Area 1  directly over the c.z.    | not used  | 0.000E+00 |   ---   | FAREA_PLANT(1)
  AGRI  | Evapotranspiration coefficient in Agri. Area 1      | 6.200E-01 | 5.000E-01 |   ---   | EVAPTRN(1)
  AGRI  | Runoff coefficient in Agricultural Area 1           | 4.100E-01 | 2.000E-01 |   ---   | RUNOF(1)
  AGRI  | Mixing depth/plow layer of Agricultural Area 1      | 1.500E-01 | 1.500E-01 |   ---   | DPTHMIXG(1)
  AGRI  | Water filled porosity of soil in Agri. Area 1       | 3.000E-01 | 3.000E-01 |   ---   | TMOF(1)
  AGRI  | Computed erosion rate of soil in Agri. Are1         | 0.000E+00 | 1.147E-05 |   ---   | EROSN(1)
  AGRI  | Dry Bulk Density of soil in Agricultural Area 1     | 1.700E+00 | 1.500E+00 |   ---   | RHOB(1)
  AGRI  | Soil erodibility factor of Agricultural Area 1      | 0.000E+00 | 4.000E-01 |   ---   | ERODIBILITY(1)
  AGRI  | Slope-length-steepness factor, Agricultural Area 1  | 4.000E-01 | 4.000E-01 |   ---   | SLPLENSTP(1)
  AGRI  | Cropping-management factor of Agricultural Area 1   | 3.000E-03 | 3.000E-03 |   ---   | CRPMANG(1)
  AGRI  | Conservation practice factor of Agricultural Area 1 | 1.000E+00 | 1.000E+00 |   ---   | CONVPRAC(1)
  AGRI  | Total porosity of soil in Agri. Area       1        | not used  | 4.000E-01 |   ---   | TPOF(1)
  AGRI  | Areal extent of Agricultural Area 2  (m**2)         | 1.000E+00 | 1.000E+03 |   ---   | AREAO(2)
  AGRI  | Fraction of Agri. Area 2  directly over the c.z.    | not used  | 0.000E+00 |   ---   | FAREA_PLANT(2)
  AGRI  | Evapotranspiration coefficient in Agri. Area 2      | 6.200E-01 | 5.000E-01 |   ---   | EVAPTRN(2)
  AGRI  | Runoff coefficient in Agricultural Area 2           | 4.100E-01 | 2.000E-01 |   ---   | RUNOF(2)
  AGRI  | Mixing depth/plow layer of Agricultural Area 2      | 1.500E-01 | 1.500E-01 |   ---   | DPTHMIXG(2)
  AGRI  | Water filled porosity of soil in Agri. Area 2       | 3.000E-01 | 3.000E-01 |   ---   | TMOF(2)
  AGRI  | Computed erosion rate of soil in Agri. Are2         | 0.000E+00 | 1.147E-05 |   ---   | EROSN(2)
  AGRI  | Dry Bulk Density of soil in Agricultural Area 2     | 1.700E+00 | 1.500E+00 |   ---   | RHOB(2)
  AGRI  | Soil erodibility factor of Agricultural Area 2      | 0.000E+00 | 4.000E-01 |   ---   | ERODIBILITY(2)
  AGRI  | Slope-length-steepness factor, Agricultural Area 2  | 4.000E-01 | 4.000E-01 |   ---   | SLPLENSTP(2)
  AGRI  | Cropping-management factor of Agricultural Area 2   | 3.000E-03 | 3.000E-03 |   ---   | CRPMANG(2)
  AGRI  | Conservation practice factor of Agricultural Area 2 | 1.000E+00 | 1.000E+00 |   ---   | CONVPRAC(2)
  AGRI  | Total porosity of soil in Agri. Area       2        | not used  | 4.000E-01 |   ---   | TPOF(2)
  AGRI  | Areal extent of Agricultural Area 3  (m**2)         | 1.001E+06 | 1.000E+04 |   ---   | AREAO(3)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   7
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                        Site-Specific Parameter Summary (continued)


         |                                             |   User   |          |  RESRAD   |   Parameter
  Menu   |                  Parameter                  |   Input  |  Default | computed  |     Name
─────────┼─────────────────────────────────────────────┼──────────┼──────────┼───────────┼──────────────────
  AGRI   | Fraction of Agri. Area 3  directly over the c.z. | 1.306E-01 | 0.000E+00 |   ---   | FAREA_PLANT(3)
  AGRI   | Evapotranspiration coefficient in Agri. Area 3   | 6.200E-01 | 5.000E-01 |   ---   | EVAPTRN(3)
  AGRI   | Runoff coefficient in Agricultural Area 3        | 4.100E-01 | 2.000E-01 |   ---   | RUNOF(3)
  AGRI   | Mixing depth/plow layer of Agricultural Area 3   | 1.500E-01 | 1.500E-01 |   ---   | DPTHMIXG(3)
  AGRI   | Water filled porosity of soil in Agri. Area 3    | 3.000E-01 | 3.000E-01 |   ---   | TMOF(3)
  AGRI   | Computed erosion rate of soil in Agri. Are3      | 1.265E-05 | 1.147E-05 |   ---   | EROSN(3)
  AGRI   | Dry Bulk Density of soil in Agricultural Area 3  | 1.700E+00 | 1.500E+00 |   ---   | RHOB(3)
  AGRI   | Soil erodibility factor of Agricultural Area 3   | 5.000E-01 | 4.000E-01 |   ---   | ERODIBILITY(3)
  AGRI   | Slope-length-steepness factor, Agricultural Area 3 | 4.000E-01 | 4.000E-01 |  ---   | SLPLENSTP(3)
  AGRI   | Cropping-management factor of Agricultural Area 3 | 3.000E-03 | 3.000E-03 |   ---   | CRPMANG(3)
  AGRI   | Conservation practice factor of Agricultural Area 3 | 1.000E+00 | 1.000E+00 | --- | CONVPRAC(3)
  AGRI   | Total porosity of soil in Agri. Area        3    | not used | 4.000E-01 |   ---   | TPOF(3)
  AGRI   | Areal extent of Agricultural Area 4   (m**2)     | 1.000E+00 | 1.000E+04 |   ---   | AREAO(4)
  AGRI   | Fraction of Agri. Area 4  directly over the c.z. | 1.000E+00 | 0.000E+00 |   ---   | FAREA_PLANT(4)
  AGRI   | Evapotranspiration coefficient in Agri. Area 4   | 6.200E-01 | 5.000E-01 |   ---   | EVAPTRN(4)
  AGRI   | Runoff coefficient in Agricultural Area 4        | 4.100E-01 | 2.000E-01 |   ---   | RUNOF(4)
  AGRI   | Mixing depth/plow layer of Agricultural Area 4   | 1.500E-01 | 1.500E-01 |   ---   | DPTHMIXG(4)
  AGRI   | Water filled porosity of soil in Agri. Area 4    | 3.000E-01 | 3.000E-01 |   ---   | TMOF(4)
  AGRI   | Computed erosion rate of soil in Agri. Are4      | 0.000E+00 | 1.147E-05 |   ---   | EROSN(4)
  AGRI   | Dry Bulk Density of soil in Agricultural Area 4  | 1.700E+00 | 1.500E+00 |   ---   | RHOB(4)
  AGRI   | Soil erodibility factor of Agricultural Area 4   | 0.000E+00 | 4.000E-01 |   ---   | ERODIBILITY(4)
  AGRI   | Slope-length-steepness factor, Agricultural Area 4 | 4.000E-01 | 4.000E-01 |  ---   | SLPLENSTP(4)
  AGRI   | Cropping-management factor of Agricultural Area 4 | 3.000E-03 | 3.000E-03 |   ---   | CRPMANG(4)
  AGRI   | Conservation practice factor of Agricultural Area 4 | 1.000E+00 | 1.000E+00 | --- | CONVPRAC(4)
  AGRI   | Total porosity of soil in Agri. Area        4    | not used | 4.000E-01 |   ---   | TPOF(4)
         |                                             |          |          |           |
  DWEL   | Areal extent of Offsite dwelling site (m**2)     | 1.140E+04 | 1.000E+03 |   ---   | AREAODWELL
  DWEL   | Evapotranspiration coefficient in dwelling (Off)site| 6.200E-01 | 5.000E-01 | --- | EVAPTRNDWELL
  DWEL   | Runoff coefficient in Offsite dwelling site      | 4.100E-01 | 2.000E-01 |   ---   | RUNOFDWELL
  DWEL   | Mixing depth of Offsite dwelling site            | 1.500E-01 | 1.500E-01 |   ---   | DPTHMIXGDWELL
  DWEL   | Water filled porosity of soil in Offsite Dwelling| 3.000E-01 | 3.000E-01 |   ---   | TMOFDWELL
  DWEL   | Computed erosion rate of soil in Offsite Dwelling| 0.000E+00 | 0.000E+00 |   ---   | EROSNDWELL
  DWEL   | Dry Bulk Density of soil in Offsite dwelling site| 1.700E+00 | 1.500E+00 |   ---   | RHOBDWELL
  DWEL   | Soil erodibility factor of soil in Dwelling site | 0.000E+00 | 0.000E+00 |   ---   | ERODIBILITYDWELL
  DWEL   | Slope-length-steepness factor of Dwelling site   | 4.000E-01 | 4.000E-01 |   ---   | SLPLENSTPDWELL
  DWEL   | Cropping-management factor of Dwelling site      | 3.000E-03 | 3.000E-03 |   ---   | CRPMANGDWELL
  DWEL   | Conservation practice factor of Offsite Dwelling sit| 1.000E+00 | 1.000E+00 | --- | CONVPRACDWELL
  DWEL   | Total porosity of soil in Offsite Dwelling       | not used | 4.000E-01 |   ---   | TPOFDWELL
         |                                             |          |          |           |
  AIRT   | Dispersion Coeffficients; 1 = Pasquill-Gifford  |        1 |        1 |   ---   | IDISPMOD
  AIRT   | Population zone; 1 = Rural                       |        1 |        1 |   ---   | IZONE
  AIRT   | Release height, (m)                             | 1.000E+00 | 1.000E+00 |   ---   | AIRRELHT
  AIRT   | Heat flux for buoyant plume (cal/s),            | 0.000E+00 | 0.000E+00 |   ---   | HEATFLX
  AIRT   | Anemometer height, (m)                          | 1.000E+01 | 1.000E+01 |   ---   | ANH
  AIRT   | Absolute temperature (Kelvin)                   | 2.850E+02 | 2.850E+02 |   ---   | TABK
  AIRT   | AM atmospheric mixing height (m)                | 4.000E+02 | 4.000E+02 |   ---   | AMIX
  AIRT   | PM atmospheric mixing height (m)                | 1.600E+03 | 1.600E+03 |   ---   | PMIX
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page   8
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                        Site-Specific Parameter Summary (continued)


        |                                               |  User    |          |  RESRAD  |  Parameter
 Menu   |                Parameter                      |  Input   | Default  | computed |   Name
 ———————+———————————————————————————————————————————————+——————————+——————————+——————————+—————————————
 AIRT | Elevation of Agricultural Area 1 above primary cont.| 0.000E+00 | 0.000E+00 |   ---   | AGRIELEV(1)
 AIRT | Elevation of Agricultural Area 2 above primary cont.| 0.000E+00 | 0.000E+00 |   ---   | AGRIELEV(2)
 AIRT | Elevation of Agricultural Area 3 above primary cont.| 0.000E+00 | 0.000E+00 |   ---   | AGRIELEV(3)
 AIRT | Elevation of Agricultural Area 4 above primary cont.| 0.000E+00 | 0.000E+00 |   ---   | AGRIELEV(4)
 AIRT | Elevation of Dwelling Site relative to primary cont.| 0.000E+00 | 0.000E+00 |   ---   | DWELLELEV
 AIRT | Elevation of Surf.Wtr body relative to primary cont.| 0.000E+00 | 0.000E+00 |   ---   | SWELEV
      |                                               |          |          |          |
 AIRT | Joint frequency Meteorological data:          |          |          |          |
 AIRT | Upper limit for windspeed class 1 (m/s)       | 7.500E-01 | 8.900E-01 |   ---   | WINDSPEED(1)
 AIRT | Upper limit for windspeed class 2 (m/s)       | 2.250E+00 | 2.460E+00 |   ---   | WINDSPEED(2)
 AIRT | Upper limit for windspeed class 3 (m/s)       | 4.500E+00 | 4.470E+00 |   ---   | WINDSPEED(3)
 AIRT | Upper limit for windspeed class 4 (m/s)       | 7.500E+00 | 6.930E+00 |   ---   | WINDSPEED(4)
 AIRT | Upper limit for windspeed class 5 (m/s)       | 1.050E+01 | 9.610E+00 |   ---   | WINDSPEED(5)
 AIRT | Upper limit for windspeed class 6 (m/s)       | 1.350E+01 | 1.252E+01 |   ---   | WINDSPEED(6)
      |                                               |          |          |          |
 AIRT | Joint Frequency in N Sector                   |          |          |          |
 AIRT |    for wind speed class 1 and stability class A | 1.000E-04 | 1.000E+00 |   ---   | DFREQ(1,1,1)
 AIRT |    for wind speed class 1 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,2,1)
 AIRT |    for wind speed class 1 and stability class C | 1.200E-04 | 0.000E+00 |   ---   | DFREQ(1,3,1)
 AIRT |    for wind speed class 1 and stability class D | 6.950E-03 | 0.000E+00 |   ---   | DFREQ(1,4,1)
 AIRT |    for wind speed class 1 and stability class E | 1.983E-02 | 0.000E+00 |   ---   | DFREQ(1,5,1)
 AIRT |    for wind speed class 1 and stability class F | 1.547E-02 | 0.000E+00 |   ---   | DFREQ(1,6,1)
      |                                               |          |          |          |
 AIRT | Joint Frequency in N Sector                   |          |          |          |
 AIRT |    for wind speed class 2 and stability class A | 2.200E-04 | 0.000E+00 |   ---   | DFREQ(2,1,1)
 AIRT |    for wind speed class 2 and stability class B | 5.600E-04 | 0.000E+00 |   ---   | DFREQ(2,2,1)
 AIRT |    for wind speed class 2 and stability class C | 1.660E-03 | 0.000E+00 |   ---   | DFREQ(2,3,1)
 AIRT |    for wind speed class 2 and stability class D | 2.274E-02 | 0.000E+00 |   ---   | DFREQ(2,4,1)
 AIRT |    for wind speed class 2 and stability class E | 2.191E-02 | 0.000E+00 |   ---   | DFREQ(2,5,1)
 AIRT |    for wind speed class 2 and stability class F | 2.400E-03 | 0.000E+00 |   ---   | DFREQ(2,6,1)
      |                                               |          |          |          |
 AIRT | Joint Frequency in N Sector                   |          |          |          |
 AIRT |    for wind speed class 3 and stability class A | 5.100E-04 | 0.000E+00 |   ---   | DFREQ(3,1,1)
 AIRT |    for wind speed class 3 and stability class B | 1.030E-03 | 0.000E+00 |   ---   | DFREQ(3,2,1)
 AIRT |    for wind speed class 3 and stability class C | 1.810E-03 | 0.000E+00 |   ---   | DFREQ(3,3,1)
 AIRT |    for wind speed class 3 and stability class D | 1.506E-02 | 0.000E+00 |   ---   | DFREQ(3,4,1)
 AIRT |    for wind speed class 3 and stability class E | 7.710E-03 | 0.000E+00 |   ---   | DFREQ(3,5,1)
 AIRT |    for wind speed class 3 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(3,6,1)
      |                                               |          |          |          |
 AIRT | Joint Frequency in N Sector                   |          |          |          |
 AIRT |    for wind speed class 4 and stability class A | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(4,1,1)
 AIRT |    for wind speed class 4 and stability class B | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(4,2,1)
 AIRT |    for wind speed class 4 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,3,1)
 AIRT |    for wind speed class 4 and stability class D | 6.100E-04 | 0.000E+00 |   ---   | DFREQ(4,4,1)
 AIRT |    for wind speed class 4 and stability class E | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(4,5,1)
 AIRT |    for wind speed class 4 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,1)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page    9
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF
```

                         Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,1)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,1)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,1)
AIRT	for wind speed class 5 and stability class D	0.000E+00	0.000E+00	---	DFREQ(5,4,1)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,1)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,1)
AIRT					
AIRT	Joint Frequency in N Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,1)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,1)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,1)
AIRT	for wind speed class 6 and stability class D	0.000E+00	0.000E+00	---	DFREQ(6,4,1)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,1)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,1)
AIRT					
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 1 and stability class A	5.000E-05	0.000E+00	---	DFREQ(1,1,2)
AIRT	for wind speed class 1 and stability class B	5.000E-05	0.000E+00	---	DFREQ(1,2,2)
AIRT	for wind speed class 1 and stability class C	7.000E-05	0.000E+00	---	DFREQ(1,3,2)
AIRT	for wind speed class 1 and stability class D	7.200E-03	0.000E+00	---	DFREQ(1,4,2)
AIRT	for wind speed class 1 and stability class E	1.092E-02	0.000E+00	---	DFREQ(1,5,2)
AIRT	for wind speed class 1 and stability class F	6.760E-03	0.000E+00	---	DFREQ(1,6,2)
AIRT					
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 2 and stability class A	2.700E-04	0.000E+00	---	DFREQ(2,1,2)
AIRT	for wind speed class 2 and stability class B	8.300E-04	0.000E+00	---	DFREQ(2,2,2)
AIRT	for wind speed class 2 and stability class C	1.810E-03	0.000E+00	---	DFREQ(2,3,2)
AIRT	for wind speed class 2 and stability class D	2.296E-02	0.000E+00	---	DFREQ(2,4,2)
AIRT	for wind speed class 2 and stability class E	7.050E-03	0.000E+00	---	DFREQ(2,5,2)
AIRT	for wind speed class 2 and stability class F	2.200E-04	0.000E+00	---	DFREQ(2,6,2)
AIRT					
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 3 and stability class A	3.900E-04	0.000E+00	---	DFREQ(3,1,2)
AIRT	for wind speed class 3 and stability class B	6.400E-04	0.000E+00	---	DFREQ(3,2,2)
AIRT	for wind speed class 3 and stability class C	7.100E-04	0.000E+00	---	DFREQ(3,3,2)
AIRT	for wind speed class 3 and stability class D	6.930E-03	0.000E+00	---	DFREQ(3,4,2)
AIRT	for wind speed class 3 and stability class E	9.500E-04	0.000E+00	---	DFREQ(3,5,2)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,2)
AIRT					
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,2)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,2)
AIRT	for wind speed class 4 and stability class C	0.000E+00	0.000E+00	---	DFREQ(4,3,2)
AIRT	for wind speed class 4 and stability class D	2.000E-05	0.000E+00	---	DFREQ(4,4,2)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,2)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,2)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  10
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF
```

                    Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,2)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,2)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,2)
AIRT	for wind speed class 5 and stability class D	0.000E+00	0.000E+00	---	DFREQ(5,4,2)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,2)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,2)
AIRT	Joint Frequency in NNE Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,2)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,2)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,2)
AIRT	for wind speed class 6 and stability class D	0.000E+00	0.000E+00	---	DFREQ(6,4,2)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,2)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,2)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 1 and stability class A	2.000E-05	0.000E+00	---	DFREQ(1,1,3)
AIRT	for wind speed class 1 and stability class B	2.000E-05	0.000E+00	---	DFREQ(1,2,3)
AIRT	for wind speed class 1 and stability class C	7.000E-05	0.000E+00	---	DFREQ(1,3,3)
AIRT	for wind speed class 1 and stability class D	6.290E-03	0.000E+00	---	DFREQ(1,4,3)
AIRT	for wind speed class 1 and stability class E	6.860E-03	0.000E+00	---	DFREQ(1,5,3)
AIRT	for wind speed class 1 and stability class F	4.060E-03	0.000E+00	---	DFREQ(1,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 2 and stability class A	3.900E-04	0.000E+00	---	DFREQ(2,1,3)
AIRT	for wind speed class 2 and stability class B	1.220E-03	0.000E+00	---	DFREQ(2,2,3)
AIRT	for wind speed class 2 and stability class C	2.500E-03	0.000E+00	---	DFREQ(2,3,3)
AIRT	for wind speed class 2 and stability class D	1.785E-02	0.000E+00	---	DFREQ(2,4,3)
AIRT	for wind speed class 2 and stability class E	1.440E-03	0.000E+00	---	DFREQ(2,5,3)
AIRT	for wind speed class 2 and stability class F	2.000E-05	0.000E+00	---	DFREQ(2,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 3 and stability class A	3.400E-04	0.000E+00	---	DFREQ(3,1,3)
AIRT	for wind speed class 3 and stability class B	6.600E-04	0.000E+00	---	DFREQ(3,2,3)
AIRT	for wind speed class 3 and stability class C	7.300E-04	0.000E+00	---	DFREQ(3,3,3)
AIRT	for wind speed class 3 and stability class D	4.430E-03	0.000E+00	---	DFREQ(3,4,3)
AIRT	for wind speed class 3 and stability class E	7.000E-05	0.000E+00	---	DFREQ(3,5,3)
AIRT	for wind speed class 3 and stability class F	0.000E+00	0.000E+00	---	DFREQ(3,6,3)
AIRT	Joint Frequency in NE Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,3)
AIRT	for wind speed class 4 and stability class B	0.000E+00	0.000E+00	---	DFREQ(4,2,3)
AIRT	for wind speed class 4 and stability class C	0.000E+00	0.000E+00	---	DFREQ(4,3,3)
AIRT	for wind speed class 4 and stability class D	2.000E-05	0.000E+00	---	DFREQ(4,4,3)
AIRT	for wind speed class 4 and stability class E	0.000E+00	0.000E+00	---	DFREQ(4,5,3)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,3)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  11
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                            Site-Specific Parameter Summary (continued)


        |                                         |  User    |          |  RESRAD  |   Parameter
Menu    |               Parameter                 |  Input   |  Default |  computed |   Name
────────┼─────────────────────────────────────────┼──────────┼──────────┼──────────┼─────────────
AIRT │ Joint Frequency in NE Sector               |          |          |          |
AIRT │    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,3)
AIRT │    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,3)
AIRT │    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,3)
AIRT │    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,4,3)
AIRT │    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,3)
AIRT │    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,3)
     │                                            |          |          |          |
AIRT │ Joint Frequency in NE Sector               |          |          |          |
AIRT │    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,3)
AIRT │    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,3)
AIRT │    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,3)
AIRT │    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,3)
AIRT │    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,3)
AIRT │    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,3)
     │                                            |          |          |          |
AIRT │ Joint Frequency in ENE Sector              |          |          |          |
AIRT │    for wind speed class 1 and stability class A  | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,1,4)
AIRT │    for wind speed class 1 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,2,4)
AIRT │    for wind speed class 1 and stability class C  | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,4)
AIRT │    for wind speed class 1 and stability class D  | 6.150E-03 | 0.000E+00 |   ---   | DFREQ(1,4,4)
AIRT │    for wind speed class 1 and stability class E  | 6.540E-03 | 0.000E+00 |   ---   | DFREQ(1,5,4)
AIRT │    for wind speed class 1 and stability class F  | 2.720E-03 | 0.000E+00 |   ---   | DFREQ(1,6,4)
     │                                            |          |          |          |
AIRT │ Joint Frequency in ENE Sector              |          |          |          |
AIRT │    for wind speed class 2 and stability class A  | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(2,1,4)
AIRT │    for wind speed class 2 and stability class B  | 6.400E-04 | 0.000E+00 |   ---   | DFREQ(2,2,4)
AIRT │    for wind speed class 2 and stability class C  | 1.180E-03 | 0.000E+00 |   ---   | DFREQ(2,3,4)
AIRT │    for wind speed class 2 and stability class D  | 1.227E-02 | 0.000E+00 |   ---   | DFREQ(2,4,4)
AIRT │    for wind speed class 2 and stability class E  | 1.000E-03 | 0.000E+00 |   ---   | DFREQ(2,5,4)
AIRT │    for wind speed class 2 and stability class F  | 1.000E-04 | 0.000E+00 |   ---   | DFREQ(2,6,4)
     │                                            |          |          |          |
AIRT │ Joint Frequency in ENE Sector              |          |          |          |
AIRT │    for wind speed class 3 and stability class A  | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(3,1,4)
AIRT │    for wind speed class 3 and stability class B  | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(3,2,4)
AIRT │    for wind speed class 3 and stability class C  | 4.700E-04 | 0.000E+00 |   ---   | DFREQ(3,3,4)
AIRT │    for wind speed class 3 and stability class D  | 2.350E-03 | 0.000E+00 |   ---   | DFREQ(3,4,4)
AIRT │    for wind speed class 3 and stability class E  | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(3,5,4)
AIRT │    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(3,6,4)
     │                                            |          |          |          |
AIRT │ Joint Frequency in ENE Sector              |          |          |          |
AIRT │    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,4)
AIRT │    for wind speed class 4 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,4)
AIRT │    for wind speed class 4 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,3,4)
AIRT │    for wind speed class 4 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,4,4)
AIRT │    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,5,4)
AIRT │    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,4)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  12
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                              Site-Specific Parameter Summary (continued)


        |                                            |  User    |          |  RESRAD   |   Parameter
Menu    |                  Parameter                 |  Input   |  Default |  computed |    Name
--------+--------------------------------------------+----------+----------+-----------+--------------
AIRT  | Joint Frequency in ENE Sector              |          |          |           |
AIRT  |    for wind speed class 5 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,4)
AIRT  |    for wind speed class 5 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,4)
AIRT  |    for wind speed class 5 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,4)
AIRT  |    for wind speed class 5 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,4,4)
AIRT  |    for wind speed class 5 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,4)
AIRT  |    for wind speed class 5 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,4)
      |                                            |          |          |           |
AIRT  | Joint Frequency in ENE Sector              |          |          |           |
AIRT  |    for wind speed class 6 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,4)
AIRT  |    for wind speed class 6 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,4)
AIRT  |    for wind speed class 6 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,4)
AIRT  |    for wind speed class 6 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,4)
AIRT  |    for wind speed class 6 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,4)
AIRT  |    for wind speed class 6 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,4)
      |                                            |          |          |           |
AIRT  | Joint Frequency in E Sector                |          |          |           |
AIRT  |    for wind speed class 1 and stability class A | 2.000E-04 | 0.000E+00 |   ---   | DFREQ(1,1,5)
AIRT  |    for wind speed class 1 and stability class B | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(1,2,5)
AIRT  |    for wind speed class 1 and stability class C | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,5)
AIRT  |    for wind speed class 1 and stability class D | 8.320E-03 | 0.000E+00 |   ---   | DFREQ(1,4,5)
AIRT  |    for wind speed class 1 and stability class E | 7.100E-03 | 0.000E+00 |   ---   | DFREQ(1,5,5)
AIRT  |    for wind speed class 1 and stability class F | 1.660E-03 | 0.000E+00 |   ---   | DFREQ(1,6,5)
      |                                            |          |          |           |
AIRT  | Joint Frequency in E Sector                |          |          |           |
AIRT  |    for wind speed class 2 and stability class A | 2.700E-04 | 0.000E+00 |   ---   | DFREQ(2,1,5)
AIRT  |    for wind speed class 2 and stability class B | 8.300E-04 | 0.000E+00 |   ---   | DFREQ(2,2,5)
AIRT  |    for wind speed class 2 and stability class C | 1.740E-03 | 0.000E+00 |   ---   | DFREQ(2,3,5)
AIRT  |    for wind speed class 2 and stability class D | 2.025E-02 | 0.000E+00 |   ---   | DFREQ(2,4,5)
AIRT  |    for wind speed class 2 and stability class E | 1.620E-03 | 0.000E+00 |   ---   | DFREQ(2,5,5)
AIRT  |    for wind speed class 2 and stability class F | 1.700E-04 | 0.000E+00 |   ---   | DFREQ(2,6,5)
      |                                            |          |          |           |
AIRT  | Joint Frequency in E Sector                |          |          |           |
AIRT  |    for wind speed class 3 and stability class A | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(3,1,5)
AIRT  |    for wind speed class 3 and stability class B | 3.400E-04 | 0.000E+00 |   ---   | DFREQ(3,2,5)
AIRT  |    for wind speed class 3 and stability class C | 5.100E-04 | 0.000E+00 |   ---   | DFREQ(3,3,5)
AIRT  |    for wind speed class 3 and stability class D | 5.240E-03 | 0.000E+00 |   ---   | DFREQ(3,4,5)
AIRT  |    for wind speed class 3 and stability class E | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(3,5,5)
AIRT  |    for wind speed class 3 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(3,6,5)
      |                                            |          |          |           |
AIRT  | Joint Frequency in E Sector                |          |          |           |
AIRT  |    for wind speed class 4 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,5)
AIRT  |    for wind speed class 4 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,5)
AIRT  |    for wind speed class 4 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,3,5)
AIRT  |    for wind speed class 4 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,4,5)
AIRT  |    for wind speed class 4 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,5,5)
AIRT  |    for wind speed class 4 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,5)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  13
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                             Site-Specific Parameter Summary (continued)


         |                                         |   User    |           |   RESRAD   |   Parameter
  Menu   |               Parameter                 |   Input   |  Default  |  computed  |     Name
---------+-----------------------------------------+-----------+-----------+------------+---------------
  AIRT  | Joint Frequency in E Sector              |           |           |            |
  AIRT  |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,1,5)
  AIRT  |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,2,5)
  AIRT  |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,3,5)
  AIRT  |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,4,5)
  AIRT  |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,5,5)
  AIRT  |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(5,6,5)
         |                                         |           |           |            |
  AIRT  | Joint Frequency in E Sector              |           |           |            |
  AIRT  |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,1,5)
  AIRT  |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,2,5)
  AIRT  |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,3,5)
  AIRT  |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,4,5)
  AIRT  |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,5,5)
  AIRT  |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(6,6,5)
         |                                         |           |           |            |
  AIRT  | Joint Frequency in ESE Sector            |           |           |            |
  AIRT  |    for wind speed class 1 and stability class A  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(1,1,6)
  AIRT  |    for wind speed class 1 and stability class B  | 2.000E-05 | 0.000E+00 |    ---    | DFREQ(1,2,6)
  AIRT  |    for wind speed class 1 and stability class C  | 2.000E-04 | 0.000E+00 |    ---    | DFREQ(1,3,6)
  AIRT  |    for wind speed class 1 and stability class D  | 1.050E-02 | 0.000E+00 |    ---    | DFREQ(1,4,6)
  AIRT  |    for wind speed class 1 and stability class E  | 7.760E-03 | 0.000E+00 |    ---    | DFREQ(1,5,6)
  AIRT  |    for wind speed class 1 and stability class F  | 6.900E-04 | 0.000E+00 |    ---    | DFREQ(1,6,6)
         |                                         |           |           |            |
  AIRT  | Joint Frequency in ESE Sector            |           |           |            |
  AIRT  |    for wind speed class 2 and stability class A  | 5.400E-04 | 0.000E+00 |    ---    | DFREQ(2,1,6)
  AIRT  |    for wind speed class 2 and stability class B  | 1.640E-03 | 0.000E+00 |    ---    | DFREQ(2,2,6)
  AIRT  |    for wind speed class 2 and stability class C  | 3.500E-03 | 0.000E+00 |    ---    | DFREQ(2,3,6)
  AIRT  |    for wind speed class 2 and stability class D  | 3.529E-02 | 0.000E+00 |    ---    | DFREQ(2,4,6)
  AIRT  |    for wind speed class 2 and stability class E  | 4.480E-03 | 0.000E+00 |    ---    | DFREQ(2,5,6)
  AIRT  |    for wind speed class 2 and stability class F  | 5.000E-05 | 0.000E+00 |    ---    | DFREQ(2,6,6)
         |                                         |           |           |            |
  AIRT  | Joint Frequency in ESE Sector            |           |           |            |
  AIRT  |    for wind speed class 3 and stability class A  | 9.800E-04 | 0.000E+00 |    ---    | DFREQ(3,1,6)
  AIRT  |    for wind speed class 3 and stability class B  | 1.490E-03 | 0.000E+00 |    ---    | DFREQ(3,2,6)
  AIRT  |    for wind speed class 3 and stability class C  | 1.760E-03 | 0.000E+00 |    ---    | DFREQ(3,3,6)
  AIRT  |    for wind speed class 3 and stability class D  | 1.809E-02 | 0.000E+00 |    ---    | DFREQ(3,4,6)
  AIRT  |    for wind speed class 3 and stability class E  | 5.000E-05 | 0.000E+00 |    ---    | DFREQ(3,5,6)
  AIRT  |    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(3,6,6)
         |                                         |           |           |            |
  AIRT  | Joint Frequency in ESE Sector            |           |           |            |
  AIRT  |    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(4,1,6)
  AIRT  |    for wind speed class 4 and stability class B  | 2.000E-05 | 0.000E+00 |    ---    | DFREQ(4,2,6)
  AIRT  |    for wind speed class 4 and stability class C  | 5.000E-05 | 0.000E+00 |    ---    | DFREQ(4,3,6)
  AIRT  |    for wind speed class 4 and stability class D  | 2.000E-05 | 0.000E+00 |    ---    | DFREQ(4,4,6)
  AIRT  |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(4,5,6)
  AIRT  |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |    ---    | DFREQ(4,6,6)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  14
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                        Site-Specific Parameter Summary (continued)


        |                                          |  User    |         |  RESRAD    |   Parameter
  Menu  |                 Parameter                |  Input   | Default | computed   |     Name
────────┼──────────────────────────────────────────┼──────────┼─────────┼────────────┼──────────────
  AIRT  | Joint Frequency in ESE Sector            |          |         |            |
  AIRT  |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,1,6)
  AIRT  |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,2,6)
  AIRT  |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,3,6)
  AIRT  |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,4,6)
  AIRT  |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,5,6)
  AIRT  |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(5,6,6)
        |                                          |          |         |            |
  AIRT  | Joint Frequency in ESE Sector            |          |         |            |
  AIRT  |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,1,6)
  AIRT  |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,2,6)
  AIRT  |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,3,6)
  AIRT  |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,4,6)
  AIRT  |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,5,6)
  AIRT  |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(6,6,6)
        |                                          |          |         |            |
  AIRT  | Joint Frequency in SE Sector             |          |         |            |
  AIRT  |    for wind speed class 1 and stability class A  | 2.000E-05 | 0.000E+00 |    ---   | DFREQ(1,1,7)
  AIRT  |    for wind speed class 1 and stability class B  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(1,2,7)
  AIRT  |    for wind speed class 1 and stability class C  | 1.700E-04 | 0.000E+00 |    ---   | DFREQ(1,3,7)
  AIRT  |    for wind speed class 1 and stability class D  | 9.060E-03 | 0.000E+00 |    ---   | DFREQ(1,4,7)
  AIRT  |    for wind speed class 1 and stability class E  | 4.280E-03 | 0.000E+00 |    ---   | DFREQ(1,5,7)
  AIRT  |    for wind speed class 1 and stability class F  | 4.900E-04 | 0.000E+00 |    ---   | DFREQ(1,6,7)
        |                                          |          |         |            |
  AIRT  | Joint Frequency in SE Sector             |          |         |            |
  AIRT  |    for wind speed class 2 and stability class A  | 1.130E-03 | 0.000E+00 |    ---   | DFREQ(2,1,7)
  AIRT  |    for wind speed class 2 and stability class B  | 2.910E-03 | 0.000E+00 |    ---   | DFREQ(2,2,7)
  AIRT  |    for wind speed class 2 and stability class C  | 4.970E-03 | 0.000E+00 |    ---   | DFREQ(2,3,7)
  AIRT  |    for wind speed class 2 and stability class D  | 6.305E-02 | 0.000E+00 |    ---   | DFREQ(2,4,7)
  AIRT  |    for wind speed class 2 and stability class E  | 6.540E-03 | 0.000E+00 |    ---   | DFREQ(2,5,7)
  AIRT  |    for wind speed class 2 and stability class F  | 1.500E-04 | 0.000E+00 |    ---   | DFREQ(2,6,7)
        |                                          |          |         |            |
  AIRT  | Joint Frequency in SE Sector             |          |         |            |
  AIRT  |    for wind speed class 3 and stability class A  | 5.920E-03 | 0.000E+00 |    ---   | DFREQ(3,1,7)
  AIRT  |    for wind speed class 3 and stability class B  | 5.900E-03 | 0.000E+00 |    ---   | DFREQ(3,2,7)
  AIRT  |    for wind speed class 3 and stability class C  | 8.350E-03 | 0.000E+00 |    ---   | DFREQ(3,3,7)
  AIRT  |    for wind speed class 3 and stability class D  | 4.447E-02 | 0.000E+00 |    ---   | DFREQ(3,4,7)
  AIRT  |    for wind speed class 3 and stability class E  | 6.900E-04 | 0.000E+00 |    ---   | DFREQ(3,5,7)
  AIRT  |    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(3,6,7)
        |                                          |          |         |            |
  AIRT  | Joint Frequency in SE Sector             |          |         |            |
  AIRT  |    for wind speed class 4 and stability class A  | 5.000E-05 | 0.000E+00 |    ---   | DFREQ(4,1,7)
  AIRT  |    for wind speed class 4 and stability class B  | 2.000E-05 | 0.000E+00 |    ---   | DFREQ(4,2,7)
  AIRT  |    for wind speed class 4 and stability class C  | 1.000E-04 | 0.000E+00 |    ---   | DFREQ(4,3,7)
  AIRT  |    for wind speed class 4 and stability class D  | 2.000E-04 | 0.000E+00 |    ---   | DFREQ(4,4,7)
  AIRT  |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(4,5,7)
  AIRT  |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |    ---   | DFREQ(4,6,7)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  15
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


         |                                          |  User    |          |  RESRAD  |   Parameter
  Menu   |                Parameter                 |  Input   | Default  | computed |     Name
─────────┼──────────────────────────────────────────┼──────────┼──────────┼──────────┼────────────────
  AIRT   | Joint Frequency in SE Sector             |          |          |          |
  AIRT   |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,1,7)
  AIRT   |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,2,7)
  AIRT   |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,3,7)
  AIRT   |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,4,7)
  AIRT   |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,5,7)
  AIRT   |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,6,7)
         |                                          |          |          |          |
  AIRT   | Joint Frequency in SE Sector             |          |          |          |
  AIRT   |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,1,7)
  AIRT   |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,2,7)
  AIRT   |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,3,7)
  AIRT   |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,4,7)
  AIRT   |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,5,7)
  AIRT   |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,6,7)
         |                                          |          |          |          |
  AIRT   | Joint Frequency in SSE Sector            |          |          |          |
  AIRT   |    for wind speed class 1 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(1,1,8)
  AIRT   |    for wind speed class 1 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(1,2,8)
  AIRT   |    for wind speed class 1 and stability class C  | 1.000E-04 | 0.000E+00 |   ---    | DFREQ(1,3,8)
  AIRT   |    for wind speed class 1 and stability class D  | 3.600E-03 | 0.000E+00 |   ---    | DFREQ(1,4,8)
  AIRT   |    for wind speed class 1 and stability class E  | 1.470E-03 | 0.000E+00 |   ---    | DFREQ(1,5,8)
  AIRT   |    for wind speed class 1 and stability class F  | 5.600E-04 | 0.000E+00 |   ---    | DFREQ(1,6,8)
         |                                          |          |          |          |
  AIRT   | Joint Frequency in SSE Sector            |          |          |          |
  AIRT   |    for wind speed class 2 and stability class A  | 4.700E-04 | 0.000E+00 |   ---    | DFREQ(2,1,8)
  AIRT   |    for wind speed class 2 and stability class B  | 8.300E-04 | 0.000E+00 |   ---    | DFREQ(2,2,8)
  AIRT   |    for wind speed class 2 and stability class C  | 2.330E-03 | 0.000E+00 |   ---    | DFREQ(2,3,8)
  AIRT   |    for wind speed class 2 and stability class D  | 1.542E-02 | 0.000E+00 |   ---    | DFREQ(2,4,8)
  AIRT   |    for wind speed class 2 and stability class E  | 8.300E-04 | 0.000E+00 |   ---    | DFREQ(2,5,8)
  AIRT   |    for wind speed class 2 and stability class F  | 1.000E-04 | 0.000E+00 |   ---    | DFREQ(2,6,8)
         |                                          |          |          |          |
  AIRT   | Joint Frequency in SSE Sector            |          |          |          |
  AIRT   |    for wind speed class 3 and stability class A  | 1.640E-03 | 0.000E+00 |   ---    | DFREQ(3,1,8)
  AIRT   |    for wind speed class 3 and stability class B  | 2.330E-03 | 0.000E+00 |   ---    | DFREQ(3,2,8)
  AIRT   |    for wind speed class 3 and stability class C  | 2.890E-03 | 0.000E+00 |   ---    | DFREQ(3,3,8)
  AIRT   |    for wind speed class 3 and stability class D  | 1.205E-02 | 0.000E+00 |   ---    | DFREQ(3,4,8)
  AIRT   |    for wind speed class 3 and stability class E  | 7.000E-05 | 0.000E+00 |   ---    | DFREQ(3,5,8)
  AIRT   |    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(3,6,8)
         |                                          |          |          |          |
  AIRT   | Joint Frequency in SSE Sector            |          |          |          |
  AIRT   |    for wind speed class 4 and stability class A  | 1.500E-04 | 0.000E+00 |   ---    | DFREQ(4,1,8)
  AIRT   |    for wind speed class 4 and stability class B  | 5.000E-05 | 0.000E+00 |   ---    | DFREQ(4,2,8)
  AIRT   |    for wind speed class 4 and stability class C  | 1.200E-04 | 0.000E+00 |   ---    | DFREQ(4,3,8)
  AIRT   |    for wind speed class 4 and stability class D  | 1.000E-04 | 0.000E+00 |   ---    | DFREQ(4,4,8)
  AIRT   |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,5,8)
  AIRT   |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,6,8)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  16
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                         Site-Specific Parameter Summary (continued)


        |                                         |  User    |           |  RESRAD   |   Parameter
 Menu   |                Parameter                |  Input   |  Default  | computed  |   Name
 ───────┼─────────────────────────────────────────┼──────────┼───────────┼───────────┼────────────────
 AIRT   │ Joint Frequency in SSE Sector           |          |           |           |
 AIRT   │    for wind speed class 5 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,8)
 AIRT   │    for wind speed class 5 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,8)
 AIRT   │    for wind speed class 5 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,8)
 AIRT   │    for wind speed class 5 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,4,8)
 AIRT   │    for wind speed class 5 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,8)
 AIRT   │    for wind speed class 5 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,8)
        |                                         |          |           |           |
 AIRT   │ Joint Frequency in SSE Sector           |          |           |           |
 AIRT   │    for wind speed class 6 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,8)
 AIRT   │    for wind speed class 6 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,8)
 AIRT   │    for wind speed class 6 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,8)
 AIRT   │    for wind speed class 6 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,8)
 AIRT   │    for wind speed class 6 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,8)
 AIRT   │    for wind speed class 6 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,8)
        |                                         |          |           |           |
 AIRT   │ Joint Frequency in S Sector             |          |           |           |
 AIRT   │    for wind speed class 1 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,1,9)
 AIRT   │    for wind speed class 1 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,2,9)
 AIRT   │    for wind speed class 1 and stability class C | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,9)
 AIRT   │    for wind speed class 1 and stability class D | 3.210E-03 | 0.000E+00 |   ---   | DFREQ(1,4,9)
 AIRT   │    for wind speed class 1 and stability class E | 9.300E-04 | 0.000E+00 |   ---   | DFREQ(1,5,9)
 AIRT   │    for wind speed class 1 and stability class F | 3.900E-04 | 0.000E+00 |   ---   | DFREQ(1,6,9)
        |                                         |          |           |           |
 AIRT   │ Joint Frequency in S Sector             |          |           |           |
 AIRT   │    for wind speed class 2 and stability class A | 5.100E-04 | 0.000E+00 |   ---   | DFREQ(2,1,9)
 AIRT   │    for wind speed class 2 and stability class B | 5.900E-04 | 0.000E+00 |   ---   | DFREQ(2,2,9)
 AIRT   │    for wind speed class 2 and stability class C | 1.740E-03 | 0.000E+00 |   ---   | DFREQ(2,3,9)
 AIRT   │    for wind speed class 2 and stability class D | 1.031E-02 | 0.000E+00 |   ---   | DFREQ(2,4,9)
 AIRT   │    for wind speed class 2 and stability class E | 2.000E-04 | 0.000E+00 |   ---   | DFREQ(2,5,9)
 AIRT   │    for wind speed class 2 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(2,6,9)
        |                                         |          |           |           |
 AIRT   │ Joint Frequency in S Sector             |          |           |           |
 AIRT   │    for wind speed class 3 and stability class A | 4.900E-04 | 0.000E+00 |   ---   | DFREQ(3,1,9)
 AIRT   │    for wind speed class 3 and stability class B | 4.400E-04 | 0.000E+00 |   ---   | DFREQ(3,2,9)
 AIRT   │    for wind speed class 3 and stability class C | 7.300E-04 | 0.000E+00 |   ---   | DFREQ(3,3,9)
 AIRT   │    for wind speed class 3 and stability class D | 3.080E-03 | 0.000E+00 |   ---   | DFREQ(3,4,9)
 AIRT   │    for wind speed class 3 and stability class E | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(3,5,9)
 AIRT   │    for wind speed class 3 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(3,6,9)
        |                                         |          |           |           |
 AIRT   │ Joint Frequency in S Sector             |          |           |           |
 AIRT   │    for wind speed class 4 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,9)
 AIRT   │    for wind speed class 4 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,9)
 AIRT   │    for wind speed class 4 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,3,9)
 AIRT   │    for wind speed class 4 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,4,9)
 AIRT   │    for wind speed class 4 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,5,9)
 AIRT   │    for wind speed class 4 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,9)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  17
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


        |                                            |  User    |          |  RESRAD   |  Parameter
 Menu   |                Parameter                   |  Input   | Default  | computed  |    Name
 ───────┼────────────────────────────────────────────┼──────────┼──────────┼───────────┼──────────────
 AIRT │ Joint Frequency in S Sector              │          │          │          │
 AIRT │    for wind speed class 5 and stability class A │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,1,9)
 AIRT │    for wind speed class 5 and stability class B │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,2,9)
 AIRT │    for wind speed class 5 and stability class C │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,3,9)
 AIRT │    for wind speed class 5 and stability class D │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,4,9)
 AIRT │    for wind speed class 5 and stability class E │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,5,9)
 AIRT │    for wind speed class 5 and stability class F │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(5,6,9)
 AIRT │                                            │          │          │          │
 AIRT │ Joint Frequency in S Sector              │          │          │          │
 AIRT │    for wind speed class 6 and stability class A │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,1,9)
 AIRT │    for wind speed class 6 and stability class B │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,2,9)
 AIRT │    for wind speed class 6 and stability class C │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,3,9)
 AIRT │    for wind speed class 6 and stability class D │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,4,9)
 AIRT │    for wind speed class 6 and stability class E │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,5,9)
 AIRT │    for wind speed class 6 and stability class F │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(6,6,9)
 AIRT │                                            │          │          │          │
 AIRT │ Joint Frequency in SSW Sector            │          │          │          │
 AIRT │    for wind speed class 1 and stability class A │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(1,1,10)
 AIRT │    for wind speed class 1 and stability class B │ 5.000E-05 │ 0.000E+00 │   ---    │ DFREQ(1,2,10)
 AIRT │    for wind speed class 1 and stability class C │ 2.200E-04 │ 0.000E+00 │   ---    │ DFREQ(1,3,10)
 AIRT │    for wind speed class 1 and stability class D │ 3.400E-03 │ 0.000E+00 │   ---    │ DFREQ(1,4,10)
 AIRT │    for wind speed class 1 and stability class E │ 9.300E-04 │ 0.000E+00 │   ---    │ DFREQ(1,5,10)
 AIRT │    for wind speed class 1 and stability class F │ 2.400E-04 │ 0.000E+00 │   ---    │ DFREQ(1,6,10)
 AIRT │                                            │          │          │          │
 AIRT │ Joint Frequency in SSW Sector            │          │          │          │
 AIRT │    for wind speed class 2 and stability class A │ 4.400E-04 │ 0.000E+00 │   ---    │ DFREQ(2,1,10)
 AIRT │    for wind speed class 2 and stability class B │ 6.900E-04 │ 0.000E+00 │   ---    │ DFREQ(2,2,10)
 AIRT │    for wind speed class 2 and stability class C │ 9.500E-04 │ 0.000E+00 │   ---    │ DFREQ(2,3,10)
 AIRT │    for wind speed class 2 and stability class D │ 6.390E-03 │ 0.000E+00 │   ---    │ DFREQ(2,4,10)
 AIRT │    for wind speed class 2 and stability class E │ 2.000E-04 │ 0.000E+00 │   ---    │ DFREQ(2,5,10)
 AIRT │    for wind speed class 2 and stability class F │ 2.000E-05 │ 0.000E+00 │   ---    │ DFREQ(2,6,10)
 AIRT │                                            │          │          │          │
 AIRT │ Joint Frequency in SSW Sector            │          │          │          │
 AIRT │    for wind speed class 3 and stability class A │ 2.900E-04 │ 0.000E+00 │   ---    │ DFREQ(3,1,10)
 AIRT │    for wind speed class 3 and stability class B │ 3.700E-04 │ 0.000E+00 │   ---    │ DFREQ(3,2,10)
 AIRT │    for wind speed class 3 and stability class C │ 2.700E-04 │ 0.000E+00 │   ---    │ DFREQ(3,3,10)
 AIRT │    for wind speed class 3 and stability class D │ 1.130E-03 │ 0.000E+00 │   ---    │ DFREQ(3,4,10)
 AIRT │    for wind speed class 3 and stability class E │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(3,5,10)
 AIRT │    for wind speed class 3 and stability class F │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(3,6,10)
 AIRT │                                            │          │          │          │
 AIRT │ Joint Frequency in SSW Sector            │          │          │          │
 AIRT │    for wind speed class 4 and stability class A │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,1,10)
 AIRT │    for wind speed class 4 and stability class B │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,2,10)
 AIRT │    for wind speed class 4 and stability class C │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,3,10)
 AIRT │    for wind speed class 4 and stability class D │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,4,10)
 AIRT │    for wind speed class 4 and stability class E │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,5,10)
 AIRT │    for wind speed class 4 and stability class F │ 0.000E+00 │ 0.000E+00 │   ---    │ DFREQ(4,6,10)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  18
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                         Site-Specific Parameter Summary (continued)


        |                                        |  User    |          |  RESRAD  |  Parameter
 Menu  |              Parameter                 |  Input   |  Default |  computed |   Name
───────┼────────────────────────────────────────┼──────────┼──────────┼──────────┼──────────────
 AIRT  | Joint Frequency in SSW Sector          |          |          |          |
 AIRT  |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,1,10)
 AIRT  |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,2,10)
 AIRT  |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,3,10)
 AIRT  |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,4,10)
 AIRT  |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,5,10)
 AIRT  |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(5,6,10)
       |                                        |          |          |          |
 AIRT  | Joint Frequency in SSW Sector          |          |          |          |
 AIRT  |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,1,10)
 AIRT  |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,2,10)
 AIRT  |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,3,10)
 AIRT  |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,4,10)
 AIRT  |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,5,10)
 AIRT  |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(6,6,10)
       |                                        |          |          |          |
 AIRT  | Joint Frequency in SW Sector           |          |          |          |
 AIRT  |    for wind speed class 1 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(1,1,11)
 AIRT  |    for wind speed class 1 and stability class B  | 7.000E-05 | 0.000E+00 |   ---    | DFREQ(1,2,11)
 AIRT  |    for wind speed class 1 and stability class C  | 1.200E-04 | 0.000E+00 |   ---    | DFREQ(1,3,11)
 AIRT  |    for wind speed class 1 and stability class D  | 2.230E-03 | 0.000E+00 |   ---    | DFREQ(1,4,11)
 AIRT  |    for wind speed class 1 and stability class E  | 7.800E-04 | 0.000E+00 |   ---    | DFREQ(1,5,11)
 AIRT  |    for wind speed class 1 and stability class F  | 4.900E-04 | 0.000E+00 |   ---    | DFREQ(1,6,11)
       |                                        |          |          |          |
 AIRT  | Joint Frequency in SW Sector           |          |          |          |
 AIRT  |    for wind speed class 2 and stability class A  | 3.200E-04 | 0.000E+00 |   ---    | DFREQ(2,1,11)
 AIRT  |    for wind speed class 2 and stability class B  | 5.400E-04 | 0.000E+00 |   ---    | DFREQ(2,2,11)
 AIRT  |    for wind speed class 2 and stability class C  | 8.100E-04 | 0.000E+00 |   ---    | DFREQ(2,3,11)
 AIRT  |    for wind speed class 2 and stability class D  | 4.160E-03 | 0.000E+00 |   ---    | DFREQ(2,4,11)
 AIRT  |    for wind speed class 2 and stability class E  | 2.200E-04 | 0.000E+00 |   ---    | DFREQ(2,5,11)
 AIRT  |    for wind speed class 2 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(2,6,11)
       |                                        |          |          |          |
 AIRT  | Joint Frequency in SW Sector           |          |          |          |
 AIRT  |    for wind speed class 3 and stability class A  | 2.400E-04 | 0.000E+00 |   ---    | DFREQ(3,1,11)
 AIRT  |    for wind speed class 3 and stability class B  | 2.400E-04 | 0.000E+00 |   ---    | DFREQ(3,2,11)
 AIRT  |    for wind speed class 3 and stability class C  | 2.700E-04 | 0.000E+00 |   ---    | DFREQ(3,3,11)
 AIRT  |    for wind speed class 3 and stability class D  | 7.100E-04 | 0.000E+00 |   ---    | DFREQ(3,4,11)
 AIRT  |    for wind speed class 3 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(3,5,11)
 AIRT  |    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(3,6,11)
       |                                        |          |          |          |
 AIRT  | Joint Frequency in SW Sector           |          |          |          |
 AIRT  |    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,1,11)
 AIRT  |    for wind speed class 4 and stability class B  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,2,11)
 AIRT  |    for wind speed class 4 and stability class C  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,3,11)
 AIRT  |    for wind speed class 4 and stability class D  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,4,11)
 AIRT  |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,5,11)
 AIRT  |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |   ---    | DFREQ(4,6,11)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  19
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                         Site-Specific Parameter Summary (continued)


        |                                        |  User    |          |  RESRAD    |  Parameter
 Menu   |               Parameter                |  Input   |  Default |  computed  |   Name
 ───────┼────────────────────────────────────────┼──────────┼──────────┼────────────┼──────────────
 AIRT   | Joint Frequency in SW Sector           |          |          |            |
 AIRT   |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,1,11)
 AIRT   |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,2,11)
 AIRT   |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,3,11)
 AIRT   |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,4,11)
 AIRT   |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,5,11)
 AIRT   |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(5,6,11)
        |                                        |          |          |            |
 AIRT   | Joint Frequency in SW Sector           |          |          |            |
 AIRT   |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,1,11)
 AIRT   |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,2,11)
 AIRT   |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,3,11)
 AIRT   |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,4,11)
 AIRT   |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,5,11)
 AIRT   |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(6,6,11)
        |                                        |          |          |            |
 AIRT   | Joint Frequency in WSW Sector          |          |          |            |
 AIRT   |    for wind speed class 1 and stability class A  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(1,1,12)
 AIRT   |    for wind speed class 1 and stability class B  | 5.000E-05 | 0.000E+00 |    ---     | DFREQ(1,2,12)
 AIRT   |    for wind speed class 1 and stability class C  | 7.000E-05 | 0.000E+00 |    ---     | DFREQ(1,3,12)
 AIRT   |    for wind speed class 1 and stability class D  | 2.200E-03 | 0.000E+00 |    ---     | DFREQ(1,4,12)
 AIRT   |    for wind speed class 1 and stability class E  | 1.320E-03 | 0.000E+00 |    ---     | DFREQ(1,5,12)
 AIRT   |    for wind speed class 1 and stability class F  | 4.200E-04 | 0.000E+00 |    ---     | DFREQ(1,6,12)
        |                                        |          |          |            |
 AIRT   | Joint Frequency in WSW Sector          |          |          |            |
 AIRT   |    for wind speed class 2 and stability class A  | 2.700E-04 | 0.000E+00 |    ---     | DFREQ(2,1,12)
 AIRT   |    for wind speed class 2 and stability class B  | 3.200E-04 | 0.000E+00 |    ---     | DFREQ(2,2,12)
 AIRT   |    for wind speed class 2 and stability class C  | 4.400E-04 | 0.000E+00 |    ---     | DFREQ(2,3,12)
 AIRT   |    for wind speed class 2 and stability class D  | 3.480E-03 | 0.000E+00 |    ---     | DFREQ(2,4,12)
 AIRT   |    for wind speed class 2 and stability class E  | 2.000E-04 | 0.000E+00 |    ---     | DFREQ(2,5,12)
 AIRT   |    for wind speed class 2 and stability class F  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(2,6,12)
        |                                        |          |          |            |
 AIRT   | Joint Frequency in WSW Sector          |          |          |            |
 AIRT   |    for wind speed class 3 and stability class A  | 2.900E-04 | 0.000E+00 |    ---     | DFREQ(3,1,12)
 AIRT   |    for wind speed class 3 and stability class B  | 1.000E-04 | 0.000E+00 |    ---     | DFREQ(3,2,12)
 AIRT   |    for wind speed class 3 and stability class C  | 1.500E-04 | 0.000E+00 |    ---     | DFREQ(3,3,12)
 AIRT   |    for wind speed class 3 and stability class D  | 2.860E-03 | 0.000E+00 |    ---     | DFREQ(3,4,12)
 AIRT   |    for wind speed class 3 and stability class E  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(3,5,12)
 AIRT   |    for wind speed class 3 and stability class F  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(3,6,12)
        |                                        |          |          |            |
 AIRT   | Joint Frequency in WSW Sector          |          |          |            |
 AIRT   |    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(4,1,12)
 AIRT   |    for wind speed class 4 and stability class B  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(4,2,12)
 AIRT   |    for wind speed class 4 and stability class C  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(4,3,12)
 AIRT   |    for wind speed class 4 and stability class D  | 2.000E-04 | 0.000E+00 |    ---     | DFREQ(4,4,12)
 AIRT   |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(4,5,12)
 AIRT   |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |    ---     | DFREQ(4,6,12)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  20
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                           Site-Specific Parameter Summary (continued)


       |                                        |  User    |          |  RESRAD   |   Parameter
Menu   |                Parameter               |  Input   | Default  | computed  |    Name
-------+----------------------------------------+----------+----------+-----------+--------------
AIRT   | Joint Frequency in WSW Sector          |          |          |           |
AIRT   |    for wind speed class 5 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,12)
AIRT   |    for wind speed class 5 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,12)
AIRT   |    for wind speed class 5 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,12)
AIRT   |    for wind speed class 5 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,4,12)
AIRT   |    for wind speed class 5 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,12)
AIRT   |    for wind speed class 5 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,12)
       |                                        |          |          |           |
AIRT   | Joint Frequency in WSW Sector          |          |          |           |
AIRT   |    for wind speed class 6 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,12)
AIRT   |    for wind speed class 6 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,12)
AIRT   |    for wind speed class 6 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,12)
AIRT   |    for wind speed class 6 and stability class D | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,12)
AIRT   |    for wind speed class 6 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,12)
AIRT   |    for wind speed class 6 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,12)
       |                                        |          |          |           |
AIRT   | Joint Frequency in W Sector            |          |          |           |
AIRT   |    for wind speed class 1 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,1,13)
AIRT   |    for wind speed class 1 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,2,13)
AIRT   |    for wind speed class 1 and stability class C | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,13)
AIRT   |    for wind speed class 1 and stability class D | 2.520E-03 | 0.000E+00 |   ---   | DFREQ(1,4,13)
AIRT   |    for wind speed class 1 and stability class E | 2.330E-03 | 0.000E+00 |   ---   | DFREQ(1,5,13)
AIRT   |    for wind speed class 1 and stability class F | 1.030E-03 | 0.000E+00 |   ---   | DFREQ(1,6,13)
       |                                        |          |          |           |
AIRT   | Joint Frequency in W Sector            |          |          |           |
AIRT   |    for wind speed class 2 and stability class A | 3.900E-04 | 0.000E+00 |   ---   | DFREQ(2,1,13)
AIRT   |    for wind speed class 2 and stability class B | 3.700E-04 | 0.000E+00 |   ---   | DFREQ(2,2,13)
AIRT   |    for wind speed class 2 and stability class C | 4.200E-04 | 0.000E+00 |   ---   | DFREQ(2,3,13)
AIRT   |    for wind speed class 2 and stability class D | 3.940E-03 | 0.000E+00 |   ---   | DFREQ(2,4,13)
AIRT   |    for wind speed class 2 and stability class E | 3.700E-04 | 0.000E+00 |   ---   | DFREQ(2,5,13)
AIRT   |    for wind speed class 2 and stability class F | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(2,6,13)
       |                                        |          |          |           |
AIRT   | Joint Frequency in W Sector            |          |          |           |
AIRT   |    for wind speed class 3 and stability class A | 2.200E-04 | 0.000E+00 |   ---   | DFREQ(3,1,13)
AIRT   |    for wind speed class 3 and stability class B | 1.700E-04 | 0.000E+00 |   ---   | DFREQ(3,2,13)
AIRT   |    for wind speed class 3 and stability class C | 4.900E-04 | 0.000E+00 |   ---   | DFREQ(3,3,13)
AIRT   |    for wind speed class 3 and stability class D | 3.130E-03 | 0.000E+00 |   ---   | DFREQ(3,4,13)
AIRT   |    for wind speed class 3 and stability class E | 1.000E-04 | 0.000E+00 |   ---   | DFREQ(3,5,13)
AIRT   |    for wind speed class 3 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(3,6,13)
       |                                        |          |          |           |
AIRT   | Joint Frequency in W Sector            |          |          |           |
AIRT   |    for wind speed class 4 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,13)
AIRT   |    for wind speed class 4 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,13)
AIRT   |    for wind speed class 4 and stability class C | 1.000E-04 | 0.000E+00 |   ---   | DFREQ(4,3,13)
AIRT   |    for wind speed class 4 and stability class D | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(4,4,13)
AIRT   |    for wind speed class 4 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,5,13)
AIRT   |    for wind speed class 4 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,13)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  21
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                            Site-Specific Parameter Summary (continued)


        |                                          |  User    |         |  RESRAD  |  Parameter
 Menu   |                Parameter                 |  Input   | Default | computed |    Name
--------|------------------------------------------|----------|---------|----------|-------------
 AIRT   | Joint Frequency in W Sector              |          |         |          |
 AIRT   |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,13)
 AIRT   |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,13)
 AIRT   |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,13)
 AIRT   |    for wind speed class 5 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,4,13)
 AIRT   |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,13)
 AIRT   |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,13)
        |                                          |          |         |          |
 AIRT   | Joint Frequency in W Sector              |          |         |          |
 AIRT   |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,13)
 AIRT   |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,13)
 AIRT   |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,13)
 AIRT   |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,13)
 AIRT   |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,13)
 AIRT   |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,13)
        |                                          |          |         |          |
 AIRT   | Joint Frequency in WNW Sector            |          |         |          |
 AIRT   |    for wind speed class 1 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,1,14)
 AIRT   |    for wind speed class 1 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(1,2,14)
 AIRT   |    for wind speed class 1 and stability class C  | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,14)
 AIRT   |    for wind speed class 1 and stability class D  | 3.430E-03 | 0.000E+00 |   ---   | DFREQ(1,4,14)
 AIRT   |    for wind speed class 1 and stability class E  | 2.790E-03 | 0.000E+00 |   ---   | DFREQ(1,5,14)
 AIRT   |    for wind speed class 1 and stability class F  | 2.350E-03 | 0.000E+00 |   ---   | DFREQ(1,6,14)
        |                                          |          |         |          |
 AIRT   | Joint Frequency in WNW Sector            |          |         |          |
 AIRT   |    for wind speed class 2 and stability class A  | 1.700E-04 | 0.000E+00 |   ---   | DFREQ(2,1,14)
 AIRT   |    for wind speed class 2 and stability class B  | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(2,2,14)
 AIRT   |    for wind speed class 2 and stability class C  | 5.400E-04 | 0.000E+00 |   ---   | DFREQ(2,3,14)
 AIRT   |    for wind speed class 2 and stability class D  | 7.690E-03 | 0.000E+00 |   ---   | DFREQ(2,4,14)
 AIRT   |    for wind speed class 2 and stability class E  | 1.790E-03 | 0.000E+00 |   ---   | DFREQ(2,5,14)
 AIRT   |    for wind speed class 2 and stability class F  | 3.400E-04 | 0.000E+00 |   ---   | DFREQ(2,6,14)
        |                                          |          |         |          |
 AIRT   | Joint Frequency in WNW Sector            |          |         |          |
 AIRT   |    for wind speed class 3 and stability class A  | 1.500E-04 | 0.000E+00 |   ---   | DFREQ(3,1,14)
 AIRT   |    for wind speed class 3 and stability class B  | 1.000E-04 | 0.000E+00 |   ---   | DFREQ(3,2,14)
 AIRT   |    for wind speed class 3 and stability class C  | 3.400E-04 | 0.000E+00 |   ---   | DFREQ(3,3,14)
 AIRT   |    for wind speed class 3 and stability class D  | 4.950E-03 | 0.000E+00 |   ---   | DFREQ(3,4,14)
 AIRT   |    for wind speed class 3 and stability class E  | 1.700E-04 | 0.000E+00 |   ---   | DFREQ(3,5,14)
 AIRT   |    for wind speed class 3 and stability class F  | 2.000E-05 | 0.000E+00 |   ---   | DFREQ(3,6,14)
        |                                          |          |         |          |
 AIRT   | Joint Frequency in WNW Sector            |          |         |          |
 AIRT   |    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,14)
 AIRT   |    for wind speed class 4 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,14)
 AIRT   |    for wind speed class 4 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,3,14)
 AIRT   |    for wind speed class 4 and stability class D  | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(4,4,14)
 AIRT   |    for wind speed class 4 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,5,14)
 AIRT   |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,14)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  22
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                        Site-Specific Parameter Summary (continued)
```

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 5 and stability class A	0.000E+00	0.000E+00	---	DFREQ(5,1,14)
AIRT	for wind speed class 5 and stability class B	0.000E+00	0.000E+00	---	DFREQ(5,2,14)
AIRT	for wind speed class 5 and stability class C	0.000E+00	0.000E+00	---	DFREQ(5,3,14)
AIRT	for wind speed class 5 and stability class D	0.000E+00	0.000E+00	---	DFREQ(5,4,14)
AIRT	for wind speed class 5 and stability class E	0.000E+00	0.000E+00	---	DFREQ(5,5,14)
AIRT	for wind speed class 5 and stability class F	0.000E+00	0.000E+00	---	DFREQ(5,6,14)
AIRT	Joint Frequency in WNW Sector				
AIRT	for wind speed class 6 and stability class A	0.000E+00	0.000E+00	---	DFREQ(6,1,14)
AIRT	for wind speed class 6 and stability class B	0.000E+00	0.000E+00	---	DFREQ(6,2,14)
AIRT	for wind speed class 6 and stability class C	0.000E+00	0.000E+00	---	DFREQ(6,3,14)
AIRT	for wind speed class 6 and stability class D	0.000E+00	0.000E+00	---	DFREQ(6,4,14)
AIRT	for wind speed class 6 and stability class E	0.000E+00	0.000E+00	---	DFREQ(6,5,14)
AIRT	for wind speed class 6 and stability class F	0.000E+00	0.000E+00	---	DFREQ(6,6,14)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 1 and stability class A	0.000E+00	0.000E+00	---	DFREQ(1,1,15)
AIRT	for wind speed class 1 and stability class B	2.000E-05	0.000E+00	---	DFREQ(1,2,15)
AIRT	for wind speed class 1 and stability class C	1.200E-04	0.000E+00	---	DFREQ(1,3,15)
AIRT	for wind speed class 1 and stability class D	4.680E-03	0.000E+00	---	DFREQ(1,4,15)
AIRT	for wind speed class 1 and stability class E	6.730E-03	0.000E+00	---	DFREQ(1,5,15)
AIRT	for wind speed class 1 and stability class F	5.460E-03	0.000E+00	---	DFREQ(1,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 2 and stability class A	2.200E-04	0.000E+00	---	DFREQ(2,1,15)
AIRT	for wind speed class 2 and stability class B	3.700E-04	0.000E+00	---	DFREQ(2,2,15)
AIRT	for wind speed class 2 and stability class C	9.500E-04	0.000E+00	---	DFREQ(2,3,15)
AIRT	for wind speed class 2 and stability class D	1.616E-02	0.000E+00	---	DFREQ(2,4,15)
AIRT	for wind speed class 2 and stability class E	1.060E-02	0.000E+00	---	DFREQ(2,5,15)
AIRT	for wind speed class 2 and stability class F	1.760E-03	0.000E+00	---	DFREQ(2,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 3 and stability class A	2.400E-04	0.000E+00	---	DFREQ(3,1,15)
AIRT	for wind speed class 3 and stability class B	3.900E-04	0.000E+00	---	DFREQ(3,2,15)
AIRT	for wind speed class 3 and stability class C	1.080E-03	0.000E+00	---	DFREQ(3,3,15)
AIRT	for wind speed class 3 and stability class D	1.709E-02	0.000E+00	---	DFREQ(3,4,15)
AIRT	for wind speed class 3 and stability class E	4.870E-03	0.000E+00	---	DFREQ(3,5,15)
AIRT	for wind speed class 3 and stability class F	7.000E-05	0.000E+00	---	DFREQ(3,6,15)
AIRT	Joint Frequency in NW Sector				
AIRT	for wind speed class 4 and stability class A	0.000E+00	0.000E+00	---	DFREQ(4,1,15)
AIRT	for wind speed class 4 and stability class B	5.000E-05	0.000E+00	---	DFREQ(4,2,15)
AIRT	for wind speed class 4 and stability class C	5.000E-05	0.000E+00	---	DFREQ(4,3,15)
AIRT	for wind speed class 4 and stability class D	2.790E-03	0.000E+00	---	DFREQ(4,4,15)
AIRT	for wind speed class 4 and stability class E	7.000E-05	0.000E+00	---	DFREQ(4,5,15)
AIRT	for wind speed class 4 and stability class F	0.000E+00	0.000E+00	---	DFREQ(4,6,15)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  23
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


        |                                           |  User    |           |  RESRAD   |  Parameter
 Menu   |              Parameter                    |  Input   |  Default  | computed  |   Name
--------+-------------------------------------------+----------+-----------+-----------+-------------
 AIRT | Joint Frequency in NW Sector                |          |           |           |
 AIRT |    for wind speed class 5 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,15)
 AIRT |    for wind speed class 5 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,15)
 AIRT |    for wind speed class 5 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,15)
 AIRT |    for wind speed class 5 and stability class D  | 1.000E-04 | 0.000E+00 |   ---   | DFREQ(5,4,15)
 AIRT |    for wind speed class 5 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,5,15)
 AIRT |    for wind speed class 5 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,15)
      |                                             |          |           |           |
 AIRT | Joint Frequency in NW Sector                |          |           |           |
 AIRT |    for wind speed class 6 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,15)
 AIRT |    for wind speed class 6 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,15)
 AIRT |    for wind speed class 6 and stability class C  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,15)
 AIRT |    for wind speed class 6 and stability class D  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,4,15)
 AIRT |    for wind speed class 6 and stability class E  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,15)
 AIRT |    for wind speed class 6 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,15)
      |                                             |          |           |           |
 AIRT | Joint Frequency in NNW Sector               |          |           |           |
 AIRT |    for wind speed class 1 and stability class A  | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,1,16)
 AIRT |    for wind speed class 1 and stability class B  | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,2,16)
 AIRT |    for wind speed class 1 and stability class C  | 5.000E-05 | 0.000E+00 |   ---   | DFREQ(1,3,16)
 AIRT |    for wind speed class 1 and stability class D  | 4.410E-03 | 0.000E+00 |   ---   | DFREQ(1,4,16)
 AIRT |    for wind speed class 1 and stability class E  | 1.408E-02 | 0.000E+00 |   ---   | DFREQ(1,5,16)
 AIRT |    for wind speed class 1 and stability class F  | 1.741E-02 | 0.000E+00 |   ---   | DFREQ(1,6,16)
      |                                             |          |           |           |
 AIRT | Joint Frequency in NNW Sector               |          |           |           |
 AIRT |    for wind speed class 2 and stability class A  | 1.500E-04 | 0.000E+00 |   ---   | DFREQ(2,1,16)
 AIRT |    for wind speed class 2 and stability class B  | 4.700E-04 | 0.000E+00 |   ---   | DFREQ(2,2,16)
 AIRT |    for wind speed class 2 and stability class C  | 9.500E-04 | 0.000E+00 |   ---   | DFREQ(2,3,16)
 AIRT |    for wind speed class 2 and stability class D  | 1.307E-02 | 0.000E+00 |   ---   | DFREQ(2,4,16)
 AIRT |    for wind speed class 2 and stability class E  | 1.694E-02 | 0.000E+00 |   ---   | DFREQ(2,5,16)
 AIRT |    for wind speed class 2 and stability class F  | 3.330E-03 | 0.000E+00 |   ---   | DFREQ(2,6,16)
      |                                             |          |           |           |
 AIRT | Joint Frequency in NNW Sector               |          |           |           |
 AIRT |    for wind speed class 3 and stability class A  | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(3,1,16)
 AIRT |    for wind speed class 3 and stability class B  | 9.800E-04 | 0.000E+00 |   ---   | DFREQ(3,2,16)
 AIRT |    for wind speed class 3 and stability class C  | 1.030E-03 | 0.000E+00 |   ---   | DFREQ(3,3,16)
 AIRT |    for wind speed class 3 and stability class D  | 1.951E-02 | 0.000E+00 |   ---   | DFREQ(3,4,16)
 AIRT |    for wind speed class 3 and stability class E  | 1.165E-02 | 0.000E+00 |   ---   | DFREQ(3,5,16)
 AIRT |    for wind speed class 3 and stability class F  | 2.400E-04 | 0.000E+00 |   ---   | DFREQ(3,6,16)
      |                                             |          |           |           |
 AIRT | Joint Frequency in NNW Sector               |          |           |           |
 AIRT |    for wind speed class 4 and stability class A  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,1,16)
 AIRT |    for wind speed class 4 and stability class B  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,2,16)
 AIRT |    for wind speed class 4 and stability class C  | 2.200E-04 | 0.000E+00 |   ---   | DFREQ(4,3,16)
 AIRT |    for wind speed class 4 and stability class D  | 6.610E-03 | 0.000E+00 |   ---   | DFREQ(4,4,16)
 AIRT |    for wind speed class 4 and stability class E  | 2.300E-03 | 0.000E+00 |   ---   | DFREQ(4,5,16)
 AIRT |    for wind speed class 4 and stability class F  | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(4,6,16)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  24
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                              Site-Specific Parameter Summary (continued)


           |                                             |  User   |         |  RESRAD   |  Parameter
   Menu |               Parameter                      |  Input  | Default | computed  |   Name
   ─────┼──────────────────────────────────────────────┼─────────┼─────────┼───────────┼──────────────
   AIRT | Joint Frequency in NNW Sector                |         |         |           |
   AIRT |    for wind speed class 5 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,1,16)
   AIRT |    for wind speed class 5 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,2,16)
   AIRT |    for wind speed class 5 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,3,16)
   AIRT |    for wind speed class 5 and stability class D | 7.100E-04 | 0.000E+00 |   ---   | DFREQ(5,4,16)
   AIRT |    for wind speed class 5 and stability class E | 2.700E-04 | 0.000E+00 |   ---   | DFREQ(5,5,16)
   AIRT |    for wind speed class 5 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(5,6,16)
        |                                             |         |         |           |
   AIRT | Joint Frequency in NNW Sector                |         |         |           |
   AIRT |    for wind speed class 6 and stability class A | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,1,16)
   AIRT |    for wind speed class 6 and stability class B | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,2,16)
   AIRT |    for wind speed class 6 and stability class C | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,3,16)
   AIRT |    for wind speed class 6 and stability class D | 7.000E-05 | 0.000E+00 |   ---   | DFREQ(6,4,16)
   AIRT |    for wind speed class 6 and stability class E | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,5,16)
   AIRT |    for wind speed class 6 and stability class F | 0.000E+00 | 0.000E+00 |   ---   | DFREQ(6,6,16)
   AIRT | Spacing of points used for areal integration, (m) | 1.000E+01 | 1.000E+01 |   ---   | ATGRID
        |                                             |         |         |           |
   GWTR | fractional accuracy desired - convergence criteria | 1.000E-03 | 1.000E-03 |   ---   | EPS
   GWTR | Distance from d/g edge of contamination to Well, (m)| 5.053E+00 | 1.000E+02 |   ---   | OFFLPAQW
   GWTR | Contamination to Well c/c distance normal to flow, m| 7.120E+01 | 0.000E+00 |   ---   | OFFLNAQW
   GWTR | Distance from d/g edge of cz to surface water, (m)  |-1.937E+02 | 4.500E+02 |   ---   | OFFLPAQS
   GWTR | Contamination to near edge of swb,c/c normal to flow| 2.676E+02 |-1.500E+02 |   ---   | OFFLNAQSN
   GWTR | Contamination to far edge of swb, c/c normal to flow| 2.689E+02 | 1.500E+02 |   ---   | OFFLNAQSF
   GWTR | Number of main sub zones in primary contamination  |      1  |      1  |   ---   | NPCZ
   GWTR | Number of minor sub zones in last main PC sub zone  |      1  |      1  |   ---   | NPCZF
   GWTR | Number of main sub zones in each unsaturated stratum|      1  |      1  |   ---   | NPSS
   GWTR | Number of minor sub zones in last main UZ sub zone  |      1  |      1  |   ---   | NPSSF
   GWTR | Number of main sub zones in saturated stratum       |      1  |      1  |   ---   | NAQS
   GWTR | Number of minor sub zones in last main SZ sub zone  |      1  |      1  |   ---   | NAQSF
   GWTR | Distribution coefficient and longitudinal dispersion|      1  |      1  |   ---   |
        | 1 = Nuclide specific distrubution coefficients in all subzones.  Longitudinal dispersion in all but the subzone of transformation.
   GWTR | Retardation factor flag for groundwater transport   |      0  |      0  |   ---   |
        | 0 = (total porosity + distribution coefficient*dry bulk density) / total porosity
        |                                             |         |         |           |
   USZN | Number of unsaturated zone strata            | 1       | 1       |   ---   | NS
   USZN | Unsat. zone 1, thickness (m)                 | 2.000E+00 | 4.000E+00 |   ---   | H(1)
   USZN | Unsat. zone 1, soil density (g/cm**3)        | 1.700E+00 | 1.500E+00 |   ---   | DENSUZ(1)
   USZN | Unsat. zone 1, total porosity                | 3.600E-01 | 4.000E-01 |   ---   | TPUZ(1)
   USZN | Unsat. zone 1, effective porosity            | 2.500E-01 | 2.000E-01 |   ---   | EPUZ(1)
   USZN | Unsat. zone 1, field capacity                | 2.000E-01 | 3.000E-01 |   ---   | FCUZ(1)
   USZN | Unsat. zone 1, hydraulic conductivity (m/yr) | 1.400E+02 | 1.000E+01 |   ---   | HCUZ(1)
   USZN | Unsat. zone 1, soil-specific b parameter     | 1.400E+00 | 5.300E+00 |   ---   | BUZ(1)
   USZN | Unsat. zone 1, longitudinal dispersivity (m) | 1.000E-01 | 1.000E-01 |   ---   | ALPHALU(1)
        |                                             |         |         |           |
   SZNE | Well pump intake depth (m below water table) | 5.000E+00 | 1.000E+01 |   ---   | DWIBWT
   SZNE | Depth of aquifer contributing to surface water body | 5.000E+00 | 1.000E+01 |   ---   | DPTHAQSW
   SZNE | Thickness of saturated zone (m)              | 1.000E+02 | 1.000E+02 |   ---   | DPTHAQ
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  25
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)
```

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
SZNE	Density of saturated zone (g/cm**3)	1.700E+00	1.500E+00	---	DENSAQ
SZNE	Saturated zone total porosity	3.600E-01	4.000E-01	---	TPSZ
SZNE	Saturated zone effective porosity	2.500E-01	2.000E-01	---	EPSZ
SZNE	Saturated zone hydraulic conductivity (m/yr)	1.400E+03	1.000E+02	---	HCSZ
SZNE	Saturated zone hydraulic gradient to well	3.000E-02	2.000E-02	---	HGW
SZNE	Satur. zone hydraulic gradient to surface water body	3.000E-02	2.000E-02	---	HGSW
SZNE	longitudinal dispersivity to well (m)	3.000E+00	3.000E+00	---	ALPHALOW
SZNE	longitudinal dispersivity to SWB (m)	1.000E+01	1.000E+01	---	ALPHALOSW
SZNE	lateral (horizontal) dispersivity to well (m)	4.000E-01	4.000E-01	---	ALPHATW
SZNE	lateral (horizontal) dispersivity to SWB (m)	1.000E+00	1.000E+00	---	ALPHATSW
SZNE	lateral (vertical) dispersivity to well (m)	2.000E-02	2.000E-02	---	ALPHAVW
SZNE	lateral (vertical) dispersivity to SWB (m)	6.000E-02	6.000E-02	---	ALPHAVSW
SZNE	Irrigation rate over aquifer to well (m/yr)	not used	0.000E+00	---	RIAQW
SZNE	Irrigation rate over aquifer to SWB (m/yr)	not used	0.000E+00	---	RIAQSW
SZNE	Evapotranspiration coefficient over aquifer to well	not used	1.000E+00	---	EVAPTRAQW
SZNE	Evapotranspiration coefficient over aquifer to SWB	not used	1.000E+00	---	EVAPTRAQSW
SZNE	Runoff coefficient over aquifer to well	not used	1.000E+00	---	RUNOFFAQW
SZNE	Runoff coefficient over aquifer to SWB	not used	1.000E+00	---	RUNOFFAQSW
SZNE	Concentration of mobile colloids in the aquifer	0.000E+00	0.000E+00	---	CCOL
SZNE	Water - Soil Distribution coefficient of colloids	0.000E+00	0.000E+00	---	K1Col
SZNE	Water - Mobile Colloids Distribution coefficient	0.000E+00	0.000E+00	---	K3Col
WTRU	Drinking water intake (L/yr)	7.300E+02	5.100E+02	---	DWI
WTRU	Fraction of drinking water from surface water	0.000E+00	0.000E+00	---	FSWD
WTRU	Fraction of drinking water from well water	1.000E+00	1.000E+00	---	FWWD
WTRU	Fraction of household water from surface water	0.000E+00	0.000E+00	---	FSWHH
WTRU	Fraction of household water from well water	1.000E+00	1.000E+00	---	FWWHH
WTRU	Livestock water intake for meat 1 (L/day)	5.000E+01	5.000E+01	---	LWI(1)
WTRU	Fraction of livestock water 1 from surface water	1.000E+00	0.000E+00	---	FSWLV(1)
WTRU	Fraction of livestock water 1 from well water	0.000E+00	1.000E+00	---	FWWLV(1)
WTRU	Livestock water intake for milk (L/day)	not used	1.600E+02	---	LWI(2)
WTRU	Fraction of dairy cow water from surface water	not used	0.000E+00	---	FSWLV(2)
WTRU	Fraction of dairy cow water from well water	not used	1.000E+00	---	FWWLV(2)
WTRU	Irrigation rate in Agricultural Area 1 (m/yr)	0.000E+00	2.000E-01	---	RIRRIG(1)
WTRU	Fraction of irrigation water 1 from surface water	0.000E+00	0.000E+00	---	FSWIR(1)
WTRU	Fraction of irrigation water 1 from well water	1.000E+00	1.000E+00	---	FWWIR(1)
WTRU	Irrigation rate in Agricultural Area 2 (m/yr)	0.000E+00	2.000E-01	---	RIRRIG(2)
WTRU	Fraction of irrigation water 2 from surface water	0.000E+00	0.000E+00	---	FSWIR(2)
WTRU	Fraction of irrigation water 2 from well water	1.000E+00	1.000E+00	---	FWWIR(2)
WTRU	Irrigation rate in Agricultural Area 3 (m/yr)	0.000E+00	2.000E-01	---	RIRRIG(3)
WTRU	Fraction of irrigation water 3 from surface water	0.000E+00	0.000E+00	---	FSWIR(3)
WTRU	Fraction of irrigation water 3 from well water	1.000E+00	1.000E+00	---	FWWIR(3)
WTRU	Irrigation rate in Agricultural Area 4 (m/yr)	0.000E+00	2.000E-01	---	RIRRIG(4)
WTRU	Fraction of irrigation water 4 from surface water	0.000E+00	0.000E+00	---	FSWIR(4)
WTRU	Fraction of irrigation water 4 from well water	1.000E+00	1.000E+00	---	FWWIR(4)
WTRU	Irrigation rate in Offsite dwelling site (m/yr)	0.000E+00	2.000E-01	---	RIRRIGDWELL
WTRU	Fraction of irrigation water from surface water	0.000E+00	0.000E+00	---	FSWIRDWELL

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  26
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


        |                                               |  User   |         |  RESRAD  |   Parameter
 Menu  |                Parameter                      |  Input  | Default | computed |     Name
 ──────┼───────────────────────────────────────────────┼─────────┼─────────┼──────────┼──────────────
 WTRU  | Fraction of irrigation water from well water  | 1.000E+00 | 1.000E+00 |   ---   | FWWIRDWELL
 WTRU  | Well pumping rate (m**3/yr)                   | 1.394E+03 | 5.100E+03 |   ---   | UW
        |                                               |         |         |          |
 SWBY  | Sediment delivery ratio                       | 1.000E+00 | 1.000E+00 |   ---   | SDR
 SWBY  | Volume of surface water body                  | 1.794E+04 | 1.500E+05 |   ---   | VLAKE
 SWBY  | Mean residence time of water in surface water body | 1.000E+00 | 1.000E+00 |  ---  | TLAKE
 SWBY  | Surface area of water in surface water body   | 1.825E+04 | 9.000E+04 |   ---   | ALAKE
        |                                               |         |         |          |
 INGE  | Fish consumption (kg/yr)                      | not used | 5.400E+00 |   ---   | DFI(1)
 INGE  | Fraction of Fish from affected area           | not used | 5.000E-01 |   ---   | FFISH(1)
 INGE  | Other Aquatic food consumption (kg/yr)        | not used | 9.000E-01 |   ---   | DFI(2)
 INGE  | Fraction of Aquatic food from affected area   | not used | 5.000E-01 |   ---   | FFISH(2)
 INGE  | Non-Leafy vegetables consumption (kg/yr)      | not used | 1.600E+02 |   ---   | DVI(1)
 INGE  | Fraction of vegetable 1 from affected area    | not used | 5.000E-01 |   ---   | FVEG(1)
 INGE  | Leafy vegetable consumption (kg/yr)           | not used | 1.400E+01 |   ---   | DVI(2)
 INGE  | Fraction of vegetable 2 from affected area    | not used | 5.000E-01 |   ---   | FVEG(2)
 INGE  | Meat 1 consumption (kg/yr)                    | 6.500E+01 | 6.300E+01 |   ---   | DMI(1)
 INGE  | Fraction of meat  1from affected area         | 1.000E+00 | 1.000E+00 |   ---   | FMEMI(1)
 INGE  | Milk consumption (L/yr)                       | not used | 9.200E+01 |   ---   | DMI(2)
 INGE  | Fraction of milk from affected area           | not used | 1.000E+00 |   ---   | FMEMI(2)
 INGE  | Soil ingestion rate (g/yr)                    | 1.830E+01 | 3.650E+01 |   ---   | SOIL
        |                                               |         |         |          |
 VEGE  | Wet weight crop yield for Non-Leafy (kg/m**2) | not used | 7.000E-01 |   ---   | YIELD(1)
 VEGE  | Growing Season for Non-Leafy (years)          | not used | 1.700E-01 |   ---   | GROWTIME(1)
 VEGE  | Translocation Factor for Non-Leafy            | not used | 1.000E-01 |   ---   | FOLI_F(1)
 VEGE  | Weathering Removal Constant for Non-Leafy     | not used | 2.000E+01 |   ---   | RWEATHER(1)
 VEGE  | Foliar Interception Fraction for dust Non-Leafy | not used | 2.500E-01 |  ---  | FINTCEPT(1,1)
 VEGE  | Foliar Intercept-n Fract-n for irrigation Non-Leafy | not used | 2.500E-01 | --- | FINTCEPT(1,2)
 VEGE  | Depth of roots for Non-Leafy (m)              | not used | 1.200E+00 |   ---   | DROOT(1)
 VEGE  | Wet weight crop yield for Leafy      (kg/m**2) | not used | 1.500E+00 |   ---   | YIELD(2)
 VEGE  | Growing Season for Leafy     (years)          | not used | 2.500E-01 |   ---   | GROWTIME(2)
 VEGE  | Translocation Factor for Leafy                | not used | 1.000E+00 |   ---   | FOLI_F(2)
 VEGE  | Weathering Removal Constant for Leafy         | not used | 2.000E+01 |   ---   | RWEATHER(2)
 VEGE  | Foliar Interception Fraction for dust Leafy   | not used | 2.500E-01 |   ---   | FINTCEPT(2,1)
 VEGE  | Foliar Intercept-n Fract-n for irrigation Leafy | not used | 2.500E-01 |  ---  | FINTCEPT(2,2)
 VEGE  | Depth of roots for Leafy       (m)            | not used | 9.000E-01 |   ---   | DROOT(2)
 VEGE  | Wet weight crop yield for Pasture   (kg/m**2) | 1.100E+00 | 1.100E+00 |   ---   | YIELD(3)
 VEGE  | Growing Season for Pasture   (years)          | 8.000E-02 | 8.000E-02 |   ---   | GROWTIME(3)
 VEGE  | Translocation Factor for Pasture              | 1.000E+00 | 1.000E+00 |   ---   | FOLI_F(3)
 VEGE  | Weathering Removal Constant for Pasture       | 1.800E+01 | 2.000E+01 |   ---   | RWEATHER(3)
 VEGE  | Foliar Interception Fraction for dust Pasture | 2.500E-01 | 2.500E-01 |   ---   | FINTCEPT(3,1)
 VEGE  | Foliar Intercept-n Fract-n for irrigation Pasture | 2.500E-01 | 2.500E-01 | --- | FINTCEPT(3,2)
 VEGE  | Depth of roots for Pasture    (m)             | 9.000E-01 | 9.000E-01 |   ---   | DROOT(3)
 VEGE  | Wet weight crop yield for Grain     (kg/m**2) | 7.000E-01 | 7.000E-01 |   ---   | YIELD(4)
 VEGE  | Growing Season for Grain      (years)         | 1.700E-01 | 1.700E-01 |   ---   | GROWTIME(4)
 VEGE  | Translocation Factor for Grain                | 1.000E-01 | 1.000E-01 |   ---   | FOLI_F(4)
 VEGE  | Weathering Removal Constant for Grain         | 1.800E+01 | 2.000E+01 |   ---   | RWEATHER(4)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  27
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                              Site-Specific Parameter Summary (continued)


        |                                          |  User   |         |  RESRAD  |   Parameter
 Menu  |               Parameter                  |  Input  | Default |computed  |     Name
 ──────┼──────────────────────────────────────────┼─────────┼─────────┼──────────┼──────────────
 VEGE  | Foliar Interception Fraction for dust Grain  | 2.500E-01 | 2.500E-01 |   ---    | FINTCEPT(4,1)
 VEGE  | Foliar Intercept-n Fract-n for irrigation Grain | 2.500E-01 | 2.500E-01 |   ---    | FINTCEPT(4,2)
 VEGE  | Depth of roots for Grain     (m)         | 9.000E-01 | 1.200E+00 |   ---    | DROOT(4)
       |                                          |         |         |          |
 LINT  | Feed 1 intake by livestock 1 (kg/day)    | 2.250E+00 | 1.400E+01 |   ---    | LFI(1,1)
 LINT  | Soil intake with feed 1 by livestock 1 (kg/day) | 5.000E-01 | 1.000E-01 |   ---    | LSI(1,1)
 LINT  | Feed 1 intake by dairy cow (kg/day)      | not used | 4.400E+01 |   ---    | LFI(2,1)
 LINT  | Soil intake with feed 1 by dairy cow (kg/day) | not used | 4.000E-01 |   ---    | LSI(2,1)
 LINT  | Feed 2 intake by livestock 1 (kg/day)    | 0.000E+00 | 5.400E+01 |   ---    | LFI(1,2)
 LINT  | Soil intake with feed 2 by livestock 1 (kg/day) | 0.000E+00 | 4.000E-01 |   ---    | LSI(1,2)
 LINT  | Feed 2 intake by dairy cow (kg/day)      | not used | 1.100E+01 |   ---    | LFI(2,2)
 LINT  | Soil intake with feed 2 by dairy cow (kg/day) | not used | 1.000E-01 |   ---    | LSI(2,2)
       |                                          |         |         |          |
 INHE  | Inhalation rate (m**3/yr)                | 8.400E+03 | 8.400E+03 |   ---    | INHALR
 INHE  | Mass loading above primary contamination (g/m**3) | 1.480E-05 | 1.000E-04 |   ---    | MLFD
 INHE  | Mass loading for inhalation (g/m**3)     | 1.480E-05 | 1.000E-04 |   ---    | MLINH
 INHE  | Indoor dust filtration factor, inhalation | 1.000E+00 | 4.000E-01 |   ---    | SHF3
 INHE  | Shielding factor, external gamma         | 2.730E-01 | 7.000E-01 |   ---    | SHF1
 INHE  | Shape factor flag, external gamma        |-1.000E+00 | 1.000E+00 |noncircular| FS
 SEXT  | Onsite shape factor array (used if non-circular): |    |         |          |
 SEXT  | Radii of shape factor array (used if non-circular): |  |         |          |
 SEXT  |    Outer annular radius (m), ring  1:    | 2.292E+01 | 6.000E+00 |   ---    | RAD_SHAPE( 1)
 SEXT  |    Outer annular radius (m), ring  2:    | 4.583E+01 | 1.200E+01 |   ---    | RAD_SHAPE( 2)
 SEXT  |    Outer annular radius (m), ring  3:    | 6.875E+01 | 1.800E+01 |   ---    | RAD_SHAPE( 3)
 SEXT  |    Outer annular radius (m), ring  4:    | 9.167E+01 | 2.400E+01 |   ---    | RAD_SHAPE( 4)
 SEXT  |    Outer annular radius (m), ring  5:    | 1.146E+02 | 3.000E+01 |   ---    | RAD_SHAPE( 5)
 SEXT  |    Outer annular radius (m), ring  6:    | 1.375E+02 | 3.600E+01 |   ---    | RAD_SHAPE( 6)
 SEXT  |    Outer annular radius (m), ring  7:    | 1.604E+02 | 4.200E+01 |   ---    | RAD_SHAPE( 7)
 SEXT  |    Outer annular radius (m), ring  8:    | 1.833E+02 | 4.800E+01 |   ---    | RAD_SHAPE( 8)
 SEXT  |    Outer annular radius (m), ring  9:    | 2.063E+02 | 5.400E+01 |   ---    | RAD_SHAPE( 9)
 SEXT  |    Outer annular radius (m), ring 10:    | 2.292E+02 | 6.000E+01 |   ---    | RAD_SHAPE(10)
 SEXT  |    Outer annular radius (m), ring 11:    | 2.521E+02 | 6.600E+01 |   ---    | RAD_SHAPE(11)
 SEXT  |    Outer annular radius (m), ring 12:    | 2.750E+02 | 7.200E+01 |   ---    | RAD_SHAPE(12)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  28
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


        |                                          |  User   |          |  RESRAD  |    Parameter
Menu    |               Parameter                  |  Input  | Default  | computed |      Name
────────|──────────────────────────────────────────|─────────|──────────|──────────|──────────────
SEXT | Fractions of annular areas within AREA:      |         |          |          |
SEXT |   Ring  1                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 1)
SEXT |   Ring  2                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 2)
SEXT |   Ring  3                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 3)
SEXT |   Ring  4                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 4)
SEXT |   Ring  5                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 5)
SEXT |   Ring  6                                    | 1.000E+00 | 1.000E+00 |   ---    | FRACA( 6)
SEXT |   Ring  7                                    | 8.100E-01 | 1.000E+00 |   ---    | FRACA( 7)
SEXT |   Ring  8                                    | 6.100E-01 | 1.000E+00 |   ---    | FRACA( 8)
SEXT |   Ring  9                                    | 5.100E-01 | 7.700E-01 |   ---    | FRACA( 9)
SEXT |   Ring 10                                    | 4.500E-01 | 3.700E-01 |   ---    | FRACA(10)
SEXT |   Ring 11                                    | 2.600E-01 | 1.700E-01 |   ---    | FRACA(11)
SEXT |   Ring 12                                    | 5.400E-02 | 3.100E-02 |   ---    | FRACA(12)
SEXT | Shape factor array from offsite dwelling:    |         |          |          |
SEXT | Radii of shape factor array (used if non-circular): |  |          |          |
SEXT |   Outer annular radius (m), ring 13:         | 3.600E+01 | 1.325E+01 |   ---    | RAD_SHAPE(13)
SEXT |   Outer annular radius (m), ring 14:         | 7.200E+01 | 2.650E+01 |   ---    | RAD_SHAPE(14)
SEXT |   Outer annular radius (m), ring 15:         | 1.080E+02 | 3.975E+01 |   ---    | RAD_SHAPE(15)
SEXT |   Outer annular radius (m), ring 16:         | 1.440E+02 | 5.300E+01 |   ---    | RAD_SHAPE(16)
SEXT |   Outer annular radius (m), ring 17:         | 1.800E+02 | 6.625E+01 |   ---    | RAD_SHAPE(17)
SEXT |   Outer annular radius (m), ring 18:         | 2.160E+02 | 7.950E+01 |   ---    | RAD_SHAPE(18)
SEXT |   Outer annular radius (m), ring 19:         | 2.520E+02 | 9.275E+01 |   ---    | RAD_SHAPE(19)
SEXT |   Outer annular radius (m), ring 20:         | 2.880E+02 | 1.060E+02 |   ---    | RAD_SHAPE(20)
SEXT |   Outer annular radius (m), ring 21:         | 3.240E+02 | 1.193E+02 |   ---    | RAD_SHAPE(21)
SEXT |   Outer annular radius (m), ring 22:         | 3.600E+02 | 1.325E+02 |   ---    | RAD_SHAPE(22)
SEXT |   Outer annular radius (m), ring 23:         | 3.960E+02 | 1.458E+02 |   ---    | RAD_SHAPE(23)
SEXT |   Outer annular radius (m), ring 24:         | 4.320E+02 | 1.590E+02 |   ---    | RAD_SHAPE(24)
SEXT | Fractions of annular areas within AREA:      |         |          |          |
SEXT |   Ring 13                                    | 1.000E+00 | 0.000E+00 |   ---    | FRACA(13)
SEXT |   Ring 14                                    | 1.000E+00 | 0.000E+00 |   ---    | FRACA(14)
SEXT |   Ring 15                                    | 8.000E-01 | 0.000E+00 |   ---    | FRACA(15)
SEXT |   Ring 16                                    | 6.500E-01 | 2.400E-02 |   ---    | FRACA(16)
SEXT |   Ring 17                                    | 3.400E-01 | 1.900E-01 |   ---    | FRACA(17)
SEXT |   Ring 18                                    | 2.500E-01 | 2.400E-01 |   ---    | FRACA(18)
SEXT |   Ring 19                                    | 2.100E-01 | 2.000E-01 |   ---    | FRACA(19)
SEXT |   Ring 20                                    | 1.700E-01 | 1.700E-01 |   ---    | FRACA(20)
SEXT |   Ring 21                                    | 1.500E-01 | 1.500E-01 |   ---    | FRACA(21)
SEXT |   Ring 22                                    | 1.300E-01 | 1.300E-01 |   ---    | FRACA(22)
SEXT |   Ring 23                                    | 1.200E-01 | 1.200E-01 |   ---    | FRACA(23)
SEXT |   Ring 24                                    | 5.500E-02 | 5.200E-02 |   ---    | FRACA(24)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  29
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                          Site-Specific Parameter Summary (continued)


        |                                              |  User   |         |  RESRAD  |   Parameter
Menu    |                 Parameter                    |  Input  | Default | computed |     Name
────────┼──────────────────────────────────────────────┼─────────┼─────────┼──────────┼─────────────
SEXT | Shape factor array from offsite area 1:          |         |         |          |
SEXT | Radii of shape factor array (used if non-circular): |      |         |          |
SEXT |    Outer annular radius (m), ring 25:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(25)
SEXT |    Outer annular radius (m), ring 26:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(26)
SEXT |    Outer annular radius (m), ring 27:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(27)
SEXT |    Outer annular radius (m), ring 28:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(28)
SEXT |    Outer annular radius (m), ring 29:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(29)
SEXT |    Outer annular radius (m), ring 30:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(30)
SEXT |    Outer annular radius (m), ring 31:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(31)
SEXT |    Outer annular radius (m), ring 32:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(32)
SEXT |    Outer annular radius (m), ring 33:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(33)
SEXT |    Outer annular radius (m), ring 34:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(34)
SEXT |    Outer annular radius (m), ring 35:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(35)
SEXT |    Outer annular radius (m), ring 36:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(36)
SEXT | Fractions of annular areas within AREA:          |         |         |          |
SEXT |    Ring 25                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(25)
SEXT |    Ring 26                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(26)
SEXT |    Ring 27                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(27)
SEXT |    Ring 28                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(28)
SEXT |    Ring 29                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(29)
SEXT |    Ring 30                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(30)
SEXT |    Ring 31                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(31)
SEXT |    Ring 32                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(32)
SEXT |    Ring 33                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(33)
SEXT |    Ring 34                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(34)
SEXT |    Ring 35                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(35)
SEXT |    Ring 36                                       | 0.000E+00 | 0.000E+00 |   ---   | FRACA(36)
SEXT | Shape factor array from offsite area 2:          |         |         |          |
SEXT | Radii of shape factor array (used if non-circular): |      |         |          |
SEXT |    Outer annular radius (m), ring 37:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(37)
SEXT |    Outer annular radius (m), ring 38:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(38)
SEXT |    Outer annular radius (m), ring 39:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(39)
SEXT |    Outer annular radius (m), ring 40:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(40)
SEXT |    Outer annular radius (m), ring 41:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(41)
SEXT |    Outer annular radius (m), ring 42:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(42)
SEXT |    Outer annular radius (m), ring 43:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(43)
SEXT |    Outer annular radius (m), ring 44:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(44)
SEXT |    Outer annular radius (m), ring 45:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(45)
SEXT |    Outer annular radius (m), ring 46:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(46)
SEXT |    Outer annular radius (m), ring 47:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(47)
SEXT |    Outer annular radius (m), ring 48:            | 1.000E+01 | 1.000E+01 |   ---   | RAD_SHAPE(48)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days       05/04/2016  13:08  Page  30
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                         Site-Specific Parameter Summary (continued)


          |                                          |  User   |         |  RESRAD  |   Parameter
  Menu    |              Parameter                   |  Input  | Default | computed |     Name
——————————|——————————————————————————————————————————|—————————|—————————|——————————|————————————————
  SEXT  | Fractions of annular areas within AREA:    |         |         |          |
  SEXT  |    Ring 37                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(37)
  SEXT  |    Ring 38                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(38)
  SEXT  |    Ring 39                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(39)
  SEXT  |    Ring 40                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(40)
  SEXT  |    Ring 41                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(41)
  SEXT  |    Ring 42                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(42)
  SEXT  |    Ring 43                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(43)
  SEXT  |    Ring 44                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(44)
  SEXT  |    Ring 45                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(45)
  SEXT  |    Ring 46                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(46)
  SEXT  |    Ring 47                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(47)
  SEXT  |    Ring 48                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(48)
  SEXT  | Shape factor array from offsite area 3:    |         |         |          |
  SEXT  | Radii of shape factor array (used if non-circular): |    |         |          |
  SEXT  |    Outer annular radius (m), ring 49:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(49)
  SEXT  |    Outer annular radius (m), ring 50:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(50)
  SEXT  |    Outer annular radius (m), ring 51:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(51)
  SEXT  |    Outer annular radius (m), ring 52:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(52)
  SEXT  |    Outer annular radius (m), ring 53:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(53)
  SEXT  |    Outer annular radius (m), ring 54:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(54)
  SEXT  |    Outer annular radius (m), ring 55:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(55)
  SEXT  |    Outer annular radius (m), ring 56:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(56)
  SEXT  |    Outer annular radius (m), ring 57:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(57)
  SEXT  |    Outer annular radius (m), ring 58:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(58)
  SEXT  |    Outer annular radius (m), ring 59:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(59)
  SEXT  |    Outer annular radius (m), ring 60:      | 1.000E+01 | 1.000E+01 |   ---  | RAD_SHAPE(60)
  SEXT  | Fractions of annular areas within AREA:    |         |         |          |
  SEXT  |    Ring 49                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(49)
  SEXT  |    Ring 50                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(50)
  SEXT  |    Ring 51                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(51)
  SEXT  |    Ring 52                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(52)
  SEXT  |    Ring 53                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(53)
  SEXT  |    Ring 54                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(54)
  SEXT  |    Ring 55                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(55)
  SEXT  |    Ring 56                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(56)
  SEXT  |    Ring 57                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(57)
  SEXT  |    Ring 58                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(58)
  SEXT  |    Ring 59                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(59)
  SEXT  |    Ring 60                                 | 0.000E+00 | 0.000E+00 |   ---  | FRACA(60)
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  31
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                        Site-Specific Parameter Summary (continued)
```

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
SEXT	Shape factor array from offsite area 4:				
SEXT	Radii of shape factor array (used if non-circular):				
SEXT	Outer annular radius (m), ring 61:	1.000E+01	1.000E+01	---	RAD_SHAPE(61)
SEXT	Outer annular radius (m), ring 62:	1.000E+01	1.000E+01	---	RAD_SHAPE(62)
SEXT	Outer annular radius (m), ring 63:	1.000E+01	1.000E+01	---	RAD_SHAPE(63)
SEXT	Outer annular radius (m), ring 64:	1.000E+01	1.000E+01	---	RAD_SHAPE(64)
SEXT	Outer annular radius (m), ring 65:	1.000E+01	1.000E+01	---	RAD_SHAPE(65)
SEXT	Outer annular radius (m), ring 66:	1.000E+01	1.000E+01	---	RAD_SHAPE(66)
SEXT	Outer annular radius (m), ring 67:	1.000E+01	1.000E+01	---	RAD_SHAPE(67)
SEXT	Outer annular radius (m), ring 68:	1.000E+01	1.000E+01	---	RAD_SHAPE(68)
SEXT	Outer annular radius (m), ring 69:	1.000E+01	1.000E+01	---	RAD_SHAPE(69)
SEXT	Outer annular radius (m), ring 70:	1.000E+01	1.000E+01	---	RAD_SHAPE(70)
SEXT	Outer annular radius (m), ring 71:	1.000E+01	1.000E+01	---	RAD_SHAPE(71)
SEXT	Outer annular radius (m), ring 72:	1.000E+01	1.000E+01	---	RAD_SHAPE(72)
SEXT	Fractions of annular areas within AREA:				
SEXT	Ring 61	0.000E+00	0.000E+00	---	FRACA(61)
SEXT	Ring 62	0.000E+00	0.000E+00	---	FRACA(62)
SEXT	Ring 63	0.000E+00	0.000E+00	---	FRACA(63)
SEXT	Ring 64	0.000E+00	0.000E+00	---	FRACA(64)
SEXT	Ring 65	0.000E+00	0.000E+00	---	FRACA(65)
SEXT	Ring 66	0.000E+00	0.000E+00	---	FRACA(66)
SEXT	Ring 67	0.000E+00	0.000E+00	---	FRACA(67)
SEXT	Ring 68	0.000E+00	0.000E+00	---	FRACA(68)
SEXT	Ring 69	0.000E+00	0.000E+00	---	FRACA(69)
SEXT	Ring 70	0.000E+00	0.000E+00	---	FRACA(70)
SEXT	Ring 71	0.000E+00	0.000E+00	---	FRACA(71)
SEXT	Ring 72	0.000E+00	0.000E+00	---	FRACA(72)
OCCU	Fraction of time spent indoors on contaminated site	8.333E-01	0.000E+00	---	FIND
OCCU	Fraction of time spent outdoors on contaminated site	1.667E-01	0.000E+00	---	FOTD
OCCU	Fraction of time spent indoors in Offsite Dwelling	0.000E+00	5.000E-01	---	FINDDWELL
OCCU	Fraction of time spent outdoors in Offsite Dwelling	0.000E+00	1.000E-01	---	FOTDDWELL
OCCU	Fraction of time spent outdoors in agri. area 1	0.000E+00	1.000E-01	---	OCCUPANCY(1)
OCCU	Fraction of time spent outdoors in agri. area 2	0.000E+00	1.000E-01	---	OCCUPANCY(2)
OCCU	Fraction of time spent outdoors in agri. area 3	0.000E+00	1.000E-01	---	OCCUPANCY(3)
OCCU	Fraction of time spent outdoors in agri. area 4	0.000E+00	1.000E-01	---	OCCUPANCY(4)
RADN	Diffusion coefficient for radon gas (m/sec):				
RADN	in cover material	not used	2.000E-06	---	DIFCV
RADN	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
RADN	in fruit, grain and non-leafy vegetable field	not used	2.000E-06	---	DIFOS(1)
RADN	in leafy vegetable field	not used	2.000E-06	---	DIFOS(2)
RADN	in pature	not used	2.000E-06	---	DIFOS(3)
RADN	in livestock grain field	not used	2.000E-06	---	DIFOS(4)
RADN	in offsite dwelling site	not used	2.000E-06	---	DIFOS(5)
RADN	in foundation material	not used	3.000E-07	---	DIFFL
RADN	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  32
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF

                           Site-Specific Parameter Summary (continued)
```

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
RADN	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
RADN	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
RADN	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
RADN	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
RADN	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
RADN	Height of the building (room) (m)	not used	2.500E+00	---	HRM
RADN	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
RADN	Building interior area factor	not used	0.000E+00	---	FAI
RADN	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA(1)
RADN	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA(2)
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC
C14	Vertical dimension of mixing for vegetation (m)	not used	1.000E+00	---	HMIXV
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	C14EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	C12EVSN
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL
C12	C-12 concentration in the atmosphere (g/m**3)	not used	1.800E-01	---	C12AIR
C12	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C12	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C12	C-12 concentration in meat 1 (g/g)	not used	2.400E-01	---	C12MEAT_MILK(1)
C12	C-12 concentration in milk (g/g)	not used	7.000E-02	---	C12MEAT_MILK(2)
C12	C-12 concentration in vegetable 1 (g/g)	not used	4.000E-01	---	C12PLANT(1)
C12	C-12 concentration in vegetable 2 (g/g)	not used	9.000E-02	---	C12PLANT(2)
C12	C-12 concentration in livestock feed 1 (g/g)	not used	9.000E-02	---	C12PLANT(3)
C12	C-12 concentration in livestock feed 2 (g/g)	not used	4.000E-01	---	C12PLANT(4)
H3	Humidity in air (g/cm**3)	not used	8.000E+00	---	HUMID
H3	Mass fraction of water in meat 1 (g/g)	not used	6.000E-01	---	H2OMEAT_MILK(1)
H3	Mass fraction of water in milk (g/g)	not used	8.800E-01	---	H2OMEAT_MILK(2)
H3	Mass fraction of water in vegetable 1 (g/g)	not used	8.000E-01	---	H2OPLANT(1)
H3	Mass fraction of water in vegetable 2 (g/g)	not used	8.000E-01	---	H2OPLANT(2)
H3	Mass fraction of water in livestock feed 1 (g/g)	not used	8.000E-01	---	H2OPLANT(3)
H3	Mass fraction of water in livestock feed 2 (g/g)	not used	8.000E-01	---	H2OPLANT(4)

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  33
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF
```

Summary of Pathway Selections

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

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  34
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


      Contaminated Zone Dimensions           Initial Soil Concentrations, pCi/g
    ─────────────────────────────          ─────────────────────────────────────

         Area: 130760.00 square meters           Cs-137    1.690E-01
   Thickness:      1.00 meters                    Sr-90     7.000E-03
 Cover Depth:      0.00 meters



                              Total Dose TDOSE(t), mrem/yr
                       Basic Radiation Dose Limit =  2.500E+01 mrem/yr
               Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)
               ──────────────────────────────────────────────────────────────────────

   t (years):  0.000E+00  1.000E+00  3.000E+00  6.000E+00  1.200E+01  3.000E+01  7.500E+01  1.750E+02  4.200E+02  9.700E+02
   TDOSE(t):   2.210E-01  2.159E-01  2.060E-01  1.918E-01  1.664E-01  1.104E-01  4.159E-02  3.547E-03  1.072E-05  2.404E-11
       M(t):   8.841E-03  8.637E-03  8.238E-03  7.674E-03  6.658E-03  4.417E-03  1.664E-03  1.419E-04  4.289E-07  9.617E-13


Maximum TDOSE(t):  2.210E-01 mrem/yr at t = 0 years
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  35
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                           in mrem/yr and as a Percentage of Total Dose at t = 0 years


                              From releases to ground water and to surface water


             Ground          Fish          Radon          Plant          Meat          Milk          Soil          Water
Radio-     ───────────   ───────────   ───────────   ───────────   ───────────   ───────────   ───────────   ───────────
Nuclide    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %
──────     ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──

Cs-137   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  4.07E-05   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
Sr-90    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  1.40E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
══════   ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══

Total    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  4.21E-05   0  0.00E+00   0  0.00E+00   0  0.00E+00   0



                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                           in mrem/yr and as a Percentage of Total Dose at t = 0 years


                 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


             Ground        Inhalation        Radon          Plant          Meat          Milk          Soil        All Pathways*
Radio-     ───────────   ───────────   ───────────   ───────────   ───────────   ───────────   ───────────   ───────────
Nuclide    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %    Dose     %
──────     ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──    ────    ──

Cs-137   2.19E-01  99  1.44E-07   0  0.00E+00   0  0.00E+00   0  1.25E-03   1  0.00E+00   0  1.53E-04   0  2.21E-01 100
Sr-90    6.47E-05   0  2.42E-07   0  0.00E+00   0  0.00E+00   0  8.32E-05   0  0.00E+00   0  1.91E-05   0  1.69E-04   0
══════   ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══  ════════  ══

Total    2.19E-01  99  3.86E-07   0  0.00E+00   0  0.00E+00   0  1.34E-03   1  0.00E+00   0  1.72E-04   0  2.21E-01 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  36
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF
```

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 1 years

From releases to ground water and to surface water

Radio-Nuclide	Ground Dose	%	Fish Dose	%	Radon Dose	%	Plant Dose	%	Meat Dose	%	Milk Dose	%	Soil Dose	%	Water Dose	%
Cs-137	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.80E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sr-90	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.04E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.10E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 1 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio-Nuclide	Ground Dose	%	Inhalation Dose	%	Radon Dose	%	Plant Dose	%	Meat Dose	%	Milk Dose	%	Soil Dose	%	All Pathways* Dose	%
Cs-137	2.14E-01	99	1.41E-07	0	0.00E+00	0	0.00E+00	0	1.23E-03	1	0.00E+00	0	1.49E-04	0	2.16E-01	100
Sr-90	6.13E-05	0	2.29E-07	0	0.00E+00	0	0.00E+00	0	7.89E-05	0	0.00E+00	0	1.81E-05	0	1.62E-04	0
Total	2.14E-01	99	3.70E-07	0	0.00E+00	0	0.00E+00	0	1.30E-03	1	0.00E+00	0	1.67E-04	0	2.16E-01	100

*Sum of dose from all releases and from primary contamination.

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  37
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                        in mrem/yr and as a Percentage of Total Dose at t = 3 years


                             From releases to ground water and to surface water


             Ground         Fish          Radon          Plant          Meat          Milk           Soil          Water
Radio-    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────
Nuclide   Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
───────   ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──

Cs-137  0.00E+00   0   0.00E+00   0   0.00E+00   0   0.00E+00   0   1.08E-04   0   0.00E+00   0   0.00E+00   0   0.00E+00   0
Sr-90   0.00E+00   0   0.00E+00   0   0.00E+00   0   0.00E+00   0   3.58E-06   0   0.00E+00   0   0.00E+00   0   0.00E+00   0
───────            ──             ──             ──             ──             ──             ──             ──             ──
Total   0.00E+00   0   0.00E+00   0   0.00E+00   0   0.00E+00   0   1.11E-04   0   0.00E+00   0   0.00E+00   0   0.00E+00   0



                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                        in mrem/yr and as a Percentage of Total Dose at t = 3 years


             Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


             Ground       Inhalation       Radon          Plant          Meat          Milk           Soil        All Pathways*
Radio-    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────    ───────────
Nuclide   Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
───────   ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──     ────    ──

Cs-137  2.04E-01  99   1.35E-07   0   0.00E+00   0   0.00E+00   0   1.17E-03   1   0.00E+00   0   1.42E-04   0   2.06E-01 100
Sr-90   5.51E-05   0   2.06E-07   0   0.00E+00   0   0.00E+00   0   7.09E-05   0   0.00E+00   0   1.62E-05   0   1.46E-04   0
───────           ──             ──             ──             ──             ──             ──             ──             ──
Total   2.04E-01  99   3.40E-07   0   0.00E+00   0   0.00E+00   0   1.24E-03   1   0.00E+00   0   1.59E-04   0   2.06E-01 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1         T½ Limit = 30 days         05/04/2016  13:08  Page  38
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                      in mrem/yr and as a Percentage of Total Dose at t = 6 years


                              From releases to ground water and to surface water


            Ground        Fish         Radon         Plant         Meat         Milk          Soil         Water
Radio-    ──────────    ──────────   ──────────   ──────────   ──────────    ──────────   ──────────    ──────────
Nuclide   Dose    %     Dose    %    Dose    %    Dose    %    Dose    %     Dose    %     Dose    %    Dose    %
──────    ──────  ──    ──────  ──   ──────  ──   ──────  ──   ──────  ──    ──────  ──    ──────  ──   ──────  ──

Cs-137  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  1.04E-04   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
Sr-90   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  3.16E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
──────  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──

Total   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  1.07E-04   0  0.00E+00   0  0.00E+00   0  0.00E+00   0



                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                      in mrem/yr and as a Percentage of Total Dose at t = 6 years


            Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


            Ground       Inhalation      Radon         Plant         Meat         Milk          Soil       All Pathways*
Radio-    ──────────    ──────────   ──────────   ──────────   ──────────    ──────────   ──────────    ──────────
Nuclide   Dose    %     Dose    %    Dose    %    Dose    %    Dose    %     Dose    %     Dose    %    Dose    %
──────    ──────  ──    ──────  ──   ──────  ──   ──────  ──   ──────  ──    ──────  ──    ──────  ──   ──────  ──

Cs-137  1.90E-01  99  1.25E-07   0  0.00E+00   0  0.00E+00   0  1.09E-03   1  0.00E+00   0  1.33E-04   0  1.92E-01 100
Sr-90   4.69E-05   0  1.75E-07   0  0.00E+00   0  0.00E+00   0  6.03E-05   0  0.00E+00   0  1.38E-05   0  1.24E-04   0
──────  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──  ──────  ──

Total   1.90E-01  99  3.00E-07   0  0.00E+00   0  0.00E+00   0  1.15E-03   1  0.00E+00   0  1.46E-04   0  1.92E-01 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  39
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                          in mrem/yr and as a Percentage of Total Dose at t = 12 years


                              From releases to ground water and to surface water


              Ground         Fish          Radon          Plant          Meat          Milk          Soil          Water
Radio-     ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────
Nuclide    Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
───────    ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────

Cs-137   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  9.03E-05   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
Sr-90    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  2.30E-06   0  0.00E+00   0  0.00E+00   0  1.12E-06   0
───────    ════════════   ════════════   ════════════   ════════════   ════════════   ════════════   ════════════   ════════════
Total    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  9.26E-05   0  0.00E+00   0  0.00E+00   0  1.12E-06   0



                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                          in mrem/yr and as a Percentage of Total Dose at t = 12 years


              Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


              Ground       Inhalation       Radon          Plant          Meat          Milk          Soil        All Pathways*
Radio-     ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────
Nuclide    Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
───────    ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────   ────────────

Cs-137   1.65E-01  99  1.09E-07   0  0.00E+00   0  0.00E+00   0  9.45E-04   1  0.00E+00   0  1.15E-04   0  1.66E-01 100
Sr-90    3.40E-05   0  1.27E-07   0  0.00E+00   0  0.00E+00   0  4.37E-05   0  0.00E+00   0  1.00E-05   0  9.12E-05   0
───────    ════════════   ════════════   ════════════   ════════════   ════════════   ════════════   ════════════   ════════════
Total    1.65E-01  99  2.36E-07   0  0.00E+00   0  0.00E+00   0  9.88E-04   1  0.00E+00   0  1.25E-04   0  1.66E-01 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  40
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                          in mrem/yr and as a Percentage of Total Dose at t = 30 years


                            From releases to ground water and to surface water


          Ground          Fish           Radon           Plant           Meat           Milk           Soil           Water
Radio-    ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────
Nuclide   Dose     %      Dose     %     Dose     %      Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
          ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────

Cs-137    0.00E+00  0     0.00E+00  0    0.00E+00  0     0.00E+00  0    5.88E-05  0    0.00E+00  0    0.00E+00  0    0.00E+00  0
Sr-90     0.00E+00  0     0.00E+00  0    0.00E+00  0     0.00E+00  0    8.75E-07  0    0.00E+00  0    0.00E+00  0    1.71E-03  2
          ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────

Total     0.00E+00  0     0.00E+00  0    0.00E+00  0     0.00E+00  0    5.97E-05  0    0.00E+00  0    0.00E+00  0    1.71E-03  2



                Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                          in mrem/yr and as a Percentage of Total Dose at t = 30 years


             Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


          Ground         Inhalation        Radon           Plant           Meat           Milk           Soil         All Pathways*
Radio-    ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────
Nuclide   Dose     %      Dose     %     Dose     %      Dose     %     Dose     %     Dose     %     Dose     %     Dose     %
          ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────

Cs-137    1.08E-01 98     7.10E-08  0    0.00E+00  0     0.00E+00  0    6.17E-04  1    0.00E+00  0    7.52E-05  0    1.09E-01 98
Sr-90     1.29E-05  0     4.83E-08  0    0.00E+00  0     0.00E+00  0    1.66E-05  0    0.00E+00  0    3.81E-06  0    1.75E-03  2
          ─────────       ─────────      ─────────       ─────────      ─────────      ─────────      ─────────      ─────────

Total     1.08E-01 98     1.19E-07  0    0.00E+00  0     0.00E+00  0    6.34E-04  1    0.00E+00  0    7.90E-05  0    1.10E-01 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  41
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


              Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                       in mrem/yr and as a Percentage of Total Dose at t = 75 years


                            From releases to ground water and to surface water


          Ground        Fish         Radon         Plant         Meat         Milk         Soil         Water
Radio-  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────
Nuclide  Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %
──────  ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──

Cs-137  0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  2.03E-05  0  0.00E+00  0  0.00E+00  0  0.00E+00   0
Sr-90   0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  7.84E-08  0  0.00E+00  0  0.00E+00  0  4.10E-03  10
──────  ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──

Total   0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  2.03E-05  0  0.00E+00  0  0.00E+00  0  4.10E-03  10



              Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                       in mrem/yr and as a Percentage of Total Dose at t = 75 years


            Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


          Ground      Inhalation       Radon         Plant         Meat         Milk         Soil       All Pathways*
Radio-  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────
Nuclide  Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %    Dose    %
──────  ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──

Cs-137  3.72E-02  90  2.45E-08  0  0.00E+00  0  0.00E+00  0  2.13E-04  1  0.00E+00  0  2.59E-05  0  3.75E-02  90
Sr-90   1.15E-06   0  4.31E-09  0  0.00E+00  0  0.00E+00  0  1.48E-06  0  0.00E+00  0  3.40E-07  0  4.10E-03  10
──────  ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──    ────  ──

Total   3.72E-02  90  2.88E-08  0  0.00E+00  0  0.00E+00  0  2.14E-04  1  0.00E+00  0  2.63E-05  0  4.16E-02 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1       T½ Limit = 30 days       05/04/2016  13:08  Page  42
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


              Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                       in mrem/yr and as a Percentage of Total Dose at t = 175 years


                           From releases to ground water and to surface water


           Ground        Fish        Radon         Plant         Meat         Milk          Soil         Water
Radio-   ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────
Nuclide  Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %
───────  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───
Cs-137   0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  1.91E-06  0  0.00E+00  0  0.00E+00  0  0.00E+00  0
Sr-90    0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  3.68E-10  0  0.00E+00  0  0.00E+00  0  2.47E-05  1
───────  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───
Total    0.00E+00  0  0.00E+00  0  0.00E+00  0  0.00E+00  0  1.91E-06  0  0.00E+00  0  0.00E+00  0  2.47E-05  1



              Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                       in mrem/yr and as a Percentage of Total Dose at t = 175 years


           Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


           Ground      Inhalation      Radon         Plant         Meat         Milk          Soil       All Pathways*
Radio-   ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────  ───────────
Nuclide  Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %   Dose     %
───────  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───
Cs-137   3.50E-03 99  2.30E-09  0  0.00E+00  0  0.00E+00  0  2.00E-05  1  0.00E+00  0  2.44E-06  0  3.52E-03 99
Sr-90    5.37E-09  0  2.01E-11  0  0.00E+00  0  0.00E+00  0  6.91E-09  0  0.00E+00  0  1.58E-09  0  2.47E-05  1
───────  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───  ─────── ───
Total    3.50E-03 99  2.32E-09  0  0.00E+00  0  0.00E+00  0  2.00E-05  1  0.00E+00  0  2.44E-06  0  3.55E-03 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1         T½ Limit = 30 days         05/04/2016  13:08  Page  43
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                        in mrem/yr and as a Percentage of Total Dose at t = 420 years


                          From releases to ground water and to surface water


           Ground          Fish           Radon          Plant           Meat            Milk            Soil           Water
Radio-    ────────       ────────       ────────       ────────       ────────       ────────       ────────       ────────
Nuclide   Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %
───────
Cs-137  0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   5.85E-09  0   0.00E+00  0   0.00E+00  0   0.00E+00  0
Sr-90   0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   7.24E-16  0   0.00E+00  0   0.00E+00  0   4.76E-11  0
═══════
Total   0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   5.85E-09  0   0.00E+00  0   0.00E+00  0   4.76E-11  0



                  Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                        in mrem/yr and as a Percentage of Total Dose at t = 420 years


          Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


           Ground        Inhalation        Radon          Plant           Meat            Milk            Soil        All Pathways*
Radio-    ────────       ────────       ────────       ────────       ────────       ────────       ────────       ────────
Nuclide   Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %      Dose    %
───────
Cs-137  1.06E-05 99   7.01E-12  0   0.00E+00  0   0.00E+00  0   6.09E-08  1   0.00E+00  0   7.42E-09  0   1.07E-05 100
Sr-90   1.04E-14  0   3.88E-17  0   0.00E+00  0   0.00E+00  0   1.34E-14  0   0.00E+00  0   3.06E-15  0   4.76E-11  0
═══════
Total   1.06E-05 99   7.01E-12  0   0.00E+00  0   0.00E+00  0   6.09E-08  1   0.00E+00  0   7.42E-09  0   1.07E-05 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  44
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


               Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                      in mrem/yr and as a Percentage of Total Dose at t = 970 years


                           From releases to ground water and to surface water


         Ground          Fish          Radon          Plant          Meat          Milk          Soil          Water
Radio-  ────────       ────────      ────────       ────────       ────────      ────────      ────────       ────────
Nuclide  Dose   %       Dose   %      Dose   %       Dose   %       Dose   %      Dose   %      Dose   %       Dose   %
        ────── ──       ────── ──     ────── ──      ────── ──      ────── ──     ────── ──     ────── ──      ────── ──

Cs-137  0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   1.34E-14  0   0.00E+00  0   0.00E+00  0   2.41E-15  0
Sr-90   0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   1.13E-28  0   0.00E+00  0   0.00E+00  0   7.05E-24  0
        ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──

Total   0.00E+00  0   0.00E+00  0   0.00E+00  0   0.00E+00  0   1.34E-14  0   0.00E+00  0   0.00E+00  0   2.41E-15  0



               Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
                      in mrem/yr and as a Percentage of Total Dose at t = 970 years


          Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)


         Ground       Inhalation        Radon          Plant          Meat          Milk          Soil        All Pathways*
Radio-  ────────      ──────────      ────────       ────────       ────────      ────────      ────────      ────────────
Nuclide  Dose   %       Dose   %       Dose   %       Dose   %       Dose   %      Dose   %      Dose   %       Dose   %
        ────── ──      ────── ──      ────── ──      ────── ──      ────── ──     ────── ──     ────── ──      ────── ──

Cs-137  2.39E-11 99   1.57E-17  0   0.00E+00  0   0.00E+00  0   1.37E-13  1   0.00E+00  0   1.66E-14  0   2.40E-11 100
Sr-90   1.55E-27  0   5.79E-30  0   0.00E+00  0   0.00E+00  0   1.99E-27  0   0.00E+00  0   4.57E-28  0   7.06E-24  0
        ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──   ──────── ──

Total   2.39E-11 99   1.57E-17  0   0.00E+00  0   0.00E+00  0   1.37E-13  1   0.00E+00  0   1.66E-14  0   2.40E-11 100


*Sum of dose from all releases and from primary contamination.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  45
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


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


    Parent    Product    Thread                              DSR(j,t) (mrem/yr)/(pCi/g)
     (i)        (j)      Fraction   0.000E+00 1.000E+00 3.000E+00 6.000E+00 1.200E+01 3.000E+01 7.500E+01 1.750E+02 4.200E+02 9.700E+02
  _____   _____   _____   _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Cs-137+D   Cs-137+D   1.000E+00   1.307E+00 1.277E+00 1.218E+00 1.134E+00 9.843E-01 6.431E-01 2.218E-01 2.084E-02 6.344E-05 1.423E-10

Sr-90+D    Sr-90+D    1.000E+00   2.409E-02 2.308E-02 2.085E-02 1.776E-02 1.303E-02 2.499E-01 5.861E-01 3.527E-03 6.802E-09 1.008E-21
  ════════   ════════   ════════   ═════════ ═════════ ═════════ ═════════ ═════════ ═════════ ═════════ ═════════ ═════════ ═════════

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



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


Nuclide
   (i)    t= 0.000E+00   1.000E+00   3.000E+00   6.000E+00   1.200E+01   3.000E+01   7.500E+01   1.750E+02   4.200E+02   9.700E+02
  _____    _____   _____   _____   _____   _____   _____   _____   _____   _____   _____

Cs-137     1.913E+01   1.958E+01   2.053E+01   2.204E+01   2.540E+01   3.888E+01   1.127E+02   1.200E+03   3.941E+05   1.757E+11
Sr-90      1.038E+03   1.083E+03   1.199E+03   1.407E+03   1.918E+03   1.000E+02   4.266E+01   7.088E+03   3.675E+09  *1.365E+14
  ═══════    ═════════   ═════════   ═════════   ═════════   ═════════   ═════════   ═════════   ═════════   ═════════   ═════════

*At specific activity limit



             Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)
             and Single Radionuclide Soil Guidelines G(i,t) in pCi/g
          at tmin = time of minimum single radionuclide soil guideline
        and at tmax = time of maximum total dose = 0 years


Nuclide  Initial        tmin      DSR(i,tmin) G(i,tmin) DSR(i,tmax) G(i,tmax)
   (i)    (pCi/g)       (years)                 (pCi/g)               (pCi/g)
  _____  _____   _____   _____   _____   _____   _____

Cs-137   1.690E-01          0     1.307E+00  1.913E+01  1.307E+00  1.913E+01
Sr-90    7.000E-03       57.4     7.735E-01  3.232E+01  2.409E-02  1.038E+03
  ═══════  ════════   ═══════════   ═════════   ═════════   ═════════   ═════════
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  46
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


                        Individual Nuclide Dose Summed Over All Pathways
                          Parent Nuclide and Thread Fraction Indicated


Nuclide Parent   THF(i)                                         DOSE(j,t), mrem/yr
  (j)     (i)           t= 0.000E+00 1.000E+00 3.000E+00 6.000E+00 1.200E+01 3.000E+01 7.500E+01 1.750E+02 4.200E+02 9.700E+02
_____ _____ _____    _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Cs-137  Cs-137  1.000E+00    2.209E-01 2.158E-01 2.058E-01 1.917E-01 1.664E-01 1.087E-01 3.749E-02 3.522E-03 1.072E-05 2.404E-11

Sr-90   Sr-90   1.000E+00    1.686E-04 1.615E-04 1.459E-04 1.243E-04 9.122E-05 1.749E-03 4.102E-03 2.469E-05 4.761E-11 7.058E-24
======= ======= ========    ========= ========= ========= ========= ========= ========= ========= ========= ========= =========
THF(i) is the thread fraction of the parent nuclide.




                            Individual Nuclide Soil Concentration
                          Parent Nuclide and Thread Fraction Indicated


Nuclide Parent   THF(i)                                         S(j,t), pCi/g
  (j)     (i)           t= 0.000E+00 1.000E+00 3.000E+00 6.000E+00 1.200E+01 3.000E+01 7.500E+01 1.750E+02 4.200E+02 9.700E+02
_____ _____ _____    _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Cs-137  Cs-137  1.000E+00    1.690E-01 1.651E-01 1.574E-01 1.466E-01 1.272E-01 8.313E-02 2.868E-02 2.694E-03 8.201E-06 1.839E-11

Sr-90   Sr-90   1.000E+00    7.000E-03 6.634E-03 5.959E-03 5.072E-03 3.675E-03 1.398E-03 1.248E-04 5.809E-07 1.124E-12 1.677E-25
======= ======= ========    ========= ========= ========= ========= ========= ========= ========= ========= ========= =========
THF(i) is the thread fraction of the parent nuclide.
```

```
RESRAD-OFFSITE, Version 3.1        T½ Limit = 30 days        05/04/2016  13:08  Page  47
Parent Dose Report
Title : RESRAD-OFFSITE Default Parameters
File  : AREA 1.L23 RESIDENT.ROF


Run Time Information


ResOCalc.EXE execution began at 13:08 on 05/04/2016


ResOCalc.EXE execution ended at 13:08 on 05/04/2016


ResOCalc.EXE execution time .894 seconds
```