Foodstuff Concentrations following a SRTC Tritium Oxide Release

by

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Foodstuff Concentrations Following a SRTC Tritium Oxide Release (U)

D.R. Marx

April 1998

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EXECUTIVE SUMMARY

The ingestion pathway consequences following a postulated accidental tritium release from the Savannah River Technology Center are evaluated. The tritium release, part of scenario 1-RD-3, a full facility fire in Building 773-A, was examined for both average and adverse meteorological conditions. Tritium concentrations in vegetables, wheat grain, meat, and milk were calculated using the tritium dispersion and dose assessment model UFOTRI. Under average meteorological conditions, the peak HTO concentrations for all foodstuffs at 1 km and vegetables at 10 km exceed the DIL. At one week, all foodstuffs at 1 km exceed the DIL. After one year, the only foodstuff to exceed the DIL is wheat grain at 0.67 km. For adverse meteorological conditions, the peak HTO concentrations for all foodstuffs at 1 km, wheat grain at 10 km, and vegetables at 50 km, exceed the DIL. At one week, all categories at 1 km and milk at 10 km exceed the DIL. After one year, wheat grain concentrations continue to exceed the DIL at 1 km.

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1.0 INTRODUCTION

Accidental releases of radionuclides from nuclear facilities may cause contamination of food and forage. Numerous pathways exist for deposited radionuclides to reach man. The major pathways considered by recent Food and Drug Administration (FDA) guidance (FDA 1998) are analyzed in this report for a postulated accidental tritium release from the Savannah River Technology Center (SRTC).

2.0 BACKGROUND

The scenario examined and the tritium dispersion and dose assessment model UFOTRI are discussed below.

2.1 Scenario Examined

The release examined for this report is the tritium portion of SRTC release scenario 1-RD-3, a full facility fire in Building 773-A described in Attachments 2, 3, and 5 of S-EHA-A-00001, Rev. 1, Appendix B, Calculation 1 (Hadlock 1997). The particulate portion of the source term is examined in WSRC-TR-99-00090 (Thompson 1999a). The respirable source terms described in the SRTC EPHA are derived from a detailed analysis involving consideration of physical forms and discharging mechanisms. An overall damage ratio (DR) is applied to the overall source term from the Attachments in S-EHA-A-00001, Rev. 1, Appendix B, Calculation 1 (see sheet 8 of 30 for the DR specification). In general, to determine the total release, it is necessary to infer the respirable fraction (RF) from the respirable release source terms. For tritium, the RF is 1.0. The pre-DR source term is derived in S-CLC-A-00104 (Thompson 1999b). The final step is to apply a damage ratio (DR) of 0.75, consistent with the DR assumed for respirable releases in the SRTC EPHA. These quantities are summarized in Table 1 for tritium.

Table 1. Tritium releases for SRTC scenario 1-RD-3, without and with DR applied

Nuclide	Pre-DR airborne release (Ci)	DR=0.75, unmixed total release (Ci)
H3	2.14E+04	1.61E+04

The tritium dispersion and dose assessment model UFOTRI was selected to evaluate the consequences for the tritium release (Section 2.2). Two meteorological conditions – average and 95% adverse – are examined (Hadlock 1997). Table 2 lists the meteorological parameters for each condition.

Table 2. Meteorological conditions for SRTC tritium release (Hadlock 1997)

Parameter	Average Meteorology	95% Adverse Meteorology
Release Height	Ground	Ground
Wind Speed	2.5 m/s	1.7 m/s
Surface Roughness	100 cm	100 cm
Stability class	C	E
Release duration	60 min	60 min
Inversion layer	500 m	200 m

2.2 UFOTRI

The tritium dispersion and dose assessment model UFOTRI (Unfallfolgenmodell für Tritiumfreisetzungen) has been chosen to model the SRTC tritium release. UFOTRI was developed at the German Karlsruhe laboratory to assess the radiological consequences of accidental atmospheric tritium releases (Raskob 1990, 1993). UFOTRI explicitly addresses all applicable biophysics of tritium dispersion, its interaction in the environment, and the ultimate uptake by downwind receptors. UFOTRI realistically models the atmospheric dispersion, resuspension, and downwind deposition of tritium. Additionally, UFOTRI couples the short-term atmospheric dispersion model with a first order compartment module that dynamically describes the long-term behavior of tritium in the environment (Raskob 1990, 1993).

Table 3 provides a listing of some of the additional parameters required in UFOTRI (the input file for the adverse meteorological parameters is located in Appendix A).

Table 3. Additional Input Parameters for UFOTRI

Additional Information		Meteorology	
Chemical Forms	0% HT / 100% HTO	Air temperature	32.22°C
No building wake		No Rainfall	0 mm/h
Initial soil water content	35%	Thermal energy of release	0 cal/sec
Relative humidity	0.8	Wind direction (in degrees)	315
		Dispersion parameters	Briggs
Soil and vegetation		Code coefficients	
Soil type	Sandy loam	HTO dry deposition velocity*	0.5 cm/s
Pore volume (default)	50 %	HT dry deposition velocity*	0.05 cm/s

* Deposition is calculated in UFOTRI without user-specified constants; values are place holders.

3.0 FDA GUIDANCE AND EVALUATION CRITERIA

The Food and Drug Administration (FDA) Derived Intervention Levels (DILs) are limits on the concentrations permitted in human food distributed in commerce to prevent consumption of undesirable amounts of radionuclides and apply in the first year after an accident (FDA 1998). The DIL corresponds to the concentration in food present throughout the relevant period of time that, in the absence of any intervention, could lead to an individual receiving a radiation dose equal to the Protective Action Guide (PAG). The PAGs for the ingestion pathway are 0.5 rem

committed effective dose equivalent or 5 rem committed dose equivalent to an individual tissue or organ, whichever is most limiting.

FDA (1998) places selected radionuclides into five primary groups, each with common characteristics. These groups are:

- Sr-90
- I-131
- Cs-134 + Cs-137
- Pu-238 + Pu-239 + Am-241
- Ru-103 + Ru-106

The five radionuclide groups are not sufficient to cover accidents at all types of facilities or locations. Appendix E of FDA (1998) presents DILs for 15 additional radionuclides. DILs for tritiated water (HTO) and organically bound tritium (OBT) were derived using methodology consistent with FDA (1998) and are listed in Table 4 (Tharakan 1999).

Table 4 Calculated DILs for HTO and OBT

Radionuclide / Group	DIL (Ci/g)	Radionuclide / Group	DIL (Ci/g)
HTO	5.9E-09	OBT	2.4E-09

To evaluate the release, calculated concentrations in vegetables, wheat grain, meat, and milk for multiple distances and times following the release will be compared with the HTO and OBT DILs. Tritium concentrations in grass, although calculated in UFOTRI, were not examined since grass is not directly consumed by humans. However, tritium concentrations in grass are indirectly incorporated via the meat and milk pathways. In all instances, the HTO and OBT concentrations will be summed prior to comparison with the appropriate DIL.

For short-term concentrations, the time at which the peak HTO concentration occurs in each food type will be examined. The summed HTO and OBT concentrations will be compared with the HTO DIL. In the time immediately following the release, the HTO concentration quickly reaches its peak and is the dominant form of tritium present in foodstuffs.

For long-term concentrations, two evaluation times - one week (168 hours) and one year (8760 hours) - will be examined. The OBT DIL will be used for these comparisons because the tritium will be incorporated into carbon compounds that have a greater biological half-life than HTO. For plants, the HTO half-life is approximately one hour while the OBT half-life ranges from 8 hours to over 10 days. Examination of long-term concentrations is useful to determine if intervention is still required.

Concentrations for both the short and long-term will be examined at the site boundary (0.67 km), 1 km, 10 km, 50 km, and 100 km from the release. The site boundary concentrations may be used to determine if any intervention will be necessary. The 100 km value is used for comparison with the particulate concentrations. (The code used to calculate concentrations for particulates, HOTSPOT, calculates up to a maximum distance of 100 km.) The remaining distances are chosen for additional examination.

4.0 RESULTS

Calculated tritium concentrations for average and adverse meteorological conditions are presented in Tables 5 to 7 and 8 to 10, respectively (summarized from Appendix B). Concentrations listed are the sum of the HTO and OBT concentrations. Values in bold surpass the appropriate DIL. Peak HTO concentrations are reached between 1 and 50 hours following the release, depending upon distance from the release, atmospheric conditions, and transport time.

Table 5. Tritium Concentrations for Average Meteorological Conditions (Max HTO)

Pathway	DIL Ci/g	0.67 km Ci/g	1 km Ci/g	10 km Ci/g	50 km Ci/g	100 km Ci/g
Vegetable	5.9E-09	3.8E-07	2.0E-07	9.2E-09	2.0E-09	7.4E-10
Wheat grain	5.9E-09	2.1E-07	1.1E-07	5.6E-09	1.5E-09	7.0E-10
Meat	5.9E-09	1.8E-08	9.3E-09	4.8E-10	3.0E-11	2.7E-11
Milk	5.9E-09	2.2E-08	1.2E-08	6.1E-10	3.9E-11	3.4E-11

Table 6. Tritium Concentrations for Average Meteorological Conditions (1 week)

Pathway	DIL Ci/g	0.67 km Ci/g	1 km Ci/g	10 km Ci/g	50 km Ci/g	100 km Ci/g
Vegetable	2.4E-09	6.7E-09	3.6E-09	2.1E-10	6.1E-11	3.4E-11
Wheat grain	2.4E-09	4.7E-09	2.6E-09	1.5E-10	4.4E-11	2.5E-11
Meat	2.4E-09	7.7E-09	4.1E-09	2.3E-10	4.7E-11	2.8E-11
Milk	2.4E-09	1.4E-08	7.7E-09	4.4E-10	9.3E-11	5.4E-11

Table 7. Tritium Concentrations for Average Meteorological Conditions (1 year)

Pathway	DIL Ci/g	0.67 km Ci/g	1 km Ci/g	10 km Ci/g	50 km Ci/g	100 km Ci/g
Vegetable	2.4E-09	4.8E-13	2.6E-13	1.4E-14	4.0E-15	2.2E-15
Wheat grain	2.4E-09	3.1E-09	1.7E-09	9.7E-11	2.9E-11	1.6E-11
Meat	2.4E-09	9.2E-12	5.0E-12	2.8E-13	7.9E-14	4.4E-14
Milk	2.4E-09	1.5E-11	8.0E-12	4.5E-13	1.3E-13	6.9E-14

Table 8. Tritium Concentrations for Adverse Meteorological Conditions (Max HTO)

Pathway	DIL Ci/g	0.67 km Ci/g	1 km Ci/g	10 km Ci/g	50 km Ci/g	100 km Ci/g
Vegetable	5.9E-09	3.0E-06	1.7E-06	7.1E-08	8.7E-09	2.5E-09
Wheat grain	5.9E-09	9.4E-07	5.4E-07	2.2E-08	3.9E-09	1.1E-09
Meat	5.9E-09	1.1E-07	6.5E-08	2.5E-09	2.9E-10	1.1E-10
Milk	5.9E-09	1.4E-07	8.2E-08	3.1E-09	3.6E-10	1.8E-10

Table 9. Tritium Concentrations for Adverse Meteorological Conditions (1 week)

Pathway	DIL Ci/g	0.67 km Ci/g	1 km Ci/g	10 km Ci/g	50 km Ci/g	100 km Ci/g
Vegetable	2.4E-09	4.8E-08	2.9E-08	1.6E-09	3.3E-10	1.3E-10
Wheat grain	2.4E-09	2.5E-08	1.5E-08	9.5E-10	2.3E-10	1.1E-10
Meat	2.4E-09	5.1E-08	3.1E-08	1.6E-09	2.8E-10	1.5E-10
Milk	2.4E-09	8.7E-08	5.2E-08	2.8E-09	5.2E-10	2.6E-10

Table 10. Tritium Concentrations for Adverse Meteorological Conditions (1 year)

Pathway	DIL	0.67 km	1 km	10 km	50 km	100 km
	Ci/g	Ci/g	Ci/g	Ci/g	Ci/g	Ci/g
Vegetable	2.4E-09	2.3E-12	1.4E-12	7.4E-14	1.5E-14	5.4E-15
Wheat grain	2.4E-09	1.7E-08	1.0E-08	5.7E-10	1.3E-10	5.2E-11
Meat	2.4E-09	5.1E-11	3.1E-11	1.7E-12	3.5E-13	1.5E-13
Milk	2.4E-09	7.7E-11	4.7E-11	2.5E-12	5.4E-13	2.2E-13

5.0 CONCLUSIONS

Tritium concentrations have been calculated for vegetables, wheat grain, meat, and milk under average and adverse meteorological conditions for a postulated full facility fire in SRTC. Peak HTO, one week, and one year concentrations were evaluated and compared with the DILs. Values in Tables 5 to 10 indicate the concentrations, in bold, where the DILs are exceeded.

When the time and distance dependent foodstuff tritium concentrations are compared with the appropriate DILs, the following relationships are noted for each meteorological condition. Under average meteorological conditions, defined as persistent C atmospheric stability and 2.5 m/s windspeed:

- Peak HTO concentrations exceed the DIL for all foodstuffs at 1 km and vegetables at 10 km
- One week concentrations exceed the DIL for all foodstuffs at 1 km
- At one year, only the concentration of tritium in wheat grain at 0.67 km (site boundary) exceeds the DIL

Under adverse meteorological conditions, defined as persistent E atmospheric stability and 1.7 m/s windspeed:

- Peak HTO concentrations exceed the DIL for all foodstuffs at 1 km, wheat grain at 10 km, and vegetables at 50 km
- One week concentrations exceed the DIL for all foodstuffs at 1 km and milk at 10 km
- At one year, the concentration in wheat grain exceeds the DIL at 1 km.

6.0 REFERENCES

- FDA (1998). *Accidental Contamination of Human Foods and Animal Feeds: Recommendations for States and Local Agencies*. Food and Drug Administration, Rockville, MD.
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APPENDIX A UFOTRI INPUT DECK FOR SRTC RELEASE - AVERAGE MET CONDITIONS

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& SIGMA PARAMETER: BRIGGS PARAM DATA SET: IPZ and F 1 *
& RELEASE HEIGHT: 0M 5.96E14Bq IPZAVG *
& 2045 POP. OUT TO 80.5 KM NSHFT=2 3/31/99 NSTOP=168 *
& RCMIN=7 PER CH. E. MURPHY CASE 10 0m - STACK 1 M X 1 M *
POLGRID
&GRDPAR
IMAX=13,JMAX=72,
R= 100., 500., 670., 800., 1000., 3500., 5000., 7500., 10000., 30000.,
50000., 75000., 100000.
RA= 350., 660., 680., 990., 1010., 4950., 5050., 9900., 10100., 49900.,
50100., 99900., 100100.
&END
ISOTOPE
&ISOPAR
NABL=2,
VA=5.E-4,0.005,
IWASH=0
&END
SOURCE
IPZADV          1          1          0
                0          0  0.000E0  1.000E0  1.000E0
METEOZON
SRSHSTOST      1          1          0          1          2          10          0
4332
00HOMOGEN      2  1.00E- 0
5.69E+01      3
                0          0          0
                0          0          0
.
.
. (total of 72 lines)
                0          0          0
                0          0          0
PRINTOUT
&OUTPAR
NOOTKZ=1,NOOTMT=1,
IACT=13*1
&END
METEOROL
&METPAR
METIN=1,IWNR=315,IWNRG=250,IWNRN=0,IDIAT=3,
KLUGSI=2, IRELTS=1, RELTA=10., RELTN=60., RELTP=0.20,
IRELRS=1, RELRA=3., RELRN=100.,
NOSHFT=2,MIXLH=1600,1200,500,400,200,150,
WPE=0.08, 0.10, 0.11, 0.18, 0.31, 0.42
&END
END
&TRIDAT
NJAHRE=1,LWETE=3000,INUKL=2,IPRPLT=1,IWRITE=0,
IDMP=1,IDMPMX=13,JDMP=1,JDMPMX=72,IFACHS=28,
IEINR1=1,IEINR2=3,IEINR3=11,IEINR4=13,
LT1=1,LT2=365,LT3=366,LT4=730,

```

NSTOP=70,BODFAK=1.E+2,REMRE=0.3,IZFREI=3600,IFLENG=0,BODEIN=0.35,
IRFIX=0,REFEST=5.0,ITEMPE=3222,ISTRBE=200,ISTRGR=200,
RELFA=0.8,ARAU=0.1,
IZUSD=0,IZUAUS=0,KAUSDR=0,1,0,0,0,0,0,0,0,0,0,0,0,
Q(2,1)=1.0,Q(1,1)=0.0,Q1=5.96E14,
NBOX=10,NINI=10,NINT=10,NOUT=10,NTIM=3,ITIMD=9,NCOW=250,
WWCOW=350.,WOCOW=150.
TIMEDO=0.,3.,7.,14.,21.,30.,90.,180.,200.,365.,370.,3650.,
FAKC1=0.5,FAKC2=0.35,FAKCP=0.05,FAKCW=0.1,
RCMIN=7.,LEAF=5.,BEWG=269.,BEWGZ=156.,
RCMIN2=2.,LEAF2=3.,BEWG2=680.,BEWGZ2=170.,
RCMINP=2.,LEAFP=4.7,BEWGP=2700.,BEWGZP=300.,
RCMINW=2.,LEAFW=7.,BEGW=2000.,BEGWZ=500.,
IPOT=233,IWHEAT=261,IMILK=315,IVEGE=124,IMEAT=206,DOSF=1.7E-11,
DOSHT=1.7E-15,DOSFOB=4.0E-11,BRRATE=3.33E-4,SKRATE=1.665E-04,
IMODEL=1,IARTBO=2,WILTP=0.1,SOILMX=0.5,IBODEX=1,
IMONT=1,IRRIGA=0,IRRIGG=0,IFLAGS=1,IFLAGR=1,IDEPHT=1,
IBODFX=0,ICOVER=1,IRELIN=181,IPHOTO=1,IARIV=0
&END

APPENDIX B RADIONUCLIDE CONCENTRATIONS IN FOODSTUFFS

SRTC Release Scenario 1-RD-3, Average Met Conditions								
Concentration Values for 670 m from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	1.39E+04	7.37E+01	5.02E+03	1.91E+01	3.59E+02	7.63E-02	4.35E+01	1.93E+01
2	5.64E+03	9.84E+01	7.18E+03	3.29E+01	5.15E+02	1.88E-01	9.41E+01	4.20E+01
3	2.92E+03	1.08E+02	7.59E+03	4.25E+01	5.93E+02	3.18E-01	1.42E+02	6.37E+01
4	1.94E+03	1.14E+02	7.10E+03	4.91E+01	6.33E+02	4.56E-01	1.85E+02	8.31E+01
5	1.53E+03	1.17E+02	6.22E+03	5.36E+01	6.56E+02	6.01E-01	2.23E+02	1.00E+02
6	1.34E+03	1.19E+02	5.24E+03	5.68E+01	6.51E+02	6.70E-01	6.31E+02	1.97E+02
7	1.23E+03	1.22E+02	4.33E+03	5.92E+01	6.46E+02	7.39E-01	6.29E+02	1.96E+02
8	1.15E+03	1.24E+02	3.52E+03	6.09E+01	6.41E+02	8.08E-01	6.26E+02	1.95E+02
9	1.09E+03	1.26E+02	2.86E+03	6.23E+01	6.36E+02	8.76E-01	6.24E+02	1.94E+02
10	1.04E+03	1.27E+02	2.32E+03	6.34E+01	6.32E+02	9.43E-01	6.22E+02	1.94E+02
11	9.96E+02	1.29E+02	1.89E+03	6.44E+01	6.27E+02	1.01E+00	6.19E+02	1.93E+02
12	9.58E+02	1.31E+02	1.56E+03	6.53E+01	6.22E+02	1.08E+00	6.17E+02	1.92E+02
13	9.23E+02	1.32E+02	1.30E+03	6.60E+01	6.17E+02	1.14E+00	6.14E+02	1.92E+02
14	8.90E+02	1.34E+02	1.10E+03	6.67E+01	6.12E+02	1.21E+00	6.12E+02	1.91E+02
15	8.59E+02	1.35E+02	9.49E+02	6.73E+01	6.07E+02	1.27E+00	6.10E+02	1.90E+02
16	8.30E+02	1.36E+02	8.30E+02	6.79E+01	6.02E+02	1.34E+00	6.07E+02	1.89E+02
17	8.02E+02	1.38E+02	7.37E+02	6.85E+01	5.98E+02	1.40E+00	6.05E+02	1.89E+02
18	7.76E+02	1.39E+02	6.64E+02	6.91E+01	6.01E+02	1.55E+00	5.82E+02	2.90E+02
19	7.50E+02	1.40E+02	6.06E+02	6.96E+01	6.04E+02	1.71E+00	5.84E+02	2.91E+02
20	7.26E+02	1.41E+02	5.58E+02	7.01E+01	6.06E+02	1.86E+00	5.85E+02	2.92E+02
21	7.02E+02	1.42E+02	5.19E+02	7.05E+01	6.09E+02	2.02E+00	5.86E+02	2.92E+02
22	6.78E+02	1.44E+02	4.86E+02	7.10E+01	6.11E+02	2.17E+00	5.88E+02	2.93E+02
23	6.56E+02	1.45E+02	4.58E+02	7.14E+01	6.13E+02	2.33E+00	5.89E+02	2.94E+02
24	6.35E+02	1.46E+02	4.33E+02	7.18E+01	6.14E+02	2.48E+00	5.89E+02	2.94E+02
25	6.15E+02	1.47E+02	4.11E+02	7.22E+01	6.15E+02	2.64E+00	5.90E+02	2.95E+02
26	5.96E+02	1.47E+02	3.92E+02	7.26E+01	6.16E+02	2.80E+00	5.91E+02	2.95E+02
27	5.77E+02	1.48E+02	3.73E+02	7.30E+01	6.17E+02	2.96E+00	5.92E+02	2.96E+02
28	5.58E+02	1.49E+02	3.57E+02	7.33E+01	6.18E+02	3.12E+00	5.92E+02	2.96E+02
29	5.41E+02	1.50E+02	3.41E+02	7.37E+01	6.18E+02	3.27E+00	5.93E+02	2.97E+02
30	5.25E+02	1.51E+02	3.26E+02	7.40E+01	6.13E+02	3.34E+00	5.94E+02	1.86E+02
31	4.96E+02	1.51E+02	3.13E+02	7.43E+01	6.08E+02	3.40E+00	5.92E+02	1.85E+02
32	4.79E+02	1.52E+02	2.98E+02	7.46E+01	6.03E+02	3.46E+00	5.89E+02	1.84E+02
33	4.65E+02	1.53E+02	2.84E+02	7.49E+01	5.98E+02	3.53E+00	5.87E+02	1.83E+02
34	4.53E+02	1.53E+02	2.70E+02	7.51E+01	5.93E+02	3.59E+00	5.85E+02	1.83E+02
35	4.42E+02	1.54E+02	2.58E+02	7.54E+01	5.88E+02	3.65E+00	5.82E+02	1.82E+02
36	4.31E+02	1.55E+02	2.47E+02	7.56E+01	5.84E+02	3.71E+00	5.80E+02	1.81E+02
37	4.21E+02	1.55E+02	2.36E+02	7.59E+01	5.79E+02	3.77E+00	5.77E+02	1.81E+02

38	4.13E+02	1.56E+02	2.26E+02	7.61E+01	5.74E+02	3.83E+00	5.75E+02	1.80E+02
39	4.05E+02	1.56E+02	2.18E+02	7.63E+01	5.69E+02	3.89E+00	5.73E+02	1.79E+02
40	3.97E+02	1.57E+02	2.10E+02	7.65E+01	5.65E+02	3.94E+00	5.70E+02	1.78E+02
41	3.90E+02	1.57E+02	2.03E+02	7.67E+01	5.60E+02	4.00E+00	5.68E+02	1.78E+02
42	3.83E+02	1.58E+02	1.96E+02	7.69E+01	5.59E+02	4.16E+00	5.42E+02	2.90E+02
43	3.76E+02	1.58E+02	1.90E+02	7.71E+01	5.58E+02	4.31E+00	5.41E+02	2.90E+02
44	3.70E+02	1.59E+02	1.84E+02	7.73E+01	5.57E+02	4.47E+00	5.41E+02	2.89E+02
45	3.51E+02	1.59E+02	1.79E+02	7.75E+01	5.56E+02	4.63E+00	5.41E+02	2.89E+02
46	3.43E+02	1.60E+02	1.73E+02	7.77E+01	5.55E+02	4.78E+00	5.40E+02	2.89E+02
47	3.38E+02	1.60E+02	1.66E+02	7.79E+01	5.54E+02	4.94E+00	5.39E+02	2.89E+02
48	3.31E+02	1.60E+02	1.60E+02	7.80E+01	5.52E+02	5.09E+00	5.39E+02	2.89E+02
49	3.27E+02	1.61E+02	1.54E+02	7.82E+01	5.51E+02	5.25E+00	5.38E+02	2.89E+02
50	3.23E+02	1.61E+02	1.49E+02	7.83E+01	5.50E+02	5.40E+00	5.38E+02	2.89E+02
51	3.20E+02	1.61E+02	1.45E+02	7.85E+01	5.48E+02	5.56E+00	5.37E+02	2.89E+02
52	3.17E+02	1.62E+02	1.41E+02	7.86E+01	5.47E+02	5.71E+00	5.36E+02	2.89E+02
53	3.15E+02	1.62E+02	1.37E+02	7.88E+01	5.45E+02	5.87E+00	5.36E+02	2.88E+02
54	3.12E+02	1.63E+02	1.34E+02	7.89E+01	5.41E+02	5.92E+00	5.24E+02	1.64E+02
55	3.09E+02	1.63E+02	1.32E+02	7.90E+01	5.36E+02	5.97E+00	5.22E+02	1.64E+02
56	3.07E+02	1.63E+02	1.29E+02	7.92E+01	5.32E+02	6.03E+00	5.20E+02	1.63E+02
57	3.05E+02	1.64E+02	1.27E+02	7.93E+01	5.27E+02	6.08E+00	5.18E+02	1.62E+02
58	3.02E+02	1.64E+02	1.26E+02	7.95E+01	5.23E+02	6.13E+00	5.15E+02	1.62E+02
59	3.00E+02	1.64E+02	1.24E+02	7.96E+01	5.19E+02	6.18E+00	5.13E+02	1.61E+02
60	2.98E+02	1.64E+02	1.22E+02	7.97E+01	5.14E+02	6.23E+00	5.11E+02	1.60E+02
61	2.96E+02	1.65E+02	1.21E+02	7.98E+01	5.10E+02	6.28E+00	5.09E+02	1.60E+02
62	2.94E+02	1.65E+02	1.20E+02	8.00E+01	5.06E+02	6.33E+00	5.07E+02	1.59E+02
63	2.92E+02	1.65E+02	1.18E+02	8.01E+01	5.02E+02	6.38E+00	5.05E+02	1.58E+02
64	2.90E+02	1.66E+02	1.17E+02	8.02E+01	4.97E+02	6.43E+00	5.03E+02	1.58E+02
65	2.88E+02	1.66E+02	1.16E+02	8.04E+01	4.93E+02	6.48E+00	5.01E+02	1.57E+02
66	2.86E+02	1.66E+02	1.15E+02	8.05E+01	4.92E+02	6.63E+00	4.77E+02	2.73E+02
67	2.84E+02	1.67E+02	1.14E+02	8.06E+01	4.91E+02	6.78E+00	4.76E+02	2.73E+02
68	2.82E+02	1.67E+02	1.13E+02	8.07E+01	4.89E+02	6.93E+00	4.75E+02	2.73E+02
69	2.81E+02	1.67E+02	1.12E+02	8.09E+01	4.88E+02	7.08E+00	4.75E+02	2.73E+02
168	8.16E+01	1.68E+02	8.48E+01	9.03E+01	2.64E+02	1.97E+01	3.10E+02	2.20E+02
336	4.66E+01	1.42E+02	4.74E+01	9.70E+01	1.14E+02	3.38E+01	1.72E+02	1.61E+02
504	3.49E+01	1.19E+02	3.30E+01	1.01E+02	5.82E+01	4.15E+01	7.96E+01	1.11E+02
720	2.56E+01	9.42E+01	2.23E+01	1.05E+02	3.03E+01	4.56E+01	4.10E+01	7.79E+01
2160	4.84E+00	1.92E+01	2.53E+00	1.12E+02	2.78E+00	2.68E+01	9.59E+00	2.71E+01
4320	4.65E-01	1.77E+00	1.27E+01	1.06E+02	4.75E-01	6.43E+00	1.20E+00	4.30E+00
4800	2.77E-01	1.05E+00	1.26E+01	1.06E+02	3.46E-01	4.63E+00	4.07E-01	1.42E+00
8760	3.80E-03	1.39E-02	1.23E+01	1.03E+02	2.88E-02	3.12E-01	1.28E-01	4.20E-01
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOURL	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								
1/3/5/6	1.39E+04	7.37E+01	7.59E+03	4.25E+01	6.56E+02	6.01E-01	6.31E+02	1.97E+02
SUM	1.40E+04		7.64E+03		6.57E+02		8.28E+02	
Ci/g	3.77E-07		2.06E-07		1.77E-08		2.24E-08	

DIL HTO	5.9E-09							
(Ci/g)								
168	8.16E+01	1.68E+02	8.48E+01	9.03E+01	2.64E+02	1.97E+01	3.10E+02	2.20E+02
SUM	2.49E+02		1.75E+02		2.84E+02		5.31E+02	
Ci/g	6.73E-09		4.73E-09		7.67E-09		1.43E-08	
DIL OBT	2.4E-09							
Ci/g								
8760	3.80E-03	1.39E-02	1.23E+01	1.03E+02	2.88E-02	3.12E-01	1.28E-01	4.20E-01
SUM	1.77E-02		1.16E+02		3.41E-01		5.48E-01	
Ci/g	4.79E-13		3.12E-09		9.20E-12		1.48E-11	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Average Met Conditions								
Concentration Values for 1 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	7.43E+03	3.76E+01	2.56E+03	9.75E+00	1.83E+02	3.89E-02	2.22E+01	9.83E+00
2	3.16E+03	5.08E+01	3.70E+03	1.69E+01	2.66E+02	9.66E-02	4.84E+01	2.16E+01
3	1.69E+03	5.64E+01	3.95E+03	2.20E+01	3.08E+02	1.64E-01	7.34E+01	3.29E+01
4	1.14E+03	5.94E+01	3.72E+03	2.55E+01	3.31E+02	2.36E-01	9.59E+01	4.30E+01
5	9.08E+02	6.13E+01	3.28E+03	2.80E+01	3.44E+02	3.12E-01	1.16E+02	5.20E+01
6	7.92E+02	6.29E+01	2.79E+03	2.98E+01	3.42E+02	3.49E-01	3.31E+02	1.03E+02
7	7.23E+02	6.42E+01	2.32E+03	3.11E+01	3.39E+02	3.85E-01	3.30E+02	1.03E+02
8	6.76E+02	6.54E+01	1.90E+03	3.21E+01	3.37E+02	4.21E-01	3.29E+02	1.02E+02
9	6.41E+02	6.65E+01	1.56E+03	3.29E+01	3.34E+02	4.56E-01	3.28E+02	1.02E+02
10	6.12E+02	6.76E+01	1.28E+03	3.36E+01	3.32E+02	4.92E-01	3.26E+02	1.02E+02
11	5.87E+02	6.86E+01	1.05E+03	3.41E+01	3.29E+02	5.27E-01	3.25E+02	1.01E+02
12	5.64E+02	6.96E+01	8.75E+02	3.46E+01	3.27E+02	5.62E-01	3.24E+02	1.01E+02
13	5.43E+02	7.05E+01	7.38E+02	3.51E+01	3.24E+02	5.96E-01	3.23E+02	1.01E+02
14	5.24E+02	7.14E+01	6.32E+02	3.55E+01	3.22E+02	6.30E-01	3.21E+02	1.00E+02
15	5.06E+02	7.22E+01	5.49E+02	3.59E+01	3.19E+02	6.64E-01	3.20E+02	9.98E+01
16	4.89E+02	7.30E+01	4.85E+02	3.62E+01	3.17E+02	6.98E-01	3.19E+02	9.94E+01
17	4.72E+02	7.38E+01	4.34E+02	3.66E+01	3.14E+02	7.31E-01	3.18E+02	9.90E+01
18	4.57E+02	7.45E+01	3.94E+02	3.69E+01	3.16E+02	8.12E-01	3.07E+02	1.54E+02
19	4.42E+02	7.53E+01	3.61E+02	3.72E+01	3.18E+02	8.94E-01	3.08E+02	1.54E+02
20	4.23E+02	7.59E+01	3.35E+02	3.75E+01	3.20E+02	9.77E-01	3.09E+02	1.55E+02
21	4.08E+02	7.66E+01	3.12E+02	3.78E+01	3.22E+02	1.06E+00	3.09E+02	1.55E+02
22	3.93E+02	7.72E+01	2.93E+02	3.81E+01	3.23E+02	1.14E+00	3.10E+02	1.56E+02
23	3.80E+02	7.78E+01	2.76E+02	3.84E+01	3.25E+02	1.23E+00	3.11E+02	1.56E+02
24	3.67E+02	7.84E+01	2.61E+02	3.86E+01	3.26E+02	1.31E+00	3.12E+02	1.57E+02
25	3.55E+02	7.90E+01	2.47E+02	3.88E+01	3.27E+02	1.40E+00	3.12E+02	1.57E+02
26	3.44E+02	7.95E+01	2.35E+02	3.91E+01	3.28E+02	1.48E+00	3.13E+02	1.57E+02
27	3.23E+02	8.00E+01	2.24E+02	3.93E+01	3.28E+02	1.56E+00	3.13E+02	1.58E+02
28	3.10E+02	8.05E+01	2.12E+02	3.95E+01	3.29E+02	1.65E+00	3.14E+02	1.58E+02
29	2.99E+02	8.09E+01	2.01E+02	3.97E+01	3.29E+02	1.74E+00	3.14E+02	1.58E+02
30	2.90E+02	8.14E+01	1.91E+02	3.99E+01	3.27E+02	1.77E+00	3.16E+02	9.89E+01
31	2.79E+02	8.18E+01	1.81E+02	4.01E+01	3.24E+02	1.80E+00	3.15E+02	9.85E+01
32	2.70E+02	8.22E+01	1.72E+02	4.02E+01	3.21E+02	1.84E+00	3.14E+02	9.81E+01
33	2.62E+02	8.25E+01	1.64E+02	4.04E+01	3.19E+02	1.87E+00	3.13E+02	9.77E+01
34	2.55E+02	8.29E+01	1.56E+02	4.05E+01	3.16E+02	1.90E+00	3.11E+02	9.73E+01
35	2.48E+02	8.32E+01	1.49E+02	4.07E+01	3.13E+02	1.93E+00	3.10E+02	9.69E+01
36	2.42E+02	8.36E+01	1.42E+02	4.08E+01	3.11E+02	1.97E+00	3.09E+02	9.65E+01
37	2.32E+02	8.39E+01	1.36E+02	4.09E+01	3.08E+02	2.00E+00	3.08E+02	9.61E+01
38	2.26E+02	8.42E+01	1.30E+02	4.11E+01	3.06E+02	2.03E+00	3.06E+02	9.57E+01

39	2.21E+02	8.45E+01	1.24E+02	4.12E+01	3.03E+02	2.06E+00	3.05E+02	9.54E+01
40	2.16E+02	8.48E+01	1.19E+02	4.13E+01	3.01E+02	2.09E+00	3.04E+02	9.50E+01
41	2.12E+02	8.50E+01	1.14E+02	4.14E+01	2.98E+02	2.12E+00	3.03E+02	9.46E+01
42	1.99E+02	8.53E+01	1.10E+02	4.15E+01	2.98E+02	2.21E+00	2.89E+02	1.55E+02
43	1.94E+02	8.55E+01	1.05E+02	4.16E+01	2.97E+02	2.29E+00	2.88E+02	1.55E+02
44	1.90E+02	8.58E+01	9.95E+01	4.17E+01	2.97E+02	2.37E+00	2.88E+02	1.55E+02
45	1.85E+02	8.60E+01	9.50E+01	4.18E+01	2.96E+02	2.46E+00	2.88E+02	1.55E+02
46	1.82E+02	8.62E+01	9.07E+01	4.19E+01	2.96E+02	2.54E+00	2.88E+02	1.55E+02
47	1.80E+02	8.64E+01	8.68E+01	4.20E+01	2.95E+02	2.63E+00	2.87E+02	1.55E+02
48	1.76E+02	8.66E+01	8.34E+01	4.21E+01	2.94E+02	2.71E+00	2.87E+02	1.55E+02
49	1.74E+02	8.68E+01	8.02E+01	4.22E+01	2.93E+02	2.79E+00	2.87E+02	1.55E+02
50	1.72E+02	8.70E+01	7.75E+01	4.23E+01	2.93E+02	2.88E+00	2.86E+02	1.55E+02
51	1.70E+02	8.72E+01	7.51E+01	4.23E+01	2.92E+02	2.96E+00	2.86E+02	1.55E+02
52	1.69E+02	8.74E+01	7.30E+01	4.24E+01	2.91E+02	3.04E+00	2.86E+02	1.55E+02
53	1.67E+02	8.76E+01	7.12E+01	4.25E+01	2.90E+02	3.12E+00	2.85E+02	1.55E+02
54	1.66E+02	8.78E+01	6.97E+01	4.26E+01	2.88E+02	3.15E+00	2.79E+02	8.75E+01
55	1.65E+02	8.80E+01	6.84E+01	4.26E+01	2.85E+02	3.18E+00	2.78E+02	8.71E+01
56	1.63E+02	8.81E+01	6.73E+01	4.27E+01	2.83E+02	3.21E+00	2.77E+02	8.68E+01
57	1.62E+02	8.83E+01	6.62E+01	4.28E+01	2.81E+02	3.24E+00	2.76E+02	8.64E+01
58	1.61E+02	8.85E+01	6.53E+01	4.28E+01	2.78E+02	3.27E+00	2.74E+02	8.61E+01
59	1.60E+02	8.87E+01	6.45E+01	4.29E+01	2.76E+02	3.29E+00	2.73E+02	8.57E+01
60	1.59E+02	8.88E+01	6.38E+01	4.30E+01	2.74E+02	3.32E+00	2.72E+02	8.54E+01
61	1.58E+02	8.90E+01	6.31E+01	4.30E+01	2.71E+02	3.35E+00	2.71E+02	8.50E+01
62	1.57E+02	8.92E+01	6.24E+01	4.31E+01	2.69E+02	3.37E+00	2.70E+02	8.47E+01
63	1.56E+02	8.93E+01	6.18E+01	4.32E+01	2.67E+02	3.40E+00	2.69E+02	8.43E+01
64	1.55E+02	8.95E+01	6.12E+01	4.32E+01	2.65E+02	3.43E+00	2.68E+02	8.40E+01
65	1.54E+02	8.96E+01	6.06E+01	4.33E+01	2.63E+02	3.45E+00	2.67E+02	8.36E+01
66	1.53E+02	8.98E+01	6.01E+01	4.34E+01	2.62E+02	3.53E+00	2.54E+02	1.46E+02
67	1.52E+02	8.99E+01	5.96E+01	4.34E+01	2.61E+02	3.61E+00	2.53E+02	1.46E+02
68	1.51E+02	9.01E+01	5.91E+01	4.35E+01	2.60E+02	3.69E+00	2.53E+02	1.46E+02
69	1.50E+02	9.02E+01	5.86E+01	4.36E+01	2.60E+02	3.77E+00	2.53E+02	1.46E+02
168	4.41E+01	9.04E+01	4.59E+01	4.86E+01	1.41E+02	1.05E+01	1.65E+02	1.18E+02
336	2.52E+01	7.66E+01	2.56E+01	5.22E+01	6.12E+01	1.81E+01	9.20E+01	8.68E+01
504	1.88E+01	6.42E+01	1.79E+01	5.45E+01	3.13E+01	2.23E+01	4.28E+01	5.96E+01
720	1.38E+01	5.08E+01	1.21E+01	5.65E+01	1.63E+01	2.46E+01	2.21E+01	4.20E+01
2160	2.61E+00	1.04E+01	1.37E+00	6.05E+01	1.50E+00	1.44E+01	5.17E+00	1.46E+01
4320	2.51E-01	9.57E-01	6.86E+00	5.72E+01	2.56E-01	3.46E+00	6.43E-01	2.32E+00
4800	1.49E-01	5.65E-01	6.83E+00	5.71E+01	1.86E-01	2.49E+00	2.19E-01	7.64E-01
8760	2.05E-03	7.51E-03	6.66E+00	5.56E+01	1.55E-02	1.68E-01	6.86E-02	2.26E-01
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

1/3/5/6	7.43E+03	3.76E+01	3.95E+03	2.20E+01	3.44E+02	3.12E-01	3.31E+02	1.03E+02
SUM	7.47E+03		3.97E+03		3.45E+02		4.34E+02	
Ci/g	2.02E-07		1.07E-07		9.31E-09		1.17E-08	
DIL HTO	5.9E-09							
(Ci/g)								
168	4.41E+01	9.04E+01	4.59E+01	4.86E+01	1.41E+02	1.05E+01	1.65E+02	1.18E+02
SUM	1.35E+02		9.45E+01		1.52E+02		2.84E+02	
Ci/g	3.64E-09		2.55E-09		4.10E-09		7.66E-09	
DIL OBT	2.4E-09							
Ci/g								
8760	2.05E-03	7.51E-03	6.66E+00	5.56E+01	1.55E-02	1.68E-01	6.86E-02	2.26E-01
SUM	9.56E-03		6.23E+01		1.83E-01		2.95E-01	
Ci/g	2.58E-13		1.68E-09		4.95E-12		7.97E-12	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Average Met Conditions								
Concentration Values for 10 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	1.82E+02	3.49E-01	2.38E+01	9.05E-02	1.81E+00	3.73E-04	2.19E-01	9.52E-02
2	3.37E+02	2.20E+00	1.51E+02	6.02E-01	1.08E+01	2.69E-03	1.36E+00	6.03E-01
3	1.41E+02	2.79E+00	2.01E+02	9.60E-01	1.48E+01	5.90E-03	2.66E+00	1.19E+00
4	8.09E+01	3.04E+00	2.07E+02	1.21E+00	1.67E+01	9.55E-03	3.89E+00	1.74E+00
5	5.96E+01	3.18E+00	1.92E+02	1.38E+00	1.78E+01	1.35E-02	5.00E+00	2.24E+00
6	5.05E+01	3.29E+00	1.68E+02	1.50E+00	1.77E+01	1.53E-02	1.71E+01	5.33E+00
7	4.56E+01	3.37E+00	1.43E+02	1.59E+00	1.75E+01	1.72E-02	1.71E+01	5.31E+00
8	4.26E+01	3.45E+00	1.19E+02	1.66E+00	1.74E+01	1.91E-02	1.70E+01	5.30E+00
9	4.03E+01	3.52E+00	9.83E+01	1.72E+00	1.73E+01	2.09E-02	1.69E+01	5.28E+00
10	3.85E+01	3.59E+00	8.12E+01	1.76E+00	1.72E+01	2.28E-02	1.69E+01	5.26E+00
11	3.69E+01	3.65E+00	6.74E+01	1.80E+00	1.70E+01	2.46E-02	1.68E+01	5.24E+00
12	3.55E+01	3.71E+00	5.64E+01	1.83E+00	1.69E+01	2.64E-02	1.68E+01	5.22E+00
13	3.43E+01	3.77E+00	4.78E+01	1.86E+00	1.68E+01	2.82E-02	1.67E+01	5.20E+00
14	3.31E+01	3.83E+00	4.10E+01	1.89E+00	1.67E+01	2.99E-02	1.66E+01	5.18E+00
15	3.20E+01	3.88E+00	3.58E+01	1.92E+00	1.65E+01	3.17E-02	1.66E+01	5.16E+00
16	3.10E+01	3.94E+00	3.17E+01	1.94E+00	1.64E+01	3.34E-02	1.65E+01	5.14E+00
17	3.00E+01	3.99E+00	2.85E+01	1.96E+00	1.63E+01	3.52E-02	1.65E+01	5.13E+00
18	2.91E+01	4.03E+00	2.59E+01	1.98E+00	1.65E+01	3.95E-02	1.60E+01	8.12E+00
19	2.82E+01	4.08E+00	2.38E+01	2.01E+00	1.66E+01	4.39E-02	1.60E+01	8.16E+00
20	2.72E+01	4.13E+00	2.22E+01	2.03E+00	1.68E+01	4.83E-02	1.61E+01	8.20E+00
21	2.64E+01	4.17E+00	2.07E+01	2.04E+00	1.69E+01	5.27E-02	1.62E+01	8.24E+00
22	2.55E+01	4.21E+00	1.95E+01	2.06E+00	1.70E+01	5.72E-02	1.62E+01	8.27E+00
23	2.46E+01	4.25E+00	1.85E+01	2.08E+00	1.72E+01	6.17E-02	1.63E+01	8.31E+00
24	2.38E+01	4.29E+00	1.76E+01	2.10E+00	1.73E+01	6.63E-02	1.64E+01	8.34E+00
25	2.31E+01	4.33E+00	1.67E+01	2.11E+00	1.74E+01	7.09E-02	1.64E+01	8.37E+00
26	2.23E+01	4.36E+00	1.60E+01	2.13E+00	1.75E+01	7.55E-02	1.65E+01	8.40E+00
27	2.16E+01	4.40E+00	1.53E+01	2.15E+00	1.75E+01	8.01E-02	1.65E+01	8.43E+00
28	2.08E+01	4.43E+00	1.46E+01	2.16E+00	1.76E+01	8.47E-02	1.66E+01	8.45E+00
29	2.01E+01	4.46E+00	1.40E+01	2.17E+00	1.77E+01	8.94E-02	1.66E+01	8.48E+00
30	1.95E+01	4.49E+00	1.34E+01	2.19E+00	1.75E+01	9.12E-02	1.70E+01	5.31E+00
31	1.89E+01	4.52E+00	1.28E+01	2.20E+00	1.74E+01	9.30E-02	1.69E+01	5.28E+00
32	1.83E+01	4.55E+00	1.23E+01	2.21E+00	1.72E+01	9.48E-02	1.69E+01	5.26E+00
33	1.77E+01	4.57E+00	1.18E+01	2.22E+00	1.71E+01	9.65E-02	1.68E+01	5.24E+00
34	1.72E+01	4.60E+00	1.13E+01	2.23E+00	1.70E+01	9.83E-02	1.67E+01	5.22E+00
35	1.67E+01	4.62E+00	1.08E+01	2.25E+00	1.68E+01	1.00E-01	1.66E+01	5.20E+00
36	1.62E+01	4.65E+00	1.04E+01	2.26E+00	1.67E+01	1.02E-01	1.66E+01	5.18E+00
37	1.57E+01	4.67E+00	9.98E+00	2.27E+00	1.66E+01	1.04E-01	1.65E+01	5.16E+00
38	1.53E+01	4.69E+00	9.59E+00	2.28E+00	1.64E+01	1.05E-01	1.64E+01	5.14E+00

39	1.50E+01	4.71E+00	9.22E+00	2.28E+00	1.63E+01	1.07E-01	1.64E+01	5.12E+00
40	1.47E+01	4.73E+00	8.87E+00	2.29E+00	1.62E+01	1.09E-01	1.63E+01	5.10E+00
41	1.43E+01	4.75E+00	8.56E+00	2.30E+00	1.60E+01	1.10E-01	1.63E+01	5.08E+00
42	1.40E+01	4.77E+00	8.26E+00	2.31E+00	1.60E+01	1.15E-01	1.55E+01	8.50E+00
43	1.37E+01	4.79E+00	7.98E+00	2.32E+00	1.60E+01	1.20E-01	1.55E+01	8.51E+00
44	1.34E+01	4.81E+00	7.72E+00	2.33E+00	1.60E+01	1.24E-01	1.55E+01	8.51E+00
45	1.32E+01	4.83E+00	7.47E+00	2.33E+00	1.60E+01	1.29E-01	1.55E+01	8.51E+00
46	1.29E+01	4.84E+00	7.24E+00	2.34E+00	1.60E+01	1.33E-01	1.55E+01	8.52E+00
47	1.27E+01	4.86E+00	7.02E+00	2.35E+00	1.60E+01	1.38E-01	1.55E+01	8.52E+00
48	1.24E+01	4.88E+00	6.81E+00	2.36E+00	1.60E+01	1.43E-01	1.55E+01	8.52E+00
49	1.22E+01	4.89E+00	6.61E+00	2.36E+00	1.60E+01	1.47E-01	1.55E+01	8.53E+00
50	1.20E+01	4.91E+00	6.42E+00	2.37E+00	1.60E+01	1.52E-01	1.55E+01	8.53E+00
51	1.18E+01	4.92E+00	6.25E+00	2.38E+00	1.60E+01	1.57E-01	1.55E+01	8.53E+00
52	1.17E+01	4.94E+00	6.08E+00	2.38E+00	1.60E+01	1.61E-01	1.55E+01	8.53E+00
53	1.16E+01	4.95E+00	5.94E+00	2.39E+00	1.60E+01	1.66E-01	1.55E+01	8.53E+00
54	1.14E+01	4.97E+00	5.80E+00	2.39E+00	1.58E+01	1.68E-01	1.53E+01	4.81E+00
55	1.13E+01	4.98E+00	5.68E+00	2.40E+00	1.57E+01	1.69E-01	1.53E+01	4.79E+00
56	1.12E+01	4.99E+00	5.57E+00	2.41E+00	1.56E+01	1.71E-01	1.52E+01	4.77E+00
57	1.11E+01	5.01E+00	5.47E+00	2.41E+00	1.54E+01	1.72E-01	1.51E+01	4.75E+00
58	1.10E+01	5.02E+00	5.38E+00	2.42E+00	1.53E+01	1.74E-01	1.51E+01	4.73E+00
59	1.09E+01	5.03E+00	5.30E+00	2.42E+00	1.52E+01	1.75E-01	1.50E+01	4.71E+00
60	1.08E+01	5.05E+00	5.22E+00	2.43E+00	1.51E+01	1.77E-01	1.50E+01	4.69E+00
61	1.07E+01	5.06E+00	5.14E+00	2.44E+00	1.49E+01	1.78E-01	1.49E+01	4.67E+00
62	1.06E+01	5.07E+00	5.07E+00	2.44E+00	1.48E+01	1.80E-01	1.48E+01	4.65E+00
63	1.05E+01	5.08E+00	5.01E+00	2.45E+00	1.47E+01	1.81E-01	1.48E+01	4.63E+00
64	1.04E+01	5.10E+00	4.94E+00	2.45E+00	1.46E+01	1.83E-01	1.47E+01	4.62E+00
65	1.03E+01	5.11E+00	4.88E+00	2.46E+00	1.44E+01	1.84E-01	1.47E+01	4.60E+00
66	1.03E+01	5.12E+00	4.82E+00	2.46E+00	1.44E+01	1.89E-01	1.40E+01	8.20E+00
67	1.02E+01	5.13E+00	4.77E+00	2.47E+00	1.44E+01	1.93E-01	1.40E+01	8.20E+00
68	1.01E+01	5.14E+00	4.71E+00	2.47E+00	1.44E+01	1.98E-01	1.40E+01	8.19E+00
69	1.00E+01	5.15E+00	4.66E+00	2.48E+00	1.44E+01	2.02E-01	1.39E+01	8.19E+00
168	2.49E+00	5.23E+00	2.63E+00	2.81E+00	8.01E+00	5.93E-01	9.39E+00	6.79E+00
336	1.40E+00	4.43E+00	1.45E+00	3.02E+00	3.49E+00	1.03E+00	5.23E+00	5.00E+00
504	1.05E+00	3.70E+00	1.01E+00	3.15E+00	1.78E+00	1.28E+00	2.44E+00	3.44E+00
720	7.65E-01	2.92E+00	6.80E-01	3.26E+00	9.30E-01	1.41E+00	1.26E+00	2.42E+00
2160	1.44E-01	5.89E-01	7.70E-02	3.49E+00	8.46E-02	8.28E-01	2.95E-01	8.40E-01
4320	1.39E-02	5.39E-02	3.87E-01	3.30E+00	1.43E-02	1.98E-01	3.62E-02	1.32E-01
4800	8.25E-03	3.18E-02	3.85E-01	3.29E+00	1.04E-02	1.43E-01	1.22E-02	4.35E-02
8760	1.13E-04	4.18E-04	3.76E-01	3.21E+00	8.58E-04	9.56E-03	3.82E-03	1.28E-02
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)

Peak HTO								
2/4/6/6	3.37E+02	2.20E+00	2.07E+02	1.21E+00	1.77E+01	1.53E-02	1.71E+01	5.33E+00
SUM	3.39E+02		2.09E+02		1.77E+01		2.25E+01	
Ci/g	9.16E-09		5.64E-09		4.78E-10		6.07E-10	
DIL HTO	5.9E-09							
(Ci/g)								
168	2.49E+00	5.23E+00	2.63E+00	2.81E+00	8.01E+00	5.93E-01	9.39E+00	6.79E+00
SUM	7.73E+00		5.44E+00		8.61E+00		1.62E+01	
Ci/g	2.09E-10		1.47E-10		2.33E-10		4.37E-10	
DIL OBT	2.4E-09							
Ci/g								
8760	1.13E-04	4.18E-04	3.76E-01	3.21E+00	8.58E-04	9.56E-03	3.82E-03	1.28E-02
SUM	5.31E-04		3.58E+00		1.04E-02		1.67E-02	
Ci/g	1.44E-14		9.68E-11		2.82E-13		4.50E-13	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Average Met Conditions								
Concentration Values for 50 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	1.45E+01	0.00E+00	0.00E+00	0.00E+00	1.37E-02	1.47E-06	1.66E-03	5.16E-04
2	2.15E+01	2.59E-02	1.67E+00	6.35E-03	1.42E-01	3.00E-05	1.67E-02	7.00E-03
3	1.85E+01	6.44E-02	4.30E+00	1.82E-02	3.36E-01	1.01E-04	4.77E-02	2.07E-02
4	2.43E+01	9.74E-02	6.52E+00	3.15E-02	5.27E-01	2.14E-04	8.98E-02	3.95E-02
5	2.29E+01	1.68E-01	1.10E+01	5.56E-02	8.91E-01	4.06E-04	1.54E-01	6.83E-02
6	7.21E+01	5.98E-01	4.03E+01	1.80E-01	1.10E+00	5.24E-04	1.07E+00	3.33E-01
7	3.70E+01	7.80E-01	5.42E+01	2.77E-01	1.13E+00	6.45E-04	1.08E+00	3.37E-01
8	2.01E+01	8.45E-01	5.57E+01	3.43E-01	1.13E+00	7.66E-04	1.09E+00	3.38E-01
9	1.51E+01	8.80E-01	5.13E+01	3.89E-01	1.13E+00	8.87E-04	1.09E+00	3.39E-01
10	1.34E+01	9.06E-01	4.48E+01	4.21E-01	1.12E+00	1.01E-03	1.09E+00	3.39E-01
11	1.25E+01	9.29E-01	3.79E+01	4.44E-01	1.12E+00	1.13E-03	1.09E+00	3.39E-01
12	1.20E+01	9.50E-01	3.16E+01	4.63E-01	1.12E+00	1.25E-03	1.09E+00	3.39E-01
13	1.15E+01	9.70E-01	2.61E+01	4.77E-01	1.11E+00	1.37E-03	1.09E+00	3.38E-01
14	1.12E+01	9.89E-01	2.17E+01	4.89E-01	1.11E+00	1.48E-03	1.09E+00	3.38E-01
15	1.08E+01	1.01E+00	1.81E+01	5.00E-01	1.11E+00	1.60E-03	1.08E+00	3.38E-01
16	1.05E+01	1.03E+00	1.53E+01	5.09E-01	1.10E+00	1.72E-03	1.08E+00	3.37E-01
17	1.03E+01	1.04E+00	1.31E+01	5.18E-01	1.10E+00	1.84E-03	1.08E+00	3.37E-01
18	1.00E+01	1.06E+00	1.15E+01	5.26E-01	1.20E+00	2.65E-03	1.16E+00	1.19E+00
19	9.74E+00	1.08E+00	1.01E+01	5.34E-01	1.29E+00	3.48E-03	1.20E+00	1.21E+00
20	9.48E+00	1.09E+00	9.12E+00	5.41E-01	1.38E+00	4.33E-03	1.25E+00	1.23E+00
21	9.23E+00	1.11E+00	8.32E+00	5.49E-01	1.47E+00	5.19E-03	1.29E+00	1.25E+00
22	8.97E+00	1.12E+00	7.69E+00	5.55E-01	1.55E+00	6.08E-03	1.33E+00	1.27E+00
23	8.73E+00	1.14E+00	7.18E+00	5.62E-01	1.63E+00	6.98E-03	1.37E+00	1.29E+00
24	8.49E+00	1.15E+00	6.75E+00	5.68E-01	1.71E+00	7.89E-03	1.41E+00	1.30E+00
25	8.25E+00	1.17E+00	6.40E+00	5.75E-01	1.78E+00	8.82E-03	1.45E+00	1.32E+00
26	8.02E+00	1.18E+00	6.10E+00	5.80E-01	1.85E+00	9.76E-03	1.49E+00	1.34E+00
27	7.78E+00	1.19E+00	5.83E+00	5.86E-01	1.91E+00	1.07E-02	1.53E+00	1.35E+00
28	7.54E+00	1.20E+00	5.59E+00	5.92E-01	1.98E+00	1.17E-02	1.56E+00	1.37E+00
29	7.32E+00	1.22E+00	5.37E+00	5.97E-01	2.04E+00	1.27E-02	1.60E+00	1.38E+00
30	7.09E+00	1.23E+00	5.16E+00	6.02E-01	2.02E+00	1.29E-02	1.96E+00	6.13E-01
31	6.88E+00	1.24E+00	4.97E+00	6.07E-01	2.01E+00	1.31E-02	1.96E+00	6.11E-01
32	6.67E+00	1.25E+00	4.78E+00	6.12E-01	2.00E+00	1.33E-02	1.95E+00	6.09E-01
33	6.45E+00	1.26E+00	4.60E+00	6.17E-01	1.98E+00	1.35E-02	1.94E+00	6.07E-01
34	6.26E+00	1.27E+00	4.43E+00	6.21E-01	1.97E+00	1.37E-02	1.93E+00	6.05E-01
35	6.07E+00	1.28E+00	4.27E+00	6.26E-01	1.95E+00	1.39E-02	1.93E+00	6.03E-01
36	5.90E+00	1.29E+00	4.11E+00	6.30E-01	1.94E+00	1.41E-02	1.92E+00	6.01E-01
37	5.73E+00	1.30E+00	3.96E+00	6.34E-01	1.92E+00	1.43E-02	1.91E+00	5.98E-01
38	5.58E+00	1.31E+00	3.81E+00	6.38E-01	1.91E+00	1.45E-02	1.91E+00	5.96E-01

39	5.44E+00	1.31E+00	3.67E+00	6.41E-01	1.90E+00	1.47E-02	1.90E+00	5.94E-01
40	5.31E+00	1.32E+00	3.54E+00	6.45E-01	1.88E+00	1.49E-02	1.89E+00	5.92E-01
41	5.18E+00	1.33E+00	3.42E+00	6.48E-01	1.87E+00	1.51E-02	1.89E+00	5.90E-01
42	5.06E+00	1.34E+00	3.30E+00	6.52E-01	1.91E+00	1.61E-02	1.85E+00	1.60E+00
43	4.94E+00	1.34E+00	3.19E+00	6.55E-01	1.94E+00	1.72E-02	1.86E+00	1.61E+00
44	4.83E+00	1.35E+00	3.09E+00	6.58E-01	1.97E+00	1.82E-02	1.88E+00	1.62E+00
45	4.72E+00	1.36E+00	2.99E+00	6.61E-01	2.01E+00	1.93E-02	1.90E+00	1.62E+00
46	4.62E+00	1.37E+00	2.90E+00	6.64E-01	2.04E+00	2.03E-02	1.91E+00	1.63E+00
47	4.53E+00	1.37E+00	2.81E+00	6.67E-01	2.07E+00	2.14E-02	1.93E+00	1.64E+00
48	4.43E+00	1.38E+00	2.73E+00	6.70E-01	2.09E+00	2.25E-02	1.94E+00	1.64E+00
49	4.34E+00	1.38E+00	2.65E+00	6.73E-01	2.12E+00	2.35E-02	1.96E+00	1.65E+00
50	4.27E+00	1.39E+00	2.57E+00	6.75E-01	2.15E+00	2.46E-02	1.97E+00	1.66E+00
51	4.20E+00	1.40E+00	2.50E+00	6.78E-01	2.17E+00	2.57E-02	1.98E+00	1.66E+00
52	4.14E+00	1.40E+00	2.43E+00	6.80E-01	2.20E+00	2.68E-02	2.00E+00	1.67E+00
53	4.08E+00	1.41E+00	2.37E+00	6.83E-01	2.22E+00	2.79E-02	2.01E+00	1.67E+00
54	4.03E+00	1.41E+00	2.31E+00	6.85E-01	2.20E+00	2.81E-02	2.13E+00	6.70E-01
55	3.98E+00	1.42E+00	2.26E+00	6.88E-01	2.18E+00	2.83E-02	2.13E+00	6.67E-01
56	3.93E+00	1.42E+00	2.21E+00	6.90E-01	2.17E+00	2.85E-02	2.12E+00	6.65E-01
57	3.89E+00	1.43E+00	2.17E+00	6.92E-01	2.15E+00	2.87E-02	2.11E+00	6.62E-01
58	3.84E+00	1.43E+00	2.13E+00	6.95E-01	2.13E+00	2.89E-02	2.10E+00	6.60E-01
59	3.80E+00	1.44E+00	2.09E+00	6.97E-01	2.12E+00	2.92E-02	2.09E+00	6.57E-01
60	3.76E+00	1.44E+00	2.06E+00	6.99E-01	2.10E+00	2.94E-02	2.08E+00	6.54E-01
61	3.72E+00	1.45E+00	2.02E+00	7.01E-01	2.08E+00	2.96E-02	2.08E+00	6.52E-01
62	3.68E+00	1.45E+00	1.99E+00	7.03E-01	2.07E+00	2.98E-02	2.07E+00	6.49E-01
63	3.64E+00	1.46E+00	1.96E+00	7.05E-01	2.05E+00	3.00E-02	2.06E+00	6.47E-01
64	3.61E+00	1.46E+00	1.93E+00	7.08E-01	2.03E+00	3.02E-02	2.05E+00	6.44E-01
65	3.57E+00	1.47E+00	1.90E+00	7.10E-01	2.02E+00	3.04E-02	2.04E+00	6.42E-01
66	3.54E+00	1.47E+00	1.88E+00	7.12E-01	2.04E+00	3.15E-02	1.97E+00	1.72E+00
67	3.50E+00	1.48E+00	1.85E+00	7.14E-01	2.05E+00	3.26E-02	1.98E+00	1.73E+00
68	3.47E+00	1.48E+00	1.83E+00	7.16E-01	2.07E+00	3.37E-02	1.99E+00	1.73E+00
69	3.44E+00	1.48E+00	1.80E+00	7.17E-01	2.09E+00	3.48E-02	2.00E+00	1.73E+00
168	7.23E-01	1.54E+00	7.85E-01	8.35E-01	1.61E+00	1.37E-01	1.76E+00	1.69E+00
336	3.93E-01	1.30E+00	4.23E-01	8.96E-01	8.43E-01	2.65E-01	1.15E+00	1.35E+00
504	2.92E-01	1.09E+00	2.93E-01	9.34E-01	4.79E-01	3.40E-01	6.20E-01	9.80E-01
720	2.13E-01	8.55E-01	1.97E-01	9.67E-01	2.65E-01	3.84E-01	3.48E-01	7.03E-01
2160	3.99E-02	1.70E-01	2.22E-02	1.03E+00	2.41E-02	2.33E-01	8.49E-02	2.44E-01
4320	3.84E-03	1.53E-02	1.12E-01	9.77E-01	3.97E-03	5.60E-02	1.02E-02	3.76E-02
4800	2.28E-03	8.98E-03	1.11E-01	9.74E-01	2.88E-03	4.03E-02	3.39E-03	1.22E-02
8760	3.14E-05	1.17E-04	1.08E-01	9.50E-01	2.36E-04	2.69E-03	1.06E-03	3.60E-03
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOURL	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

6/8/9/9	7.21E+01	5.98E-01	5.57E+01	3.43E-01	1.13E+00	8.87E-04	1.09E+00	3.39E-01
SUM	7.27E+01		5.60E+01		1.13E+00		1.43E+00	
Ci/g	1.96E-09		1.51E-09		3.05E-11		3.85E-11	
DIL HTO	5.9E-09							
(Ci/g)								
168	7.23E-01	1.54E+00	7.85E-01	8.35E-01	1.61E+00	1.37E-01	1.76E+00	1.69E+00
SUM	2.26E+00		1.62E+00		1.75E+00		3.45E+00	
Ci/g	6.12E-11		4.38E-11		4.73E-11		9.32E-11	
DIL OBT	2.4E-09							
Ci/g								
8760	3.14E-05	1.17E-04	1.08E-01	9.50E-01	2.36E-04	2.69E-03	1.06E-03	3.60E-03
SUM	1.48E-04		1.06E+00		2.92E-03		4.66E-03	
Ci/g	4.00E-15		2.86E-11		7.90E-14		1.26E-13	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Average Met Conditions								
Concentration Values for 100 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	2.37E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	2.41E-07	2.71E-04	8.43E-05
2	4.21E+00	4.24E-03	2.73E-01	1.04E-03	2.38E-02	4.97E-06	2.81E-03	1.17E-03
3	4.30E+00	1.18E-02	7.82E-01	3.28E-03	6.19E-02	1.80E-05	8.53E-03	3.69E-03
4	5.81E+00	1.95E-02	1.30E+00	6.12E-03	1.05E-01	4.04E-05	1.70E-02	7.46E-03
5	5.51E+00	2.98E-02	1.93E+00	9.98E-03	1.61E-01	7.49E-05	2.86E-02	1.26E-02
6	7.88E+00	3.96E-02	2.47E+00	1.42E-02	1.65E-01	9.26E-05	1.60E-01	4.99E-02
7	7.34E+00	5.37E-02	3.19E+00	1.97E-02	1.69E-01	1.11E-04	1.62E-01	5.05E-02
8	7.58E+00	6.68E-02	3.77E+00	2.54E-02	1.73E-01	1.29E-04	1.64E-01	5.11E-02
9	1.03E+01	8.03E-02	4.27E+00	3.15E-02	1.79E-01	1.49E-04	1.66E-01	5.18E-02
10	9.49E+00	1.02E-01	5.25E+00	4.00E-02	1.86E-01	1.68E-04	1.69E-01	5.27E-02
11	2.04E+01	2.06E-01	1.21E+01	7.19E-02	2.36E-01	1.94E-04	1.79E-01	5.58E-02
12	2.71E+01	3.57E-01	2.27E+01	1.26E-01	3.00E-01	2.26E-04	1.95E-01	6.07E-02
13	1.26E+01	4.05E-01	2.57E+01	1.62E-01	3.02E-01	2.58E-04	2.07E-01	6.45E-02
14	8.63E+00	4.27E-01	2.48E+01	1.87E-01	3.04E-01	2.91E-04	2.17E-01	6.76E-02
15	7.41E+00	4.42E-01	2.22E+01	2.05E-01	3.05E-01	3.23E-04	2.25E-01	7.00E-02
16	6.93E+00	4.55E-01	1.92E+01	2.18E-01	3.06E-01	3.56E-04	2.31E-01	7.20E-02
17	6.68E+00	4.66E-01	1.62E+01	2.29E-01	3.07E-01	3.89E-04	2.37E-01	7.38E-02
18	6.51E+00	4.78E-01	1.36E+01	2.37E-01	3.77E-01	7.36E-04	3.65E-01	4.86E-01
19	6.37E+00	4.89E-01	1.15E+01	2.44E-01	4.43E-01	1.10E-03	3.97E-01	5.00E-01
20	6.25E+00	4.99E-01	9.73E+00	2.50E-01	5.06E-01	1.47E-03	4.28E-01	5.14E-01
21	6.14E+00	5.10E-01	8.35E+00	2.55E-01	5.67E-01	1.86E-03	4.59E-01	5.27E-01
22	6.02E+00	5.20E-01	7.27E+00	2.61E-01	6.25E-01	2.26E-03	4.88E-01	5.40E-01
23	5.91E+00	5.30E-01	6.44E+00	2.66E-01	6.82E-01	2.67E-03	5.17E-01	5.53E-01
24	5.80E+00	5.40E-01	5.80E+00	2.70E-01	7.38E-01	3.09E-03	5.45E-01	5.65E-01
25	5.69E+00	5.50E-01	5.30E+00	2.75E-01	7.91E-01	3.52E-03	5.73E-01	5.78E-01
26	5.58E+00	5.59E-01	4.91E+00	2.79E-01	8.43E-01	3.96E-03	6.00E-01	5.90E-01
27	5.46E+00	5.69E-01	4.61E+00	2.84E-01	8.93E-01	4.42E-03	6.27E-01	6.01E-01
28	5.33E+00	5.78E-01	4.36E+00	2.88E-01	9.42E-01	4.88E-03	6.53E-01	6.13E-01
29	5.21E+00	5.86E-01	4.16E+00	2.92E-01	9.88E-01	5.35E-03	6.78E-01	6.24E-01
30	5.09E+00	5.95E-01	3.98E+00	2.96E-01	9.82E-01	5.46E-03	9.52E-01	2.98E-01
31	4.96E+00	6.03E-01	3.83E+00	3.00E-01	9.77E-01	5.56E-03	9.49E-01	2.97E-01
32	4.83E+00	6.11E-01	3.70E+00	3.03E-01	9.71E-01	5.66E-03	9.47E-01	2.96E-01
33	4.70E+00	6.19E-01	3.58E+00	3.07E-01	9.65E-01	5.76E-03	9.44E-01	2.95E-01
34	4.58E+00	6.27E-01	3.46E+00	3.11E-01	9.59E-01	5.86E-03	9.41E-01	2.94E-01
35	4.45E+00	6.34E-01	3.35E+00	3.14E-01	9.53E-01	5.95E-03	9.38E-01	2.93E-01
36	4.33E+00	6.41E-01	3.25E+00	3.17E-01	9.47E-01	6.05E-03	9.35E-01	2.92E-01
37	4.21E+00	6.48E-01	3.15E+00	3.21E-01	9.41E-01	6.15E-03	9.32E-01	2.91E-01
38	4.10E+00	6.55E-01	3.05E+00	3.24E-01	9.35E-01	6.25E-03	9.29E-01	2.91E-01

39	4.00E+00	6.61E-01	2.95E+00	3.27E-01	9.29E-01	6.34E-03	9.26E-01	2.90E-01
40	3.90E+00	6.68E-01	2.86E+00	3.30E-01	9.23E-01	6.44E-03	9.24E-01	2.89E-01
41	3.81E+00	6.74E-01	2.78E+00	3.33E-01	9.17E-01	6.53E-03	9.21E-01	2.88E-01
42	3.71E+00	6.80E-01	2.69E+00	3.35E-01	9.48E-01	7.06E-03	9.19E-01	8.08E-01
43	3.62E+00	6.85E-01	2.61E+00	3.38E-01	9.78E-01	7.59E-03	9.33E-01	8.14E-01
44	3.54E+00	6.91E-01	2.53E+00	3.41E-01	1.01E+00	8.13E-03	9.47E-01	8.20E-01
45	3.46E+00	6.96E-01	2.46E+00	3.43E-01	1.03E+00	8.67E-03	9.61E-01	8.26E-01
46	3.38E+00	7.02E-01	2.39E+00	3.46E-01	1.06E+00	9.22E-03	9.74E-01	8.32E-01
47	3.30E+00	7.07E-01	2.32E+00	3.48E-01	1.09E+00	9.77E-03	9.87E-01	8.37E-01
48	3.23E+00	7.12E-01	2.25E+00	3.50E-01	1.11E+00	1.03E-02	9.99E-01	8.43E-01
49	3.16E+00	7.16E-01	2.19E+00	3.53E-01	1.13E+00	1.09E-02	1.01E+00	8.48E-01
50	3.09E+00	7.21E-01	2.13E+00	3.55E-01	1.15E+00	1.15E-02	1.02E+00	8.53E-01
51	3.04E+00	7.26E-01	2.07E+00	3.57E-01	1.18E+00	1.20E-02	1.04E+00	8.58E-01
52	2.99E+00	7.30E-01	2.01E+00	3.59E-01	1.20E+00	1.26E-02	1.05E+00	8.63E-01
53	2.94E+00	7.35E-01	1.96E+00	3.61E-01	1.22E+00	1.32E-02	1.06E+00	8.68E-01
54	2.89E+00	7.39E-01	1.91E+00	3.63E-01	1.21E+00	1.33E-02	1.17E+00	3.67E-01
55	2.85E+00	7.43E-01	1.87E+00	3.65E-01	1.20E+00	1.34E-02	1.17E+00	3.66E-01
56	2.81E+00	7.47E-01	1.83E+00	3.67E-01	1.19E+00	1.35E-02	1.16E+00	3.64E-01
57	2.77E+00	7.51E-01	1.79E+00	3.69E-01	1.18E+00	1.36E-02	1.16E+00	3.63E-01
58	2.73E+00	7.55E-01	1.75E+00	3.71E-01	1.17E+00	1.38E-02	1.15E+00	3.62E-01
59	2.70E+00	7.59E-01	1.72E+00	3.73E-01	1.16E+00	1.39E-02	1.15E+00	3.60E-01
60	2.66E+00	7.63E-01	1.68E+00	3.74E-01	1.15E+00	1.40E-02	1.14E+00	3.59E-01
61	2.63E+00	7.67E-01	1.65E+00	3.76E-01	1.15E+00	1.41E-02	1.14E+00	3.58E-01
62	2.60E+00	7.70E-01	1.62E+00	3.78E-01	1.14E+00	1.42E-02	1.14E+00	3.56E-01
63	2.56E+00	7.74E-01	1.60E+00	3.79E-01	1.13E+00	1.43E-02	1.13E+00	3.55E-01
64	2.53E+00	7.77E-01	1.57E+00	3.81E-01	1.12E+00	1.44E-02	1.13E+00	3.54E-01
65	2.50E+00	7.81E-01	1.54E+00	3.83E-01	1.11E+00	1.46E-02	1.12E+00	3.52E-01
66	2.47E+00	7.84E-01	1.52E+00	3.84E-01	1.13E+00	1.51E-02	1.09E+00	9.30E-01
67	2.45E+00	7.88E-01	1.50E+00	3.86E-01	1.14E+00	1.57E-02	1.10E+00	9.33E-01
68	2.42E+00	7.91E-01	1.47E+00	3.88E-01	1.16E+00	1.63E-02	1.11E+00	9.36E-01
69	2.39E+00	7.94E-01	1.45E+00	3.89E-01	1.17E+00	1.69E-02	1.11E+00	9.39E-01
168	3.97E-01	8.58E-01	4.48E-01	4.74E-01	9.52E-01	7.47E-02	1.05E+00	9.65E-01
336	2.13E-01	7.23E-01	2.38E-01	5.08E-01	4.81E-01	1.47E-01	6.69E-01	7.63E-01
504	1.57E-01	6.02E-01	1.64E-01	5.29E-01	2.68E-01	1.89E-01	3.51E-01	5.48E-01
720	1.15E-01	4.74E-01	1.10E-01	5.48E-01	1.47E-01	2.14E-01	1.94E-01	3.92E-01
2160	2.15E-02	9.33E-02	1.24E-02	5.84E-01	1.32E-02	1.30E-01	4.69E-02	1.35E-01
4320	2.06E-03	8.32E-03	6.24E-02	5.53E-01	2.16E-03	3.11E-02	5.57E-03	2.08E-02
4800	1.23E-03	4.89E-03	6.22E-02	5.52E-01	1.57E-03	2.23E-02	1.84E-03	6.75E-03
8760	1.69E-05	6.29E-05	6.06E-02	5.38E-01	1.28E-04	1.49E-03	5.73E-04	1.98E-03
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)

Peak HTO								
12/13/29/3 2	2.71E+01	3.57E-01	2.57E+01	1.62E-01	9.88E-01	5.35E-03	9.47E-01	2.96E-01
SUM	2.75E+01		2.58E+01		9.94E-01		1.24E+00	
Ci/g	7.43E-10		6.98E-10		2.69E-11		3.36E-11	
DIL HTO	5.9E-09							
(Ci/g)								
168	3.97E-01	8.58E-01	4.48E-01	4.74E-01	9.52E-01	7.47E-02	1.05E+00	9.65E-01
SUM	1.25E+00		9.22E-01		1.03E+00		2.01E+00	
Ci/g	3.39E-11		2.49E-11		2.77E-11		5.45E-11	
DIL OBT	2.4E-09							
Ci/g								
8760	1.69E-05	6.29E-05	6.06E-02	5.38E-01	1.28E-04	1.49E-03	5.73E-04	1.98E-03
SUM	7.98E-05		5.98E-01		1.61E-03		2.56E-03	
Ci/g	2.16E-15		1.62E-11		4.36E-14		6.91E-14	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Adverse Met Conditions								
Concentration Values for 670 m from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	1.09E+05	5.16E+02	1.92E+04	7.31E+01	1.95E+03	4.06E-01	2.37E+02	1.03E+02
2	4.89E+04	7.27E+02	2.96E+04	1.34E+02	2.96E+03	1.04E+00	5.29E+02	2.34E+02
3	2.48E+04	8.20E+02	3.40E+04	1.84E+02	3.58E+03	1.81E+00	8.23E+02	3.66E+02
4	1.48E+04	8.67E+02	3.45E+04	2.24E+02	3.95E+03	2.67E+00	1.10E+03	4.89E+02
5	1.04E+04	8.95E+02	3.28E+04	2.55E+02	4.17E+03	3.59E+00	1.34E+03	6.00E+02
6	8.27E+03	9.14E+02	2.99E+04	2.81E+02	4.14E+03	4.03E+00	4.01E+03	1.25E+03
7	7.15E+03	9.28E+02	2.65E+04	3.01E+02	4.11E+03	4.47E+00	4.00E+03	1.25E+03
8	6.49E+03	9.41E+02	2.31E+04	3.18E+02	4.08E+03	4.90E+00	3.98E+03	1.24E+03
9	6.04E+03	9.52E+02	1.98E+04	3.31E+02	4.05E+03	5.34E+00	3.97E+03	1.24E+03
10	5.71E+03	9.63E+02	1.69E+04	3.42E+02	4.02E+03	5.76E+00	3.95E+03	1.23E+03
11	5.46E+03	9.73E+02	1.44E+04	3.51E+02	3.98E+03	6.19E+00	3.94E+03	1.23E+03
12	5.23E+03	9.82E+02	1.22E+04	3.59E+02	3.95E+03	6.61E+00	3.92E+03	1.22E+03
13	5.04E+03	9.91E+02	1.04E+04	3.65E+02	3.92E+03	7.03E+00	3.91E+03	1.22E+03
14	4.88E+03	9.99E+02	8.82E+03	3.71E+02	3.89E+03	7.44E+00	3.89E+03	1.21E+03
15	4.72E+03	1.01E+03	7.54E+03	3.76E+02	3.86E+03	7.85E+00	3.88E+03	1.21E+03
16	4.58E+03	1.02E+03	6.49E+03	3.80E+02	3.83E+03	8.26E+00	3.86E+03	1.20E+03
17	4.45E+03	1.02E+03	5.63E+03	3.84E+02	3.80E+03	8.66E+00	3.85E+03	1.20E+03
18	4.33E+03	1.03E+03	4.93E+03	3.88E+02	3.81E+03	9.63E+00	3.70E+03	1.84E+03
19	4.21E+03	1.04E+03	4.36E+03	3.91E+02	3.83E+03	1.06E+01	3.70E+03	1.84E+03
20	4.10E+03	1.04E+03	3.89E+03	3.94E+02	3.84E+03	1.16E+01	3.71E+03	1.85E+03
21	4.00E+03	1.05E+03	3.51E+03	3.97E+02	3.85E+03	1.26E+01	3.71E+03	1.85E+03
22	3.90E+03	1.06E+03	3.19E+03	4.00E+02	3.86E+03	1.36E+01	3.72E+03	1.85E+03
23	3.81E+03	1.06E+03	2.94E+03	4.03E+02	3.86E+03	1.45E+01	3.72E+03	1.86E+03
24	3.72E+03	1.07E+03	2.73E+03	4.05E+02	3.87E+03	1.55E+01	3.73E+03	1.86E+03
25	3.63E+03	1.07E+03	2.55E+03	4.07E+02	3.88E+03	1.65E+01	3.73E+03	1.86E+03
26	3.55E+03	1.08E+03	2.40E+03	4.10E+02	3.88E+03	1.75E+01	3.73E+03	1.87E+03
27	3.47E+03	1.09E+03	2.28E+03	4.12E+02	3.89E+03	1.85E+01	3.74E+03	1.87E+03
28	3.39E+03	1.09E+03	2.17E+03	4.14E+02	3.89E+03	1.95E+01	3.74E+03	1.87E+03
29	3.32E+03	1.10E+03	2.08E+03	4.16E+02	3.89E+03	2.05E+01	3.74E+03	1.87E+03
30	3.24E+03	1.10E+03	2.00E+03	4.18E+02	3.86E+03	2.09E+01	3.74E+03	1.17E+03
31	3.17E+03	1.11E+03	1.93E+03	4.20E+02	3.83E+03	2.13E+01	3.73E+03	1.16E+03
32	3.11E+03	1.11E+03	1.87E+03	4.22E+02	3.80E+03	2.17E+01	3.71E+03	1.16E+03
33	3.04E+03	1.12E+03	1.81E+03	4.24E+02	3.77E+03	2.21E+01	3.70E+03	1.16E+03
34	2.98E+03	1.12E+03	1.76E+03	4.26E+02	3.74E+03	2.25E+01	3.68E+03	1.15E+03
35	2.91E+03	1.12E+03	1.72E+03	4.27E+02	3.70E+03	2.29E+01	3.67E+03	1.15E+03
36	2.85E+03	1.13E+03	1.68E+03	4.29E+02	3.67E+03	2.32E+01	3.65E+03	1.14E+03
37	2.79E+03	1.13E+03	1.64E+03	4.31E+02	3.64E+03	2.36E+01	3.64E+03	1.14E+03
38	2.73E+03	1.14E+03	1.60E+03	4.33E+02	3.61E+03	2.40E+01	3.62E+03	1.13E+03

39	2.67E+03	1.14E+03	1.56E+03	4.34E+02	3.59E+03	2.44E+01	3.61E+03	1.13E+03
40	2.63E+03	1.14E+03	1.53E+03	4.36E+02	3.56E+03	2.47E+01	3.59E+03	1.12E+03
41	2.58E+03	1.15E+03	1.50E+03	4.37E+02	3.53E+03	2.51E+01	3.58E+03	1.12E+03
42	2.54E+03	1.15E+03	1.47E+03	4.39E+02	3.52E+03	2.61E+01	3.41E+03	1.83E+03
43	2.50E+03	1.15E+03	1.44E+03	4.41E+02	3.52E+03	2.71E+01	3.41E+03	1.83E+03
44	2.46E+03	1.16E+03	1.42E+03	4.42E+02	3.51E+03	2.80E+01	3.41E+03	1.83E+03
45	2.42E+03	1.16E+03	1.39E+03	4.43E+02	3.51E+03	2.90E+01	3.41E+03	1.83E+03
46	2.38E+03	1.16E+03	1.36E+03	4.45E+02	3.50E+03	3.00E+01	3.40E+03	1.83E+03
47	2.35E+03	1.17E+03	1.34E+03	4.46E+02	3.50E+03	3.10E+01	3.40E+03	1.83E+03
48	2.31E+03	1.17E+03	1.31E+03	4.48E+02	3.49E+03	3.20E+01	3.40E+03	1.83E+03
49	2.28E+03	1.17E+03	1.28E+03	4.49E+02	3.48E+03	3.30E+01	3.40E+03	1.82E+03
50	2.25E+03	1.18E+03	1.26E+03	4.50E+02	3.48E+03	3.39E+01	3.39E+03	1.82E+03
51	2.22E+03	1.18E+03	1.24E+03	4.52E+02	3.47E+03	3.49E+01	3.39E+03	1.82E+03
52	2.18E+03	1.18E+03	1.21E+03	4.53E+02	3.46E+03	3.59E+01	3.39E+03	1.82E+03
53	2.16E+03	1.18E+03	1.19E+03	4.54E+02	3.45E+03	3.69E+01	3.38E+03	1.82E+03
54	2.13E+03	1.19E+03	1.17E+03	4.56E+02	3.42E+03	3.72E+01	3.32E+03	1.04E+03
55	2.10E+03	1.19E+03	1.14E+03	4.57E+02	3.40E+03	3.76E+01	3.31E+03	1.04E+03
56	2.07E+03	1.19E+03	1.12E+03	4.58E+02	3.37E+03	3.79E+01	3.29E+03	1.03E+03
57	2.05E+03	1.19E+03	1.10E+03	4.59E+02	3.34E+03	3.82E+01	3.28E+03	1.03E+03
58	2.02E+03	1.20E+03	1.08E+03	4.60E+02	3.31E+03	3.86E+01	3.26E+03	1.02E+03
59	2.00E+03	1.20E+03	1.06E+03	4.61E+02	3.29E+03	3.89E+01	3.25E+03	1.02E+03
60	1.97E+03	1.20E+03	1.04E+03	4.62E+02	3.26E+03	3.92E+01	3.24E+03	1.02E+03
61	1.95E+03	1.20E+03	1.02E+03	4.64E+02	3.23E+03	3.95E+01	3.22E+03	1.01E+03
62	1.93E+03	1.20E+03	1.01E+03	4.65E+02	3.20E+03	3.98E+01	3.21E+03	1.01E+03
63	1.91E+03	1.21E+03	9.89E+02	4.66E+02	3.18E+03	4.02E+01	3.20E+03	1.00E+03
64	1.89E+03	1.21E+03	9.72E+02	4.67E+02	3.15E+03	4.05E+01	3.19E+03	9.99E+02
65	1.88E+03	1.21E+03	9.57E+02	4.68E+02	3.13E+03	4.08E+01	3.17E+03	9.95E+02
66	1.86E+03	1.21E+03	9.42E+02	4.69E+02	3.12E+03	4.17E+01	3.02E+03	1.73E+03
67	1.85E+03	1.22E+03	9.28E+02	4.70E+02	3.11E+03	4.27E+01	3.02E+03	1.73E+03
68	1.83E+03	1.22E+03	9.14E+02	4.71E+02	3.10E+03	4.36E+01	3.01E+03	1.73E+03
69	1.82E+03	1.22E+03	9.02E+02	4.72E+02	3.09E+03	4.46E+01	3.01E+03	1.73E+03
168	4.81E+02	1.28E+03	4.07E+02	5.32E+02	1.78E+03	1.04E+02	1.86E+03	1.37E+03
336	2.23E+02	1.06E+03	1.86E+02	5.60E+02	6.89E+02	1.97E+02	1.10E+03	1.03E+03
504	1.63E+02	8.76E+02	1.27E+02	5.76E+02	3.25E+02	2.47E+02	4.62E+02	6.82E+02
720	1.19E+02	6.80E+02	8.47E+01	5.90E+02	1.63E+02	2.74E+02	2.24E+02	4.71E+02
2160	2.22E+01	1.24E+02	9.50E+00	6.17E+02	1.46E+01	1.60E+02	5.18E+01	1.61E+02
4320	2.13E+00	1.01E+01	4.79E+01	5.91E+02	2.24E+00	3.78E+01	5.99E+00	2.46E+01
4800	1.27E+00	5.85E+00	4.77E+01	5.89E+02	1.61E+00	2.71E+01	1.90E+00	7.88E+00
8760	1.74E-02	6.90E-02	4.65E+01	5.74E+02	1.24E-01	1.75E+00	5.79E-01	2.28E+00
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

1/4/5/6	1.09E+05	5.16E+02	3.45E+04	2.24E+02	4.17E+03	3.59E+00	4.01E+03	1.25E+03
SUM	1.10E+05		3.47E+04		4.18E+03		5.27E+03	
Ci/g	2.96E-06		9.38E-07		1.13E-07		1.42E-07	
DIL HTO	5.9E-09							
(Ci/g)								
168	4.81E+02	1.28E+03	4.07E+02	5.32E+02	1.78E+03	1.04E+02	1.86E+03	1.37E+03
SUM	1.76E+03		9.39E+02		1.88E+03		3.23E+03	
Ci/g	4.76E-08		2.54E-08		5.09E-08		8.72E-08	
DIL OBT	2.4E-09							
Ci/g								
8760	1.74E-02	6.90E-02	4.65E+01	5.74E+02	1.24E-01	1.75E+00	5.79E-01	2.28E+00
SUM	8.64E-02		6.21E+02		1.87E+00		2.86E+00	
Ci/g	2.33E-12		1.68E-08		5.05E-11		7.73E-11	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Adverse Met Conditions								
Concentration Values for 1 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	6.37E+04	2.90E+02	1.08E+04	4.11E+01	1.10E+03	2.28E-01	1.33E+02	5.82E+01
2	2.98E+04	4.13E+02	1.68E+04	7.61E+01	1.69E+03	5.89E-01	3.00E+02	1.32E+02
3	1.58E+04	4.70E+02	1.95E+04	1.05E+02	2.05E+03	1.03E+00	4.68E+02	2.08E+02
4	9.71E+03	5.00E+02	1.99E+04	1.28E+02	2.27E+03	1.53E+00	6.26E+02	2.79E+02
5	6.94E+03	5.18E+02	1.90E+04	1.47E+02	2.41E+03	2.05E+00	7.69E+02	3.44E+02
6	5.58E+03	5.31E+02	1.74E+04	1.62E+02	2.40E+03	2.31E+00	2.32E+03	7.23E+02
7	4.83E+03	5.41E+02	1.56E+04	1.74E+02	2.38E+03	2.56E+00	2.31E+03	7.21E+02
8	4.37E+03	5.50E+02	1.36E+04	1.84E+02	2.36E+03	2.82E+00	2.30E+03	7.18E+02
9	4.06E+03	5.57E+02	1.18E+04	1.93E+02	2.34E+03	3.07E+00	2.30E+03	7.15E+02
10	3.83E+03	5.64E+02	1.01E+04	1.99E+02	2.32E+03	3.31E+00	2.29E+03	7.13E+02
11	3.66E+03	5.71E+02	8.68E+03	2.05E+02	2.31E+03	3.56E+00	2.28E+03	7.10E+02
12	3.50E+03	5.77E+02	7.42E+03	2.10E+02	2.29E+03	3.80E+00	2.27E+03	7.07E+02
13	3.37E+03	5.83E+02	6.35E+03	2.14E+02	2.27E+03	4.04E+00	2.26E+03	7.04E+02
14	3.26E+03	5.89E+02	5.45E+03	2.18E+02	2.25E+03	4.28E+00	2.25E+03	7.02E+02
15	3.16E+03	5.95E+02	4.71E+03	2.21E+02	2.24E+03	4.52E+00	2.24E+03	6.99E+02
16	3.06E+03	6.00E+02	4.09E+03	2.24E+02	2.22E+03	4.76E+00	2.24E+03	6.97E+02
17	2.97E+03	6.05E+02	3.58E+03	2.27E+02	2.20E+03	4.99E+00	2.23E+03	6.94E+02
18	2.89E+03	6.10E+02	3.17E+03	2.29E+02	2.21E+03	5.56E+00	2.14E+03	1.08E+03
19	2.81E+03	6.15E+02	2.82E+03	2.31E+02	2.22E+03	6.13E+00	2.15E+03	1.08E+03
20	2.74E+03	6.20E+02	2.54E+03	2.33E+02	2.23E+03	6.71E+00	2.16E+03	1.08E+03
21	2.67E+03	6.24E+02	2.31E+03	2.35E+02	2.24E+03	7.29E+00	2.16E+03	1.09E+03
22	2.60E+03	6.28E+02	2.12E+03	2.37E+02	2.25E+03	7.87E+00	2.17E+03	1.09E+03
23	2.54E+03	6.33E+02	1.97E+03	2.39E+02	2.26E+03	8.45E+00	2.17E+03	1.09E+03
24	2.48E+03	6.37E+02	1.84E+03	2.40E+02	2.27E+03	9.04E+00	2.17E+03	1.09E+03
25	2.42E+03	6.41E+02	1.73E+03	2.42E+02	2.28E+03	9.63E+00	2.18E+03	1.10E+03
26	2.37E+03	6.44E+02	1.64E+03	2.44E+02	2.28E+03	1.02E+01	2.18E+03	1.10E+03
27	2.31E+03	6.48E+02	1.56E+03	2.45E+02	2.29E+03	1.08E+01	2.19E+03	1.10E+03
28	2.26E+03	6.52E+02	1.49E+03	2.47E+02	2.29E+03	1.14E+01	2.19E+03	1.10E+03
29	2.21E+03	6.55E+02	1.43E+03	2.48E+02	2.30E+03	1.20E+01	2.19E+03	1.11E+03
30	2.16E+03	6.59E+02	1.38E+03	2.50E+02	2.28E+03	1.22E+01	2.21E+03	6.90E+02
31	2.11E+03	6.62E+02	1.34E+03	2.51E+02	2.26E+03	1.25E+01	2.20E+03	6.87E+02
32	2.07E+03	6.65E+02	1.29E+03	2.52E+02	2.24E+03	1.27E+01	2.19E+03	6.85E+02
33	2.02E+03	6.68E+02	1.26E+03	2.54E+02	2.22E+03	1.29E+01	2.18E+03	6.82E+02
34	1.98E+03	6.71E+02	1.22E+03	2.55E+02	2.21E+03	1.32E+01	2.17E+03	6.79E+02
35	1.93E+03	6.74E+02	1.19E+03	2.56E+02	2.19E+03	1.34E+01	2.16E+03	6.76E+02
36	1.89E+03	6.77E+02	1.17E+03	2.57E+02	2.17E+03	1.36E+01	2.16E+03	6.74E+02
37	1.85E+03	6.80E+02	1.14E+03	2.58E+02	2.15E+03	1.38E+01	2.15E+03	6.71E+02
38	1.81E+03	6.83E+02	1.11E+03	2.60E+02	2.14E+03	1.41E+01	2.14E+03	6.68E+02

39	1.77E+03	6.85E+02	1.09E+03	2.61E+02	2.12E+03	1.43E+01	2.13E+03	6.66E+02
40	1.74E+03	6.88E+02	1.07E+03	2.62E+02	2.10E+03	1.45E+01	2.12E+03	6.63E+02
41	1.71E+03	6.90E+02	1.05E+03	2.63E+02	2.08E+03	1.47E+01	2.11E+03	6.60E+02
42	1.68E+03	6.92E+02	1.03E+03	2.64E+02	2.08E+03	1.53E+01	2.02E+03	1.09E+03
43	1.65E+03	6.95E+02	1.01E+03	2.65E+02	2.08E+03	1.59E+01	2.02E+03	1.09E+03
44	1.62E+03	6.97E+02	9.89E+02	2.66E+02	2.08E+03	1.65E+01	2.02E+03	1.09E+03
45	1.60E+03	6.99E+02	9.71E+02	2.67E+02	2.08E+03	1.71E+01	2.02E+03	1.09E+03
46	1.57E+03	7.01E+02	9.52E+02	2.68E+02	2.08E+03	1.77E+01	2.02E+03	1.09E+03
47	1.55E+03	7.04E+02	9.34E+02	2.69E+02	2.08E+03	1.83E+01	2.02E+03	1.09E+03
48	1.52E+03	7.06E+02	9.16E+02	2.70E+02	2.07E+03	1.88E+01	2.02E+03	1.09E+03
49	1.50E+03	7.08E+02	8.98E+02	2.71E+02	2.07E+03	1.94E+01	2.01E+03	1.09E+03
50	1.48E+03	7.10E+02	8.80E+02	2.72E+02	2.07E+03	2.00E+01	2.01E+03	1.09E+03
51	1.45E+03	7.11E+02	8.63E+02	2.73E+02	2.07E+03	2.06E+01	2.01E+03	1.09E+03
52	1.43E+03	7.13E+02	8.46E+02	2.74E+02	2.06E+03	2.12E+01	2.01E+03	1.09E+03
53	1.41E+03	7.15E+02	8.29E+02	2.75E+02	2.06E+03	2.18E+01	2.01E+03	1.09E+03
54	1.39E+03	7.17E+02	8.13E+02	2.76E+02	2.04E+03	2.20E+01	1.98E+03	6.21E+02
55	1.37E+03	7.19E+02	7.97E+02	2.76E+02	2.03E+03	2.22E+01	1.97E+03	6.19E+02
56	1.35E+03	7.20E+02	7.81E+02	2.77E+02	2.01E+03	2.24E+01	1.96E+03	6.16E+02
57	1.34E+03	7.22E+02	7.66E+02	2.78E+02	1.99E+03	2.26E+01	1.96E+03	6.14E+02
58	1.32E+03	7.24E+02	7.51E+02	2.79E+02	1.98E+03	2.28E+01	1.95E+03	6.11E+02
59	1.30E+03	7.25E+02	7.37E+02	2.80E+02	1.96E+03	2.30E+01	1.94E+03	6.09E+02
60	1.28E+03	7.27E+02	7.23E+02	2.80E+02	1.95E+03	2.32E+01	1.93E+03	6.06E+02
61	1.27E+03	7.28E+02	7.09E+02	2.81E+02	1.93E+03	2.34E+01	1.92E+03	6.04E+02
62	1.25E+03	7.30E+02	6.96E+02	2.82E+02	1.91E+03	2.36E+01	1.92E+03	6.01E+02
63	1.24E+03	7.31E+02	6.84E+02	2.83E+02	1.90E+03	2.38E+01	1.91E+03	5.99E+02
64	1.21E+03	7.33E+02	6.71E+02	2.83E+02	1.88E+03	2.39E+01	1.90E+03	5.96E+02
65	1.20E+03	7.34E+02	6.58E+02	2.84E+02	1.87E+03	2.41E+01	1.89E+03	5.94E+02
66	1.19E+03	7.35E+02	6.46E+02	2.85E+02	1.86E+03	2.47E+01	1.80E+03	1.04E+03
67	1.17E+03	7.37E+02	6.33E+02	2.85E+02	1.86E+03	2.53E+01	1.80E+03	1.04E+03
68	1.16E+03	7.38E+02	6.21E+02	2.86E+02	1.85E+03	2.59E+01	1.80E+03	1.04E+03
69	1.15E+03	7.39E+02	6.10E+02	2.87E+02	1.85E+03	2.64E+01	1.80E+03	1.04E+03
168	2.93E+02	7.77E+02	2.46E+02	3.24E+02	1.07E+03	6.26E+01	1.12E+03	8.26E+02
336	1.35E+02	6.46E+02	1.14E+02	3.41E+02	4.15E+02	1.19E+02	6.63E+02	6.27E+02
504	9.86E+01	5.31E+02	7.73E+01	3.51E+02	1.96E+02	1.50E+02	2.79E+02	4.14E+02
720	7.17E+01	4.12E+02	5.17E+01	3.59E+02	9.88E+01	1.66E+02	1.36E+02	2.86E+02
2160	1.34E+01	7.52E+01	5.79E+00	3.75E+02	8.84E+00	9.70E+01	3.15E+01	9.78E+01
4320	1.29E+00	6.14E+00	2.92E+01	3.59E+02	1.35E+00	2.29E+01	3.63E+00	1.49E+01
4800	7.67E-01	3.55E+00	2.91E+01	3.58E+02	9.74E-01	1.64E+01	1.15E+00	4.78E+00
8760	1.05E-02	4.18E-02	2.84E+01	3.49E+02	7.51E-02	1.06E+00	3.50E-01	1.38E+00
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

1/3/6/6	6.37E+04	2.90E+02	1.99E+04	1.28E+02	2.40E+03	2.31E+00	2.32E+03	7.23E+02
SUM	6.39E+04		2.00E+04		2.40E+03		3.04E+03	
Ci/g	1.73E-06		5.41E-07		6.48E-08		8.23E-08	
DIL HTO (Ci/g)	5.9E-09							
168	2.93E+02	7.77E+02	2.46E+02	3.24E+02	1.07E+03	6.26E+01	1.12E+03	8.26E+02
SUM	1.07E+03		5.69E+02		1.13E+03		1.94E+03	
Ci/g	2.89E-08		1.54E-08		3.05E-08		5.25E-08	
DIL OBT Ci/g	2.4E-09							
8760	1.05E-02	4.18E-02	2.84E+01	3.49E+02	7.51E-02	1.06E+00	3.50E-01	1.38E+00
SUM	5.23E-02		3.78E+02		1.13E+00		1.73E+00	
Ci/g	1.41E-12		1.02E-08		3.06E-11		4.68E-11	
DIL OBT Ci/g	2.4E-09							

SRTC Release Scenario 1-RD-3, Adverse Met Conditions								
Concentration Values for 10 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	8.69E+02	0.00E+00	0.00E+00	0.00E+00	9.55E-01	1.03E-04	1.16E-01	3.60E-02
2	2.62E+03	1.09E+01	4.04E+02	1.54E+00	4.16E+01	8.72E-03	4.59E+00	1.99E+00
3	1.36E+03	1.60E+01	6.44E+02	2.90E+00	6.51E+01	2.26E-02	1.04E+01	4.59E+00
4	8.20E+02	1.86E+01	7.60E+02	4.06E+00	8.07E+01	4.01E-02	1.66E+01	7.35E+00
5	5.69E+02	2.02E+01	7.94E+02	5.04E+00	9.11E+01	5.99E-02	2.26E+01	1.01E+01
6	4.45E+02	2.12E+01	7.76E+02	5.85E+00	9.06E+01	6.96E-02	8.78E+01	2.74E+01
7	3.76E+02	2.21E+01	7.29E+02	6.54E+00	9.01E+01	7.92E-02	8.76E+01	2.73E+01
8	3.35E+02	2.28E+01	6.67E+02	7.11E+00	8.95E+01	8.88E-02	8.73E+01	2.72E+01
9	3.08E+02	2.34E+01	6.00E+02	7.60E+00	8.89E+01	9.83E-02	8.70E+01	2.71E+01
10	2.89E+02	2.39E+01	5.34E+02	8.02E+00	8.83E+01	1.08E-01	8.67E+01	2.70E+01
11	2.74E+02	2.45E+01	4.73E+02	8.38E+00	8.77E+01	1.17E-01	8.64E+01	2.69E+01
12	2.62E+02	2.50E+01	4.18E+02	8.70E+00	8.71E+01	1.26E-01	8.62E+01	2.68E+01
13	2.51E+02	2.54E+01	3.70E+02	8.98E+00	8.65E+01	1.36E-01	8.59E+01	2.68E+01
14	2.42E+02	2.59E+01	3.28E+02	9.23E+00	8.59E+01	1.45E-01	8.56E+01	2.67E+01
15	2.34E+02	2.63E+01	2.92E+02	9.46E+00	8.53E+01	1.54E-01	8.53E+01	2.66E+01
16	2.27E+02	2.68E+01	2.62E+02	9.67E+00	8.47E+01	1.63E-01	8.50E+01	2.65E+01
17	2.21E+02	2.72E+01	2.37E+02	9.87E+00	8.41E+01	1.72E-01	8.47E+01	2.64E+01
18	2.14E+02	2.75E+01	2.15E+02	1.01E+01	8.58E+01	1.96E-01	8.31E+01	4.43E+01
19	2.08E+02	2.79E+01	1.97E+02	1.02E+01	8.73E+01	2.21E-01	8.39E+01	4.47E+01
20	2.03E+02	2.83E+01	1.82E+02	1.04E+01	8.88E+01	2.46E-01	8.46E+01	4.50E+01
21	1.98E+02	2.86E+01	1.70E+02	1.05E+01	9.02E+01	2.71E-01	8.53E+01	4.54E+01
22	1.93E+02	2.90E+01	1.59E+02	1.07E+01	9.16E+01	2.97E-01	8.60E+01	4.57E+01
23	1.89E+02	2.93E+01	1.50E+02	1.08E+01	9.30E+01	3.23E-01	8.67E+01	4.61E+01
24	1.85E+02	2.97E+01	1.42E+02	1.10E+01	9.43E+01	3.49E-01	8.74E+01	4.64E+01
25	1.81E+02	3.00E+01	1.36E+02	1.11E+01	9.55E+01	3.75E-01	8.80E+01	4.67E+01
26	1.77E+02	3.03E+01	1.30E+02	1.12E+01	9.67E+01	4.02E-01	8.86E+01	4.70E+01
27	1.73E+02	3.06E+01	1.25E+02	1.14E+01	9.78E+01	4.29E-01	8.93E+01	4.73E+01
28	1.69E+02	3.09E+01	1.21E+02	1.15E+01	9.88E+01	4.57E-01	8.98E+01	4.76E+01
29	1.65E+02	3.12E+01	1.17E+02	1.16E+01	9.98E+01	4.84E-01	9.04E+01	4.79E+01
30	1.62E+02	3.14E+01	1.14E+02	1.17E+01	9.91E+01	4.94E-01	9.60E+01	3.00E+01
31	1.58E+02	3.17E+01	1.11E+02	1.18E+01	9.83E+01	5.05E-01	9.56E+01	2.99E+01
32	1.55E+02	3.20E+01	1.08E+02	1.19E+01	9.75E+01	5.15E-01	9.53E+01	2.98E+01
33	1.52E+02	3.22E+01	1.06E+02	1.21E+01	9.68E+01	5.25E-01	9.49E+01	2.97E+01
34	1.48E+02	3.25E+01	1.04E+02	1.22E+01	9.61E+01	5.35E-01	9.46E+01	2.95E+01
35	1.45E+02	3.27E+01	1.01E+02	1.23E+01	9.53E+01	5.45E-01	9.42E+01	2.94E+01
36	1.42E+02	3.30E+01	9.94E+01	1.24E+01	9.46E+01	5.55E-01	9.38E+01	2.93E+01
37	1.39E+02	3.32E+01	9.76E+01	1.25E+01	9.38E+01	5.64E-01	9.35E+01	2.92E+01
38	1.35E+02	3.34E+01	9.59E+01	1.26E+01	9.31E+01	5.74E-01	9.31E+01	2.91E+01

39	1.32E+02	3.36E+01	9.42E+01	1.27E+01	9.24E+01	5.83E-01	9.28E+01	2.90E+01
40	1.30E+02	3.38E+01	9.27E+01	1.28E+01	9.17E+01	5.93E-01	9.24E+01	2.89E+01
41	1.27E+02	3.41E+01	9.12E+01	1.29E+01	9.09E+01	6.02E-01	9.20E+01	2.88E+01
42	1.25E+02	3.43E+01	8.98E+01	1.30E+01	9.15E+01	6.31E-01	8.87E+01	5.08E+01
43	1.23E+02	3.45E+01	8.84E+01	1.31E+01	9.21E+01	6.59E-01	8.90E+01	5.10E+01
44	1.21E+02	3.46E+01	8.70E+01	1.32E+01	9.26E+01	6.88E-01	8.92E+01	5.11E+01
45	1.19E+02	3.48E+01	8.55E+01	1.33E+01	9.31E+01	7.17E-01	8.95E+01	5.12E+01
46	1.17E+02	3.50E+01	8.40E+01	1.33E+01	9.35E+01	7.46E-01	8.97E+01	5.14E+01
47	1.15E+02	3.52E+01	8.25E+01	1.34E+01	9.39E+01	7.75E-01	8.99E+01	5.15E+01
48	1.13E+02	3.54E+01	8.10E+01	1.35E+01	9.43E+01	8.04E-01	9.01E+01	5.16E+01
49	1.11E+02	3.55E+01	7.95E+01	1.36E+01	9.47E+01	8.33E-01	9.03E+01	5.17E+01
50	1.09E+02	3.57E+01	7.80E+01	1.37E+01	9.51E+01	8.62E-01	9.05E+01	5.18E+01
51	1.07E+02	3.59E+01	7.65E+01	1.38E+01	9.54E+01	8.92E-01	9.07E+01	5.19E+01
52	1.05E+02	3.60E+01	7.50E+01	1.39E+01	9.57E+01	9.21E-01	9.09E+01	5.20E+01
53	1.03E+02	3.62E+01	7.35E+01	1.39E+01	9.60E+01	9.51E-01	9.11E+01	5.21E+01
54	1.01E+02	3.63E+01	7.20E+01	1.40E+01	9.52E+01	9.60E-01	9.23E+01	2.89E+01
55	9.97E+01	3.65E+01	7.05E+01	1.41E+01	9.44E+01	9.70E-01	9.19E+01	2.88E+01
56	9.80E+01	3.66E+01	6.91E+01	1.42E+01	9.37E+01	9.79E-01	9.15E+01	2.87E+01
57	9.64E+01	3.68E+01	6.77E+01	1.42E+01	9.29E+01	9.88E-01	9.12E+01	2.86E+01
58	9.48E+01	3.69E+01	6.63E+01	1.43E+01	9.22E+01	9.98E-01	9.08E+01	2.85E+01
59	9.33E+01	3.70E+01	6.49E+01	1.44E+01	9.14E+01	1.01E+00	9.04E+01	2.84E+01
60	9.19E+01	3.72E+01	6.35E+01	1.44E+01	9.07E+01	1.02E+00	9.01E+01	2.82E+01
61	9.05E+01	3.73E+01	6.22E+01	1.45E+01	9.00E+01	1.03E+00	8.97E+01	2.81E+01
62	8.91E+01	3.74E+01	6.10E+01	1.46E+01	8.92E+01	1.03E+00	8.94E+01	2.80E+01
63	8.79E+01	3.75E+01	5.97E+01	1.46E+01	8.85E+01	1.04E+00	8.90E+01	2.79E+01
64	8.65E+01	3.77E+01	5.85E+01	1.47E+01	8.78E+01	1.05E+00	8.87E+01	2.78E+01
65	8.53E+01	3.78E+01	5.74E+01	1.47E+01	8.71E+01	1.06E+00	8.83E+01	2.77E+01
66	8.43E+01	3.79E+01	5.62E+01	1.48E+01	8.72E+01	1.09E+00	8.46E+01	5.18E+01
67	8.33E+01	3.80E+01	5.51E+01	1.49E+01	8.74E+01	1.12E+00	8.46E+01	5.18E+01
68	8.24E+01	3.81E+01	5.41E+01	1.49E+01	8.75E+01	1.15E+00	8.47E+01	5.18E+01
69	8.15E+01	3.82E+01	5.31E+01	1.50E+01	8.76E+01	1.18E+00	8.47E+01	5.19E+01
168	1.61E+01	4.24E+01	1.68E+01	1.82E+01	5.70E+01	3.14E+00	5.93E+01	4.54E+01
336	7.11E+00	3.52E+01	6.39E+00	1.92E+01	2.26E+01	6.35E+00	3.58E+01	3.48E+01
504	5.15E+00	2.89E+01	4.32E+00	1.97E+01	1.08E+01	8.10E+00	1.53E+01	2.32E+01
720	3.74E+00	2.24E+01	2.87E+00	2.02E+01	5.49E+00	9.06E+00	7.50E+00	1.61E+01
2160	6.96E-01	4.05E+00	3.21E-01	2.11E+01	4.85E-01	5.37E+00	1.75E+00	5.47E+00
4320	6.68E-02	3.27E-01	1.62E+00	2.02E+01	7.27E-02	1.27E+00	1.97E-01	8.24E-01
4800	3.97E-02	1.88E-01	1.61E+00	2.02E+01	5.22E-02	9.08E-01	6.17E-02	2.62E-01
8760	5.46E-04	2.19E-03	1.57E+00	1.96E+01	3.97E-03	5.81E-02	1.87E-02	7.57E-02
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

2/5/6/6	2.62E+03	1.09E+01	7.94E+02	5.04E+00	9.06E+01	6.96E-02	8.78E+01	2.74E+01
SUM	2.63E+03		7.99E+02		9.07E+01		1.15E+02	
Ci/g	7.10E-08		2.16E-08		2.45E-09		3.11E-09	
DIL HTO	5.9E-09							
(Ci/g)								
168	1.61E+01	4.24E+01	1.68E+01	1.82E+01	5.70E+01	3.14E+00	5.93E+01	4.54E+01
SUM	5.85E+01		3.50E+01		6.01E+01		1.05E+02	
Ci/g	1.58E-09		9.45E-10		1.62E-09		2.83E-09	
DIL OBT	2.4E-09							
Ci/g								
8760	5.46E-04	2.19E-03	1.57E+00	1.96E+01	3.97E-03	5.81E-02	1.87E-02	7.57E-02
SUM	2.73E-03		2.12E+01		6.21E-02		9.43E-02	
Ci/g	7.38E-14		5.73E-10		1.68E-12		2.55E-12	
DIL OBT	2.4E-09							
Ci/g								

SRTC Release Scenario 1-RD-3, Adverse Met Conditions								
Concentration Values for 50 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	2.96E+01	0.00E+00	0.00E+00	0.00E+00	3.25E-02	3.49E-06	3.94E-03	1.23E-03
2	6.49E+01	5.72E-02	2.05E+00	7.81E-03	2.74E-01	5.47E-05	3.30E-02	1.32E-02
3	6.68E+01	1.83E+01	6.83E+00	2.83E-02	7.58E-01	2.10E-04	1.03E-01	4.37E-02
4	5.97E+01	3.12E-01	1.20E+01	5.57E-02	1.31E+00	4.85E-04	2.09E-01	9.05E-02
5	7.77E+01	4.27E-01	1.66E+01	8.64E-02	1.87E+00	8.82E-04	3.43E-01	1.50E-01
6	8.10E+01	5.77E-01	2.18E+01	1.25E-01	1.91E+00	1.09E-03	1.85E+00	5.77E-01
7	6.95E+01	7.33E-01	2.69E+01	1.69E-01	1.94E+00	1.30E-03	1.87E+00	5.82E-01
8	1.50E+02	1.36E+00	4.91E+01	2.83E-01	2.24E+00	1.54E-03	1.97E+00	6.13E-01
9	3.20E+02	2.92E+00	1.08E+02	5.61E-01	2.99E+00	1.86E-03	2.20E+00	6.85E-01
10	1.49E+02	3.54E+00	1.35E+02	7.86E-01	3.00E+00	2.18E-03	2.34E+00	7.29E-01
11	8.73E+01	3.83E+00	1.43E+02	9.68E-01	3.01E+00	2.50E-03	2.44E+00	7.59E-01
12	6.39E+01	3.99E+00	1.40E+02	1.12E+00	3.01E+00	2.82E-03	2.51E+00	7.81E-01
13	5.44E+01	4.11E+00	1.31E+02	1.24E+00	3.01E+00	3.14E-03	2.56E+00	7.97E-01
14	4.99E+01	4.21E+00	1.19E+02	1.33E+00	3.01E+00	3.47E-03	2.60E+00	8.09E-01
15	4.74E+01	4.30E+00	1.06E+02	1.42E+00	3.01E+00	3.79E-03	2.63E+00	8.19E-01
16	4.57E+01	4.39E+00	9.34E+01	1.49E+00	3.01E+00	4.11E-03	2.66E+00	8.28E-01
17	4.45E+01	4.47E+00	8.21E+01	1.55E+00	3.01E+00	4.43E-03	2.68E+00	8.34E-01
18	4.34E+01	4.55E+00	7.21E+01	1.60E+00	3.48E+00	7.34E-03	3.37E+00	4.13E+00
19	4.25E+01	4.63E+00	6.34E+01	1.65E+00	3.93E+00	1.03E-02	3.59E+00	4.22E+00
20	4.16E+01	4.70E+00	5.61E+01	1.69E+00	4.36E+00	1.34E-02	3.80E+00	4.32E+00
21	4.09E+01	4.78E+00	4.99E+01	1.73E+00	4.78E+00	1.66E-02	4.01E+00	4.41E+00
22	4.03E+01	4.85E+00	4.48E+01	1.77E+00	5.19E+00	1.99E-02	4.21E+00	4.50E+00
23	3.99E+01	4.92E+00	4.06E+01	1.80E+00	5.59E+00	2.32E-02	4.42E+00	4.59E+00
24	3.95E+01	4.99E+00	3.72E+01	1.83E+00	5.99E+00	2.66E-02	4.61E+00	4.67E+00
25	3.91E+01	5.06E+00	3.44E+01	1.86E+00	6.37E+00	3.01E-02	4.81E+00	4.76E+00
26	3.88E+01	5.13E+00	3.22E+01	1.89E+00	6.75E+00	3.37E-02	5.00E+00	4.85E+00
27	3.85E+01	5.20E+00	3.04E+01	1.92E+00	7.12E+00	3.74E-02	5.19E+00	4.93E+00
28	3.81E+01	5.27E+00	2.89E+01	1.95E+00	7.48E+00	4.11E-02	5.38E+00	5.01E+00
29	3.78E+01	5.34E+00	2.78E+01	1.98E+00	7.84E+00	4.49E-02	5.56E+00	5.10E+00
30	3.75E+01	5.40E+00	2.69E+01	2.01E+00	7.79E+00	4.57E-02	5.55E+00	2.36E+00
31	3.72E+01	5.47E+00	2.62E+01	2.03E+00	7.74E+00	4.65E-02	5.53E+00	2.35E+00
32	3.69E+01	5.53E+00	2.57E+01	2.06E+00	7.70E+00	4.73E-02	5.50E+00	2.35E+00
33	3.66E+01	5.60E+00	2.52E+01	2.09E+00	7.65E+00	4.81E-02	5.48E+00	2.34E+00
34	3.63E+01	5.66E+00	2.49E+01	2.12E+00	7.60E+00	4.89E-02	5.46E+00	2.33E+00
35	3.59E+01	5.72E+00	2.47E+01	2.14E+00	7.56E+00	4.96E-02	5.44E+00	2.33E+00
36	3.56E+01	5.78E+00	2.45E+01	2.17E+00	7.51E+00	5.04E-02	5.42E+00	2.32E+00
37	3.52E+01	5.84E+00	2.44E+01	2.20E+00	7.47E+00	5.12E-02	5.39E+00	2.31E+00
38	3.48E+01	5.91E+00	2.43E+01	2.22E+00	7.42E+00	5.19E-02	5.37E+00	2.30E+00

39	3.44E+01	5.96E+00	2.42E+01	2.25E+00	7.38E+00	5.27E-02	7.35E+00	2.30E+00
40	3.40E+01	6.02E+00	2.42E+01	2.28E+00	7.33E+00	5.34E-02	7.33E+00	2.29E+00
41	3.36E+01	6.08E+00	2.41E+01	2.30E+00	7.29E+00	5.42E-02	7.30E+00	2.28E+00
42	3.33E+01	6.14E+00	2.41E+01	2.33E+00	7.59E+00	5.85E-02	7.35E+00	6.53E+00
43	3.29E+01	6.19E+00	2.41E+01	2.36E+00	7.88E+00	6.28E-02	7.50E+00	6.60E+00
44	3.26E+01	6.25E+00	2.40E+01	2.38E+00	8.17E+00	6.72E-02	7.64E+00	6.66E+00
45	3.23E+01	6.30E+00	2.39E+01	2.41E+00	8.45E+00	7.16E-02	7.77E+00	6.72E+00
46	3.19E+01	6.36E+00	2.38E+01	2.44E+00	8.72E+00	7.61E-02	7.91E+00	6.78E+00
47	3.16E+01	6.41E+00	2.37E+01	2.46E+00	8.99E+00	8.06E-02	8.04E+00	6.84E+00
48	3.12E+01	6.46E+00	2.35E+01	2.49E+00	9.25E+00	8.52E-02	8.18E+00	6.90E+00
49	3.09E+01	6.52E+00	2.33E+01	2.51E+00	9.51E+00	8.99E-02	8.31E+00	6.95E+00
50	3.05E+01	6.57E+00	2.31E+01	2.54E+00	9.76E+00	9.46E-02	8.43E+00	7.01E+00
51	3.02E+01	6.62E+00	2.29E+01	2.56E+00	1.00E+01	9.93E-02	8.56E+00	7.06E+00
52	2.98E+01	6.67E+00	2.27E+01	2.59E+00	1.02E+01	1.04E-01	8.68E+00	7.12E+00
53	2.94E+01	6.72E+00	2.24E+01	2.61E+00	1.05E+01	1.09E-01	8.81E+00	7.17E+00
54	2.90E+01	6.76E+00	2.22E+01	2.64E+00	1.04E+01	1.10E-01	1.01E+01	3.16E+00
55	2.86E+01	6.81E+00	2.19E+01	2.66E+00	1.03E+01	1.11E-01	1.00E+01	3.15E+00
56	2.82E+01	6.86E+00	2.17E+01	2.68E+00	1.03E+01	1.12E-01	1.00E+01	3.14E+00
57	2.78E+01	6.90E+00	2.14E+01	2.71E+00	1.02E+01	1.13E-01	9.97E+00	3.13E+00
58	2.74E+01	6.95E+00	2.11E+01	2.73E+00	1.01E+01	1.14E-01	9.93E+00	3.11E+00
59	2.70E+01	6.99E+00	2.08E+01	2.75E+00	1.00E+01	1.15E-01	9.90E+00	3.10E+00
60	2.67E+01	7.03E+00	2.05E+01	2.77E+00	9.96E+00	1.16E-01	9.86E+00	3.09E+00
61	2.63E+01	7.08E+00	2.02E+01	2.79E+00	9.89E+00	1.17E-01	9.83E+00	3.08E+00
62	2.59E+01	7.12E+00	1.99E+01	2.82E+00	9.81E+00	1.18E-01	9.79E+00	3.07E+00
63	2.56E+01	7.16E+00	1.96E+01	2.84E+00	9.74E+00	1.19E-01	9.76E+00	3.06E+00
64	2.52E+01	7.20E+00	1.93E+01	2.86E+00	9.67E+00	1.20E-01	9.72E+00	3.05E+00
65	2.49E+01	7.24E+00	1.90E+01	2.88E+00	9.60E+00	1.21E-01	9.69E+00	3.04E+00
66	2.45E+01	7.28E+00	1.87E+01	2.90E+00	9.78E+00	1.26E-01	9.48E+00	7.97E+00
67	2.42E+01	7.31E+00	1.84E+01	2.92E+00	9.96E+00	1.31E-01	9.57E+00	8.00E+00
68	2.39E+01	7.35E+00	1.82E+01	2.94E+00	1.01E+01	1.36E-01	9.65E+00	8.04E+00
69	2.36E+01	7.39E+00	1.79E+01	2.96E+00	1.03E+01	1.41E-01	9.74E+00	8.08E+00
168	3.43E+00	8.93E+00	4.59E+00	4.02E+00	9.95E+00	5.22E-01	1.02E+01	9.07E+00
336	1.43E+00	7.41E+00	1.40E+00	4.24E+00	4.35E+00	1.23E+00	6.54E+00	7.23E+00
504	1.03E+00	6.08E+00	9.37E-01	4.36E+00	2.22E+00	1.63E+00	3.03E+00	4.98E+00
720	7.43E-01	4.71E+00	6.21E-01	4.46E+00	1.18E+00	1.86E+00	1.58E+00	3.49E+00
2160	1.38E-01	8.41E-01	6.89E-02	4.65E+00	1.04E-01	1.13E+00	3.78E-01	1.19E+00
4320	1.32E-02	6.68E-02	3.49E-01	4.46E+00	1.52E-02	2.68E-01	4.17E-02	1.75E-01
4800	7.86E-03	3.84E-02	3.48E-01	4.45E+00	1.09E-02	1.92E-01	1.29E-02	5.53E-02
8760	1.08E-04	4.38E-04	3.39E-01	4.34E+00	8.21E-04	1.23E-02	3.87E-03	1.59E-02
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
VEGETABLES			WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

9/11/53/6	3.20E+02	2.92E+00	1.43E+02	9.68E-01	1.05E+01	1.09E-01	1.01E+01	3.16E+00
SUM	3.23E+02		1.44E+02		1.06E+01		1.32E+01	
Ci/g	8.72E-09		3.90E-09		2.86E-10		3.58E-10	
DIL HTO (Ci/g)	5.9E-09							
168	3.43E+00	8.93E+00	4.59E+00	4.02E+00	9.95E+00	5.22E-01	1.02E+01	9.07E+00
SUM	1.24E+01		8.60E+00		1.05E+01		1.93E+01	
Ci/g	3.34E-10		2.33E-10		2.83E-10		5.20E-10	
DIL OBT Ci/g	2.4E-09							
8760	1.08E-04	4.38E-04	3.39E-01	4.34E+00	8.21E-04	1.23E-02	3.87E-03	1.59E-02
SUM	5.46E-04		4.68E+00		1.31E-02		1.98E-02	
Ci/g	1.47E-14		1.26E-10		3.54E-13		5.35E-13	
DIL OBT Ci/g	2.4E-09							

SRTC Release Scenario 1-RD-3, Adverse Met Conditions								
Concentration Values for 100 km from release								
Only Wheat Seed is examined since this is the edible portion of the Wheat. The "WHEAT" category is actually the unedible plant body and is not considered in the dose estimate.								
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
1	9.70E-01	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.15E-07	1.29E-04	4.02E-05
2	2.78E+00	1.88E-03	6.74E-02	2.57E-04	9.72E-03	1.87E-06	1.16E-03	4.58E-04
3	3.83E+00	7.27E-03	2.70E-01	1.10E-03	3.12E-02	8.13E-06	4.07E-03	1.70E-03
4	4.37E+00	1.47E-02	5.60E-01	2.51E-03	6.21E-02	2.10E-05	9.17E-03	3.94E-03
5	5.78E+00	2.31E-02	8.91E-01	4.39E-03	1.00E-01	4.21E-05	1.65E-02	7.18E-03
6	6.89E+00	3.43E-02	1.31E+00	6.96E-03	1.05E-01	5.33E-05	1.02E-01	3.17E-02
7	7.22E+00	4.76E-02	1.78E+00	1.02E-02	1.09E-01	6.51E-05	1.04E-01	3.23E-02
8	8.48E+00	6.15E-02	2.25E+00	1.40E-02	1.15E-01	7.74E-05	1.06E-01	3.31E-02
9	1.19E+01	7.78E-02	2.76E+00	1.84E-02	1.24E-01	9.06E-05	1.10E-01	3.42E-02
10	1.24E+01	1.01E-01	3.48E+00	2.42E-02	1.31E-01	1.05E-04	1.13E-01	3.53E-02
11	1.18E+01	1.25E-01	4.20E+00	3.09E-02	1.38E-01	1.20E-04	1.17E-01	3.63E-02
12	1.40E+01	1.47E-01	4.83E+00	3.79E-02	1.48E-01	1.35E-04	1.20E-01	3.75E-02
13	2.22E+01	1.74E-01	5.53E+00	4.60E-02	1.65E-01	1.53E-04	1.25E-01	3.91E-02
14	2.07E+01	2.17E-01	6.75E+00	5.68E-02	1.78E-01	1.72E-04	1.31E-01	4.07E-02
15	1.79E+01	2.57E-01	7.88E+00	6.86E-02	1.88E-01	1.92E-04	1.36E-01	4.23E-02
16	3.63E+01	4.02E-01	1.29E+01	9.65E-02	2.60E-01	2.20E-04	1.46E-01	4.56E-02
17	9.01E+01	8.37E-01	2.93E+01	1.73E-01	4.76E-01	2.71E-04	1.73E-01	5.37E-02
18	4.26E+01	1.01E+00	3.71E+01	2.36E-01	1.49E+00	9.44E-04	1.44E+00	1.07E+00
19	2.54E+01	1.09E+00	3.96E+01	2.86E-01	2.11E+00	1.76E-03	1.74E+00	1.21E+00
20	1.89E+01	1.14E+00	3.89E+01	3.28E-01	2.53E+00	2.66E-03	1.98E+00	1.32E+00
21	1.63E+01	1.17E+00	3.65E+01	3.62E-01	2.82E+00	3.64E-03	2.17E+00	1.41E+00
22	1.52E+01	1.20E+00	3.33E+01	3.90E-01	3.04E+00	4.66E-03	2.32E+00	1.48E+00
23	1.47E+01	1.23E+00	2.99E+01	4.15E-01	3.23E+00	5.72E-03	2.46E+00	1.54E+00
24	1.44E+01	1.26E+00	2.66E+01	4.35E-01	3.39E+00	6.81E-03	2.58E+00	1.59E+00
25	1.43E+01	1.29E+00	2.36E+01	4.54E-01	3.53E+00	7.94E-03	2.68E+00	1.64E+00
26	1.43E+01	1.31E+00	2.10E+01	4.70E-01	3.67E+00	9.10E-03	2.78E+00	1.69E+00
27	1.43E+01	1.34E+00	1.87E+01	4.85E-01	3.80E+00	1.03E-02	2.87E+00	1.73E+00
28	1.43E+01	1.36E+00	1.69E+01	4.98E-01	3.93E+00	1.15E-02	2.96E+00	1.77E+00
29	1.43E+01	1.39E+00	1.53E+01	5.11E-01	4.06E+00	1.28E-02	3.04E+00	1.80E+00
30	1.44E+01	1.41E+00	1.41E+01	5.24E-01	4.03E+00	1.32E-02	3.91E+00	1.22E+00
31	1.45E+01	1.44E+00	1.31E+01	5.36E-01	4.01E+00	1.36E-02	3.90E+00	1.22E+00
32	1.45E+01	1.47E+00	1.24E+01	5.47E-01	3.98E+00	1.40E-02	3.89E+00	1.21E+00
33	1.46E+01	1.49E+00	1.18E+01	5.59E-01	3.96E+00	1.44E-02	3.87E+00	1.21E+00
34	1.47E+01	1.52E+00	1.14E+01	5.70E-01	3.93E+00	1.49E-02	3.86E+00	1.21E+00
35	1.48E+01	1.55E+00	1.11E+01	5.82E-01	3.91E+00	1.53E-02	3.85E+00	1.20E+00
36	1.48E+01	1.57E+00	1.09E+01	5.93E-01	3.88E+00	1.57E-02	3.84E+00	1.20E+00
37	1.49E+01	1.60E+00	1.07E+01	6.05E-01	3.86E+00	1.61E-02	3.82E+00	1.19E+00
38	1.49E+01	1.63E+00	1.07E+01	6.17E-01	3.84E+00	1.65E-02	3.81E+00	1.19E+00

39	1.50E+01	1.65E+00	1.07E+01	6.29E-01	3.81E+00	1.69E-02	3.80E+00	1.19E+00
40	1.50E+01	1.68E+00	1.07E+01	6.41E-01	3.79E+00	1.73E-02	3.79E+00	1.18E+00
41	1.50E+01	1.71E+00	1.08E+01	6.53E-01	3.77E+00	1.77E-02	3.78E+00	1.18E+00
42	1.50E+01	1.73E+00	1.09E+01	6.65E-01	3.90E+00	1.91E-02	3.78E+00	2.44E+00
43	1.51E+01	1.76E+00	1.10E+01	6.78E-01	4.03E+00	2.06E-02	3.84E+00	2.47E+00
44	1.51E+01	1.79E+00	1.11E+01	6.91E-01	4.16E+00	2.21E-02	3.91E+00	2.49E+00
45	1.51E+01	1.81E+00	1.12E+01	7.03E-01	4.29E+00	2.36E-02	3.97E+00	2.52E+00
46	1.51E+01	1.84E+00	1.13E+01	7.16E-01	4.42E+00	2.52E-02	4.03E+00	2.55E+00
47	1.51E+01	1.87E+00	1.14E+01	7.29E-01	4.55E+00	2.67E-02	4.09E+00	2.58E+00
48	1.51E+01	1.89E+00	1.15E+01	7.42E-01	4.67E+00	2.83E-02	4.16E+00	2.61E+00
49	1.51E+01	1.92E+00	1.15E+01	7.55E-01	4.80E+00	3.00E-02	4.22E+00	2.64E+00
50	1.51E+01	1.95E+00	1.16E+01	7.68E-01	4.92E+00	3.16E-02	4.28E+00	2.67E+00
51	1.50E+01	1.97E+00	1.16E+01	7.81E-01	5.05E+00	3.33E-02	4.34E+00	2.69E+00
52	1.50E+01	2.00E+00	1.16E+01	7.94E-01	5.17E+00	3.51E-02	4.40E+00	2.72E+00
53	1.50E+01	2.03E+00	1.16E+01	8.07E-01	5.29E+00	3.68E-02	4.46E+00	2.75E+00
54	1.49E+01	2.05E+00	1.17E+01	8.20E-01	5.25E+00	3.73E-02	5.09E+00	1.59E+00
55	1.48E+01	2.08E+00	1.17E+01	8.33E-01	5.21E+00	3.79E-02	5.07E+00	1.59E+00
56	1.47E+01	2.10E+00	1.17E+01	8.46E-01	5.18E+00	3.84E-02	5.05E+00	1.58E+00
57	1.46E+01	2.13E+00	1.16E+01	8.59E-01	5.14E+00	3.89E-02	5.04E+00	1.58E+00
58	1.45E+01	2.16E+00	1.16E+01	8.72E-01	5.11E+00	3.95E-02	5.02E+00	1.57E+00
59	1.44E+01	2.18E+00	1.16E+01	8.84E-01	5.07E+00	4.00E-02	5.00E+00	1.57E+00
60	1.43E+01	2.21E+00	1.15E+01	8.97E-01	5.04E+00	4.05E-02	4.99E+00	1.56E+00
61	1.42E+01	2.23E+00	1.15E+01	9.10E-01	5.01E+00	4.10E-02	4.97E+00	1.56E+00
62	1.41E+01	2.25E+00	1.14E+01	9.22E-01	4.97E+00	4.15E-02	4.95E+00	1.55E+00
63	1.39E+01	2.28E+00	1.14E+01	9.35E-01	4.94E+00	4.20E-02	4.94E+00	1.54E+00
64	1.38E+01	2.30E+00	1.13E+01	9.47E-01	4.90E+00	4.25E-02	4.92E+00	1.54E+00
65	1.36E+01	2.33E+00	1.12E+01	9.59E-01	4.87E+00	4.30E-02	4.90E+00	1.53E+00
66	1.34E+01	2.35E+00	1.11E+01	9.71E-01	4.98E+00	4.49E-02	4.82E+00	3.21E+00
67	1.33E+01	2.37E+00	1.10E+01	9.83E-01	5.08E+00	4.68E-02	4.88E+00	3.23E+00
68	1.31E+01	2.40E+00	1.09E+01	9.95E-01	5.19E+00	4.88E-02	4.93E+00	3.26E+00
69	1.29E+01	2.42E+00	1.08E+01	1.01E+00	5.29E+00	5.07E-02	4.98E+00	3.28E+00
168	1.31E+00	3.42E+00	2.41E+00	1.66E+00	5.36E+00	2.16E-01	5.52E+00	4.13E+00
336	5.28E-01	2.84E+00	5.72E-01	1.75E+00	2.10E+00	5.17E-01	3.36E+00	3.18E+00
504	3.77E-01	2.33E+00	3.81E-01	1.80E+00	9.89E-01	6.83E-01	1.41E+00	2.10E+00
720	2.72E-01	1.80E+00	2.52E-01	1.84E+00	4.95E-01	7.77E-01	6.81E-01	1.45E+00
2160	5.01E-02	3.19E-01	2.79E-02	1.92E+00	4.23E-02	4.70E-01	1.56E-01	4.88E-01
4320	4.81E-03	2.50E-02	1.41E-01	1.84E+00	6.15E-03	1.11E-01	1.70E-02	7.22E-02
4800	2.86E-03	1.43E-02	1.41E-01	1.84E+00	4.40E-03	7.94E-02	5.22E-03	2.28E-02
8760	3.93E-05	1.61E-04	1.37E-01	1.79E+00	3.30E-04	5.06E-03	1.57E-03	6.55E-03
DIL OBT	2.4E6 pCi/L	8.88E+4 Bq/kg	88.8 Bq/g					
DIL HTO	5.9E6 pCi/L	2.18E+5 Bq/kg	218.3 Bq/g					
	VEGETABLES		WHEAT SEED		MEAT		MILK	
HOUR	HTO	OBT	HTO	OBT	HTO	OBT	HTO	OBT
	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)	(Bq/g)
Peak HTO								

17/19/29/5 4	9.01E+01	8.37E-01	3.96E+01	2.86E-01	4.06E+00	1.28E-02	5.09E+00	1.59E+00
SUM	9.09E+01		3.99E+01		4.07E+00		6.68E+00	
Ci/g	2.46E-09		1.08E-09		1.10E-10		1.81E-10	
DIL HTO (Ci/g)	5.9E-09							
168	1.31E+00	3.42E+00	2.41E+00	1.66E+00	5.36E+00	2.16E-01	5.52E+00	4.13E+00
SUM	4.74E+00		4.07E+00		5.57E+00		9.65E+00	
Ci/g	1.28E-10		1.10E-10		1.51E-10		2.61E-10	
DIL OBT Ci/g	2.4E-09							
8760	3.93E-05	1.61E-04	1.37E-01	1.79E+00	3.30E-04	5.06E-03	1.57E-03	6.55E-03
SUM	2.00E-04		1.93E+00		5.38E-03		8.12E-03	
Ci/g	5.42E-15		5.21E-11		1.46E-13		2.19E-13	
DIL OBT Ci/g	2.4E-09							