

Appendix G

**Derivation of the Byproduct Material
Radionuclide Profile**

G.0 DERIVATION OF THE BYPRODUCT MATERIAL RADIONUCLIDE PROFILE

G.1 THE BYPRODUCT RADIONUCLIDE PROFILE IN RESRAD MODELING

The process to determine the appropriate byproduct radionuclide profile to be used in the byproduct source term in deriving soil DCGL for the Site entails several steps. First, the potentially enormous number of byproduct radionuclides must be narrowed down to just those present at the Site. Next, the relative proportions of these radionuclides needs to be established. Finally, this site-specific mixture is evaluated to ascertain which radionuclides are most important in terms of their ability to produce dose and thus affect the DCGL. To accomplish this, a sensitivity analysis utilizing RESRAD was devised to assess the relative effectiveness of each byproduct radionuclide detected at the site to produce dose. This process provides assurance that the byproduct source term used in the derivation of the soil DCGL is representative of the byproduct radionuclides present at the site and appropriately conservative for its intended use in the derivation of the site-specific soil DCGLs.

G.2 APPROACH TO DERIVING THE BYPRODUCT MATERIAL RADIONUCLIDE PROFILE

Characterization surveys of the environment have found that Co-60 is the predominate byproduct radionuclide at the site. The byproduct material radionuclide profile is derived in consideration of three distinct sources of radionuclide data:

- Connecticut Annual Low-Level Radioactive Waste Reports from 1999 and 2000,
- Radiological characterization of waste materials removed from impacted buildings during recent decontamination activities at the site, and
- A special series of samples from the sediments in a radioactive waste line (Evaporator line) at the site. These samples were evaluated for so-called “hard-to-detect” radionuclides in addition to the typical suite of analytes in an effort to obtain an effectively complete characterization of the radionuclide profile at the site.

These sources not only provide the byproduct radionuclides that are present at the Site, but also allow the relative proportions of the radionuclides to be determined. Because Co-60 is the predominant byproduct radionuclide at the site and is readily detected and quantified, all other reported (detected) radionuclides from each of the data sets is scaled to Co-60. Radioactive decay corrections are not applied to any of the reported radionuclide activities. Instead, the highest, uncorrected concentration ratio for each radionuclide is determined for each discretely reported value in each of the three data sources. Then, the highest ratio for each radionuclide from among the three sets of ratios is identified and selected for use in the byproduct material radionuclide sensitivity analysis. The resulting suite of radionuclides with their respective activity concentrations represent the worst-case isotopic mixture that might be derived from the available data.

The sensitivity analysis utilizes RESRAD 6.0 to calculate the peak mean annual effective dose equivalent resulting from the mixture of byproduct radionuclides generated during the first step. For the sensitivity analysis, the RESRAD code is setup to use the same input parameters used to evaluate the resident farmer scenario in the derivation of the soil DCGLs except for the radionuclides and their respective concentrations. The results of the sensitivity analysis are evaluated and the relative dose-producing power of each individual radionuclide is compared to total annual effective dose. Radionuclides that contribute less than 10% of the total effective dose equivalent are then screened out and excluded from consideration in the derivation of the byproduct source term as described in NUREG-1727 (USNRC, 2000b).

G.2.1 Building Decontamination Waste

The first data set used to evaluate the presence and relative proportions of byproduct radionuclides is that collected to radiologically characterize the LLRW generated during recent decontamination of impacted buildings at the site. During decontamination of the buildings, contaminated debris was placed in metal boxes (B-25) for shipment and disposal. As part of characterization of these boxes for disposal, biased (high) samples were collected from areas of elevated activity within 19 boxes and sent to an offsite contracted radiochemistry laboratory for gamma spectroscopy analysis. The results are displayed in Table G-1.

Ratios were generated for each radionuclide relative to Co-60 for each sample. Review of Table G-1 shows that total radioactivity varies significantly among the 19 samples, but their ratios relative to Co-60 are very consistent from one sample to the next. The maximum ratio for each radionuclide from all the samples is highlighted.

It is notable that this data set consistently reports none of the shorter-lived byproduct radionuclides typically associated with reactor byproduct mixtures. This is expected since it has been several years since the buildings were actively used and the shorter-lived radionuclides would have decayed to background concentrations during this time. Additionally, there are no pure beta- or alpha-emitters included in the mixture since the samples were analyzed only by gamma spectroscopy. Still, this data set—because it considers a decayed source term and captures the significant dose producing isotopes—arguably provides the best “picture” of the byproduct radionuclide profile available at the site. This data set represents the combination of historical and recent byproduct radionuclides once present in the buildings on Site. Contamination within the buildings occurred at various times from the different processes that were used.

The maximum ratio values for each radionuclide (highlighted) are carried forward in this process to be compared with comparable ratios from each of the other data sources evaluated.

Appendix G, Derivation of the Byproduct Material Radionuclide Profile

Table G-1 2002 LLRW Activity and Ratios

Sample	Ag-110m		Co-58		Co-60		Cs-134		Cs-137		Mn-54		Zn-65	
	pCi/g	Ratio	pCi/g	Ratio	pCi/g	Ratio	pCi/g	Ratio	pCi/g	Ratio	pCi/g	Ratio	pCi/g	Ratio
AS-CE04-5					70.9	1			8.1	0.1144				
BD-26-5					1850	1			113	0.0611	64.4	0.0348		
AS-CE17-1					53.4	1			6.4	0.1202				
AS-CE04-3					65.2	1			11.6	0.1779				
BD-CE27-5	99.4	0.0019			52800	1	36.6	0.0007	1980	0.0375	2660	0.0504		
BD-11-1					17200	1			830	0.0483	796	0.0463	66.5	0.0039
BD-CE27-1					2660	1			160	0.0602	144	0.0541		
AS-CE04-1					27.7	1			7.3	0.2643				
AS-CE17-3					371	1			22.5	0.0606				
BD-11-3	241.0	0.0015	148.0	0.0009	165000	1	54.1	0.0003	3430	0.0208	18500	0.1121	1120.0	0.0068
BD-CE27-3					3600	1			129	0.0358	86.9	0.0241		
BD-CE03-3					2030	1			93.4	0.0460	58.7	0.0289		
BD-26-3					5340	1			227	0.0425	284	0.0532		
BD-05-1					24500	1	19.2	0.0008	1080	0.0441	1210	0.0494		
BD-05-5					3630	1			159	0.0438	64.7	0.0178		
BD-05-3					47500	1			1880	0.0396	2290	0.0482	112.0	0.0024
BD-CE03-1	29.5	0.0016			18600	1	25.3	0.0014	741	0.0398	440	0.0237		
BD-26-1					37900	1			1270	0.0335	2140	0.0565		

Note:

Highlighted cells indicate maximum ratio for a radionuclide.

Blank cells were not detected.

G.2.2 Connecticut Annual Low-Level Radioactive Waste Report

The second data set evaluated is derived from annual reports submitted to the CTDEP by radioactive materials licensees in the state. Each year, key metrics (e.g., volume, activity, radionuclides, waste type, and waste class) are submitted to the CTDEP in a form report entitled “Connecticut Annual Low-Level Radioactive Waste Report.” Reports from 1999 and 2000 were used to compile byproduct radionuclides and ratios since these were the last two years of routine operations at the Site. Two waste streams were reported for each year as shown in Table G-2. This data set represents byproduct radionuclides in use at the Site during the most recent time period.

Table G-2 1999 & 2000 LLRW Activity and Ratios

	1999				2000			
	Waste Stream 1 mCi	Ratio	Waste Stream 2 mCi	Ratio	Waste Stream 1 mCi	Ratio	Waste Stream 2 mCi	Ratio
Am-241	0.1467	0.0046			4.4459	0.0046		
C-14	0.0307	0.0010			0.9293	0.0010		
Cm-242	0.0006	0.00002			0.0180	0.00002		
Cm-244	0.0008	0.00003			0.0255	0.00003		
Co-58	2.8698	0.0901			86.9530	0.0901	1.7822	0.0933
Co-60	31.8636	1.0000	0.0008	1.0000	965.4400	1.0000	19.0990	1.0000
Cs-134			0.0000	0.0546				
Cs-137	0.4872	0.0153	0.0000	0.0207	14.7620	0.0153	0.2719	0.0142
Fe-55	1.2706	0.0399			38.4980	0.0399	0.7608	0.0398
Mn-54	1.1917	0.0374			36.1090	0.0374	0.7129	0.0373
Ni-63	0.0762	0.0024			2.3098	0.0024	0.3405	0.0178
Sb-125	2.1907	0.0688	0.0001	0.0687	66.3760	0.0688	1.3114	0.0687
Sr-90	0.0583	0.0018			1.7656	0.0018		
Tl-208			4.14E-06	0.0055				
Zr-95	3.6271	0.1138			109.9000	0.1138	2.2025	0.1153

Note:

Highlighted cells indicate maximum ratio (relative to Co-60) for a radionuclide in that year.

Blank cells indicate radionuclides that were not detected in a given waste stream.

Review of Table G-2 shows that total radioactivity varies during the two years, but the ratios are very consistent. The radionuclide mixture identified in this data source is very similar to the activation byproduct radionuclides associated with nuclear power plant operations and is quite similar to the previous data set, with two notable exceptions. First, this data represents a radionuclide mixture closer in time to the point of generation than the previous data set evaluated. As a result, shorter-lived radionuclides do appear in this data set. Second, radionuclides that decay by pure beta- or alpha-emission appear in this data set.

Ratios are again generated for each radionuclide relative to Co-60 for each waste stream per year. The maximum ratio for each radionuclide in each year is highlighted. Four of the radionuclides in Table G-2 have short half-lives and are not carried forward in the

derivation of byproduct source term. These four radionuclides are: Cm-242, Co-58, Tl-208, and Zr-95. Cm-242 has a half-life of 163 days, Co-58 has a half-life of 71 days, Tl-208 has a half-life of 3 minutes, and Zr-95 has a half-life of 64 days. Compared to the other radionuclides in the mixture, these four will decay quickly and will not contribute any significant dose in the future.

The maximum ratio values for each year (highlighted) were compiled into Table G-3. The same evaluation process was repeated and the maximum ratio for each radionuclide is highlighted. These highlighted values will be compared to maximum ratios from the other two data sets in order to derive the byproduct radionuclide mixture

Table G-3 Summary of LLRW Maximum Ratios

	1999 LLRW	2000 LLRW
Am-241	0.0046	0.0046
C-14	0.0010	0.0010
Cm-244	0.00003	0.00003
Co-60	1.0000	1.0000
Cs-134	0.0546	
Cs-137	0.0207	0.0153
Fe-55	0.0399	0.0399
Mn-54	0.0374	0.0374
Ni-63	0.0024	0.0178
Sb-125	0.0688	0.0688
Sr-90	0.0018	0.0018

G.2.3 Waste Line Sediment

The third data set evaluated is comprised of analytical results for sediment samples from the radioactive waste line that serviced the Building 5 and 17 Complexes. Historical records indicate that the sediment in this waste line (as opposed to other waste lines on site) had higher concentrations of radionuclides. Sediment samples were collected from three manholes that service the drain line and sent to an offsite contracted radiochemistry laboratory for full analysis of radionuclides, including “hard-to-detect” radionuclides. The results are presented in Table G-4.

Review of Table G-4 shows that total radioactivity varies in the three samples and that many of the maximum ratios are based upon results from a single sample. Ratios were generated for each radionuclide relative to Co-60 for each sample. The maximum ratio for each radionuclide from among the samples is highlighted. This radionuclide mixture is very similar to the previous data sets but with tritium (in concentration near the detection limit) appearing on one sample. None of the short-lived radionuclides were identified, as expected, since it has been more than 10 years since the waste line has been in active use.

Table G-4 Waste Line Sediment Activity and Ratios

	Manhole #4E	Co-60 Ratio	Manhole #5E	Co-60 Ratio	Manhole #7E	Co-60 Ratio
Am-241	0.169	0.0207			0.666	0.0198
Cm-243/244					0.154	0.0046
Cm-245/246			0.0676	0.0021	0.773	0.0229
Co-57			0.669	0.0210		
Co-60	8.17	1	31.8	1	33.7	1
Cs-137	2.6	0.3182	4.13	0.1299	5.59	0.1659
Fe-55					66	1.9585
H-3	50.7	6.2056	55	1.7296	9.36	0.2777
Ni-63			4.18	0.1314	7.85	0.2329
Pu-238			0.0899	0.0028	0.257	0.0076
Pu-239/240	0.391	0.0479				
Pu-241					29.3	0.8694
Sr-90					1.65	0.0490

Note:
 Highlighted cells indicate maximum ratio for a radionuclide.
 Blank cells were not detected.

This data set represents the historical byproduct radionuclides on Site. The waste line received wastes from various processes over time and the sediment presents a conglomeration of long-lived radionuclides that have been utilized at the Site. The maximum ratio values for each radionuclide (highlighted) are again carried forward in the isotopic selection and screening process. These highlighted values will be compared to maximum ratios from the other two data sets in order to derive the byproduct radionuclide mixture

G.3 RESRAD SCREENING MODEL

The next phase in the process is to create a mixture of soil concentrations for input to the byproduct source term in RESRAD for the sensitivity analysis. The objective in identifying the source term radionuclides is to establish a complete suite of byproduct radionuclides and to assign to them activity concentrations that represent the highest concentration proportions (relative to Co-60) that have been observed on the site. This source term gives rise to the maximum dose producing potential of each isotope in the byproduct mixture relative to Co-60. The maximum Co-60 ratios for each radionuclide from among the three data sets are selected, combined, and presented in Table G-5. The same process of selecting the maximum ratio for each radionuclide is followed and these ratios are highlighted in Table G-5. In order to convert the radionuclide ratios into concentrations for use in RESRAD, a nominal value of 5 pCi/g for chosen for Co-60. Then all the ratios were multiplied by 5 to create input concentrations for RESRAD as shown in the 'RESRAD Input' column of Table G-5. The same value was conservatively used for several pairs of radionuclides that are reported as pairs: Cm-243 + Cm-244, Cm-

245 + Cm-246, and Pu-239 + Pu-240¹. This mixture of byproduct radionuclides is conservative by design since the maximum ratios were determined based upon individual samples and only the maximum ratios were evaluated from each of the data sets. Therefore the byproduct source term mixture input to RESRAD for the sensitivity analysis contains the maximum amount of radionuclides that could be present at the Site.

Table G-5 RESRAD Input

Radionuclide	1999 & 2000 LLRW	2002 LLRW	2003 Sediment	Maximum Ratio	RESRAD Input (pCi/g)
Ag-110m		0.0019		0.0019	0.0095
Am-241	0.0046		0.0207	0.0207	0.1035
C-14	0.001			0.0010	0.0050
Cm-243	0.00003		0.0046	0.0046	0.0230
Cm-244	0.00003		0.0046	0.0046	0.0230
Cm-245			0.0229	0.0229	0.1145
Cm-246			0.0229	0.0229	0.1145
Co-57			0.021	0.0210	0.1050
Co-60					5.0000
Cs-134	0.0546	0.0014		0.0546	0.2730
Cs-137	0.0207	0.2643	0.3182	0.3182	1.5910
Fe-55	0.0399		1.9585	1.9585	9.7925
H-3			6.2056	6.2056	31.0280
Mn-54	0.0374	0.1121		0.1121	0.5605
Ni-63	0.0178		0.2329	0.2329	1.1645
Pu-238			0.0076	0.0076	0.0380
Pu-239			0.0479	0.0479	0.2395
Pu-240			0.0479	0.0479	0.2395
Pu-241			0.8694	0.8694	4.3470
Sb-125	0.0688			0.0688	0.3440
Sr-90	0.0018		0.049	0.0490	0.2450
Zn-65		0.0068		0.0068	0.0340

Note:
 Highlighted cells indicate maximum ratio for a radionuclide.
 Blank cells were not detected.

This mixture of radionuclides was input to RESRAD for a sensitivity analysis. The scenario used in the sensitivity analysis is the resident farmer scenario as it has the most comprehensive suite of physically complete exposure pathways among all of the scenarios considered. The RESRAD parameters used are the same as those described for the resident farmer scenario in deriving the soil DCGLs. RESRAD's Deterministic Summary Report (the output file that exhaustively lists all of the input parameters and their values) is included at the end of this appendix. The sensitivity analysis in RESRAD

¹ Some isotopes cannot be distinguished from one another in certain analytical techniques. In such a case, the common practice is to report the total activity of these isotopes as a sum without distinction (e.g., Cm-243/244 = 0.05 pCi/g). In the sensitivity analysis, both Cm-243 and Cm-244 were each assigned a value equal to the sum.

evaluates the maximum byproduct radionuclide mixture (by concentration) in terms of the ability of individual isotopes to produce a significant annual dose following license termination.

G.3.1 Result of the Sensitivity Analysis

The result of the RESRAD run is summarized in Table G-6. The maximum dose occurs at time equals zero years². The results show that the primary dose producing radionuclides are Co-60 (86.6%), Cs-137 (7.0%), Cs-134 (2.7%), and Mn-54 (2.3%). The rest of the radionuclides individually produce less than 1% of the total annual dose equivalent.

As described in regulatory guidance, in situations where almost all of the dose comes from just one or two of the nuclides in a mixture, the presence of nuclides that likely contribute less than 10% of the total effective dose equivalent may be ignored (USNRC, 2000b). As indicated by the isotopic contribution to total annual dose, only Co-60 produces as much as 10% of the total dose by isotope. Thus, the byproduct source term can be effectively simplified to consider only Co-60.

Graphics depicting the relative importance³ of each of the radionuclides evaluated in the sensitivity analysis are also presented (Figure G-1 through Figure G-27). These graphic portrayals reveal a number of key points for the risk managers and decision makers to consider.

- The projected annual dose decreases fairly rapidly and steadily over time (Figure G-1)
- Essentially all projected dose comes from a single pathway—external (penetrating) gamma radiation (Figure G-1)
- There is little correlation between the projected annual dose and any hydraulic movement of radioactivity in the soil (Figure G-2).
- No individual radionuclide produces an upward trend in annual dose at the end of the 1000-year outlook
- The isotopes that do produce a significant portion of their respective contribution to total dose through an exposure pathway other than the external pathway (e.g., drinking water, fish ingestion, meat ingestion, milk ingestion, inhalation) contribute far less than 1% to the projected total annual dose

2 It is important to understand that no attempt was made in the sensitivity analysis to adjust the source term such that the maximum total annual dose equivalent was equal to decommissioning standards of 19 or 25 mrem/y. Such is not necessary since the sensitivity analysis was focused on the relative ability of individual isotopes to produce dose. Additionally, the sensitivity analysis makes use of the deterministic module in RESRAD as opposed to the probabilistic module. There will always be some differences in the results of the two calculations. By using the deterministic module (with a vast majority of input parameters set to conservative default values) to assess sensitivity, the dose producing potential of isotopes that contribute dose primarily through ingestion or inhalation is amplified, resulting in a more conservative assessment.

3 The scale of the vertical (Y) axes in the graphics must be considered in relative terms. There has been no attempt to constrain the outcome of the sensitivity analysis presented in this appendix to an annual effective dose that would be compliant with the applicable decommissioning standards.

Table G-6 RESRAD Results – Maximum Dose

Radionuclide	mrem/yr	Fraction
Ag-110m	7.033E-03	0.0002
Am-241	2.190E-02	0.0005
C-14	2.044E-03	0.0000
Cm-243	1.064E-02	0.0002
Cm-244	2.443E-03	0.0001
Cm-245	4.569E-02	0.0010
Cm-246	2.266E-02	0.0005
Co-57	2.023E-02	0.0005
Co-60	3.864E+01	0.8660
Cs-134	1.222E+00	0.0274
Cs-137	3.128E+00	0.0701
Fe-55	3.705E-03	0.0001
H-3	2.033E-02	0.0005
Mn-54	1.038E+00	0.0233
Ni-63	2.593E-03	0.0001
Pu-238	6.790E-03	0.0002
Pu-239	4.745E-02	0.0011
Pu-240	4.743E-02	0.0011
Pu-241	1.703E-02	0.0004
Sb-125	3.965E-02	0.0009
Sr-90	2.635E-01	0.0059
Zn-65	8.318E-03	0.0002

G.4 CONCLUSION

The byproduct source term was derived from three distinct data sources containing site-specific data. These data were normalized using the ratio of individual radionuclides (including “hard-to-detect” radionuclides) to Co-60. The maximum ratio for each radionuclide was selected from each data set and then these maximum values were compared with maximum ratios from each of the other data sets to select the overall maximum ratio for each radionuclide. The overall maximum ratios were utilized to create an ultra conservative input mixture for RESRAD in order to perform a sensitivity analysis on the dose produced by each radionuclide in the mixture. The resident farmer scenario was used to perform the sensitivity analysis. The sensitivity analysis reveals that only four of the twenty-two radionuclides are potent enough in terms of their dose-producing potential to contribute even as much as 1% of the total annual dose to a resident farm receptor. Only Co-60 is capable of producing as much as 10% of the total annual dose to a resident farm receptor. Using the guidance in NUREG 1727, when only one or two nuclides dominates the contribution to total annual dose, those radionuclides in a mixture that likely contribute less than 10% of the total dose may be ignored. Therefore by evaluating the byproduct radionuclide mixture in terms of potential future dose produced after license termination, the only radionuclide retained in the byproduct mixture is Co-60.

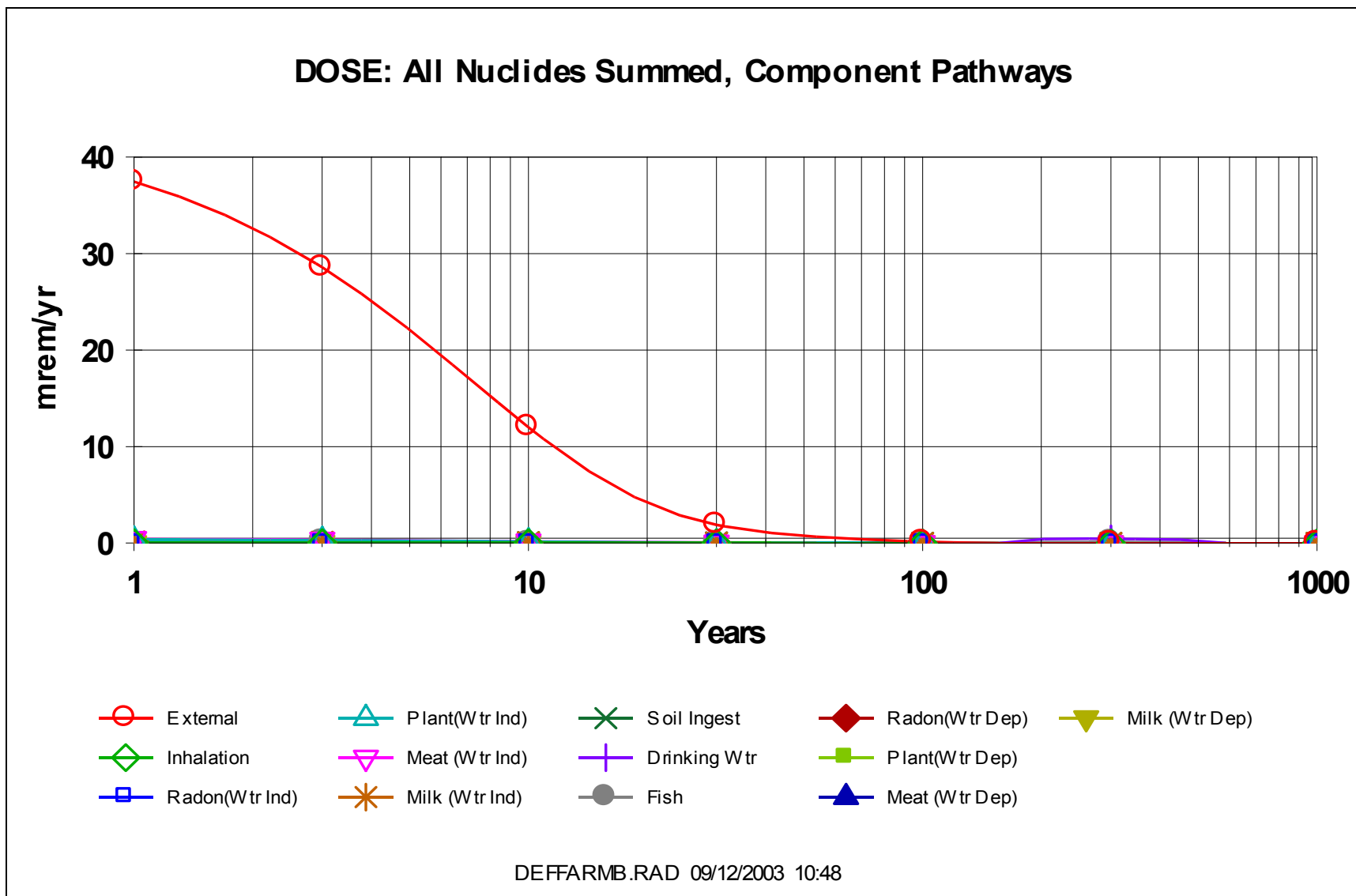


Figure G-1

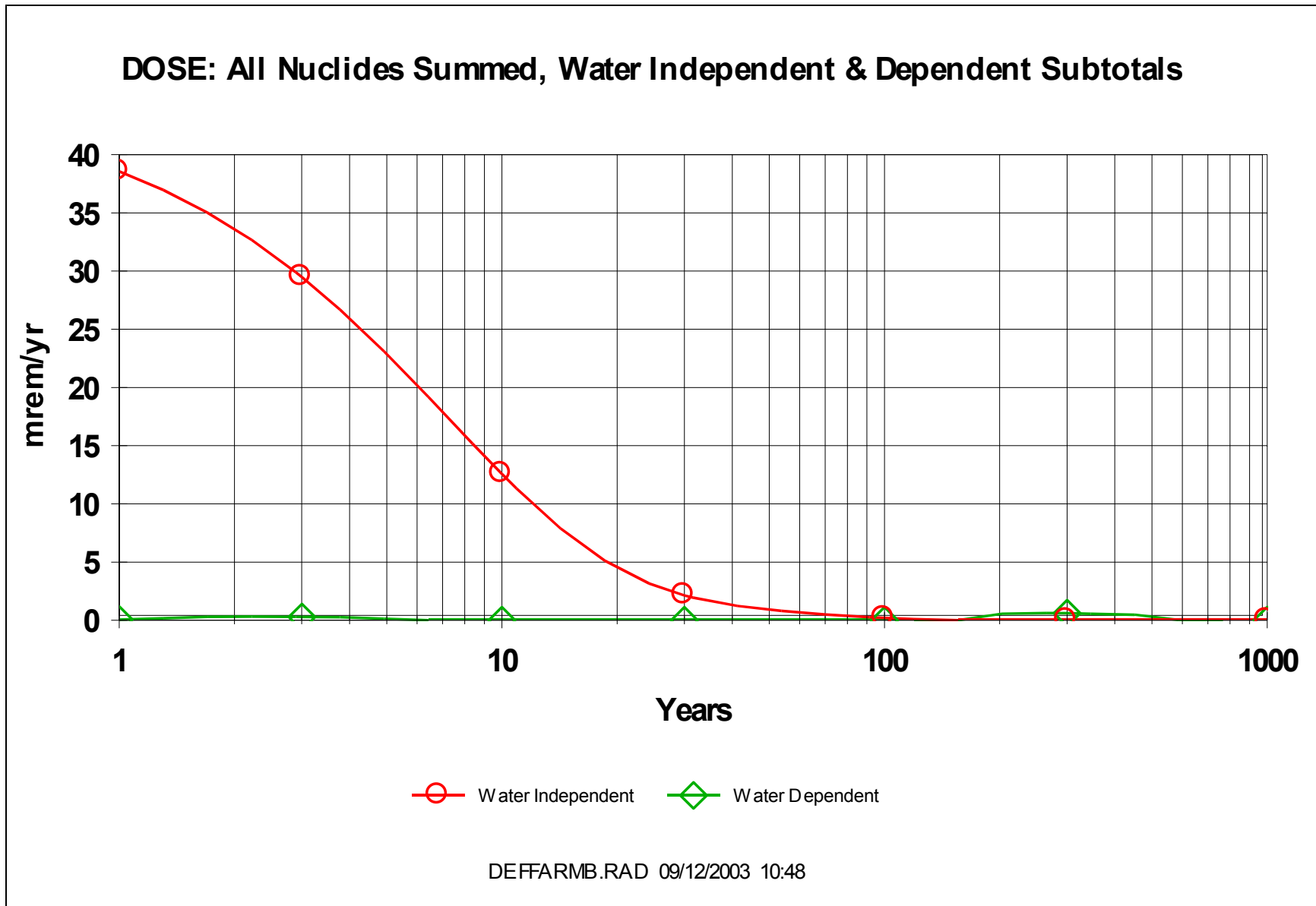


Figure G-2

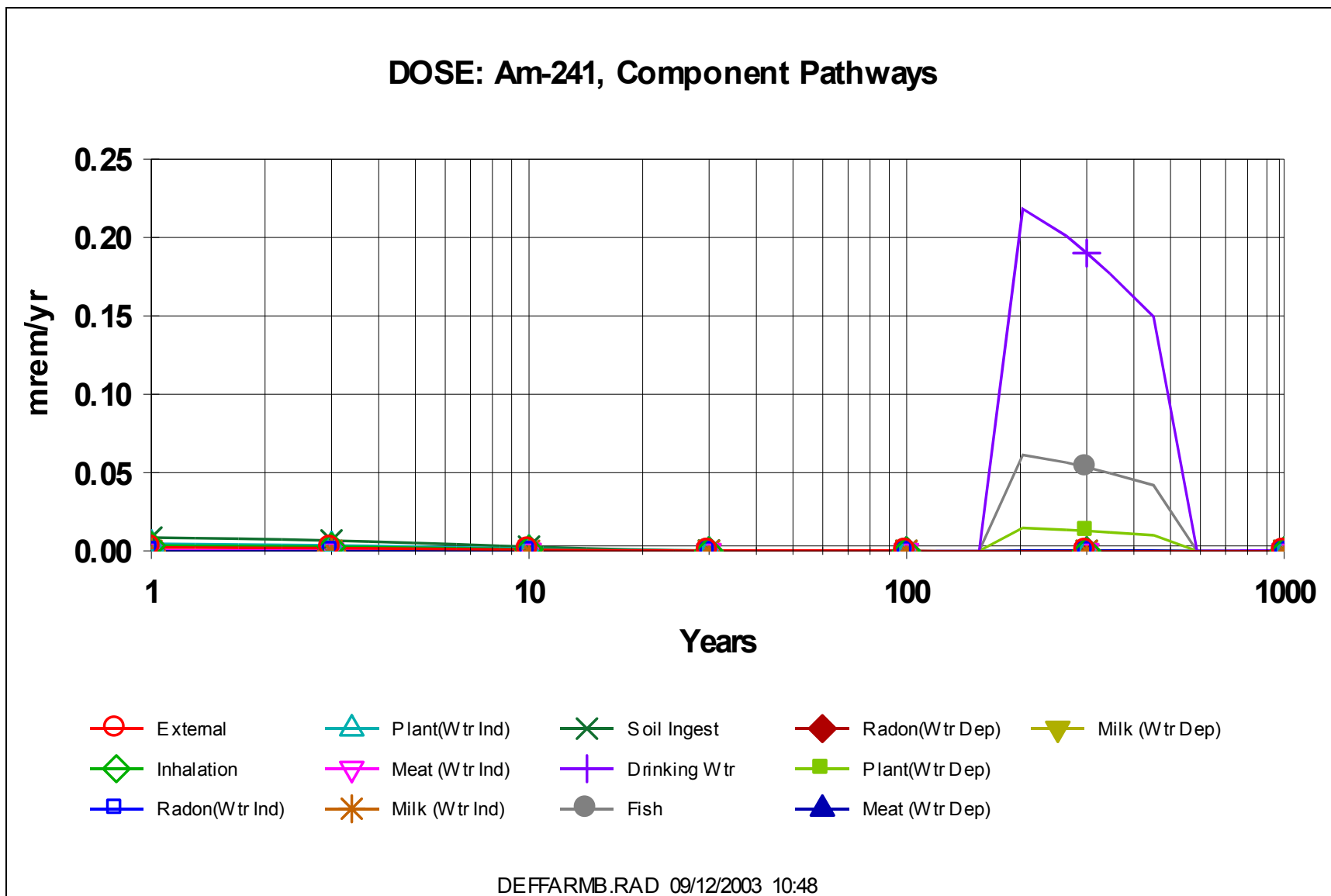


Figure G-3

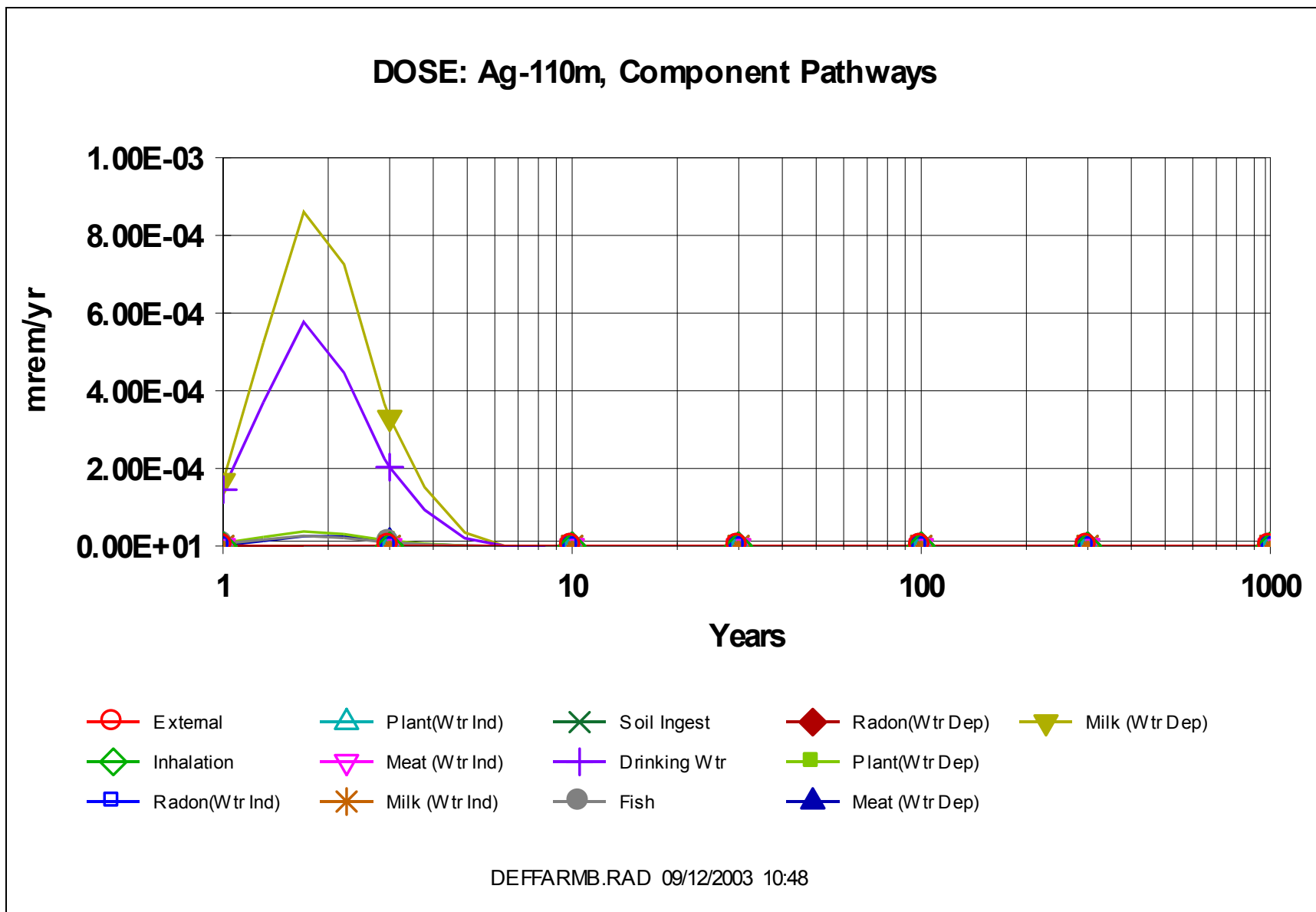


Figure G-4

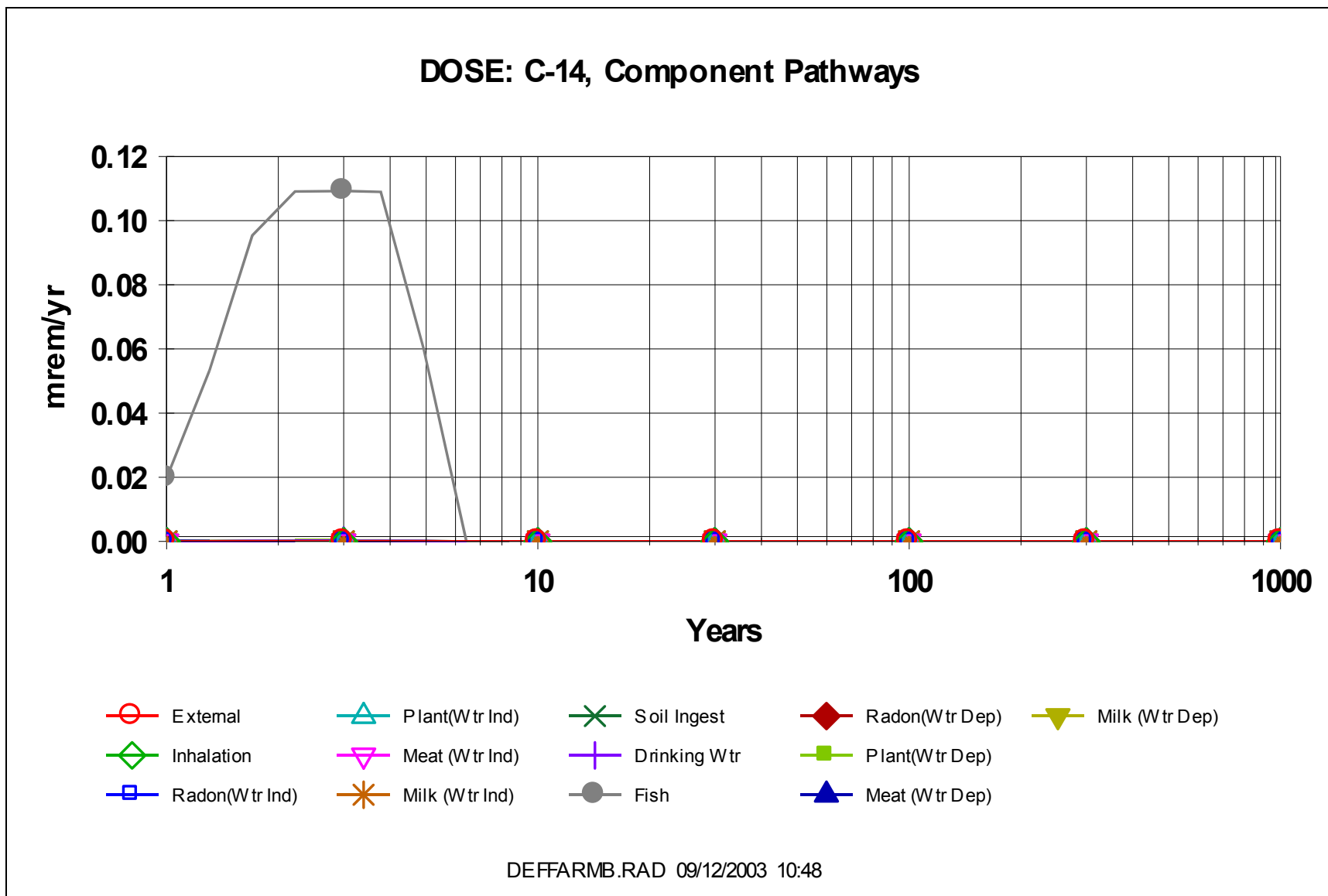


Figure G-5

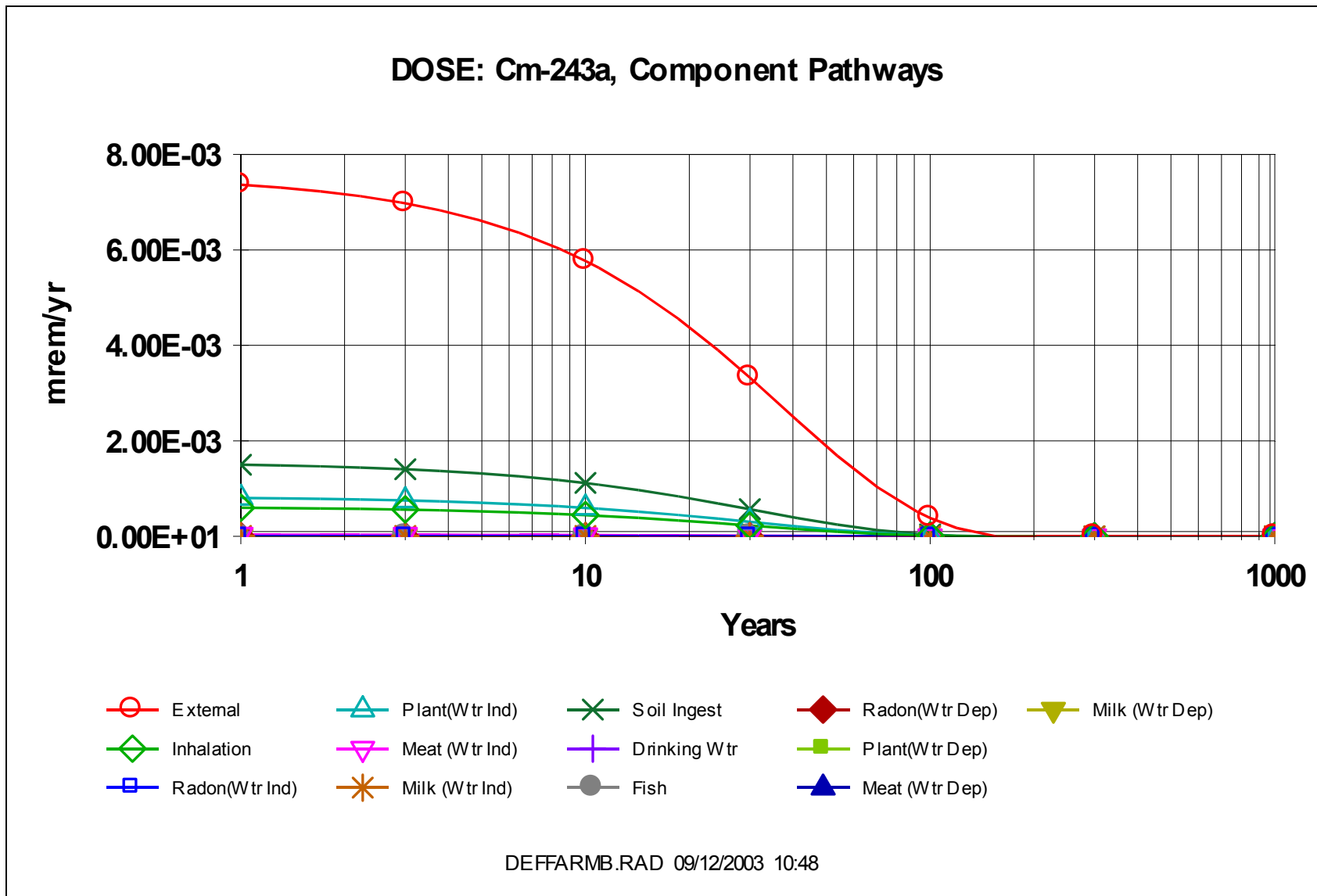


Figure G-6

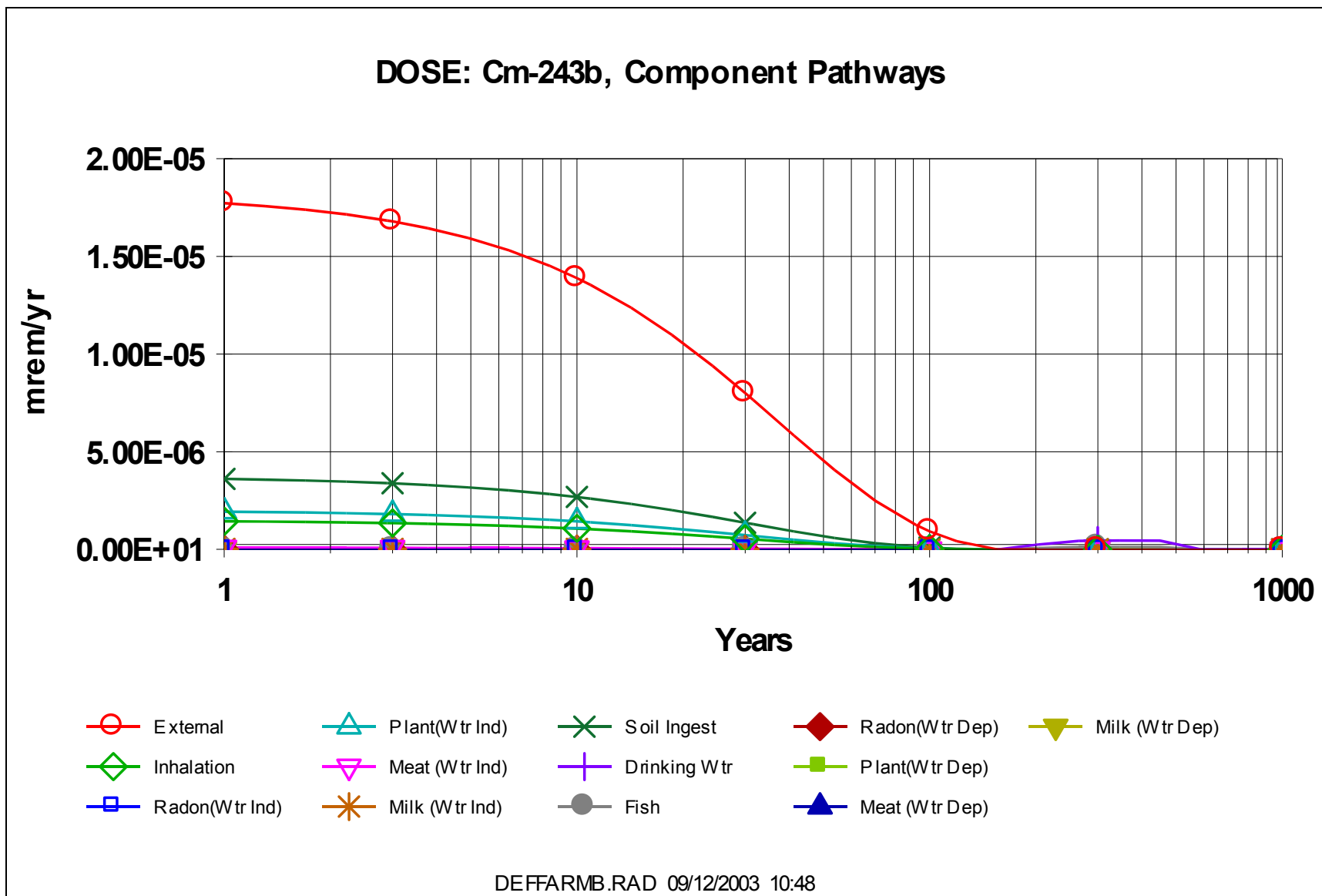


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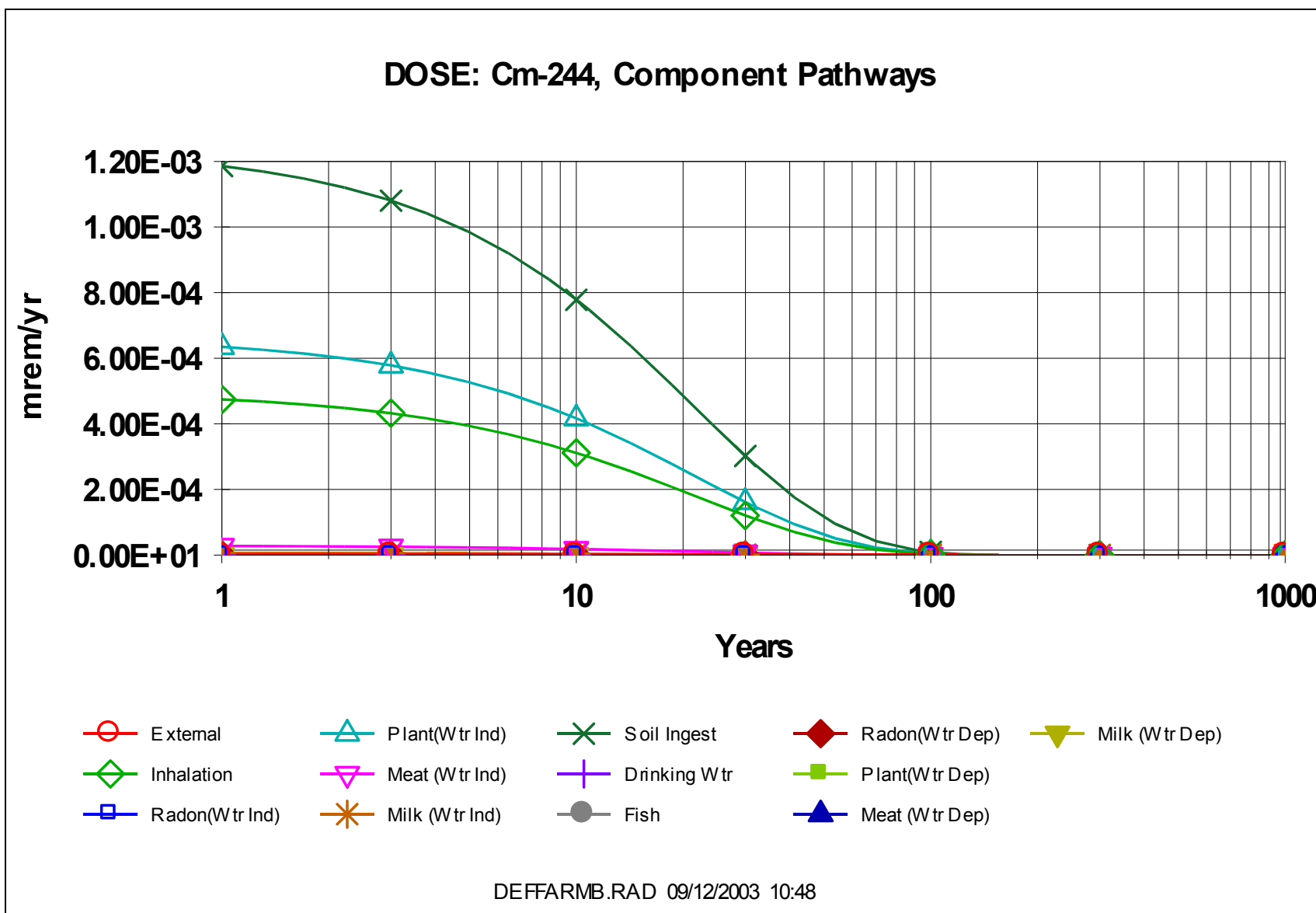


Figure G-8

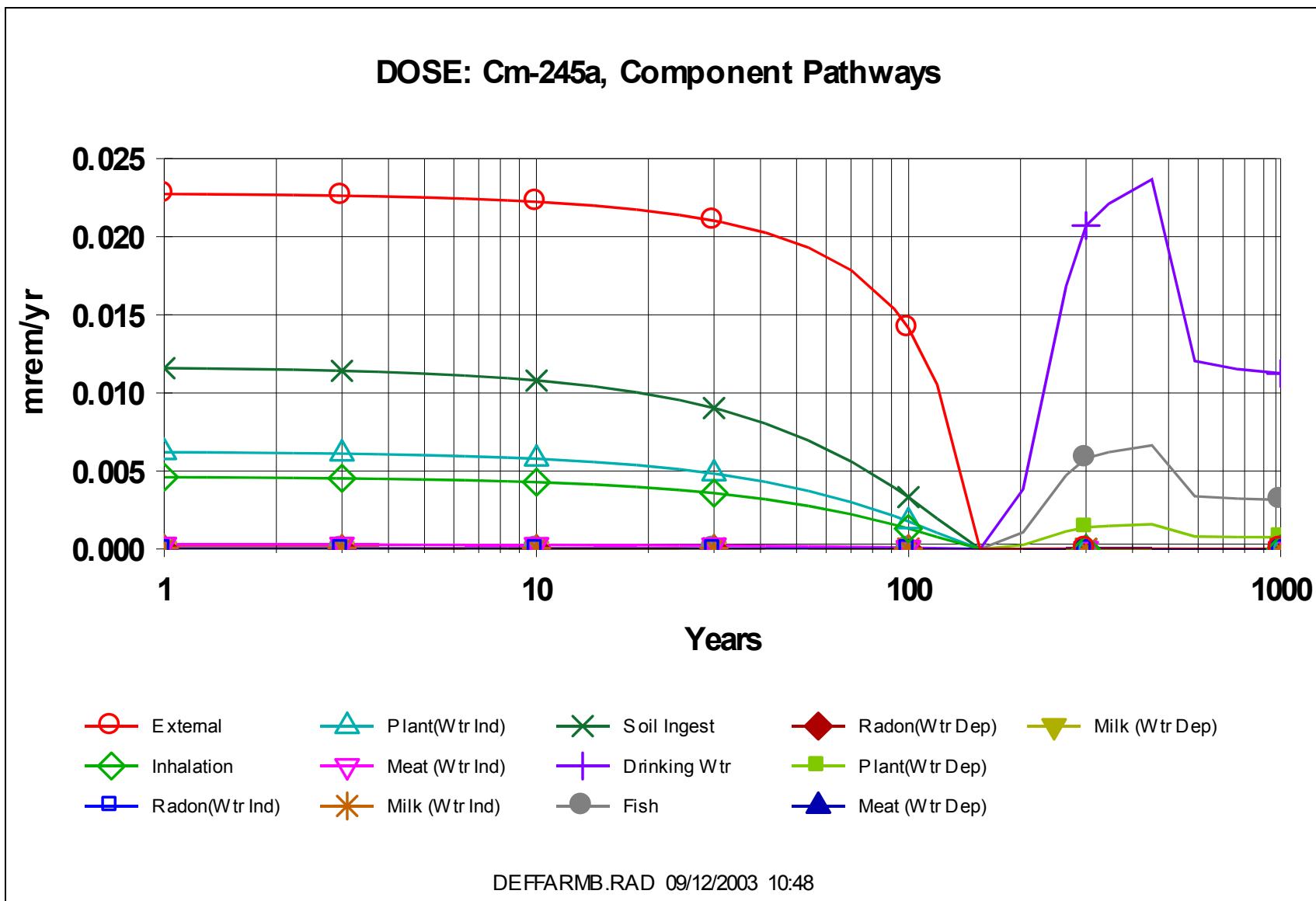


Figure G-9

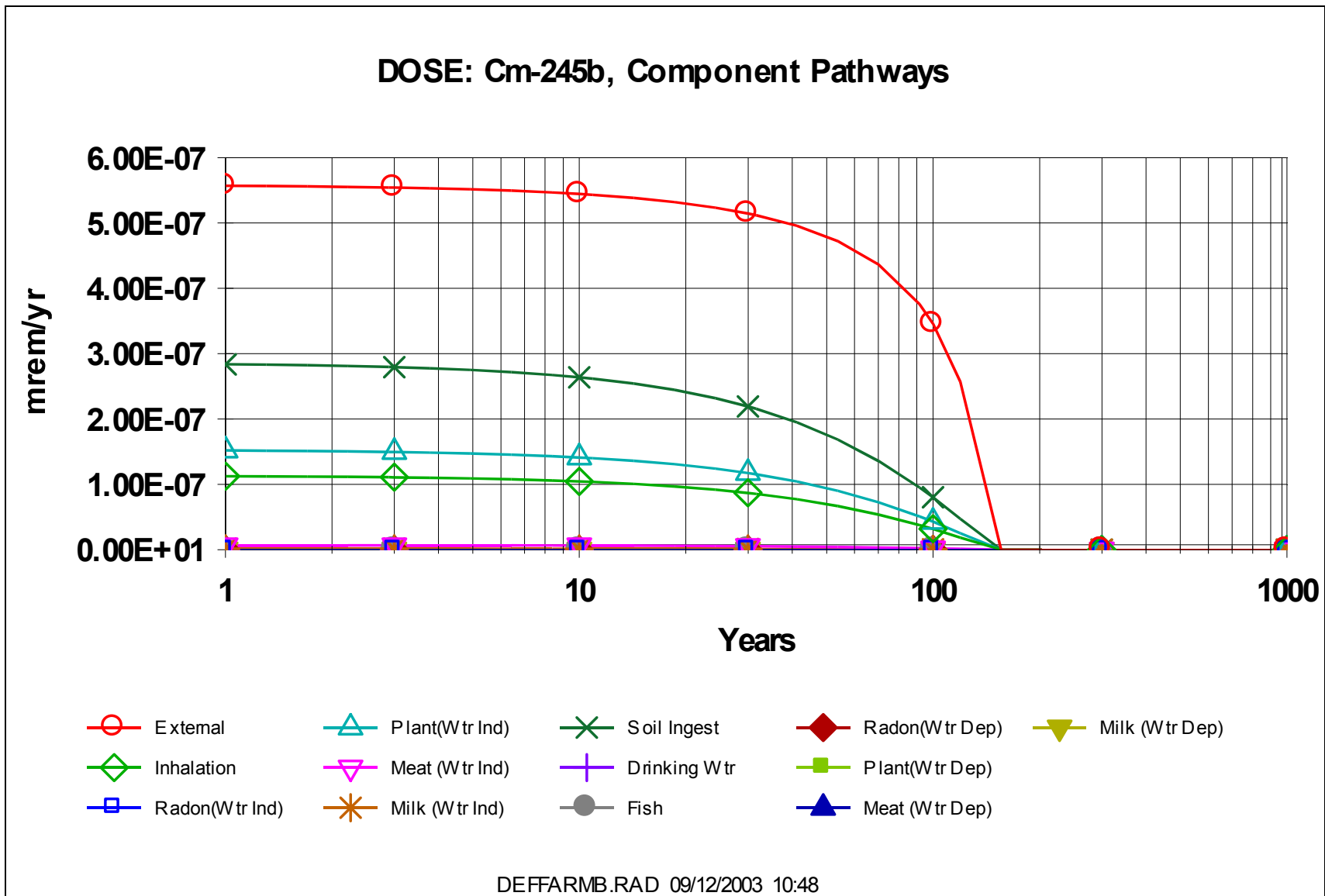


Figure G-10

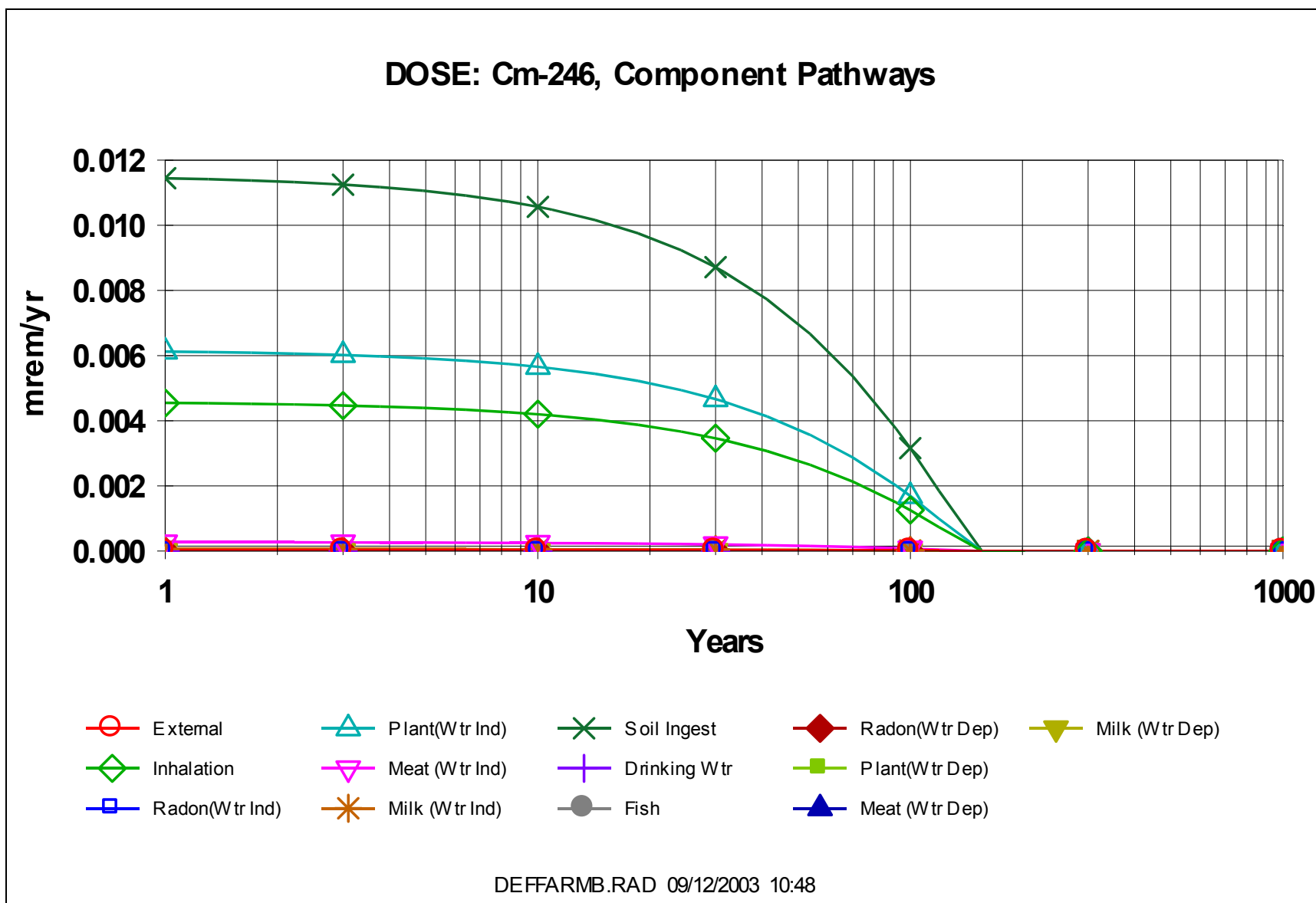


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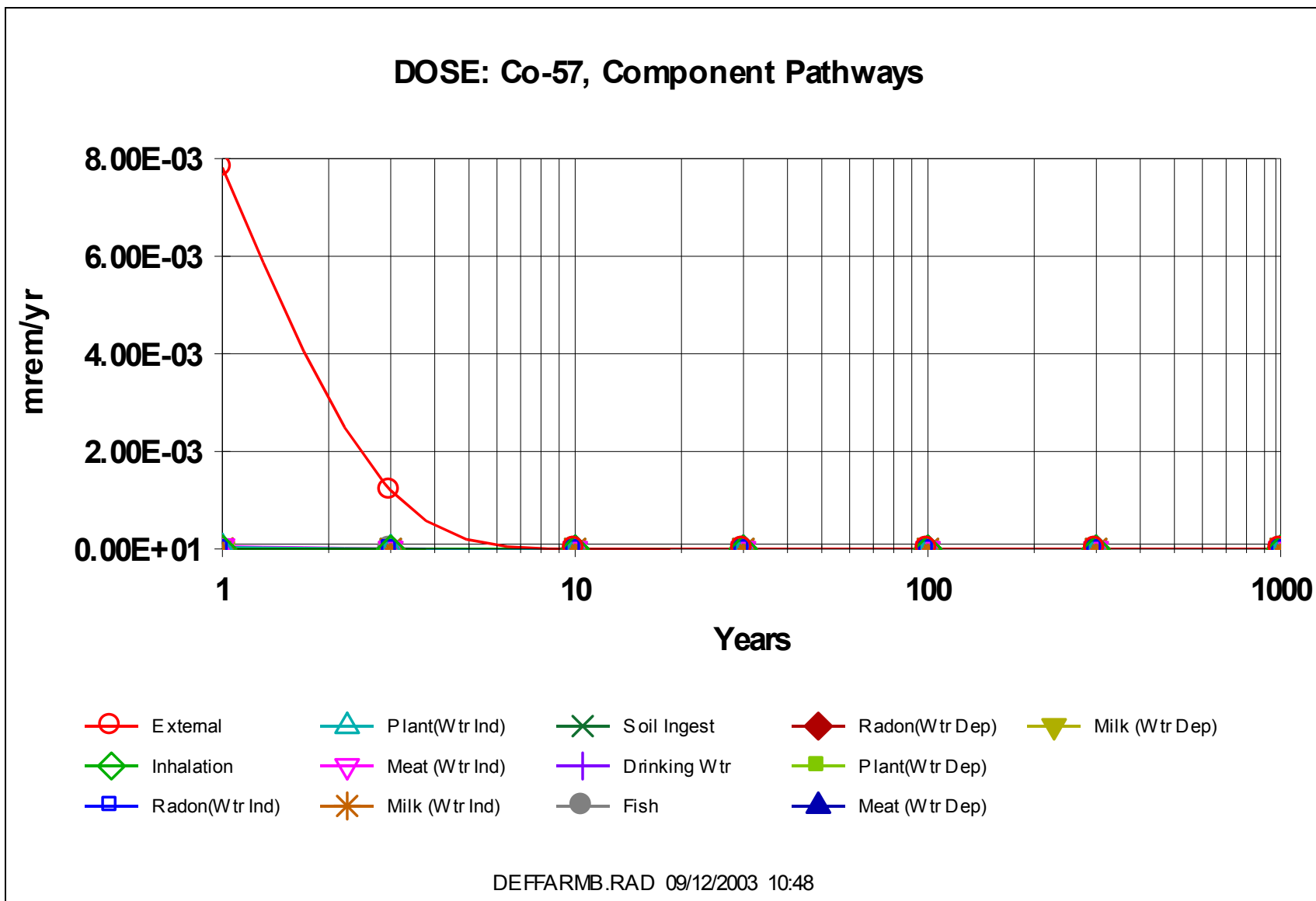


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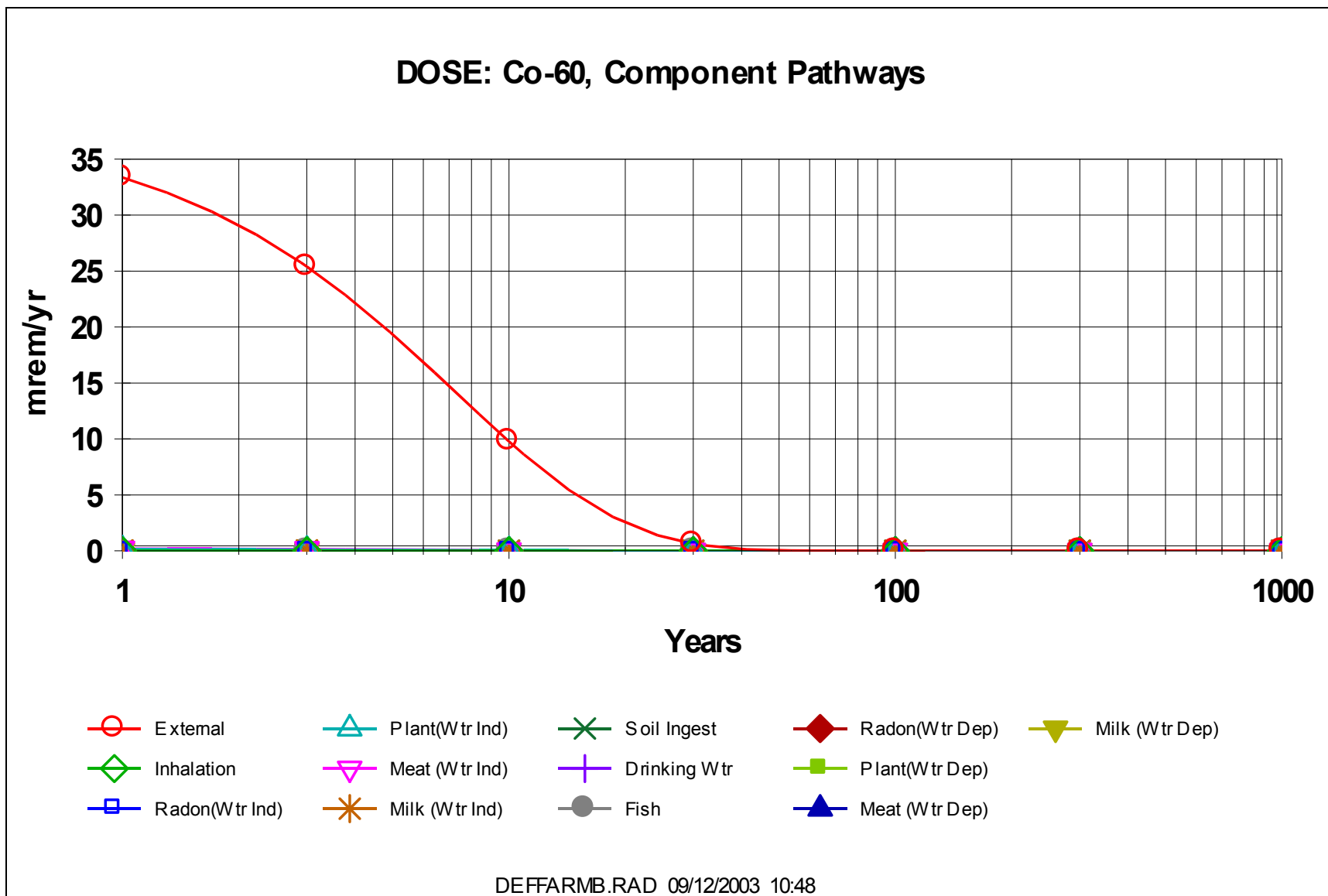


Figure G-13

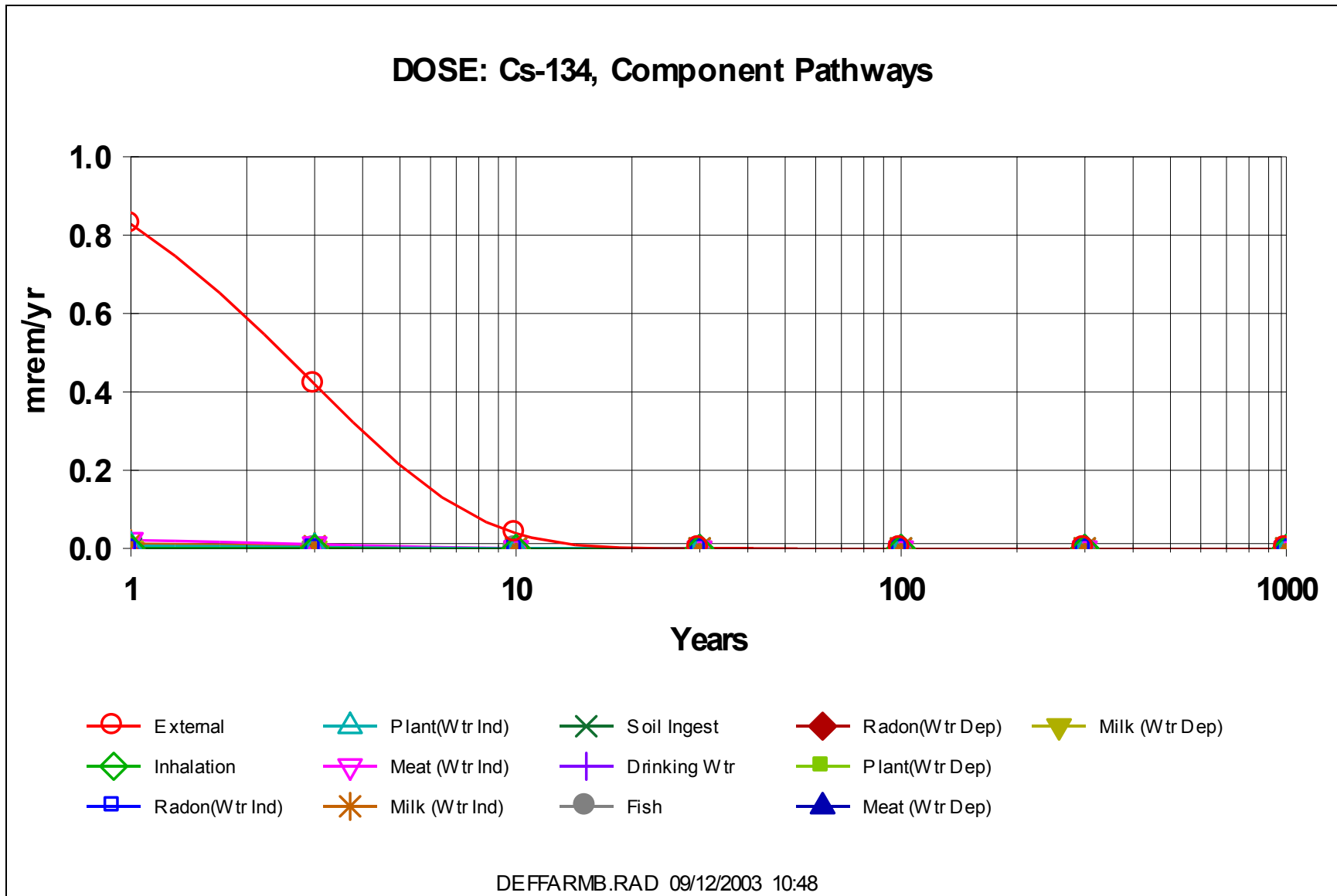


Figure G-14

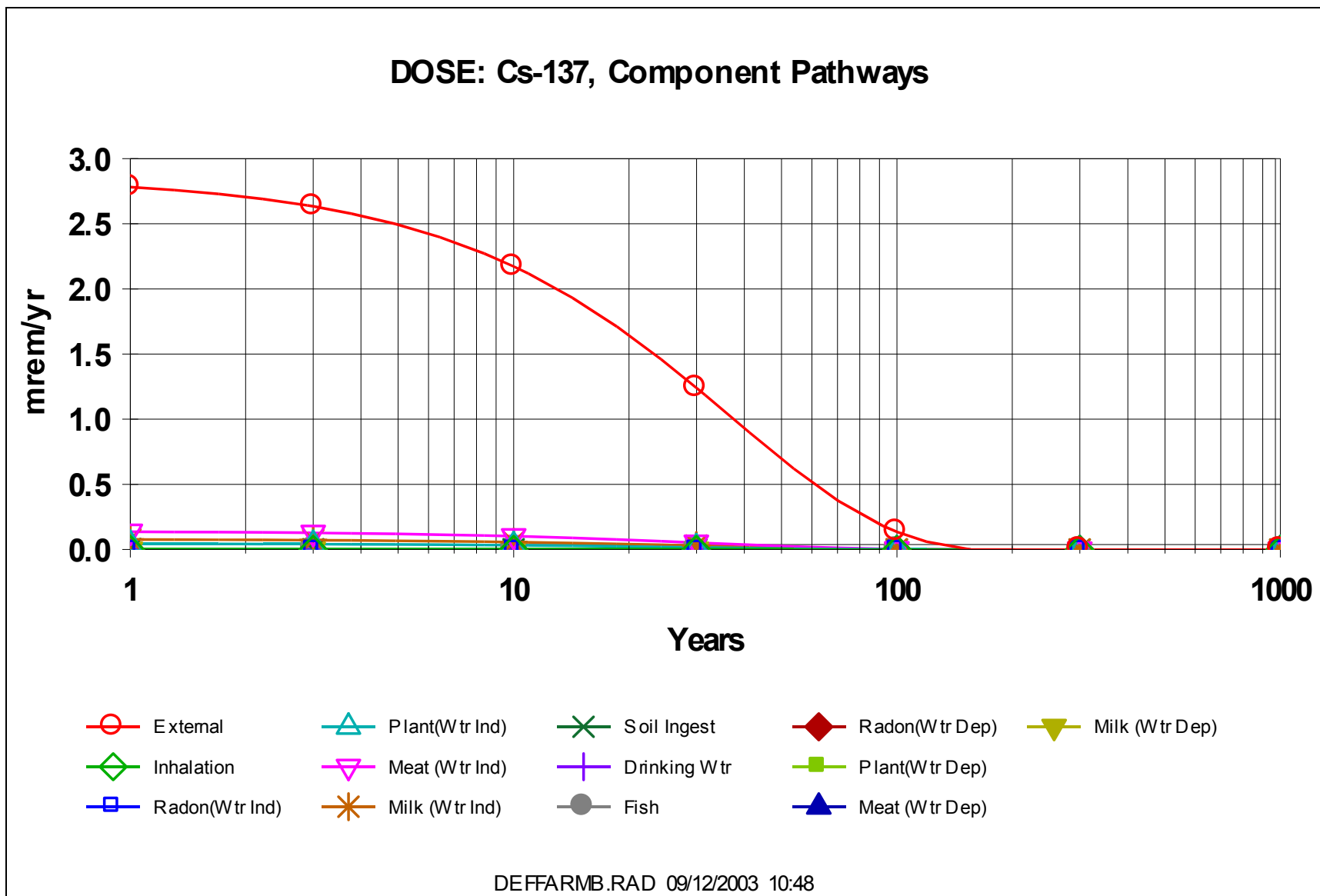


Figure G-15

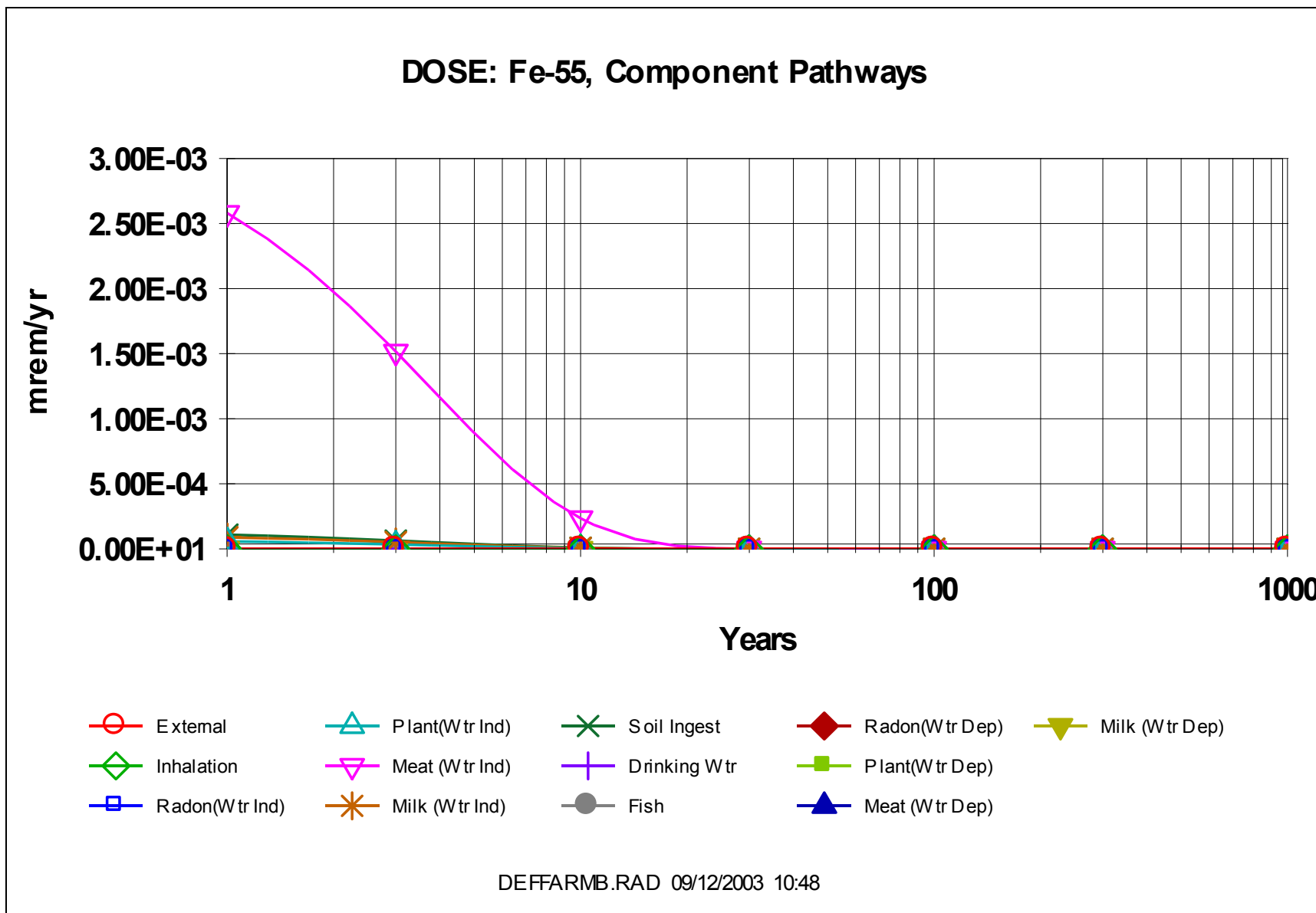


Figure G-16

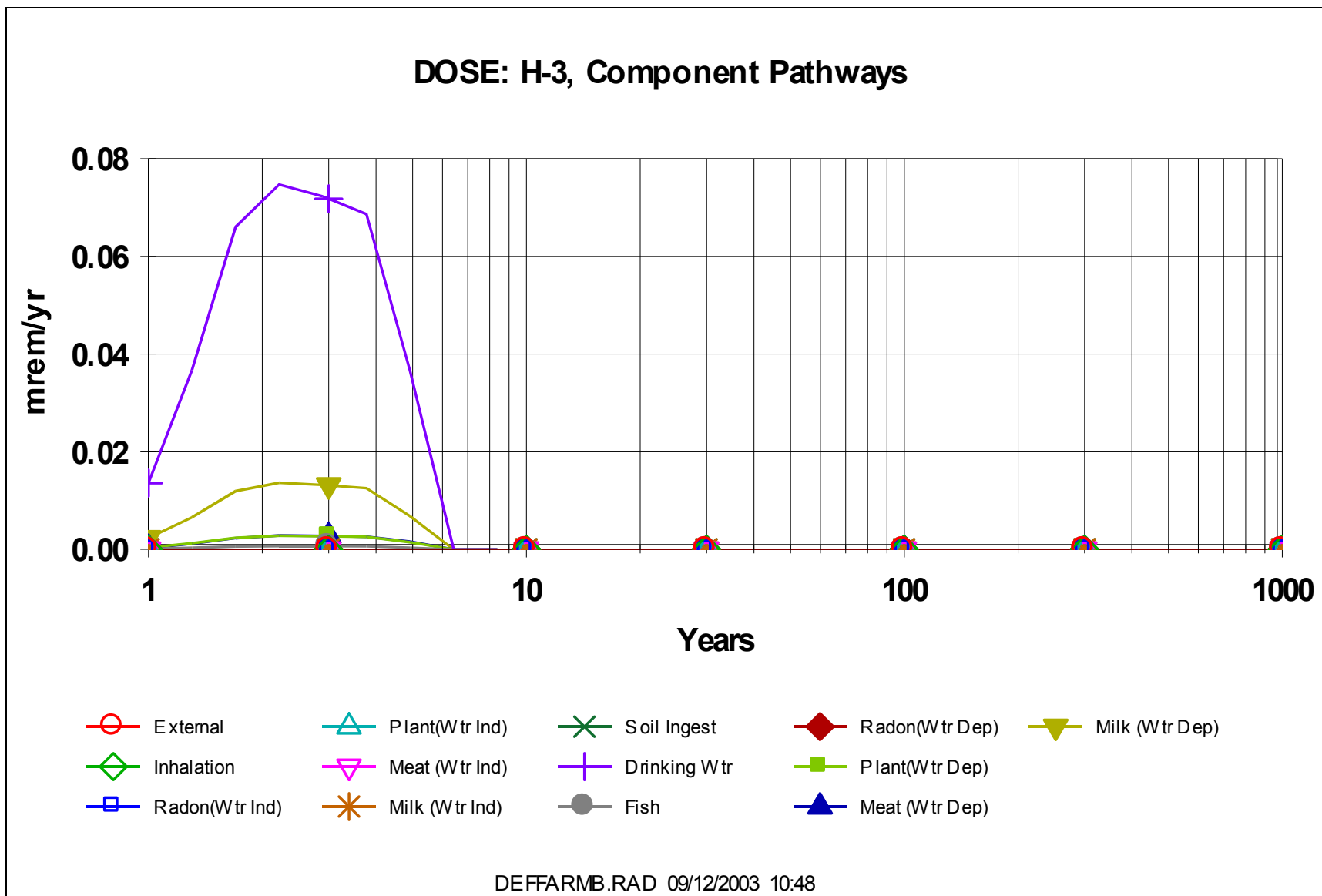


Figure G-17

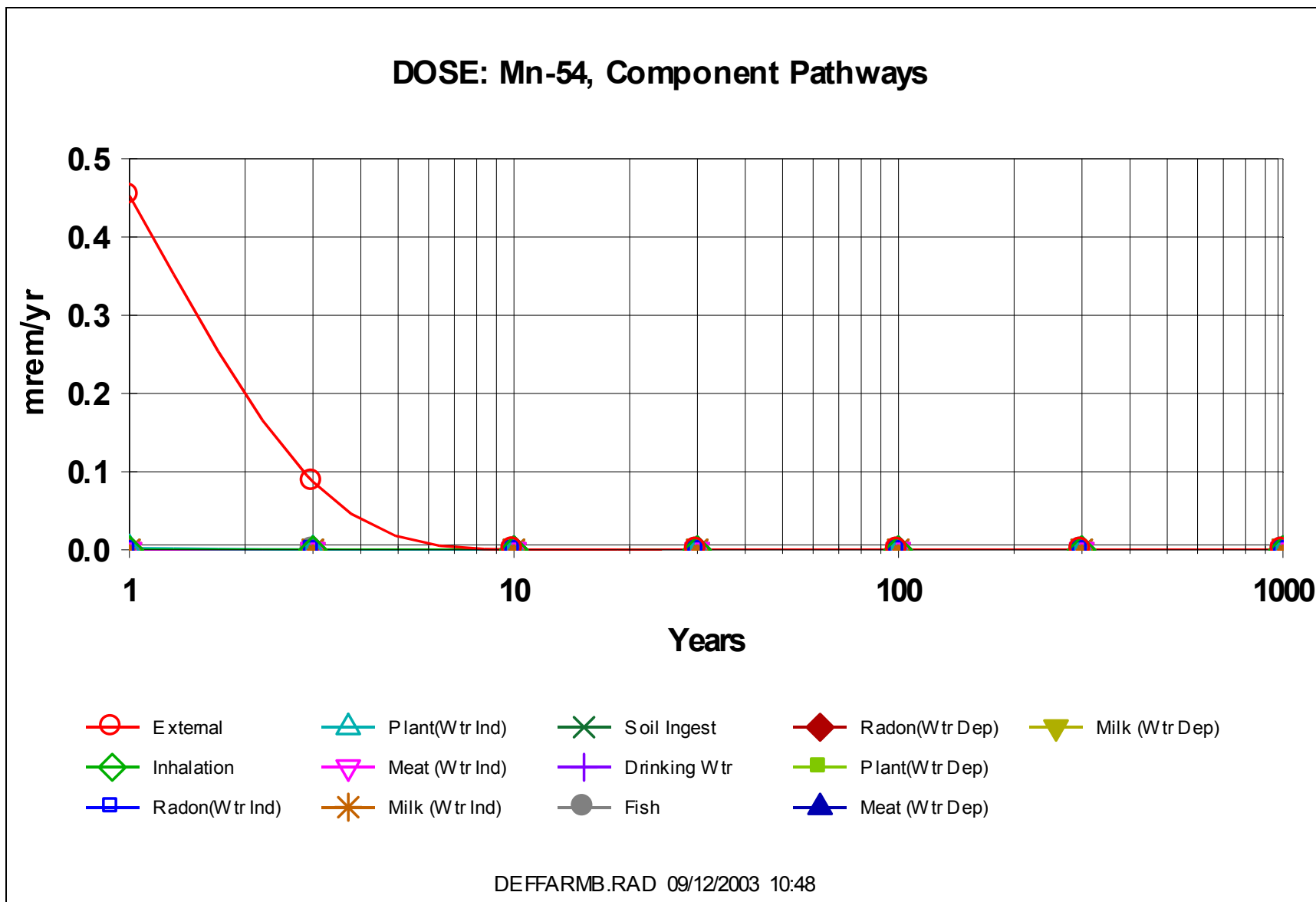


Figure G-18

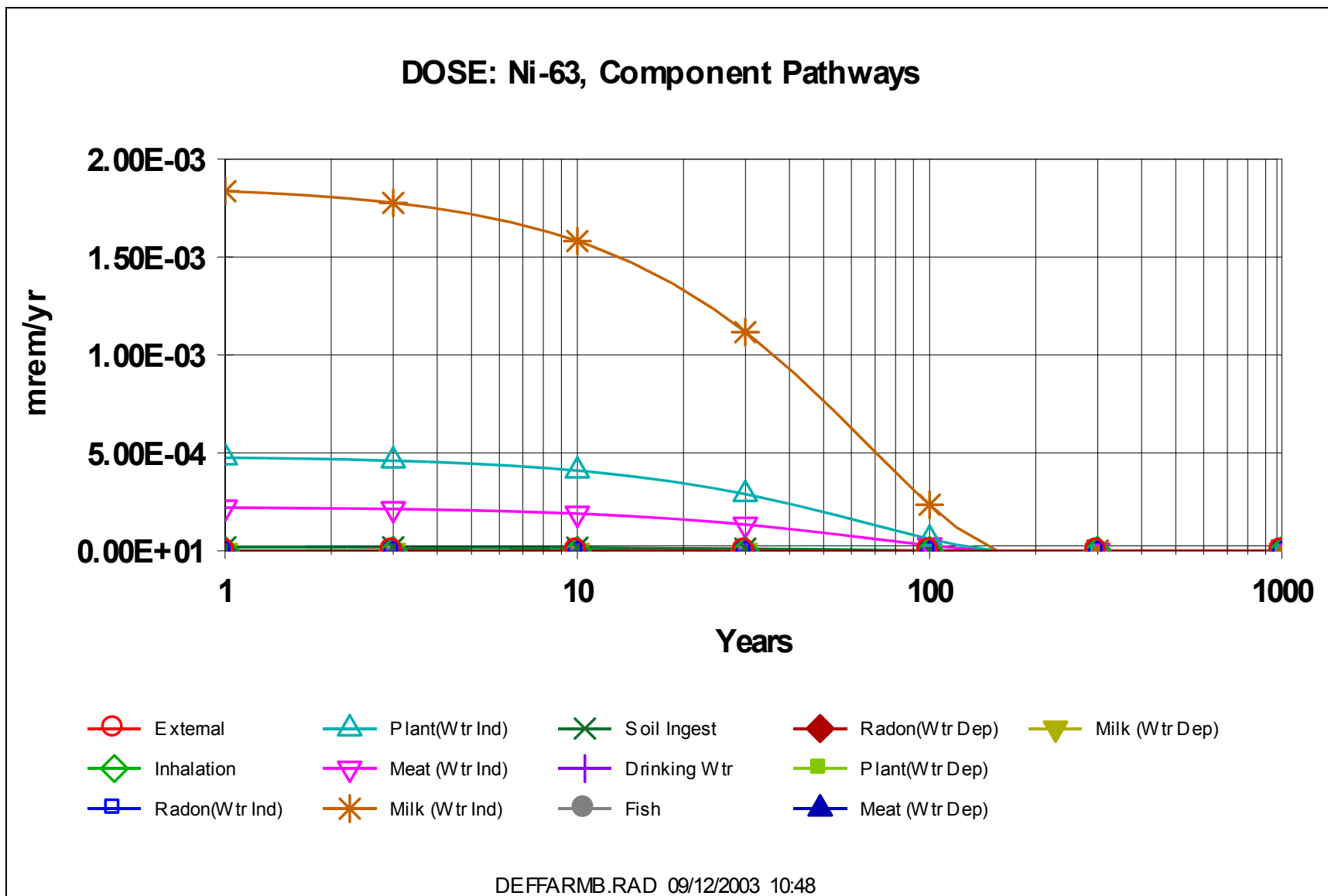


Figure G-19

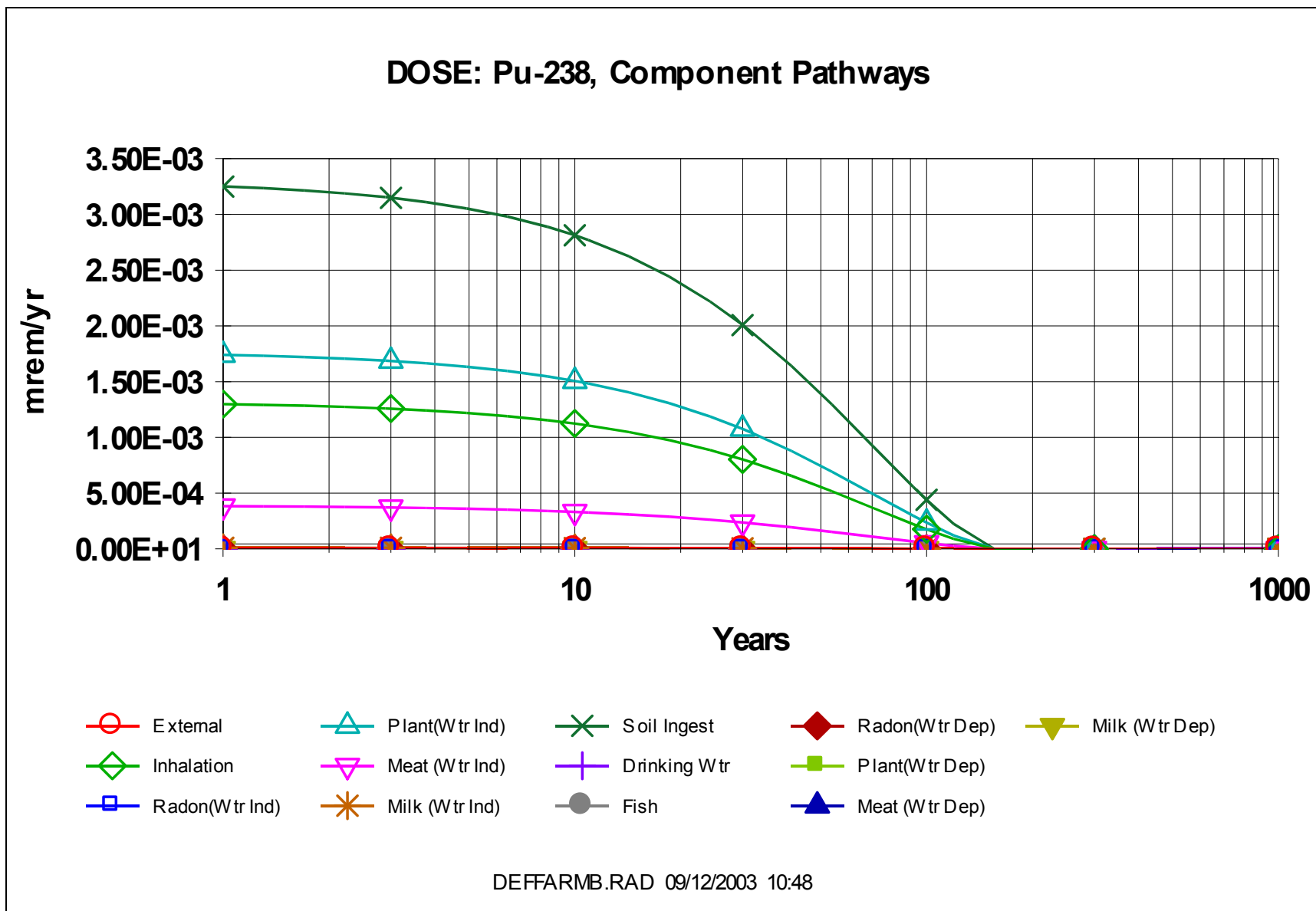


Figure G-20

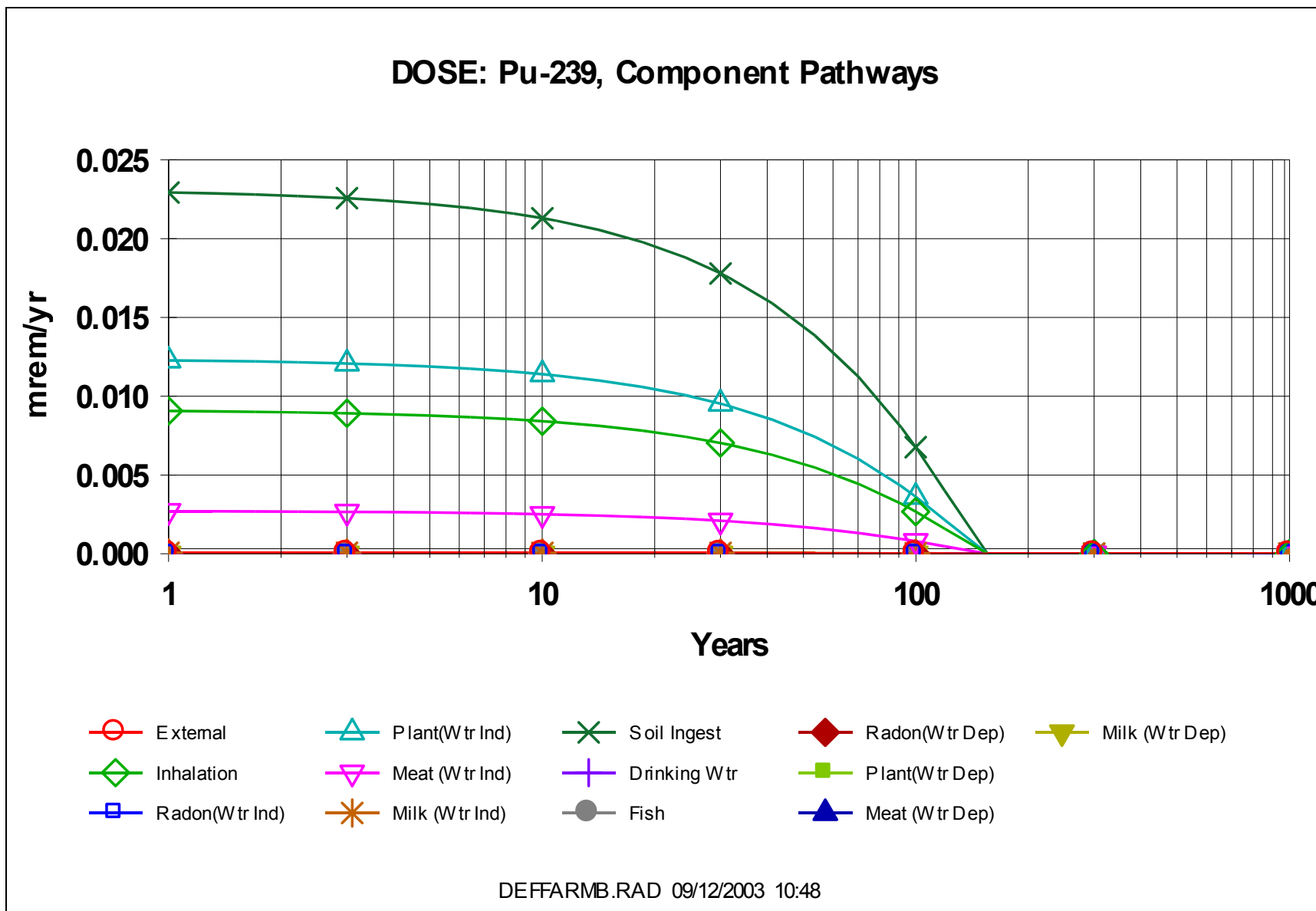


Figure G-21

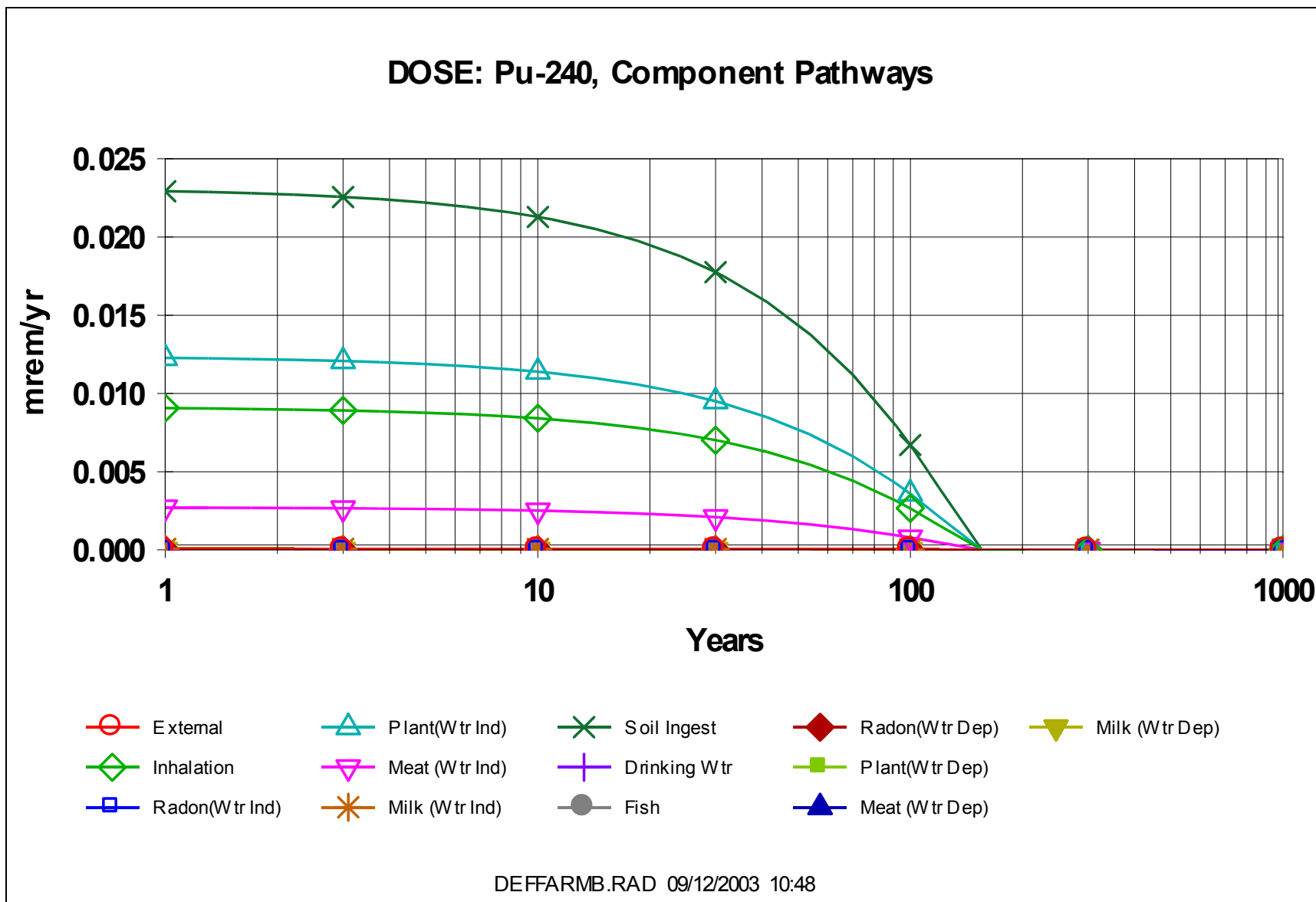


Figure G-22

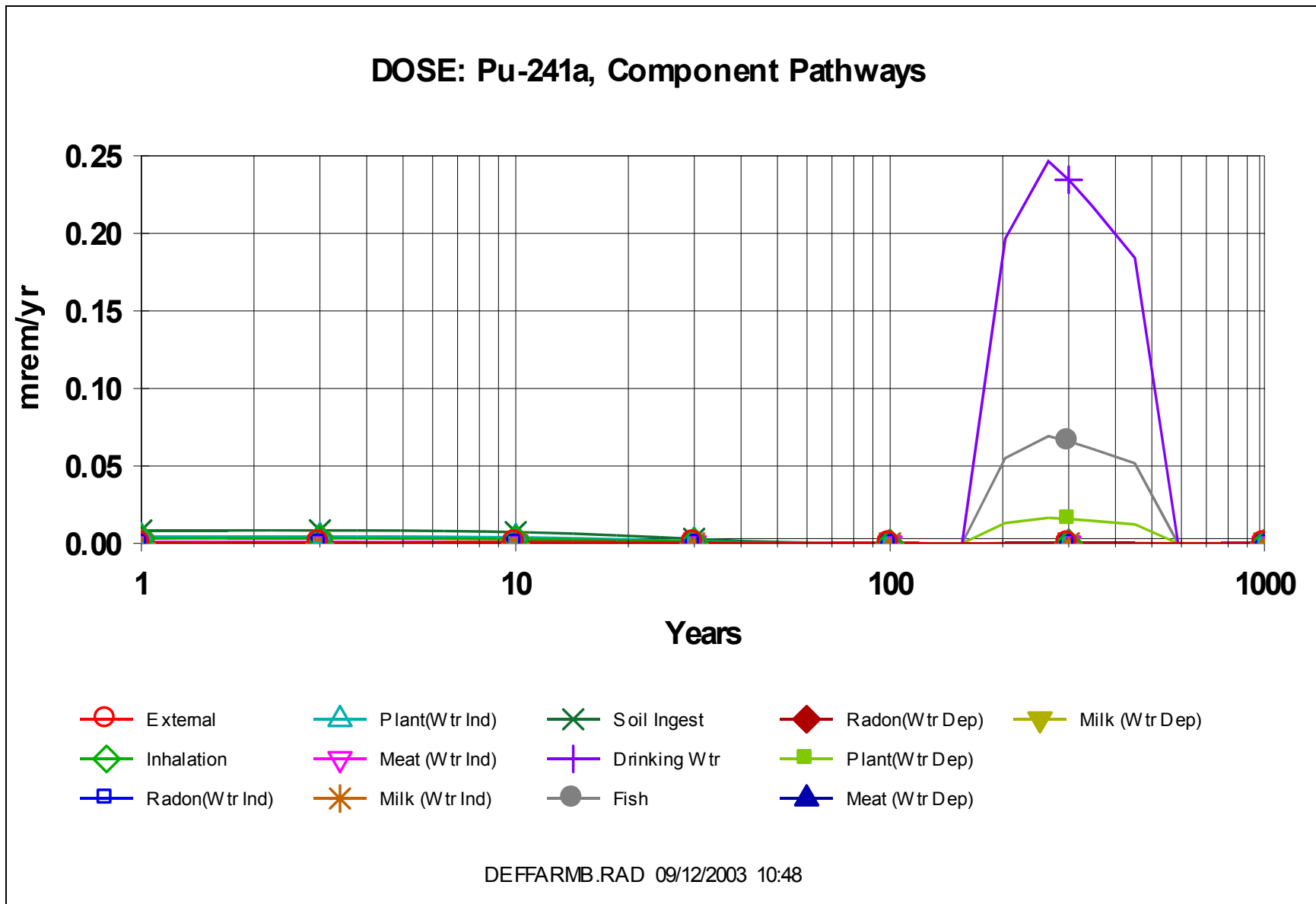


Figure G-23

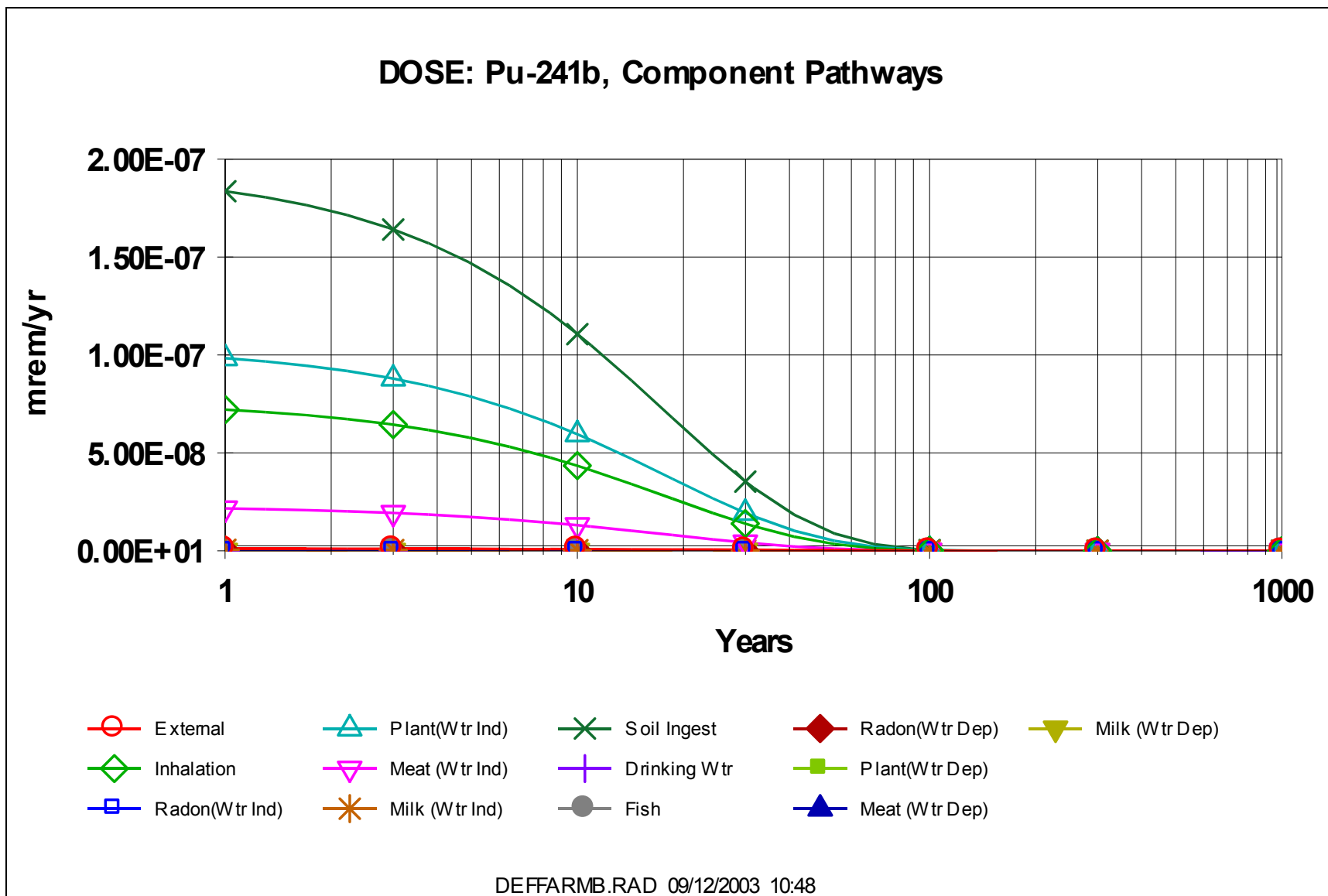


Figure G-24

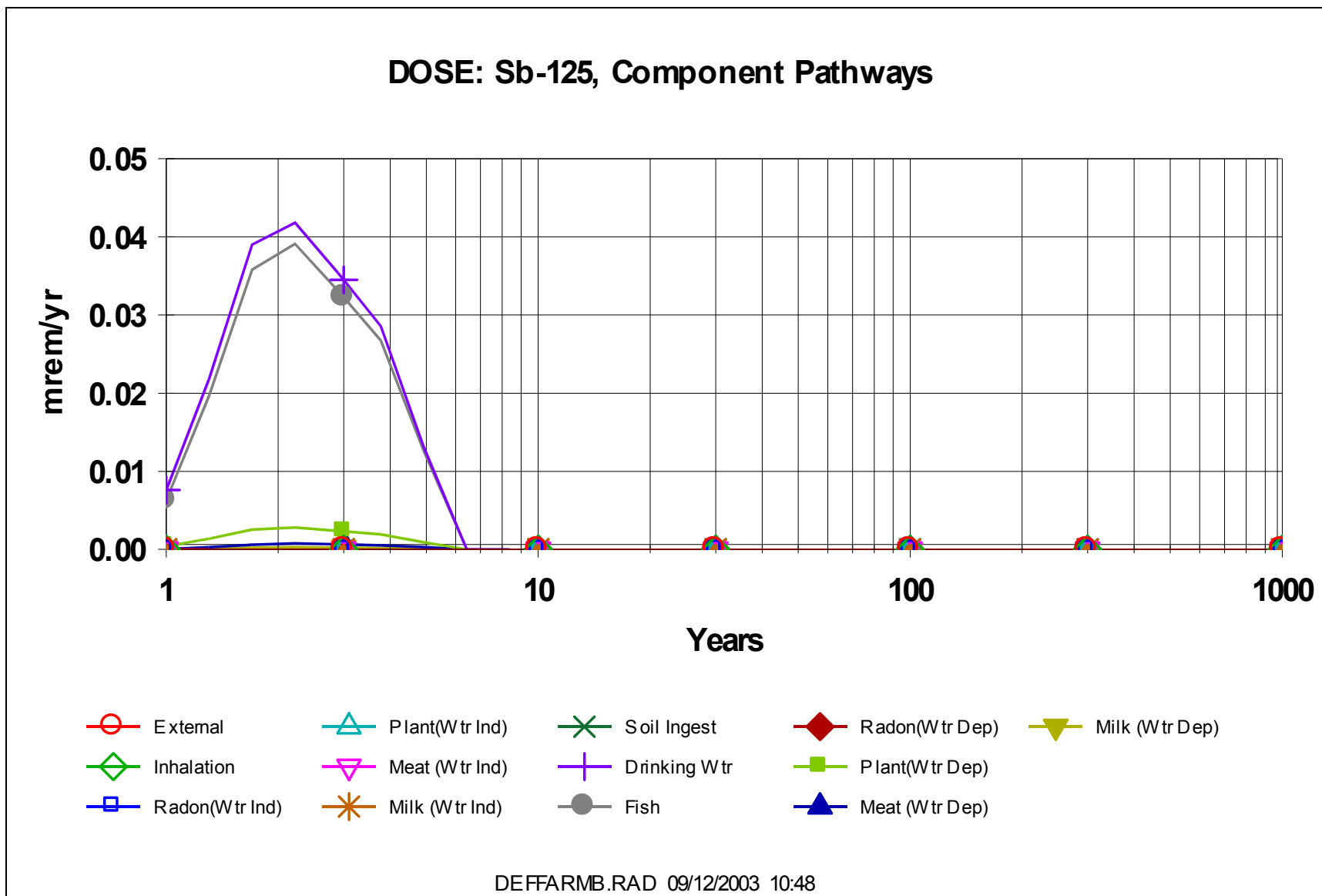


Figure G-25

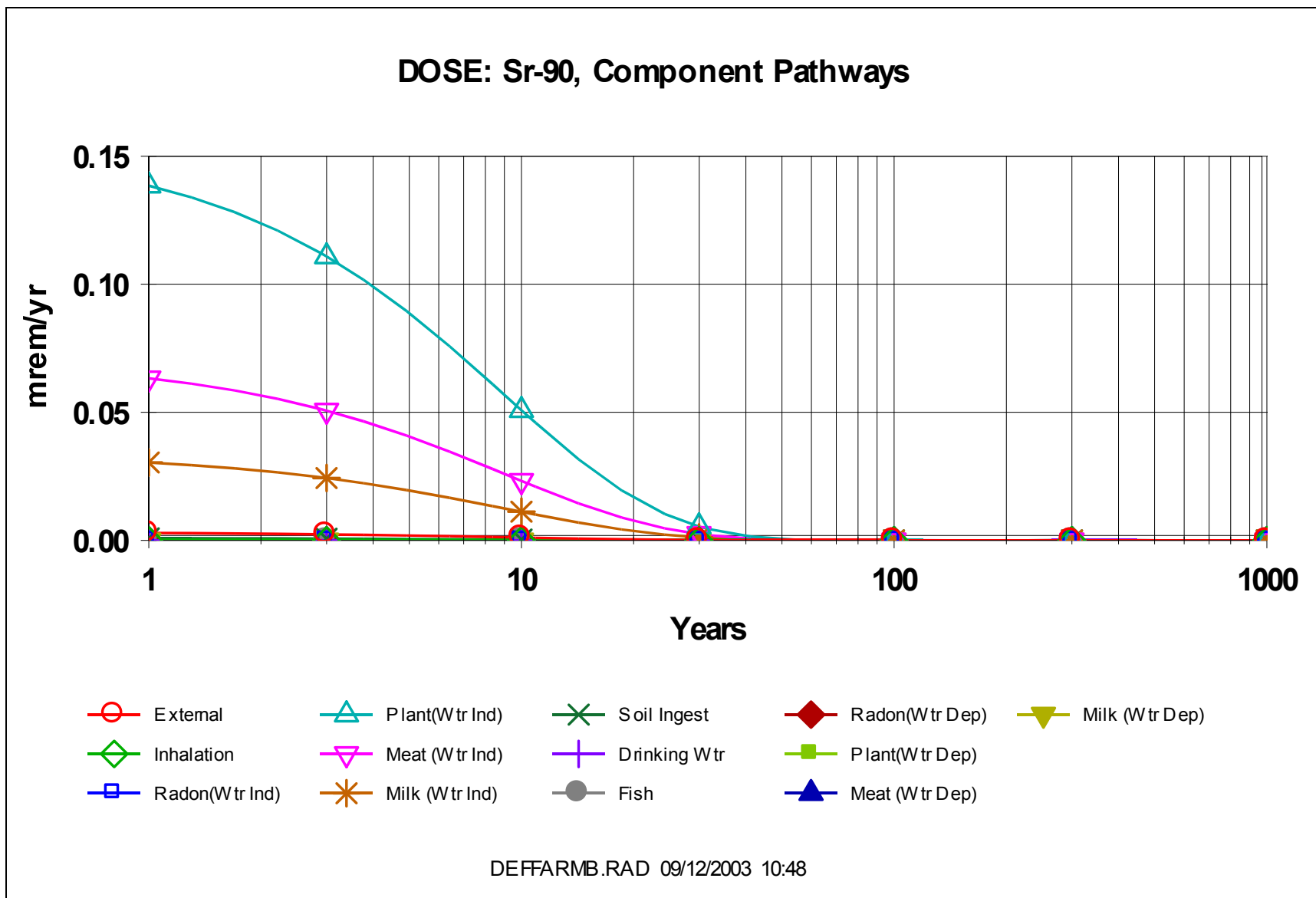


Figure G-26

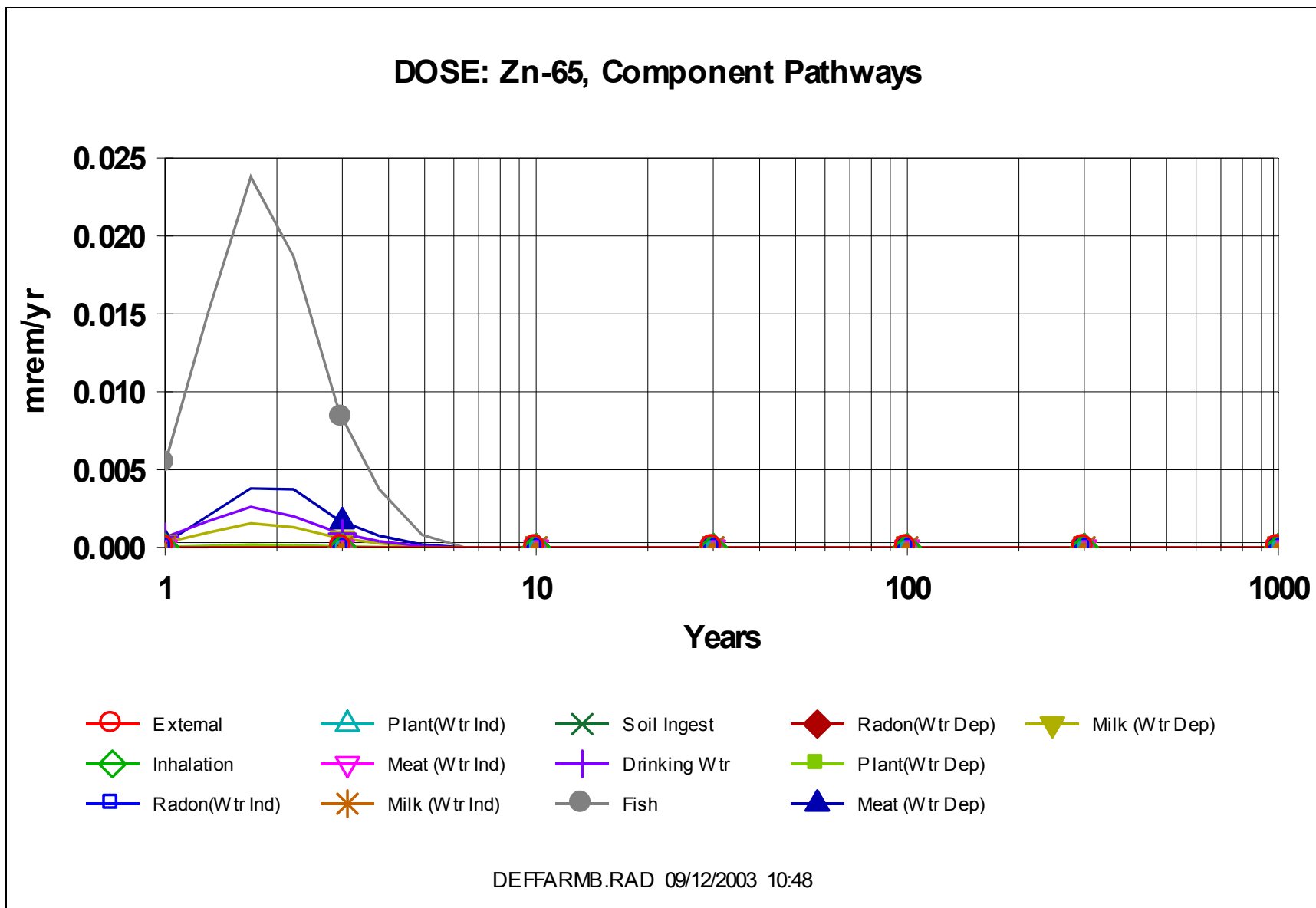


Figure G-27

Table of Contents

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

Dose Conversion Factor (and Related) Parameter Summary ...	2
Site-Specific Parameter Summary	10
Summary of Pathway Selections	21
Contaminated Zone and Total Dose Summary	22
Total Dose Components	
Time = 0.000E+00	23
Time = 1.000E+00	25
Time = 3.000E+00	27
Time = 1.000E+01	29
Time = 3.000E+01	31
Time = 1.000E+02	33
Time = 3.000E+02	35
Time = 1.000E+03	37
Dose/Source Ratios Summed Over All Pathways	39
Single Radionuclide Soil Guidelines	42
Dose Per Nuclide Summed Over All Pathways	44
Soil Concentration Per Nuclide	47

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Dose Conversion Factor (and Related) Parameter Summary
 File: Default.LIB

0 Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ac-227+D	6.720E+00	6.720E+00	DCF2 (1)
B-1	Ag-110m+D	8.030E-05	8.030E-05	DCF2 (2)
B-1	Am-241	4.440E-01	4.440E-01	DCF2 (3)
B-1	Am-243+D	4.400E-01	4.400E-01	DCF2 (4)
B-1	C-14	2.090E-06	2.090E-06	DCF2 (5)
B-1	Cm-243	3.070E-01	3.070E-01	DCF2 (6)
B-1	Cm-244	2.480E-01	2.480E-01	DCF2 (8)
B-1	Cm-245	4.550E-01	4.550E-01	DCF2 (9)
B-1	Cm-246	4.510E-01	4.510E-01	DCF2(11)
B-1	Co-57	9.070E-06	9.070E-06	DCF2(12)
B-1	Co-60	2.190E-04	2.190E-04	DCF2(13)
B-1	Cs-134	4.630E-05	4.630E-05	DCF2(14)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2(15)
B-1	Fe-55	2.690E-06	2.690E-06	DCF2(16)
B-1	H-3	6.400E-08	6.400E-08	DCF2(17)
B-1	Mn-54	6.700E-06	6.700E-06	DCF2(18)
B-1	Ni-63	6.290E-06	6.290E-06	DCF2(19)
B-1	Np-237+D	5.400E-01	5.400E-01	DCF2(20)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2(21)
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2(22)
B-1	Pu-238	3.920E-01	3.920E-01	DCF2(23)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2(24)
B-1	Pu-240	4.290E-01	4.290E-01	DCF2(25)
B-1	Pu-241+D	8.250E-03	8.250E-03	DCF2(26)
B-1	Pu-242	4.110E-01	4.110E-01	DCF2(28)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2(29)
B-1	Ra-228+D	5.080E-03	5.080E-03	DCF2(30)
B-1	Sb-125+D	1.386E-05	1.386E-05	DCF2(31)
B-1	Sr-90+D	1.310E-03	1.310E-03	DCF2(32)
B-1	Th-228+D	3.450E-01	3.450E-01	DCF2(33)
B-1	Th-229+D	2.160E+00	2.160E+00	DCF2(34)
B-1	Th-230	3.260E-01	3.260E-01	DCF2(35)
B-1	Th-232	1.640E+00	1.640E+00	DCF2(36)
B-1	U-233	1.350E-01	1.350E-01	DCF2(37)
B-1	U-234	1.320E-01	1.320E-01	DCF2(38)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2(39)
B-1	U-236	1.250E-01	1.250E-01	DCF2(40)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2(41)
B-1	Zn-65	2.040E-05	2.040E-05	DCF2(42)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3 (1)
D-1	Ag-110m+D	1.080E-05	1.080E-05	DCF3 (2)
D-1	Am-241	3.640E-03	3.640E-03	DCF3 (3)
D-1	Am-243+D	3.630E-03	3.630E-03	DCF3 (4)
D-1	C-14	2.090E-06	2.090E-06	DCF3 (5)
D-1	Cm-243	2.510E-03	2.510E-03	DCF3 (6)
D-1	Cm-244	2.020E-03	2.020E-03	DCF3 (8)
D-1	Cm-245	3.740E-03	3.740E-03	DCF3 (9)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
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Dose Conversion Factor (and Related) Parameter Summary (continued)

File: Default.LIB

Menu	Parameter	Current Value	Default	Parameter Name
D-1	Cm-246	3.700E-03	3.700E-03	DCF3 (11)
D-1	Co-57	1.180E-06	1.180E-06	DCF3 (12)
D-1	Co-60	2.690E-05	2.690E-05	DCF3 (13)
D-1	Cs-134	7.330E-05	7.330E-05	DCF3 (14)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3 (15)
D-1	Fe-55	6.070E-07	6.070E-07	DCF3 (16)
D-1	H-3	6.400E-08	6.400E-08	DCF3 (17)
D-1	Mn-54	2.770E-06	2.770E-06	DCF3 (18)
D-1	Ni-63	5.770E-07	5.770E-07	DCF3 (19)
D-1	Np-237+D	4.440E-03	4.440E-03	DCF3 (20)
D-1	Pa-231	1.060E-02	1.060E-02	DCF3 (21)
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3 (22)
D-1	Pu-238	3.200E-03	3.200E-03	DCF3 (23)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3 (24)
D-1	Pu-240	3.540E-03	3.540E-03	DCF3 (25)
D-1	Pu-241+D	6.850E-05	6.850E-05	DCF3 (26)
D-1	Pu-242	3.360E-03	3.360E-03	DCF3 (28)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3 (29)
D-1	Ra-228+D	1.440E-03	1.440E-03	DCF3 (30)
D-1	Sb-125+D	3.647E-06	3.647E-06	DCF3 (31)
D-1	Sr-90+D	1.530E-04	1.530E-04	DCF3 (32)
D-1	Th-228+D	8.080E-04	8.080E-04	DCF3 (33)
D-1	Th-229+D	4.030E-03	4.030E-03	DCF3 (34)
D-1	Th-230	5.480E-04	5.480E-04	DCF3 (35)
D-1	Th-232	2.730E-03	2.730E-03	DCF3 (36)
D-1	U-233	2.890E-04	2.890E-04	DCF3 (37)
D-1	U-234	2.830E-04	2.830E-04	DCF3 (38)
D-1	U-235+D	2.670E-04	2.670E-04	DCF3 (39)
D-1	U-236	2.690E-04	2.690E-04	DCF3 (40)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3 (41)
D-1	Zn-65	1.440E-05	1.440E-05	DCF3 (42)
D-34	Food transfer factors:			
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (1,1)
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,2)
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF (1,3)
D-34				
D-34	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF (2,1)
D-34	Ag-110m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-03	3.000E-03	RTF (2,2)
D-34	Ag-110m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.500E-02	2.500E-02	RTF (2,3)
D-34				
D-34	Am-241 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (3,1)
D-34	Am-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF (3,2)
D-34	Am-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (3,3)
D-34				
D-34	Am-243+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (4,1)
D-34	Am-243+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF (4,2)
D-34	Am-243+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF (4,3)
D-34				

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

File: Default.LIB

Menu	Parameter	Current Value	Default	Parameter Name
D-34	C-14 , plant/soil concentration ratio, dimensionless	5.500E+00	5.500E+00	RTF(5,1)
D-34	C-14 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.100E-02	3.100E-02	RTF(5,2)
D-34	C-14 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.200E-02	1.200E-02	RTF(5,3)
D-34				
D-34	Cm-243 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(6,1)
D-34	Cm-243 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(6,2)
D-34	Cm-243 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(6,3)
D-34				
D-34	Cm-244 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(8,1)
D-34	Cm-244 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(8,2)
D-34	Cm-244 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(8,3)
D-34				
D-34	Cm-245 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(9,1)
D-34	Cm-245 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(9,2)
D-34	Cm-245 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(9,3)
D-34				
D-34	Cm-246 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(11,1)
D-34	Cm-246 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(11,2)
D-34	Cm-246 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(11,3)
D-34				
D-34	Co-57 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(12,1)
D-34	Co-57 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(12,2)
D-34	Co-57 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF(12,3)
D-34				
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(13,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(13,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF(13,3)
D-34				
D-34	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(14,1)
D-34	Cs-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF(14,2)
D-34	Cs-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF(14,3)
D-34				
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(15,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF(15,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF(15,3)
D-34				
D-34	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,1)
D-34	Fe-55 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(16,2)
D-34	Fe-55 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(16,3)
D-34				
D-34	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(17,1)
D-34	H-3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF(17,2)
D-34	H-3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(17,3)
D-34				
D-34	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(18,1)
D-34	Mn-54 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-04	5.000E-04	RTF(18,2)
D-34	Mn-54 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(18,3)
D-34				

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

File: Default.LIB

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Ni-63 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(19,1)
D-34	Ni-63 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(19,2)
D-34	Ni-63 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	RTF(19,3)
D-34				
D-34	Np-237+D , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(20,1)
D-34	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(20,2)
D-34	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(20,3)
D-34				
D-34	Pa-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(21,1)
D-34	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(21,2)
D-34	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(21,3)
D-34				
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(22,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(22,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(22,3)
D-34				
D-34	Pu-238 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(23,1)
D-34	Pu-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(23,2)
D-34	Pu-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(23,3)
D-34				
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(24,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(24,2)
D-34	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(24,3)
D-34				
D-34	Pu-240 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(25,1)
D-34	Pu-240 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(25,2)
D-34	Pu-240 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(25,3)
D-34				
D-34	Pu-241+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(26,1)
D-34	Pu-241+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(26,2)
D-34	Pu-241+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(26,3)
D-34				
D-34	Pu-242 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(28,1)
D-34	Pu-242 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(28,2)
D-34	Pu-242 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(28,3)
D-34				
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(29,1)
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(29,2)
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(29,3)
D-34				
D-34	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(30,1)
D-34	Ra-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(30,2)
D-34	Ra-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(30,3)
D-34				
D-34	Sb-125+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(31,1)
D-34	Sb-125+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(31,2)
D-34	Sb-125+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-04	1.000E-04	RTF(31,3)
D-34				

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

File: Default.LIB

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Sr-90+D , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF (32,1)
D-34	Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	RTF (32,2)
D-34	Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF (32,3)
D-34	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (33,1)
D-34	Th-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (33,2)
D-34	Th-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (33,3)
D-34	Th-229+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (34,1)
D-34	Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (34,2)
D-34	Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (34,3)
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (35,1)
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (35,2)
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (35,3)
D-34	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF (36,1)
D-34	Th-232 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF (36,2)
D-34	Th-232 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF (36,3)
D-34	U-233 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (37,1)
D-34	U-233 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (37,2)
D-34	U-233 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (37,3)
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (38,1)
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (38,2)
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (38,3)
D-34	U-235+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (39,1)
D-34	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (39,2)
D-34	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (39,3)
D-34	U-236 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (40,1)
D-34	U-236 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (40,2)
D-34	U-236 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (40,3)
D-34	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF (41,1)
D-34	U-238+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF (41,2)
D-34	U-238+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF (41,3)
D-34	Zn-65 , plant/soil concentration ratio, dimensionless	4.000E-01	4.000E-01	RTF (42,1)
D-34	Zn-65 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-01	1.000E-01	RTF (42,2)
D-34	Zn-65 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF (42,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Ac-227+D , fish	1.500E+01	1.500E+01	BIOFAC (1,1)
D-5	Ac-227+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (1,2)
D-5	Ag-110m+D, fish	5.000E+00	5.000E+00	BIOFAC (2,1)
D-5	Ag-110m+D, crustacea and mollusks	7.700E+02	7.700E+02	BIOFAC (2,2)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

File: Default.LIB

0 Menu	Parameter	Current Value	Default	Parameter Name
D-5	Am-241 , fish	3.000E+01	3.000E+01	BIOFAC(3,1)
D-5	Am-241 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(3,2)
D-5	Am-243+D , fish	3.000E+01	3.000E+01	BIOFAC(4,1)
D-5	Am-243+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(4,2)
D-5	C-14 , fish	5.000E+04	5.000E+04	BIOFAC(5,1)
D-5	C-14 , crustacea and mollusks	9.100E+03	9.100E+03	BIOFAC(5,2)
D-5	Cm-243 , fish	3.000E+01	3.000E+01	BIOFAC(6,1)
D-5	Cm-243 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(6,2)
D-5	Cm-244 , fish	3.000E+01	3.000E+01	BIOFAC(8,1)
D-5	Cm-244 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(8,2)
D-5	Cm-245 , fish	3.000E+01	3.000E+01	BIOFAC(9,1)
D-5	Cm-245 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(9,2)
D-5	Cm-246 , fish	3.000E+01	3.000E+01	BIOFAC(11,1)
D-5	Cm-246 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(11,2)
D-5	Co-57 , fish	3.000E+02	3.000E+02	BIOFAC(12,1)
D-5	Co-57 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC(12,2)
D-5	Co-60 , fish	3.000E+02	3.000E+02	BIOFAC(13,1)
D-5	Co-60 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC(13,2)
D-5	Cs-134 , fish	2.000E+03	2.000E+03	BIOFAC(14,1)
D-5	Cs-134 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(14,2)
D-5	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFAC(15,1)
D-5	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(15,2)
D-5	Fe-55 , fish	2.000E+02	2.000E+02	BIOFAC(16,1)
D-5	Fe-55 , crustacea and mollusks	3.200E+03	3.200E+03	BIOFAC(16,2)
D-5	H-3 , fish	1.000E+00	1.000E+00	BIOFAC(17,1)
D-5	H-3 , crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC(17,2)
D-5	Mn-54 , fish	4.000E+02	4.000E+02	BIOFAC(18,1)
D-5	Mn-54 , crustacea and mollusks	9.000E+04	9.000E+04	BIOFAC(18,2)
D-5	Ni-63 , fish	1.000E+02	1.000E+02	BIOFAC(19,1)
D-5	Ni-63 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(19,2)
D-5	Np-237+D , fish	3.000E+01	3.000E+01	BIOFAC(20,1)
D-5	Np-237+D , crustacea and mollusks	4.000E+02	4.000E+02	BIOFAC(20,2)
D-5	Pa-231 , fish	1.000E+01	1.000E+01	BIOFAC(21,1)
D-5	Pa-231 , crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC(21,2)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

File: Default.LIB

0 Menu	Parameter	Current Value	Default	Parameter Name
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC(22,1)
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(22,2)
D-5	Pu-238 , fish	3.000E+01	3.000E+01	BIOFAC(23,1)
D-5	Pu-238 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(23,2)
D-5	Pu-239 , fish	3.000E+01	3.000E+01	BIOFAC(24,1)
D-5	Pu-239 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(24,2)
D-5	Pu-240 , fish	3.000E+01	3.000E+01	BIOFAC(25,1)
D-5	Pu-240 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(25,2)
D-5	Pu-241+D , fish	3.000E+01	3.000E+01	BIOFAC(26,1)
D-5	Pu-241+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(26,2)
D-5	Pu-242 , fish	3.000E+01	3.000E+01	BIOFAC(28,1)
D-5	Pu-242 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(28,2)
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC(29,1)
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(29,2)
D-5	Ra-228+D , fish	5.000E+01	5.000E+01	BIOFAC(30,1)
D-5	Ra-228+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(30,2)
D-5	Sb-125+D , fish	1.000E+02	1.000E+02	BIOFAC(31,1)
D-5	Sb-125+D , crustacea and mollusks	1.000E+01	1.000E+01	BIOFAC(31,2)
D-5	Sr-90+D , fish	6.000E+01	6.000E+01	BIOFAC(32,1)
D-5	Sr-90+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(32,2)
D-5	Th-228+D , fish	1.000E+02	1.000E+02	BIOFAC(33,1)
D-5	Th-228+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(33,2)
D-5	Th-229+D , fish	1.000E+02	1.000E+02	BIOFAC(34,1)
D-5	Th-229+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(34,2)
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(35,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(35,2)
D-5	Th-232 , fish	1.000E+02	1.000E+02	BIOFAC(36,1)
D-5	Th-232 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(36,2)
D-5	U-233 , fish	1.000E+01	1.000E+01	BIOFAC(37,1)
D-5	U-233 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(37,2)
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(38,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(38,2)
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC(39,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(39,2)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)

File : DEFFARMB.RAD

Dose Conversion Factor (and Related) Parameter Summary (continued)
 File: Default.LIB

Menu	Parameter	Current Value	Default	Parameter Name
D-5	U-236 , fish	1.000E+01	1.000E+01	BIOFAC(40,1)
D-5	U-236 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(40,2)
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC(41,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(41,2)
D-5	Zn-65 , fish	1.000E+03	1.000E+03	BIOFAC(42,1)
D-5	Zn-65 , crustacea and mollusks	1.000E+04	1.000E+04	BIOFAC(42,2)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R011	Area of contaminated zone (m**2)	2.023E+06	1.000E+04	---	AREA
	R011	Thickness of contaminated zone (m)	1.500E-01	2.000E+00	---	THICK0
	R011	Length parallel to aquifer flow (m)	1.000E+02	1.000E+02	---	LCZPAQ
	R011	Basic radiation dose limit (mrem/yr)	1.900E+01	2.500E+01	---	BRDL
	R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
	R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T(2)
	R011	Times for calculations (yr)	3.000E+00	3.000E+00	---	T(3)
	R011	Times for calculations (yr)	1.000E+01	1.000E+01	---	T(4)
	R011	Times for calculations (yr)	3.000E+01	3.000E+01	---	T(5)
	R011	Times for calculations (yr)	1.000E+02	1.000E+02	---	T(6)
	R011	Times for calculations (yr)	3.000E+02	3.000E+02	---	T(7)
	R011	Times for calculations (yr)	1.000E+03	1.000E+03	---	T(8)
	R011	Times for calculations (yr)	not used	0.000E+00	---	T(9)
	R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
	R012	Initial principal radionuclide (pCi/g): Ag-110m	9.500E-03	0.000E+00	---	S1(2)
	R012	Initial principal radionuclide (pCi/g): Am-241	1.035E-01	0.000E+00	---	S1(3)
	R012	Initial principal radionuclide (pCi/g): C-14	5.000E-03	0.000E+00	---	S1(5)
	R012	Initial principal radionuclide (pCi/g): Cm-243	2.300E-02	0.000E+00	---	S1(6)
	R012	Initial principal radionuclide (pCi/g): Cm-244	2.300E-02	0.000E+00	---	S1(8)
	R012	Initial principal radionuclide (pCi/g): Cm-245	1.145E-01	0.000E+00	---	S1(9)
	R012	Initial principal radionuclide (pCi/g): Cm-246	1.145E-01	0.000E+00	---	S1(11)
	R012	Initial principal radionuclide (pCi/g): Co-57	1.050E-01	0.000E+00	---	S1(12)
	R012	Initial principal radionuclide (pCi/g): Co-60	5.000E+00	0.000E+00	---	S1(13)
	R012	Initial principal radionuclide (pCi/g): Cs-134	2.730E-01	0.000E+00	---	S1(14)
	R012	Initial principal radionuclide (pCi/g): Cs-137	1.591E+00	0.000E+00	---	S1(15)
	R012	Initial principal radionuclide (pCi/g): Fe-55	9.792E+00	0.000E+00	---	S1(16)
	R012	Initial principal radionuclide (pCi/g): H-3	3.103E+01	0.000E+00	---	S1(17)
	R012	Initial principal radionuclide (pCi/g): Mn-54	5.605E-01	0.000E+00	---	S1(18)
	R012	Initial principal radionuclide (pCi/g): Ni-63	1.164E+00	0.000E+00	---	S1(19)
	R012	Initial principal radionuclide (pCi/g): Pu-238	3.800E-02	0.000E+00	---	S1(23)
	R012	Initial principal radionuclide (pCi/g): Pu-239	2.395E-01	0.000E+00	---	S1(24)
	R012	Initial principal radionuclide (pCi/g): Pu-240	2.395E-01	0.000E+00	---	S1(25)
	R012	Initial principal radionuclide (pCi/g): Pu-241	4.347E+00	0.000E+00	---	S1(26)
	R012	Initial principal radionuclide (pCi/g): Sb-125	3.440E-01	0.000E+00	---	S1(31)
	R012	Initial principal radionuclide (pCi/g): Sr-90	2.450E-01	0.000E+00	---	S1(32)
	R012	Initial principal radionuclide (pCi/g): Zn-65	3.400E-02	0.000E+00	---	S1(42)
	R012	Concentration in groundwater (pCi/L): Ag-110m	not used	0.000E+00	---	W1(2)
	R012	Concentration in groundwater (pCi/L): Am-241	not used	0.000E+00	---	W1(3)
	R012	Concentration in groundwater (pCi/L): C-14	not used	0.000E+00	---	W1(5)
	R012	Concentration in groundwater (pCi/L): Cm-243	not used	0.000E+00	---	W1(6)
	R012	Concentration in groundwater (pCi/L): Cm-244	not used	0.000E+00	---	W1(8)
	R012	Concentration in groundwater (pCi/L): Cm-245	not used	0.000E+00	---	W1(9)
	R012	Concentration in groundwater (pCi/L): Cm-246	not used	0.000E+00	---	W1(11)
	R012	Concentration in groundwater (pCi/L): Co-57	not used	0.000E+00	---	W1(12)
	R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---	W1(13)
	R012	Concentration in groundwater (pCi/L): Cs-134	not used	0.000E+00	---	W1(14)
	R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1(15)
	R012	Concentration in groundwater (pCi/L): Fe-55	not used	0.000E+00	---	W1(16)
	R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1(17)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)							
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name	
	R012	Concentration in groundwater (pCi/L): Mn-54	not used	0.000E+00	---	W1 (18)	
	R012	Concentration in groundwater (pCi/L): Ni-63	not used	0.000E+00	---	W1 (19)	
	R012	Concentration in groundwater (pCi/L): Pu-238	not used	0.000E+00	---	W1 (23)	
	R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---	W1 (24)	
	R012	Concentration in groundwater (pCi/L): Pu-240	not used	0.000E+00	---	W1 (25)	
	R012	Concentration in groundwater (pCi/L): Pu-241	not used	0.000E+00	---	W1 (26)	
	R012	Concentration in groundwater (pCi/L): Sb-125	not used	0.000E+00	---	W1 (31)	
	R012	Concentration in groundwater (pCi/L): Sr-90	not used	0.000E+00	---	W1 (32)	
	R012	Concentration in groundwater (pCi/L): Zn-65	not used	0.000E+00	---	W1 (42)	
	R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0	
	R013	Density of cover material (g/cm**3)	not used	1.500E+00	---	DENSCV	
	R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV	
	R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ	
	R013	Contaminated zone erosion rate (m/yr)	1.000E-03	1.000E-03	---	VCZ	
	R013	Contaminated zone total porosity	4.000E-01	4.000E-01	---	TPCZ	
	R013	Contaminated zone field capacity	2.000E-01	2.000E-01	---	FCCZ	
	R013	Contaminated zone hydraulic conductivity (m/yr)	1.000E+01	1.000E+01	---	HCCZ	
	R013	Contaminated zone b parameter	5.300E+00	5.300E+00	---	BCZ	
	R013	Average annual wind speed (m/sec)	3.160E+00	2.000E+00	---	WIND	
	R013	Humidity in air (g/m**3)	8.000E+00	8.000E+00	---	HUMID	
	R013	Evapotranspiration coefficient	5.000E-01	5.000E-01	---	EVAPTR	
	R013	Precipitation (m/yr)	1.120E+00	1.000E+00	---	PRECIP	
	R013	Irrigation (m/yr)	2.000E-01	2.000E-01	---	RI	
	R013	Irrigation mode	overhead	overhead	---	IDITCH	
	R013	Runoff coefficient	2.000E-01	2.000E-01	---	RUNOFF	
	R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA	
	R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	---	EPS	
	R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ	
	R014	Saturated zone total porosity	4.000E-01	4.000E-01	---	TPSZ	
	R014	Saturated zone effective porosity	2.000E-01	2.000E-01	---	EPSZ	
	R014	Saturated zone field capacity	2.000E-01	2.000E-01	---	FCSZ	
	R014	Saturated zone hydraulic conductivity (m/yr)	1.000E+02	1.000E+02	---	HCSZ	
	R014	Saturated zone hydraulic gradient	2.000E-02	2.000E-02	---	HGWT	
	R014	Saturated zone b parameter	5.300E+00	5.300E+00	---	BSZ	
	R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---	VWT	
	R014	Well pump intake depth (m below water table)	1.000E+01	1.000E+01	---	DWIBWT	
	R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL	
	R014	Well pumping rate (m**3/yr)	2.500E+02	2.500E+02	---	UW	
	R015	Number of unsaturated zone strata	2	1	---	NS	
	R015	Unsat. zone 1, thickness (m)	2.000E+00	4.000E+00	---	H (1)	
	R015	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ (1)	
	R015	Unsat. zone 1, total porosity	4.000E-01	4.000E-01	---	TPUZ (1)	
	R015	Unsat. zone 1, effective porosity	2.000E-01	2.000E-01	---	EPUZ (1)	
	R015	Unsat. zone 1, field capacity	2.000E-01	2.000E-01	---	FCUZ (1)	
	R015	Unsat. zone 1, soil-specific b parameter	5.300E+00	5.300E+00	---	BUZ (1)	
	R015	Unsat. zone 1, hydraulic conductivity (m/yr)	1.000E+01	1.000E+01	---	HCUZ (1)	

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R015	Unsat. zone 2, thickness (m)	4.000E+00	0.000E+00	---	H (2)
	R015	Unsat. zone 2, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ (2)
	R015	Unsat. zone 2, total porosity	4.000E-01	4.000E-01	---	TPUZ (2)
	R015	Unsat. zone 2, effective porosity	2.000E-01	2.000E-01	---	EPUZ (2)
	R015	Unsat. zone 2, field capacity	2.000E-01	2.000E-01	---	FCUZ (2)
	R015	Unsat. zone 2, soil-specific b parameter	5.300E+00	5.300E+00	---	BUZ (2)
	R015	Unsat. zone 2, hydraulic conductivity (m/yr)	1.000E+01	1.000E+01	---	HCUZ (2)
	R016	Distribution coefficients for Ag-110m				
	R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (2)
	R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (2,1)
	R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (2,2)
	R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (2)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E+01	ALEACH (2)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (2)
	R016	Distribution coefficients for Am-241				
	R016	Contaminated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCC (3)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (3,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (3,2)
	R016	Saturated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCS (3)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.205E-01	ALEACH (3)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (3)
	R016	Distribution coefficients for C-14				
	R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (5)
	R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (5,1)
	R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (5,2)
	R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (5)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E+01	ALEACH (5)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (5)
	R016	Distribution coefficients for Cm-243				
	R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (6)
	R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (6,1)
	R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (6,2)
	R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (6)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.767E-03	ALEACH (6)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (6)
	R016	Distribution coefficients for Cm-244				
	R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (8)
	R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (8,1)
	R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (8,2)
	R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (8)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.767E-03	ALEACH (8)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (8)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R016	Distribution coefficients for Cm-245				
	R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (9)
	R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (9,1)
	R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (9,2)
	R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (9)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.767E-03	ALEACH (9)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (9)
	R016	Distribution coefficients for Cm-246				
	R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (11)
	R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (11,1)
	R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (11,2)
	R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (11)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.767E-03	ALEACH (11)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (11)
	R016	Distribution coefficients for Co-57				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (12)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (12,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (12,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (12)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (12)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (12)
	R016	Distribution coefficients for Co-60				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (13)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (13,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (13,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (13)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (13)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (13)
	R016	Distribution coefficients for Cs-134				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (14)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (14,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (14,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (14)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (14)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (14)
	R016	Distribution coefficients for Cs-137				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (15)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (15,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (15,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (15)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (15)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (15)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R016	Distribution coefficients for Fe-55				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (16)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (16,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (16,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (16)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (16)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (16)
	R016	Distribution coefficients for H-3				
	R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (17)
	R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (17,1)
	R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (17,2)
	R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (17)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E+01	ALEACH (17)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (17)
	R016	Distribution coefficients for Mn-54				
	R016	Contaminated zone (cm**3/g)	2.000E+02	2.000E+02	---	DCNUCC (18)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+02	2.000E+02	---	DCNUCU (18,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+02	2.000E+02	---	DCNUCU (18,2)
	R016	Saturated zone (cm**3/g)	2.000E+02	2.000E+02	---	DCNUCS (18)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.216E-02	ALEACH (18)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (18)
	R016	Distribution coefficients for Ni-63				
	R016	Contaminated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCC (19)
	R016	Unsaturated zone 1 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (19,1)
	R016	Unsaturated zone 2 (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCU (19,2)
	R016	Saturated zone (cm**3/g)	1.000E+03	1.000E+03	---	DCNUCS (19)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.435E-03	ALEACH (19)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (19)
	R016	Distribution coefficients for Pu-238				
	R016	Contaminated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCC (23)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (23,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (23,2)
	R016	Saturated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCS (23)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.218E-03	ALEACH (23)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (23)
	R016	Distribution coefficients for Pu-239				
	R016	Contaminated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCC (24)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (24,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (24,2)
	R016	Saturated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCS (24)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.218E-03	ALEACH (24)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (24)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R016	Distribution coefficients for Pu-240				
	R016	Contaminated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCC (25)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (25,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (25,2)
	R016	Saturated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCS (25)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.218E-03	ALEACH (25)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (25)
	R016	Distribution coefficients for Pu-241				
	R016	Contaminated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCC (26)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (26,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (26,2)
	R016	Saturated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCS (26)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.218E-03	ALEACH (26)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (26)
	R016	Distribution coefficients for Sb-125				
	R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (31)
	R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (31,1)
	R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (31,2)
	R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (31)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E+01	ALEACH (31)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (31)
	R016	Distribution coefficients for Sr-90				
	R016	Contaminated zone (cm**3/g)	3.000E+01	3.000E+01	---	DCNUCC (32)
	R016	Unsaturated zone 1 (cm**3/g)	3.000E+01	3.000E+01	---	DCNUCU (32,1)
	R016	Unsaturated zone 2 (cm**3/g)	3.000E+01	3.000E+01	---	DCNUCU (32,2)
	R016	Saturated zone (cm**3/g)	3.000E+01	3.000E+01	---	DCNUCS (32)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.061E-02	ALEACH (32)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (32)
	R016	Distribution coefficients for Zn-65				
	R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (42)
	R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (42,1)
	R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (42,2)
	R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (42)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.131E+01	ALEACH (42)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (42)
	R016	Distribution coefficients for daughter Ac-227				
	R016	Contaminated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCC (1)
	R016	Unsaturated zone 1 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (1,1)
	R016	Unsaturated zone 2 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (1,2)
	R016	Saturated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCS (1)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.205E-01	ALEACH (1)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (1)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for daughter Am-243				
R016	Contaminated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCC (4)
R016	Unsaturated zone 1 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (4,1)
R016	Unsaturated zone 2 (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCU (4,2)
R016	Saturated zone (cm**3/g)	2.000E+01	2.000E+01	---	DCNUCS (4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.205E-01	ALEACH (4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (4)
R016	Distribution coefficients for daughter Np-237				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCC (20)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (20,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (20,2)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCS (20)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.453E-03	ALEACH (20)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (20)
R016	Distribution coefficients for daughter Pa-231				
R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (21)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (21,1)
R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (21,2)
R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (21)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (21)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (21)
R016	Distribution coefficients for daughter Pb-210				
R016	Contaminated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCC (22)
R016	Unsaturated zone 1 (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCU (22,1)
R016	Unsaturated zone 2 (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCU (22,2)
R016	Saturated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCS (22)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.430E-02	ALEACH (22)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (22)
R016	Distribution coefficients for daughter Pu-242				
R016	Contaminated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCC (28)
R016	Unsaturated zone 1 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (28,1)
R016	Unsaturated zone 2 (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCU (28,2)
R016	Saturated zone (cm**3/g)	2.000E+03	2.000E+03	---	DCNUCS (28)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.218E-03	ALEACH (28)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (28)
R016	Distribution coefficients for daughter Ra-226				
R016	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCC (29)
R016	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (29,1)
R016	Unsaturated zone 2 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (29,2)
R016	Saturated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCS (29)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.469E-02	ALEACH (29)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (29)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R016	Distribution coefficients for daughter Ra-228				
	R016	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCC (30)
	R016	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (30,1)
	R016	Unsaturated zone 2 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (30,2)
	R016	Saturated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCS (30)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.469E-02	ALEACH (30)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (30)
	R016	Distribution coefficients for daughter Th-228				
	R016	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCC (33)
	R016	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (33,1)
	R016	Unsaturated zone 2 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (33,2)
	R016	Saturated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCS (33)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.059E-05	ALEACH (33)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (33)
	R016	Distribution coefficients for daughter Th-229				
	R016	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCC (34)
	R016	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (34,1)
	R016	Unsaturated zone 2 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (34,2)
	R016	Saturated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCS (34)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.059E-05	ALEACH (34)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (34)
	R016	Distribution coefficients for daughter Th-230				
	R016	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCC (35)
	R016	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (35,1)
	R016	Unsaturated zone 2 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (35,2)
	R016	Saturated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCS (35)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.059E-05	ALEACH (35)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (35)
	R016	Distribution coefficients for daughter Th-232				
	R016	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCC (36)
	R016	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (36,1)
	R016	Unsaturated zone 2 (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCU (36,2)
	R016	Saturated zone (cm**3/g)	6.000E+04	6.000E+04	---	DCNUCS (36)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.059E-05	ALEACH (36)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (36)
	R016	Distribution coefficients for daughter U-233				
	R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (37)
	R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (37,1)
	R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (37,2)
	R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (37)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (37)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (37)

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R016	Distribution coefficients for daughter U-234				
	R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (38)
	R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (38,1)
	R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (38,2)
	R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (38)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (38)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (38)
	R016	Distribution coefficients for daughter U-235				
	R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (39)
	R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (39,1)
	R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (39,2)
	R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (39)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (39)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (39)
	R016	Distribution coefficients for daughter U-236				
	R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (40)
	R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (40,1)
	R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (40,2)
	R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (40)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (40)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (40)
	R016	Distribution coefficients for daughter U-238				
	R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (41)
	R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (41,1)
	R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (41,2)
	R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (41)
	R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.850E-02	ALEACH (41)
	R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (41)
	R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---	INHALR
	R017	Mass loading for inhalation (g/m**3)	1.000E-04	1.000E-04	---	MLINH
	R017	Exposure duration	3.000E+01	3.000E+01	---	ED
	R017	Shielding factor, inhalation	4.000E-01	4.000E-01	---	SHF3
	R017	Shielding factor, external gamma	7.000E-01	7.000E-01	---	SHF1
	R017	Fraction of time spent indoors	5.000E-01	5.000E-01	---	FIND
	R017	Fraction of time spent outdoors (on site)	2.500E-01	2.500E-01	---	FOTD
	R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)					
0	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE(1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE(2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE(3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE(4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE(5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE(6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE(7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE(8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE(9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA(1)
R017	Ring 2	not used	2.732E-01	---	FRACA(2)
R017	Ring 3	not used	0.000E+00	---	FRACA(3)
R017	Ring 4	not used	0.000E+00	---	FRACA(4)
R017	Ring 5	not used	0.000E+00	---	FRACA(5)
R017	Ring 6	not used	0.000E+00	---	FRACA(6)
R017	Ring 7	not used	0.000E+00	---	FRACA(7)
R017	Ring 8	not used	0.000E+00	---	FRACA(8)
R017	Ring 9	not used	0.000E+00	---	FRACA(9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	1.600E+02	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	1.400E+01	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	1.460E+02	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	6.300E+01	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	5.400E+00	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	0.000E+00	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	3.650E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	5.840E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	1.000E+00	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	1.000E+00	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	5.000E-01	5.000E-01	---	FR9
R018	Contamination fraction of plant food	-1	-1	0.500E+00	FPLANT
R018	Contamination fraction of meat	-1	-1	0.100E+01	FMEAT
R018	Contamination fraction of milk	-1	-1	0.100E+01	FMILK
R019	Livestock fodder intake for meat (kg/day)	6.800E+01	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	5.500E+01	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	5.000E+01	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	1.600E+02	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	5.000E-01	5.000E-01	---	LSI

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Site-Specific Parameter Summary (continued)						
0	Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
	R019	Mass loading for foliar deposition (g/m**3)	1.000E-04	1.000E-04	---	MLFD
	R019	Depth of soil mixing layer (m)	1.500E-01	1.500E-01	---	DM
	R019	Depth of roots (m)	9.000E-01	9.000E-01	---	DROOT
	R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
	R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
	R019	Livestock water fraction from ground water	1.000E+00	1.000E+00	---	FGWLW
	R019	Irrigation fraction from ground water	1.000E+00	1.000E+00	---	FGWIR
	R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	7.000E-01	7.000E-01	---	YV(1)
	R19B	Wet weight crop yield for Leafy (kg/m**2)	1.500E+00	1.500E+00	---	YV(2)
	R19B	Wet weight crop yield for Fodder (kg/m**2)	1.100E+00	1.100E+00	---	YV(3)
	R19B	Growing Season for Non-Leafy (years)	1.700E-01	1.700E-01	---	TE(1)
	R19B	Growing Season for Leafy (years)	2.500E-01	2.500E-01	---	TE(2)
	R19B	Growing Season for Fodder (years)	8.000E-02	8.000E-02	---	TE(3)
	R19B	Translocation Factor for Non-Leafy	1.000E-01	1.000E-01	---	TIV(1)
	R19B	Translocation Factor for Leafy	1.000E+00	1.000E+00	---	TIV(2)
	R19B	Translocation Factor for Fodder	1.000E+00	1.000E+00	---	TIV(3)
	R19B	Dry Foliar Interception Fraction for Non-Leafy	2.500E-01	2.500E-01	---	RDRY(1)
	R19B	Dry Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RDRY(2)
	R19B	Dry Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RDRY(3)
	R19B	Wet Foliar Interception Fraction for Non-Leafy	2.500E-01	2.500E-01	---	RWET(1)
	R19B	Wet Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RWET(2)
	R19B	Wet Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RWET(3)
	R19B	Weathering Removal Constant for Vegetation	2.000E+01	2.000E+01	---	WLAM
	C14	C-12 concentration in water (g/cm**3)	2.000E-05	2.000E-05	---	C12WTR
	C14	C-12 concentration in contaminated soil (g/g)	3.000E-02	3.000E-02	---	C12CZ
	C14	Fraction of vegetation carbon from soil	2.000E-02	2.000E-02	---	CSOIL
	C14	Fraction of vegetation carbon from air	9.800E-01	9.800E-01	---	CAIR
	C14	C-14 evasion layer thickness in soil (m)	3.000E-01	3.000E-01	---	DMC
	C14	C-14 evasion flux rate from soil (1/sec)	7.000E-07	7.000E-07	---	EVSN
	C14	C-12 evasion flux rate from soil (1/sec)	1.000E-10	1.000E-10	---	REVSN
	C14	Fraction of grain in beef cattle feed	8.000E-01	8.000E-01	---	AVFG4
	C14	Fraction of grain in milk cow feed	2.000E-01	2.000E-01	---	AVFG5
	C14	DCF correction factor for gaseous forms of C14	1.234E+02	1.234E+02	---	CO2F
	STOR	Storage times of contaminated foodstuffs (days):				
	STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
	STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)
	STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
	STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T(4)
	STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
	STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
	STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
	STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)
	STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
	R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
	R021	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
	R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

Summary of Pathway Selections

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

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Contaminated Zone Dimensions	Initial Soil Concentrations, pCi/g	
Area:2023400.00 square meters	Ag-110m	9.500E-03
Thickness: 0.15 meters	Am-241	1.035E-01
Cover Depth: 0.00 meters	C-14	5.000E-03
	Cm-243	2.300E-02
	Cm-244	2.300E-02
	Cm-245	1.145E-01
	Cm-246	1.145E-01
	Co-57	1.050E-01
	Co-60	5.000E+00
	Cs-134	2.730E-01
	Cs-137	1.591E+00
	Fe-55	9.792E+00
	H-3	3.103E+01
	Mn-54	5.605E-01
	Ni-63	1.164E+00
	Pu-238	3.800E-02
	Pu-239	2.395E-01
	Pu-240	2.395E-01
	Pu-241	4.347E+00
	Sb-125	3.440E-01
	Sr-90	2.450E-01
	Zn-65	3.400E-02

0

Total Dose TDOSE(t), mrem/yr

Basic Radiation Dose Limit = 19 mrem/yr

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

t (years):	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
TDOSE(t):	4.462E+01	3.861E+01	2.977E+01	1.257E+01	2.135E+00	1.987E-01	6.009E-01	1.518E-02
M(t):	2.348E+00	2.032E+00	1.567E+00	6.614E-01	1.124E-01	1.046E-02	3.163E-02	7.989E-04
0Maximum TDOSE(t):	4.462E+01 mrem/yr at t = 0.000E+00 years							

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

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

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	6.928E-03	0.0002	5.532E-09	0.0000	0.000E+00	0.0000	1.968E-05	0.0000	6.366E-06	0.0000	7.822E-05	0.0000	2.283E-07	0.0000
Am-241	2.553E-03	0.0001	3.848E-03	0.0001	0.000E+00	0.0000	5.197E-03	0.0001	5.734E-04	0.0000	5.262E-05	0.0000	9.677E-03	0.0002
C-14	1.284E-09	0.0000	3.022E-07	0.0000	0.000E+00	0.0000	7.312E-04	0.0000	1.015E-03	0.0000	2.973E-04	0.0000	9.141E-09	0.0000
Cm-243	7.586E-03	0.0002	6.199E-04	0.0000	0.000E+00	0.0000	8.321E-04	0.0000	3.664E-05	0.0000	8.451E-06	0.0000	1.555E-03	0.0000
Cm-244	1.705E-06	0.0000	4.973E-04	0.0000	0.000E+00	0.0000	6.650E-04	0.0000	2.930E-05	0.0000	6.754E-06	0.0000	1.243E-03	0.0000
Cm-245	2.279E-02	0.0005	4.631E-03	0.0001	0.000E+00	0.0000	6.250E-03	0.0001	2.756E-04	0.0000	6.346E-05	0.0000	1.168E-02	0.0003
Cm-246	7.962E-06	0.0000	4.588E-03	0.0001	0.000E+00	0.0000	6.180E-03	0.0001	2.721E-04	0.0000	6.277E-05	0.0000	1.155E-02	0.0003
Co-57	1.996E-02	0.0004	5.501E-08	0.0000	0.000E+00	0.0000	9.307E-05	0.0000	1.423E-04	0.0000	2.891E-05	0.0000	2.195E-06	0.0000
Co-60	3.823E+01	0.8567	9.115E-05	0.0000	0.000E+00	0.0000	1.456E-01	0.0033	2.227E-01	0.0050	4.523E-02	0.0010	3.435E-03	0.0001
Cs-134	1.164E+00	0.0261	9.538E-07	0.0000	0.000E+00	0.0000	9.820E-03	0.0002	3.053E-02	0.0007	1.714E-02	0.0004	4.632E-04	0.0000
Cs-137	2.860E+00	0.0641	4.457E-06	0.0000	0.000E+00	0.0000	4.543E-02	0.0010	1.412E-01	0.0032	7.931E-02	0.0018	2.143E-03	0.0000
Fe-55	0.000E+00	0.0000	2.064E-06	0.0000	0.000E+00	0.0000	7.647E-05	0.0000	3.367E-03	0.0001	1.165E-04	0.0000	1.429E-04	0.0000
H-3	0.000E+00	0.0000	5.031E-03	0.0001	0.000E+00	0.0000	6.775E-03	0.0002	4.522E-03	0.0001	3.996E-03	0.0001	3.211E-06	0.0000
Mn-54	1.033E+00	0.0231	2.278E-07	0.0000	0.000E+00	0.0000	4.594E-03	0.0001	1.300E-04	0.0000	1.505E-04	0.0000	2.889E-05	0.0000
Ni-63	0.000E+00	0.0000	6.483E-07	0.0000	0.000E+00	0.0000	4.834E-04	0.0000	2.242E-04	0.0000	1.867E-03	0.0000	1.824E-05	0.0000
Pu-238	3.415E-06	0.0000	1.319E-03	0.0000	0.000E+00	0.0000	1.767E-03	0.0000	3.891E-04	0.0000	8.976E-06	0.0000	3.303E-03	0.0001
Pu-239	4.072E-05	0.0000	9.132E-03	0.0002	0.000E+00	0.0000	1.237E-02	0.0003	2.724E-03	0.0001	6.283E-05	0.0000	2.312E-02	0.0005
Pu-240	2.106E-05	0.0000	9.132E-03	0.0002	0.000E+00	0.0000	1.237E-02	0.0003	2.724E-03	0.0001	6.282E-05	0.0000	2.312E-02	0.0005
Pu-241	1.331E-04	0.0000	3.242E-03	0.0001	0.000E+00	0.0000	4.418E-03	0.0001	9.553E-04	0.0000	2.332E-05	0.0000	8.254E-03	0.0002
Sb-125	3.963E-02	0.0009	3.685E-08	0.0000	0.000E+00	0.0000	1.726E-05	0.0000	5.639E-06	0.0000	1.027E-06	0.0000	2.974E-06	0.0000
Sr-90	3.223E-03	0.0001	2.711E-05	0.0000	0.000E+00	0.0000	1.547E-01	0.0035	7.059E-02	0.0016	3.394E-02	0.0008	9.712E-04	0.0000
Zn-65	5.267E-03	0.0001	5.020E-09	0.0000	0.000E+00	0.0000	2.498E-04	0.0000	2.453E-03	0.0001	3.483E-04	0.0000	1.087E-06	0.0000
===== Total	4.339E+01	0.9724	4.217E-02	0.0009	0.000E+00	0.0000	4.187E-01	0.0094	4.849E-01	0.0109	1.829E-01	0.0041	1.007E-01	0.0023

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
 As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.033E-03	0.0002
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.190E-02	0.0005
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.044E-03	0.0000
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.064E-02	0.0002
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.443E-03	0.0001
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.569E-02	0.0010
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.266E-02	0.0005
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.023E-02	0.0005
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.864E+01	0.8660
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.222E+00	0.0274
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.128E+00	0.0701
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.705E-03	0.0001
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.033E-02	0.0005
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.038E+00	0.0233
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.593E-03	0.0001
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.790E-03	0.0002
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.745E-02	0.0011
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.743E-02	0.0011
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.703E-02	0.0004
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.965E-02	0.0009
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.635E-01	0.0059
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.318E-03	0.0002
===== Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.462E+01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

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

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	3.083E-08	0.0000	2.450E-14	0.0000	0.000E+00	0.0000	1.232E-10	0.0000	9.595E-11	0.0000	8.409E-10	0.0000	1.011E-12	0.0000
Am-241	2.259E-03	0.0001	3.383E-03	0.0001	0.000E+00	0.0000	4.572E-03	0.0001	5.047E-04	0.0000	4.627E-05	0.0000	8.507E-03	0.0002
C-14	3.899E-24	0.0000	9.119E-22	0.0000	0.000E+00	0.0000	1.856E-17	0.0000	3.918E-16	0.0000	4.464E-17	0.0000	2.758E-23	0.0000
Cm-243	7.383E-03	0.0002	5.999E-04	0.0000	0.000E+00	0.0000	8.053E-04	0.0000	3.547E-05	0.0000	8.178E-06	0.0000	1.505E-03	0.0000
Cm-244	1.638E-06	0.0000	4.747E-04	0.0000	0.000E+00	0.0000	6.348E-04	0.0000	2.799E-05	0.0000	6.446E-06	0.0000	1.186E-03	0.0000
Cm-245	2.274E-02	0.0006	4.596E-03	0.0001	0.000E+00	0.0000	6.202E-03	0.0002	2.745E-04	0.0000	6.295E-05	0.0000	1.159E-02	0.0003
Cm-246	7.946E-06	0.0000	4.549E-03	0.0001	0.000E+00	0.0000	6.127E-03	0.0002	2.698E-04	0.0000	6.223E-05	0.0000	1.145E-02	0.0003
Co-57	7.816E-03	0.0002	2.141E-08	0.0000	0.000E+00	0.0000	3.623E-05	0.0000	5.541E-05	0.0000	1.125E-05	0.0000	8.544E-07	0.0000
Co-60	3.336E+01	0.8639	7.919E-05	0.0000	0.000E+00	0.0000	1.265E-01	0.0033	1.935E-01	0.0050	3.930E-02	0.0010	2.984E-03	0.0001
Cs-134	8.284E-01	0.0215	6.753E-07	0.0000	0.000E+00	0.0000	6.953E-03	0.0002	2.162E-02	0.0006	1.214E-02	0.0003	3.280E-04	0.0000
Cs-137	2.783E+00	0.0721	4.315E-06	0.0000	0.000E+00	0.0000	4.399E-02	0.0011	1.368E-01	0.0035	7.680E-02	0.0020	2.075E-03	0.0001
Fe-55	0.000E+00	0.0000	1.582E-06	0.0000	0.000E+00	0.0000	5.862E-05	0.0000	2.581E-03	0.0001	8.930E-05	0.0000	1.095E-04	0.0000
H-3	0.000E+00	0.0000	2.014E-10	0.0000	0.000E+00	0.0000	4.933E-10	0.0000	1.485E-09	0.0000	8.545E-10	0.0000	1.285E-13	0.0000
Mn-54	4.529E-01	0.0117	9.943E-08	0.0000	0.000E+00	0.0000	2.005E-03	0.0001	5.677E-05	0.0000	6.572E-05	0.0000	1.261E-05	0.0000
Ni-63	0.000E+00	0.0000	6.378E-07	0.0000	0.000E+00	0.0000	4.756E-04	0.0000	2.206E-04	0.0000	1.836E-03	0.0000	1.795E-05	0.0000
Pu-238	3.383E-06	0.0000	1.298E-03	0.0000	0.000E+00	0.0000	1.740E-03	0.0000	3.831E-04	0.0000	8.836E-06	0.0000	3.251E-03	0.0001
Pu-239	4.064E-05	0.0000	9.060E-03	0.0002	0.000E+00	0.0000	1.227E-02	0.0003	2.703E-03	0.0001	6.233E-05	0.0000	2.293E-02	0.0006
Pu-240	2.103E-05	0.0000	9.059E-03	0.0002	0.000E+00	0.0000	1.227E-02	0.0003	2.702E-03	0.0001	6.232E-05	0.0000	2.293E-02	0.0006
Pu-241	2.845E-04	0.0000	3.302E-03	0.0001	0.000E+00	0.0000	4.497E-03	0.0001	9.388E-04	0.0000	2.528E-05	0.0000	8.398E-03	0.0002
Sb-125	3.783E-07	0.0000	3.500E-13	0.0000	0.000E+00	0.0000	2.289E-10	0.0000	1.163E-10	0.0000	1.359E-11	0.0000	2.825E-11	0.0000
Sr-90	2.900E-03	0.0001	2.426E-05	0.0000	0.000E+00	0.0000	1.385E-01	0.0036	6.330E-02	0.0016	3.041E-02	0.0008	8.691E-04	0.0000
Zn-65	2.286E-08	0.0000	2.169E-14	0.0000	0.000E+00	0.0000	1.526E-09	0.0000	3.794E-08	0.0000	3.949E-09	0.0000	4.697E-12	0.0000
===== Total	3.747E+01	0.9703	3.643E-02	0.0009	0.000E+00	0.0000	3.677E-01	0.0095	4.260E-01	0.0110	1.610E-01	0.0042	9.815E-02	0.0025

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
 As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	1.451E-04	0.0000	5.943E-06	0.0000	0.000E+00	0.0000	7.896E-06	0.0000	1.775E-06	0.0000	1.678E-04	0.0000	3.286E-04	0.0000
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.927E-02	0.0005
C-14	4.740E-05	0.0000	1.968E-02	0.0005	0.000E+00	0.0000	5.196E-05	0.0000	3.609E-06	0.0000	2.146E-05	0.0000	1.980E-02	0.0005
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.034E-02	0.0003
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.332E-03	0.0001
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.546E-02	0.0012
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.246E-02	0.0006
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.920E-03	0.0002
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.372E+01	0.8733
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.695E-01	0.0225
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.042E+00	0.0788
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.840E-03	0.0001
H-3	1.358E-02	0.0004	1.128E-04	0.0000	0.000E+00	0.0000	3.898E-04	0.0000	2.812E-04	0.0000	2.344E-03	0.0001	1.670E-02	0.0004
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.551E-01	0.0118
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.551E-03	0.0001
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.684E-03	0.0002
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.707E-02	0.0012
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.705E-02	0.0012
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.745E-02	0.0005
Sb-125	7.599E-03	0.0002	6.275E-03	0.0002	0.000E+00	0.0000	4.122E-04	0.0000	3.197E-05	0.0000	3.538E-05	0.0000	1.435E-02	0.0004
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.360E-01	0.0061
Zn-65	6.606E-04	0.0000	5.408E-03	0.0001	0.000E+00	0.0000	3.685E-05	0.0000	2.693E-04	0.0000	3.056E-04	0.0000	6.680E-03	0.0002
===== Total	2.203E-02	0.0006	3.148E-02	0.0008	0.000E+00	0.0000	8.988E-04	0.0000	5.878E-04	0.0000	2.874E-03	0.0001	3.861E+01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	6.106E-19	0.0000	4.807E-25	0.0000	0.000E+00	0.0000	2.417E-21	0.0000	1.882E-21	0.0000	1.650E-20	0.0000	1.983E-23	0.0000
Am-241	1.770E-03	0.0001	2.614E-03	0.0001	0.000E+00	0.0000	3.534E-03	0.0001	3.901E-04	0.0000	3.576E-05	0.0000	6.575E-03	0.0002
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	6.994E-03	0.0002	5.618E-04	0.0000	0.000E+00	0.0000	7.541E-04	0.0000	3.323E-05	0.0000	7.658E-06	0.0000	1.409E-03	0.0000
Cm-244	1.512E-06	0.0000	4.324E-04	0.0000	0.000E+00	0.0000	5.783E-04	0.0000	2.554E-05	0.0000	5.871E-06	0.0000	1.081E-03	0.0000
Cm-245	2.263E-02	0.0008	4.525E-03	0.0002	0.000E+00	0.0000	6.108E-03	0.0002	2.721E-04	0.0000	6.194E-05	0.0000	1.141E-02	0.0004
Cm-246	7.916E-06	0.0000	4.470E-03	0.0002	0.000E+00	0.0000	6.022E-03	0.0002	2.652E-04	0.0000	6.115E-05	0.0000	1.125E-02	0.0004
Co-57	1.198E-03	0.0000	3.242E-09	0.0000	0.000E+00	0.0000	5.486E-06	0.0000	8.392E-06	0.0000	1.704E-06	0.0000	1.294E-07	0.0000
Co-60	2.540E+01	0.8533	5.977E-05	0.0000	0.000E+00	0.0000	9.548E-02	0.0032	1.460E-01	0.0049	2.966E-02	0.0010	2.252E-03	0.0001
Cs-134	4.193E-01	0.0141	3.385E-07	0.0000	0.000E+00	0.0000	3.485E-03	0.0001	1.084E-02	0.0004	6.084E-03	0.0002	1.644E-04	0.0000
Cs-137	2.634E+00	0.0885	4.045E-06	0.0000	0.000E+00	0.0000	4.123E-02	0.0014	1.282E-01	0.0043	7.199E-02	0.0024	1.945E-03	0.0001
Fe-55	0.000E+00	0.0000	9.295E-07	0.0000	0.000E+00	0.0000	3.444E-05	0.0000	1.517E-03	0.0001	5.246E-05	0.0000	6.435E-05	0.0000
H-3	0.000E+00	0.0000	3.225E-25	0.0000	0.000E+00	0.0000	7.902E-25	0.0000	2.378E-24	0.0000	1.369E-24	0.0000	2.059E-28	0.0000
Mn-54	8.711E-02	0.0029	1.894E-08	0.0000	0.000E+00	0.0000	3.820E-04	0.0000	1.082E-05	0.0000	1.252E-05	0.0000	2.402E-06	0.0000
Ni-63	0.000E+00	0.0000	6.172E-07	0.0000	0.000E+00	0.0000	4.602E-04	0.0000	2.135E-04	0.0000	1.777E-03	0.0001	1.737E-05	0.0000
Pu-238	3.321E-06	0.0000	1.257E-03	0.0000	0.000E+00	0.0000	1.685E-03	0.0001	3.711E-04	0.0000	8.562E-06	0.0000	3.149E-03	0.0001
Pu-239	4.047E-05	0.0000	8.915E-03	0.0003	0.000E+00	0.0000	1.208E-02	0.0004	2.659E-03	0.0001	6.134E-05	0.0000	2.257E-02	0.0008
Pu-240	2.097E-05	0.0000	8.913E-03	0.0003	0.000E+00	0.0000	1.208E-02	0.0004	2.659E-03	0.0001	6.132E-05	0.0000	2.256E-02	0.0008
Pu-241	5.143E-04	0.0000	3.330E-03	0.0001	0.000E+00	0.0000	4.531E-03	0.0002	8.957E-04	0.0000	2.778E-05	0.0000	8.460E-03	0.0003
Sb-125	3.447E-17	0.0000	3.157E-23	0.0000	0.000E+00	0.0000	2.065E-20	0.0000	1.049E-20	0.0000	1.226E-21	0.0000	2.548E-21	0.0000
Sr-90	2.347E-03	0.0001	1.942E-05	0.0000	0.000E+00	0.0000	1.109E-01	0.0037	5.068E-02	0.0017	2.435E-02	0.0008	6.958E-04	0.0000
Zn-65	4.306E-19	0.0000	4.048E-25	0.0000	0.000E+00	0.0000	2.849E-20	0.0000	7.081E-19	0.0000	7.371E-20	0.0000	8.766E-23	0.0000
===== Total	2.858E+01	0.9600	3.511E-02	0.0012	0.000E+00	0.0000	2.994E-01	0.0101	3.451E-01	0.0116	1.343E-01	0.0045	9.361E-02	0.0031

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	2.033E-04	0.0000	9.507E-06	0.0000	0.000E+00	0.0000	1.387E-05	0.0000	1.142E-05	0.0000	3.303E-04	0.0000	5.683E-04	0.0000
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.492E-02	0.0005
C-14	2.337E-04	0.0000	1.093E-01	0.0037	0.000E+00	0.0000	3.395E-04	0.0000	1.226E-04	0.0000	1.520E-04	0.0000	1.102E-01	0.0037
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.760E-03	0.0003
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.124E-03	0.0001
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.501E-02	0.0015
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.208E-02	0.0007
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.214E-03	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.568E+01	0.8625
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.399E-01	0.0148
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.878E+00	0.0967
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.669E-03	0.0001
H-3	7.183E-02	0.0024	6.721E-04	0.0000	0.000E+00	0.0000	2.688E-03	0.0001	2.751E-03	0.0001	1.313E-02	0.0004	9.106E-02	0.0031
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.752E-02	0.0029
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.469E-03	0.0001
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.475E-03	0.0002
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.632E-02	0.0016
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.629E-02	0.0016
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.776E-02	0.0006
Sb-125	3.450E-02	0.0012	3.227E-02	0.0011	0.000E+00	0.0000	2.318E-03	0.0001	6.446E-04	0.0000	2.240E-04	0.0000	6.996E-02	0.0023
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.890E-01	0.0063
Zn-65	8.909E-04	0.0000	8.334E-03	0.0003	0.000E+00	0.0000	6.249E-05	0.0000	1.674E-03	0.0001	5.801E-04	0.0000	1.154E-02	0.0004
===== Total	1.077E-01	0.0036	1.506E-01	0.0051	0.000E+00	0.0000	5.422E-03	0.0002	5.203E-03	0.0002	1.441E-02	0.0005	2.977E+01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

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

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	7.528E-04	0.0001	1.059E-03	0.0001	0.000E+00	0.0000	1.432E-03	0.0001	1.581E-04	0.0000	1.449E-05	0.0000	2.664E-03	0.0002
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	5.782E-03	0.0005	4.458E-04	0.0000	0.000E+00	0.0000	5.984E-04	0.0000	2.640E-05	0.0000	6.076E-06	0.0000	1.118E-03	0.0001
Cm-244	1.144E-06	0.0000	3.116E-04	0.0000	0.000E+00	0.0000	4.168E-04	0.0000	1.853E-05	0.0000	4.228E-06	0.0000	7.788E-04	0.0001
Cm-245	2.223E-02	0.0018	4.281E-03	0.0003	0.000E+00	0.0000	5.778E-03	0.0005	2.627E-04	0.0000	5.847E-05	0.0000	1.080E-02	0.0009
Cm-246	7.811E-06	0.0000	4.200E-03	0.0003	0.000E+00	0.0000	5.658E-03	0.0005	2.492E-04	0.0000	5.746E-05	0.0000	1.057E-02	0.0008
Co-57	1.690E-06	0.0000	4.377E-12	0.0000	0.000E+00	0.0000	7.406E-09	0.0000	1.133E-08	0.0000	2.300E-09	0.0000	1.747E-10	0.0000
Co-60	9.779E+00	0.7782	2.229E-05	0.0000	0.000E+00	0.0000	3.560E-02	0.0028	5.446E-02	0.0043	1.106E-02	0.0009	8.398E-04	0.0001
Cs-134	3.864E-02	0.0031	3.012E-08	0.0000	0.000E+00	0.0000	3.102E-04	0.0000	9.645E-04	0.0001	5.415E-04	0.0000	1.463E-05	0.0000
Cs-137	2.173E+00	0.1729	3.221E-06	0.0000	0.000E+00	0.0000	3.284E-02	0.0026	1.021E-01	0.0081	5.733E-02	0.0046	1.549E-03	0.0001
Fe-55	0.000E+00	0.0000	1.443E-07	0.0000	0.000E+00	0.0000	5.345E-06	0.0000	2.354E-04	0.0000	8.142E-06	0.0000	9.987E-06	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	2.715E-04	0.0000	5.706E-11	0.0000	0.000E+00	0.0000	1.151E-06	0.0000	3.258E-08	0.0000	3.771E-08	0.0000	7.237E-09	0.0000
Ni-63	0.000E+00	0.0000	5.493E-07	0.0000	0.000E+00	0.0000	4.096E-04	0.0000	1.900E-04	0.0000	1.582E-03	0.0001	1.546E-05	0.0000
Pu-238	3.113E-06	0.0000	1.123E-03	0.0001	0.000E+00	0.0000	1.506E-03	0.0001	3.315E-04	0.0000	7.655E-06	0.0000	2.813E-03	0.0002
Pu-239	3.986E-05	0.0000	8.416E-03	0.0007	0.000E+00	0.0000	1.140E-02	0.0009	2.510E-03	0.0002	5.790E-05	0.0000	2.130E-02	0.0017
Pu-240	2.077E-05	0.0000	8.409E-03	0.0007	0.000E+00	0.0000	1.139E-02	0.0009	2.508E-03	0.0002	5.785E-05	0.0000	2.129E-02	0.0017
Pu-241	8.266E-04	0.0001	2.896E-03	0.0002	0.000E+00	0.0000	3.935E-03	0.0003	7.009E-04	0.0001	2.763E-05	0.0000	7.340E-03	0.0006
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	1.120E-03	0.0001	8.903E-06	0.0000	0.000E+00	0.0000	5.085E-02	0.0040	2.324E-02	0.0018	1.116E-02	0.0009	3.190E-04	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	1.202E+01	0.9567	3.118E-02	0.0025	0.000E+00	0.0000	1.621E-01	0.0129	1.880E-01	0.0150	8.198E-02	0.0065	8.142E-02	0.0065

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
 As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	7.187E-31	0.0000	4.137E-32	0.0000	0.000E+00	0.0000	6.905E-32	0.0000	2.352E-31	0.0000	2.607E-30	0.0000	3.671E-30	0.0000
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.080E-03	0.0005
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.977E-03	0.0006
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.531E-03	0.0001
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.341E-02	0.0035
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.074E-02	0.0017
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.711E-06	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.881E+00	0.7863
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.047E-02	0.0032
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.367E+00	0.1884
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.590E-04	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.727E-04	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.197E-03	0.0002
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.784E-03	0.0005
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.373E-02	0.0035
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.367E-02	0.0035
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.573E-02	0.0013
Sb-125	1.923E-26	0.0000	2.207E-26	0.0000	0.000E+00	0.0000	1.814E-27	0.0000	2.094E-27	0.0000	2.785E-28	0.0000	4.548E-26	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.670E-02	0.0069
Zn-65	2.669E-30	0.0000	3.073E-29	0.0000	0.000E+00	0.0000	2.641E-31	0.0000	2.924E-29	0.0000	3.886E-30	0.0000	6.679E-29	0.0000
===== Total	1.923E-26	0.0000	2.210E-26	0.0000	0.000E+00	0.0000	1.814E-27	0.0000	2.124E-27	0.0000	2.849E-28	0.0000	1.257E+01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

As mrem/yr and Fraction of Total Dose At t = 3.000E+01 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	6.550E-05	0.0000	7.895E-05	0.0000	0.000E+00	0.0000	1.069E-04	0.0001	1.181E-05	0.0000	1.080E-06	0.0000	1.986E-04	0.0001
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	3.332E-03	0.0016	2.269E-04	0.0001	0.000E+00	0.0000	3.047E-04	0.0001	1.352E-05	0.0000	3.091E-06	0.0000	5.692E-04	0.0003
Cm-244	5.164E-07	0.0000	1.209E-04	0.0001	0.000E+00	0.0000	1.616E-04	0.0001	7.424E-06	0.0000	1.633E-06	0.0000	3.020E-04	0.0001
Cm-245	2.103E-02	0.0098	3.579E-03	0.0017	0.000E+00	0.0000	4.831E-03	0.0023	2.272E-04	0.0001	4.872E-05	0.0000	9.025E-03	0.0042
Cm-246	7.518E-06	0.0000	3.463E-03	0.0016	0.000E+00	0.0000	4.665E-03	0.0022	2.055E-04	0.0001	4.737E-05	0.0000	8.716E-03	0.0041
Co-57	1.203E-14	0.0000	2.726E-20	0.0000	0.000E+00	0.0000	4.613E-17	0.0000	7.057E-17	0.0000	1.433E-17	0.0000	1.088E-18	0.0000
Co-60	6.324E-01	0.2962	1.311E-06	0.0000	0.000E+00	0.0000	2.094E-03	0.0010	3.203E-03	0.0015	6.504E-04	0.0003	4.938E-05	0.0000
Cs-134	4.210E-05	0.0000	2.957E-11	0.0000	0.000E+00	0.0000	3.044E-07	0.0000	9.468E-07	0.0000	5.315E-07	0.0000	1.436E-08	0.0000
Cs-137	1.241E+00	0.5814	1.656E-06	0.0000	0.000E+00	0.0000	1.688E-02	0.0079	5.249E-02	0.0246	2.947E-02	0.0138	7.961E-04	0.0004
Fe-55	0.000E+00	0.0000	6.934E-10	0.0000	0.000E+00	0.0000	2.569E-08	0.0000	1.131E-06	0.0000	3.913E-08	0.0000	4.800E-08	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	1.856E-11	0.0000	3.522E-18	0.0000	0.000E+00	0.0000	7.104E-14	0.0000	2.012E-15	0.0000	2.328E-15	0.0000	4.467E-16	0.0000
Ni-63	0.000E+00	0.0000	3.879E-07	0.0000	0.000E+00	0.0000	2.893E-04	0.0001	1.342E-04	0.0001	1.117E-03	0.0005	1.092E-05	0.0000
Pu-238	2.584E-06	0.0000	8.019E-04	0.0004	0.000E+00	0.0000	1.075E-03	0.0005	2.367E-04	0.0001	5.472E-06	0.0000	2.008E-03	0.0009
Pu-239	3.791E-05	0.0000	7.032E-03	0.0033	0.000E+00	0.0000	9.527E-03	0.0045	2.098E-03	0.0010	4.838E-05	0.0000	1.780E-02	0.0083
Pu-240	2.017E-05	0.0000	7.015E-03	0.0033	0.000E+00	0.0000	9.504E-03	0.0045	2.093E-03	0.0010	4.826E-05	0.0000	1.776E-02	0.0083
Pu-241	5.061E-04	0.0002	1.164E-03	0.0005	0.000E+00	0.0000	1.581E-03	0.0007	2.596E-04	0.0001	1.210E-05	0.0000	2.947E-03	0.0014
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	1.340E-04	0.0001	9.451E-07	0.0000	0.000E+00	0.0000	5.398E-03	0.0025	2.467E-03	0.0012	1.185E-03	0.0006	3.386E-05	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	1.899E+00	0.8894	2.349E-02	0.0110	0.000E+00	0.0000	5.642E-02	0.0264	6.345E-02	0.0297	3.264E-02	0.0153	6.022E-02	0.0282

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.628E-04	0.0002
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.450E-03	0.0021
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.941E-04	0.0003
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.874E-02	0.0181
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.710E-02	0.0080
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.216E-14	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.384E-01	0.2990
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.390E-05	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.341E+00	0.6280
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.245E-06	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.864E-11	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.552E-03	0.0007
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.130E-03	0.0019
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.654E-02	0.0171
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.644E-02	0.0171
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.470E-03	0.0030
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.219E-03	0.0043
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.135E+00	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

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

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	5.944E-08	0.0000	8.186E-09	0.0000	0.000E+00	0.0000	5.758E-08	0.0000	8.696E-09	0.0000	1.713E-10	0.0000	2.060E-08	0.0000
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	3.862E-04	0.0019	1.538E-05	0.0001	0.000E+00	0.0000	2.066E-05	0.0001	9.751E-07	0.0000	2.079E-07	0.0000	3.859E-05	0.0002
Cm-244	3.557E-08	0.0000	3.686E-06	0.0000	0.000E+00	0.0000	4.943E-06	0.0000	3.807E-07	0.0000	4.549E-08	0.0000	9.232E-06	0.0000
Cm-245	1.414E-02	0.0712	1.314E-03	0.0066	0.000E+00	0.0000	1.774E-03	0.0089	8.522E-05	0.0004	1.785E-05	0.0001	3.313E-03	0.0167
Cm-246	6.557E-06	0.0000	1.255E-03	0.0063	0.000E+00	0.0000	1.691E-03	0.0085	7.454E-05	0.0004	1.716E-05	0.0001	3.158E-03	0.0159
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	3.353E-05	0.0002	4.602E-11	0.0000	0.000E+00	0.0000	7.356E-08	0.0000	1.127E-07	0.0000	2.286E-08	0.0000	1.734E-09	0.0000
Cs-134	1.391E-15	0.0000	6.236E-22	0.0000	0.000E+00	0.0000	6.424E-18	0.0000	2.000E-17	0.0000	1.122E-17	0.0000	3.029E-19	0.0000
Cs-137	1.354E-01	0.6815	1.148E-07	0.0000	0.000E+00	0.0000	1.170E-03	0.0059	3.643E-03	0.0183	2.044E-03	0.0103	5.518E-05	0.0003
Fe-55	0.000E+00	0.0000	3.800E-18	0.0000	0.000E+00	0.0000	1.409E-16	0.0000	6.205E-15	0.0000	2.145E-16	0.0000	2.631E-16	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ni-63	0.000E+00	0.0000	8.174E-08	0.0000	0.000E+00	0.0000	6.098E-05	0.0003	2.832E-05	0.0001	2.356E-04	0.0012	2.300E-06	0.0000
Pu-238	1.282E-06	0.0000	1.755E-04	0.0009	0.000E+00	0.0000	2.353E-04	0.0012	5.182E-05	0.0003	1.199E-06	0.0000	4.394E-04	0.0022
Pu-239	2.642E-05	0.0001	2.669E-03	0.0134	0.000E+00	0.0000	3.618E-03	0.0182	7.969E-04	0.0040	1.837E-05	0.0001	6.757E-03	0.0340
Pu-240	1.740E-05	0.0001	2.649E-03	0.0133	0.000E+00	0.0000	3.590E-03	0.0181	7.907E-04	0.0040	1.822E-05	0.0001	6.705E-03	0.0338
Pu-241	1.650E-05	0.0001	1.620E-05	0.0001	0.000E+00	0.0000	2.206E-05	0.0001	3.555E-06	0.0000	1.716E-07	0.0000	4.097E-05	0.0002
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	6.299E-08	0.0000	2.622E-10	0.0000	0.000E+00	0.0000	1.498E-06	0.0000	6.858E-07	0.0000	3.292E-07	0.0000	9.395E-09	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	1.500E-01	0.7552	8.097E-03	0.0408	0.000E+00	0.0000	1.219E-02	0.0614	5.476E-03	0.0276	2.353E-03	0.0118	2.052E-02	0.1033

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.547E-07	0.0000
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.620E-04	0.0023
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.832E-05	0.0001
Cm-245	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.065E-02	0.1039
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.202E-03	0.0312
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.374E-05	0.0002
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.429E-15	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.423E-01	0.7163
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.827E-15	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.272E-04	0.0016
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.044E-04	0.0046
Pu-239	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.389E-02	0.0699
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.377E-02	0.0693
Pu-241	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.946E-05	0.0005
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.586E-06	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.987E-01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	1.901E-01	0.3164	5.336E-02	0.0888	0.000E+00	0.0000	1.277E-02	0.0212	1.778E-04	0.0003	2.470E-05	0.0000	2.565E-01	0.4268
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	4.511E-07	0.0000	1.266E-07	0.0000	0.000E+00	0.0000	3.029E-08	0.0000	4.218E-10	0.0000	5.859E-11	0.0000	6.085E-07	0.0000
Cm-244	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-245	2.072E-02	0.0345	5.814E-03	0.0097	0.000E+00	0.0000	1.391E-03	0.0023	1.936E-05	0.0000	2.690E-06	0.0000	2.795E-02	0.0465
Cm-246	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-239	9.520E-12	0.0000	1.334E-12	0.0000	0.000E+00	0.0000	6.383E-13	0.0000	3.527E-15	0.0000	1.232E-14	0.0000	1.151E-11	0.0000
Pu-240	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-241	2.346E-01	0.3904	6.584E-02	0.1096	0.000E+00	0.0000	1.575E-02	0.0262	2.194E-04	0.0004	3.047E-05	0.0001	3.164E-01	0.5266
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	1.514E-05	0.0000	8.496E-06	0.0000	0.000E+00	0.0000	1.095E-06	0.0000	2.278E-06	0.0000	1.972E-06	0.0000	2.898E-05	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	4.455E-01	0.7414	1.250E-01	0.2081	0.000E+00	0.0000	2.991E-02	0.0498	4.188E-04	0.0007	5.983E-05	0.0001	6.009E-01	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-110m	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Am-241	1.847E-06	0.0001	5.180E-07	0.0000	0.000E+00	0.0000	1.247E-07	0.0000	3.453E-08	0.0000	6.945E-10	0.0000	2.525E-06	0.0002
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cm-243	3.635E-11	0.0000	1.008E-11	0.0000	0.000E+00	0.0000	2.441E-12	0.0000	7.963E-14	0.0000	1.034E-14	0.0000	4.896E-11	0.0000
Cm-244	1.431E-11	0.0000	1.338E-12	0.0000	0.000E+00	0.0000	9.610E-13	0.0000	9.095E-14	0.0000	5.574E-13	0.0000	1.725E-11	0.0000
Cm-245	1.125E-02	0.7411	3.157E-03	0.2080	0.000E+00	0.0000	7.553E-04	0.0498	1.052E-05	0.0007	1.461E-06	0.0001	1.517E-02	0.9996
Cm-246	5.602E-14	0.0000	5.401E-15	0.0000	0.000E+00	0.0000	3.763E-15	0.0000	3.567E-16	0.0000	2.182E-15	0.0000	6.773E-14	0.0000
Co-57	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Mn-54	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-238	5.061E-07	0.0000	6.298E-08	0.0000	0.000E+00	0.0000	3.400E-08	0.0000	3.285E-09	0.0000	1.965E-08	0.0000	6.261E-07	0.0000
Pu-239	8.586E-09	0.0000	1.037E-09	0.0000	0.000E+00	0.0000	5.768E-10	0.0000	1.541E-10	0.0000	8.853E-11	0.0000	1.044E-08	0.0000
Pu-240	6.266E-08	0.0000	5.861E-09	0.0000	0.000E+00	0.0000	4.209E-09	0.0000	3.983E-10	0.0000	2.441E-09	0.0000	7.557E-08	0.0000
Pu-241	2.207E-06	0.0001	6.188E-07	0.0000	0.000E+00	0.0000	1.489E-07	0.0000	4.125E-08	0.0000	8.286E-10	0.0000	3.017E-06	0.0002
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
===== Total	1.125E-02	0.7414	3.158E-03	0.2080	0.000E+00	0.0000	7.556E-04	0.0498	1.060E-05	0.0007	1.485E-06	0.0001	1.518E-02	1.0000

0*Sum of all water independent and dependent pathways.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

		Dose/Source Ratios Summed Over All Pathways									
		Parent and Progeny Principal Radionuclide Contributions Indicated									
OParent	Product	Branch	DSR(j,t) (mrem/yr) / (pCi/g)								
(i)	(j)	Fraction*	t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	
Ag-110m	Ag-110m	1.000E+00	7.403E-01	3.459E-02	5.982E-02	3.864E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0Am-241	Am-241	1.000E+00	2.116E-01	1.862E-01	1.441E-01	5.874E-02	4.468E-03	4.220E-07	2.478E+00	0.000E+00	
	Am-241	Np-237	1.000E+00	3.374E-07	9.797E-07	2.019E-06	3.897E-06	4.002E-06	1.073E-06	1.114E-05	2.437E-05
	Am-241	U-233	1.000E+00	1.294E-14	7.796E-14	3.454E-13	1.935E-12	5.123E-12	1.950E-12	1.536E-09	2.851E-08
	Am-241	Th-229	1.000E+00	6.968E-18	9.889E-17	1.049E-15	2.028E-14	2.214E-13	8.085E-13	1.243E-13	2.048E-11
	Am-241	äDSR(j)	2.116E-01	1.862E-01	1.441E-01	5.874E-02	4.472E-03	1.494E-06	2.478E+00	2.440E-05	
0C-14	C-14	1.000E+00	4.088E-01	3.960E+00	2.203E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0Cm-243	Cm-243	9.976E-01	4.614E-01	4.483E-01	4.233E-01	3.459E-01	1.929E-01	1.998E-02	0.000E+00	0.000E+00	
	Cm-243	Pu-239	9.976E-01	2.807E-06	8.293E-06	1.861E-05	4.847E-05	9.375E-05	6.154E-05	0.000E+00	0.000E+00
	Cm-243	U-235	9.976E-01	2.207E-15	1.512E-14	7.597E-14	5.664E-13	2.881E-12	5.637E-12	0.000E+00	9.979E-12
	Cm-243	Pa-231	9.976E-01	8.401E-20	1.333E-18	1.513E-17	3.171E-16	3.730E-15	9.386E-15	0.000E+00	6.890E-12
	Cm-243	Ac-227	9.976E-01	5.378E-22	1.418E-20	2.961E-19	1.481E-17	3.590E-16	1.697E-15	2.001E-14	2.270E-11
	Cm-243	äDSR(j)	4.614E-01	4.483E-01	4.233E-01	3.460E-01	1.930E-01	2.004E-02	2.001E-14	3.957E-11	
0Cm-243	Cm-243	2.400E-03	1.110E-03	1.079E-03	1.018E-03	8.323E-04	4.641E-04	4.806E-05	0.000E+00	0.000E+00	
	Cm-243	Am-243	2.400E-03	7.688E-08	2.159E-07	4.356E-07	7.976E-07	6.708E-07	7.601E-08	2.646E-05	9.824E-12
	Cm-243	Pu-239	2.400E-03	2.056E-13	1.376E-12	6.550E-12	4.084E-11	1.386E-10	1.138E-10	7.029E-10	2.079E-09
	Cm-243	U-235	2.400E-03	1.221E-22	1.758E-21	1.866E-20	3.547E-19	3.615E-18	1.017E-17	1.522E-16	4.323E-15
	Cm-243	Pa-231	2.400E-03	3.596E-27	1.180E-25	2.831E-24	1.571E-22	4.014E-21	1.634E-20	8.010E-18	1.515E-15
	Cm-243	Ac-227	2.400E-03	2.065E-29	1.090E-27	4.691E-26	6.310E-24	3.546E-22	2.911E-21	2.638E-17	4.383E-15
	Cm-243	äDSR(j)	1.110E-03	1.079E-03	1.019E-03	8.331E-04	4.647E-04	4.814E-05	2.646E-05	2.089E-09	
0Cm-244	Cm-244	1.000E+00	1.062E-01	1.014E-01	9.229E-02	6.640E-02	2.554E-02	6.424E-04	0.000E+00	0.000E+00	
	Cm-244	Pu-240	1.000E+00	1.031E-05	3.026E-05	6.700E-05	1.668E-04	2.887E-04	1.542E-04	0.000E+00	0.000E+00
	Cm-244	U-236	1.000E+00	2.173E-14	1.496E-13	7.417E-13	5.175E-12	2.153E-11	2.025E-11	0.000E+00	7.502E-10
	Cm-244	Th-232	1.000E+00	1.791E-24	2.561E-23	2.791E-22	6.015E-21	8.346E-20	3.869E-19	0.000E+00	1.756E-19
	Cm-244	Ra-228	1.000E+00	6.058E-25	1.839E-23	4.263E-22	2.392E-20	7.079E-19	6.726E-18	0.000E+00	6.254E-17
	Cm-244	Th-228	1.000E+00	4.495E-26	2.575E-24	1.139E-22	1.398E-20	6.780E-19	8.283E-18	0.000E+00	1.689E-19
	Cm-244	äDSR(j)	1.062E-01	1.014E-01	9.236E-02	6.657E-02	2.583E-02	7.966E-04	0.000E+00	7.502E-10	
0Cm-245	Cm-245	1.000E+00	3.989E-01	3.968E-01	3.924E-01	3.772E-01	3.346E-01	1.783E-01	0.000E+00	0.000E+00	
	Cm-245	Pu-241	1.000E+00	9.035E-05	2.641E-04	5.793E-04	1.398E-03	2.250E-03	1.064E-03	0.000E+00	0.000E+00
	Cm-245	Am-241	1.000E+00	2.777E-06	1.838E-05	8.604E-05	5.074E-04	1.485E-03	9.944E-04	2.441E-01	1.325E-01
	Cm-245	Np-237	1.000E+00	2.067E-12	3.131E-11	3.411E-10	6.575E-09	6.772E-08	1.893E-07	5.389E-07	4.867E-06
	Cm-245	U-233	1.000E+00	5.436E-20	1.445E-18	3.058E-17	1.593E-15	4.229E-14	2.250E-13	4.670E-11	4.160E-09
	Cm-245	Th-229	1.000E+00	1.829E-23	1.085E-21	5.313E-20	9.192E-18	8.943E-16	3.348E-14	5.110E-11	5.973E-11
	Cm-245	äDSR(j)	3.990E-01	3.970E-01	3.931E-01	3.791E-01	3.383E-01	1.803E-01	2.441E-01	1.325E-01	
0Cm-245	Cm-245	2.450E-05	9.774E-06	9.721E-06	9.614E-06	9.242E-06	8.197E-06	4.367E-06	0.000E+00	0.000E+00	
	Cm-245	Pu-241	2.450E-05	2.214E-09	6.471E-09	1.419E-08	3.425E-08	5.512E-08	2.608E-08	0.000E+00	0.000E+00
	Cm-245	Np-237	2.450E-05	1.323E-13	9.456E-13	4.852E-12	3.686E-11	1.927E-10	3.785E-10	0.000E+00	0.000E+00
	Cm-245	U-233	2.450E-05	4.080E-21	5.368E-20	5.505E-19	1.111E-17	1.387E-16	4.650E-16	0.000E+00	1.131E-13
	Cm-245	Th-229	2.450E-05	1.687E-24	5.020E-23	1.197E-21	7.875E-20	3.472E-18	7.653E-17	0.000E+00	4.006E-17
	Cm-245	äDSR(j)	9.777E-06	9.727E-06	9.628E-06	9.276E-06	8.253E-06	4.394E-06	0.000E+00	1.131E-13	

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

		Dose/Source Ratios Summed Over All Pathways									
		Parent and Progeny Principal Radionuclide Contributions Indicated									
OParent	Product	Branch	DSR(j,t) (mrem/yr) / (pCi/g)								
(i)	(j)	Fraction*	t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Cm-246	Cm-246	1.000E+00		1.979E-01	1.962E-01	1.928E-01	1.812E-01	1.494E-01	5.416E-02	0.000E+00	0.000E+00
Cm-246	Pu-242	9.997E-01		1.724E-07	5.146E-07	1.182E-06	3.343E-06	8.064E-06	9.874E-06	0.000E+00	0.000E+00
Cm-246	U-238	9.997E-01		5.401E-18	3.735E-17	1.902E-16	1.481E-15	8.530E-15	2.507E-14	0.000E+00	5.882E-13
Cm-246	U-234	9.997E-01		1.519E-24	2.222E-23	2.442E-22	5.212E-21	6.933E-20	2.861E-19	0.000E+00	1.145E-15
Cm-246	Th-230	9.997E-01		3.460E-30	1.018E-28	2.399E-27	1.547E-25	6.519E-24	1.136E-22	0.000E+00	8.585E-19
Cm-246	Ra-226	9.997E-01		2.831E-32	1.771E-30	9.105E-29	1.764E-26	2.217E-24	1.441E-22	0.000E+00	2.229E-16
Cm-246	Pb-210	9.997E-01		4.480E-35	4.899E-33	4.661E-31	2.281E-28	6.731E-26	7.161E-24	0.000E+00	1.951E-15
Cm-246	äDSR(j)			1.979E-01	1.962E-01	1.928E-01	1.812E-01	1.494E-01	5.417E-02	0.000E+00	5.915E-13
0Co-57	Co-57	1.000E+00		1.927E-01	7.543E-02	1.156E-02	1.630E-05	1.158E-13	2.859E-42	0.000E+00	0.000E+00
0Co-60	Co-60	1.000E+00		7.729E+00	6.744E+00	5.135E+00	1.976E+00	1.277E-01	6.748E-06	0.000E+00	0.000E+00
0Cs-134	Cs-134	1.000E+00		4.477E+00	3.185E+00	1.611E+00	1.483E-01	1.608E-04	5.233E-15	0.000E+00	0.000E+00
0Cs-137	Cs-137	1.000E+00		1.966E+00	1.912E+00	1.809E+00	1.488E+00	8.428E-01	8.944E-02	0.000E+00	0.000E+00
0Fe-55	Fe-55	1.000E+00		3.784E-04	2.901E-04	1.704E-04	2.645E-05	1.271E-07	6.972E-16	0.000E+00	0.000E+00
0H-3	H-3	1.000E+00		6.551E-04	5.383E-04	2.935E-03	2.748E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Mn-54	Mn-54	1.000E+00		1.851E+00	8.119E-01	1.561E-01	4.866E-04	3.325E-11	2.155E-36	0.000E+00	0.000E+00
0Ni-63	Ni-63	1.000E+00		2.227E-03	2.191E-03	2.120E-03	1.887E-03	1.333E-03	2.810E-04	0.000E+00	0.000E+00
0Pu-238	Pu-238	1.000E+00		1.787E-01	1.759E-01	1.704E-01	1.522E-01	1.087E-01	2.380E-02	0.000E+00	0.000E+00
Pu-238	U-234	1.000E+00		6.303E-08	1.851E-07	4.044E-07	9.526E-07	1.406E-06	4.346E-07	0.000E+00	1.584E-05
Pu-238	Th-230	1.000E+00		2.370E-13	1.592E-12	7.932E-12	5.917E-11	3.038E-10	5.401E-10	0.000E+00	1.750E-10
Pu-238	Ra-226	1.000E+00		3.003E-15	4.458E-14	4.980E-13	1.109E-11	1.641E-10	9.665E-10	0.000E+00	6.587E-08
Pu-238	Pb-210	1.000E+00		6.226E-18	1.668E-16	3.610E-15	2.074E-13	7.052E-12	6.176E-11	0.000E+00	5.707E-07
Pu-238	äDSR(j)			1.787E-01	1.759E-01	1.704E-01	1.522E-01	1.087E-01	2.380E-02	0.000E+00	1.648E-05
0Pu-239	Pu-239	1.000E+00		1.981E-01	1.965E-01	1.934E-01	1.826E-01	1.526E-01	5.798E-02	0.000E+00	0.000E+00
Pu-239	U-235	1.000E+00		2.312E-10	6.784E-10	1.505E-09	3.788E-09	6.940E-09	5.779E-09	0.000E+00	1.054E-08
Pu-239	Pa-231	1.000E+00		1.220E-14	8.870E-14	4.486E-13	3.116E-12	1.245E-11	1.087E-11	0.000E+00	7.767E-09
Pu-239	Ac-227	1.000E+00		8.991E-17	1.148E-15	1.107E-14	1.818E-13	1.404E-12	2.057E-12	4.805E-11	2.530E-08
Pu-239	äDSR(j)			1.981E-01	1.965E-01	1.934E-01	1.826E-01	1.526E-01	5.798E-02	4.805E-11	4.360E-08
0Pu-240	Pu-240	1.000E+00		1.980E-01	1.964E-01	1.933E-01	1.824E-01	1.521E-01	5.750E-02	0.000E+00	0.000E+00
Pu-240	U-236	1.000E+00		6.251E-10	1.842E-09	4.057E-09	9.847E-09	1.606E-08	7.915E-09	0.000E+00	3.155E-07
Pu-240	Th-232	1.000E+00		6.727E-20	4.527E-19	2.267E-18	1.722E-17	9.349E-17	2.041E-16	0.000E+00	8.147E-17
Pu-240	Ra-228	1.000E+00		2.881E-20	4.214E-19	4.493E-18	8.499E-17	8.999E-16	3.646E-15	0.000E+00	2.907E-14
Pu-240	Th-228	1.000E+00		2.519E-21	7.044E-20	1.439E-18	5.720E-17	9.244E-16	4.548E-15	0.000E+00	7.848E-17
Pu-240	äDSR(j)			1.980E-01	1.964E-01	1.933E-01	1.824E-01	1.521E-01	5.750E-02	0.000E+00	3.155E-07

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Dose/Source Ratios Summed Over All Pathways										
Parent and Progeny Principal Radionuclide Contributions Indicated										
OParent	Product	Branch	DSR(j,t) (mrem/yr)/(pCi/g)							
(i)	(j)	Fraction*	t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Pu-241	Pu-241	1.000E+00	3.746E-03	3.542E-03	3.166E-03	2.134E-03	6.817E-04	8.949E-06	0.000E+00	0.000E+00
Pu-241	Am-241	1.000E+00	1.706E-04	4.712E-04	9.195E-04	1.483E-03	8.066E-04	1.389E-05	7.279E-02	4.015E-14
Pu-241	Np-237	1.000E+00	1.746E-10	1.207E-09	5.745E-09	3.371E-08	9.287E-08	4.190E-08	2.749E-07	6.932E-07
Pu-241	U-233	1.000E+00	5.411E-18	6.938E-17	6.723E-16	1.113E-14	8.296E-14	7.042E-14	3.298E-11	8.034E-10
Pu-241	Th-229	1.000E+00	2.248E-21	6.556E-20	1.496E-18	8.413E-17	2.488E-15	2.044E-14	2.412E-15	5.585E-13
Pu-241	äDSR(j)		3.917E-03	4.013E-03	4.085E-03	3.617E-03	1.488E-03	2.288E-05	7.279E-02	6.940E-07
0Pu-241	Pu-241	2.450E-05	9.178E-08	8.678E-08	7.757E-08	5.229E-08	1.670E-08	2.193E-10	0.000E+00	0.000E+00
Pu-241	Np-237	2.450E-05	8.462E-12	2.535E-11	5.585E-11	1.329E-10	2.012E-10	7.283E-11	0.000E+00	0.000E+00
Pu-241	U-233	2.450E-05	3.232E-19	1.987E-18	9.210E-18	5.976E-17	2.177E-16	1.260E-16	0.000E+00	2.203E-14
Pu-241	Th-229	2.450E-05	1.732E-22	2.496E-21	2.736E-20	5.904E-19	8.189E-18	4.252E-17	0.000E+00	1.056E-17
Pu-241	äDSR(j)		9.179E-08	8.680E-08	7.762E-08	5.242E-08	1.690E-08	2.921E-10	0.000E+00	2.204E-14
0Sb-125	Sb-125	1.000E+00	1.153E-01	4.172E-02	2.034E-01	1.322E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Sr-90	Sr-90	1.000E+00	1.075E+00	9.634E-01	7.714E-01	3.539E-01	3.763E-02	1.055E-05	1.183E-04	0.000E+00
0Zn-65	Zn-65	1.000E+00	2.447E-01	1.965E-01	3.395E-01	1.964E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
 The DSR includes contributions from associated (half-life ó 0.5 yr) daughters.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Single Radionuclide Soil Guidelines G(i,t) in pCi/g
 Basic Radiation Dose Limit = 19 mrem/yr

ONuclide (i)	t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
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Ag-110m	2.567E+01	5.493E+02	3.176E+02	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15
Am-241	8.979E+01	1.020E+02	1.318E+02	3.235E+02	4.249E+03	1.271E+07	7.667E+00	7.787E+05
C-14	4.648E+01	4.798E+00	8.624E-01	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12
Cm-243	4.108E+01	4.228E+01	4.478E+01	5.478E+01	9.821E+01	9.459E+02	7.182E+05	8.926E+09
Cm-244	1.789E+02	1.874E+02	2.057E+02	2.854E+02	7.356E+02	2.385E+04	*8.086E+13	2.533E+10
Cm-245	4.761E+01	4.785E+01	4.834E+01	5.011E+01	5.616E+01	1.054E+02	7.785E+01	1.434E+02
Cm-246	9.601E+01	9.684E+01	9.854E+01	1.049E+02	1.272E+02	3.508E+02	*3.071E+11	*3.071E+11
Co-57	9.862E+01	2.519E+02	1.643E+03	1.166E+06	1.640E+14	*8.464E+15	*8.464E+15	*8.464E+15
Co-60	2.458E+00	2.817E+00	3.700E+00	9.615E+00	1.488E+02	2.816E+06	*1.131E+15	*1.131E+15
Cs-134	4.244E+00	5.966E+00	1.179E+01	1.282E+02	1.182E+05	*1.294E+15	*1.294E+15	*1.294E+15
Cs-137	9.665E+00	9.936E+00	1.050E+01	1.277E+01	2.254E+01	2.124E+02	*8.701E+13	*8.701E+13
Fe-55	5.021E+04	6.550E+04	1.115E+05	7.184E+05	1.495E+08	*2.409E+15	*2.409E+15	*2.409E+15
H-3	2.900E+04	3.529E+04	6.474E+03	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15
Mn-54	1.026E+01	2.340E+01	1.217E+02	3.905E+04	5.714E+11	*7.744E+15	*7.744E+15	*7.744E+15
Ni-63	8.532E+03	8.672E+03	8.962E+03	1.007E+04	1.426E+04	6.761E+04	*5.916E+13	*5.916E+13
Pu-238	1.063E+02	1.080E+02	1.115E+02	1.248E+02	1.748E+02	7.983E+02	*1.711E+13	1.153E+06
Pu-239	9.590E+01	9.667E+01	9.823E+01	1.041E+02	1.245E+02	3.277E+02	*6.212E+10	4.357E+08
Pu-240	9.595E+01	9.672E+01	9.830E+01	1.042E+02	1.249E+02	3.305E+02	*2.277E+11	6.022E+07
Pu-241	4.851E+03	4.734E+03	4.651E+03	5.252E+03	1.277E+04	8.304E+05	2.610E+02	2.738E+07
Sb-125	1.648E+02	4.554E+02	9.343E+01	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15
Sr-90	1.767E+01	1.972E+01	2.463E+01	5.369E+01	5.049E+02	1.800E+06	1.606E+05	*1.365E+14
Zn-65	7.766E+01	9.670E+01	5.597E+01	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15
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*At specific activity limit

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

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 = 0.000E+00 years

ONuclide (i)	Initial pCi/g	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ag-110m	9.500E-03	0.000E+00	7.403E-01	2.567E+01	7.403E-01	2.567E+01
Am-241	1.035E-01	205.2 ñ 0.4	2.846E+00	6.675E+00	2.116E-01	8.979E+01
C-14	5.000E-03	3.327 ñ 0.007	2.208E+01	8.607E-01	4.088E-01	4.648E+01
Cm-243	2.300E-02	0.000E+00	4.625E-01	4.108E+01	4.625E-01	4.108E+01
Cm-244	2.300E-02	0.000E+00	1.062E-01	1.789E+02	1.062E-01	1.789E+02
Cm-245	1.145E-01	0.000E+00	3.990E-01	4.761E+01	3.990E-01	4.761E+01
Cm-246	1.145E-01	0.000E+00	1.979E-01	9.601E+01	1.979E-01	9.601E+01
Co-57	1.050E-01	0.000E+00	1.927E-01	9.862E+01	1.927E-01	9.862E+01
Co-60	5.000E+00	0.000E+00	7.729E+00	2.458E+00	7.729E+00	2.458E+00
Cs-134	2.730E-01	0.000E+00	4.477E+00	4.244E+00	4.477E+00	4.244E+00
Cs-137	1.591E+00	0.000E+00	1.966E+00	9.665E+00	1.966E+00	9.665E+00
Fe-55	9.792E+00	0.000E+00	3.784E-04	5.021E+04	3.784E-04	5.021E+04
H-3	3.103E+01	1.961 ñ 0.004	3.085E-03	6.160E+03	6.551E-04	2.900E+04
Mn-54	5.605E-01	0.000E+00	1.851E+00	1.026E+01	1.851E+00	1.026E+01
Ni-63	1.164E+00	0.000E+00	2.227E-03	8.532E+03	2.227E-03	8.532E+03
Pu-238	3.800E-02	0.000E+00	1.787E-01	1.063E+02	1.787E-01	1.063E+02
Pu-239	2.395E-01	0.000E+00	1.981E-01	9.590E+01	1.981E-01	9.590E+01
Pu-240	2.395E-01	0.000E+00	1.980E-01	9.595E+01	1.980E-01	9.595E+01
Pu-241	4.347E+00	245.4 ñ 0.5	7.748E-02	2.452E+02	3.917E-03	4.851E+03
Sb-125	3.440E-01	1.918 ñ 0.004	2.600E-01	7.307E+01	1.153E-01	1.648E+02
Sr-90	2.450E-01	0.000E+00	1.075E+00	1.767E+01	1.075E+00	1.767E+01
Zn-65	3.400E-02	1.837 ñ 0.004	1.018E+00	1.866E+01	2.447E-01	7.766E+01

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Dose Summed Over All Pathways										
Parent Nuclide and Branch Fraction Indicated										
ONuclide	Parent (j)	BRF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ag-110m	Ag-110m	1.000E+00	7.033E-03	3.286E-04	5.683E-04	3.671E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Am-241	Am-241	1.000E+00	2.190E-02	1.927E-02	1.492E-02	6.079E-03	4.624E-04	4.367E-08	2.565E-01	0.000E+00
	Am-241	1.000E+00	3.180E-07	2.105E-06	9.851E-06	5.810E-05	1.700E-04	1.139E-04	2.795E-02	1.517E-02
	Am-241	1.000E+00	7.414E-04	2.048E-03	3.997E-03	6.447E-03	3.506E-03	6.037E-05	3.164E-01	1.745E-13
	Am-241	äDOSE(j) :	2.264E-02	2.132E-02	1.892E-02	1.258E-02	4.139E-03	1.743E-04	6.009E-01	1.517E-02
0Np-237	Am-241	1.000E+00	3.492E-08	1.014E-07	2.090E-07	4.034E-07	4.142E-07	1.110E-07	1.153E-06	2.522E-06
	Np-237	1.000E+00	2.366E-13	3.586E-12	3.906E-11	7.529E-10	7.754E-09	2.168E-08	6.171E-08	5.573E-07
	Np-237	2.450E-05	1.514E-14	1.083E-13	5.555E-13	4.221E-12	2.206E-11	4.334E-11	0.000E+00	0.000E+00
	Np-237	1.000E+00	7.591E-10	5.249E-09	2.497E-08	1.465E-07	4.037E-07	1.821E-07	1.195E-06	3.013E-06
	Np-237	2.450E-05	3.678E-11	1.102E-10	2.428E-10	5.779E-10	8.748E-10	3.166E-10	0.000E+00	0.000E+00
	Np-237	äDOSE(j) :	3.571E-08	1.068E-07	2.342E-07	5.512E-07	8.266E-07	3.152E-07	2.410E-06	6.093E-06
0U-233	Am-241	1.000E+00	1.340E-15	8.068E-15	3.575E-14	2.002E-13	5.302E-13	2.019E-13	1.589E-10	2.950E-09
	U-233	1.000E+00	6.224E-21	1.654E-19	3.501E-18	1.824E-16	4.843E-15	2.576E-14	5.347E-12	4.763E-10
	U-233	2.450E-05	4.671E-22	6.146E-21	6.304E-20	1.272E-18	1.588E-17	5.324E-17	0.000E+00	1.295E-14
	U-233	1.000E+00	2.352E-17	3.016E-16	2.922E-15	4.838E-14	3.606E-13	3.061E-13	1.434E-10	3.493E-09
	U-233	2.450E-05	1.405E-18	8.638E-18	4.003E-17	2.598E-16	9.463E-16	5.478E-16	0.000E+00	9.577E-14
	U-233	äDOSE(j) :	1.365E-15	8.379E-15	3.872E-14	2.491E-13	8.966E-13	5.343E-13	3.076E-10	6.919E-09
0Th-229	Am-241	1.000E+00	7.212E-19	1.024E-17	1.085E-16	2.099E-15	2.292E-14	8.368E-14	1.286E-14	2.119E-12
	Th-229	1.000E+00	2.094E-24	1.242E-22	6.084E-21	1.052E-18	1.024E-16	3.833E-15	5.851E-12	6.839E-12
	Th-229	2.450E-05	1.932E-25	5.748E-24	1.371E-22	9.017E-21	3.976E-19	8.762E-18	0.000E+00	4.586E-18
	Th-229	1.000E+00	9.773E-21	2.850E-19	6.502E-18	3.657E-16	1.082E-14	8.886E-14	1.049E-14	2.428E-12
	Th-229	2.450E-05	7.529E-22	1.085E-20	1.189E-19	2.566E-18	3.560E-17	1.848E-16	0.000E+00	4.589E-17
	Th-229	äDOSE(j) :	7.317E-19	1.053E-17	1.152E-16	2.468E-15	3.387E-14	1.766E-13	5.874E-12	1.139E-11
0C-14	C-14	1.000E+00	2.044E-03	1.980E-02	1.102E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Cm-243	Cm-243	9.976E-01	1.061E-02	1.031E-02	9.736E-03	7.957E-03	4.437E-03	4.595E-04	0.000E+00	0.000E+00
	Cm-243	2.400E-03	2.553E-05	2.481E-05	2.342E-05	1.914E-05	1.067E-05	1.105E-06	0.000E+00	0.000E+00
	Cm-243	äDOSE(j) :	1.064E-02	1.034E-02	9.759E-03	7.976E-03	4.447E-03	4.606E-04	0.000E+00	0.000E+00
0Pu-239	Cm-243	9.976E-01	6.456E-08	1.907E-07	4.280E-07	1.115E-06	2.156E-06	1.415E-06	0.000E+00	0.000E+00
	Pu-239	2.400E-03	4.728E-15	3.164E-14	1.507E-13	9.394E-13	3.189E-12	2.617E-12	1.617E-11	4.782E-11
	Pu-239	1.000E+00	4.745E-02	4.707E-02	4.632E-02	4.373E-02	3.654E-02	1.389E-02	0.000E+00	0.000E+00
	Pu-239	äDOSE(j) :	4.745E-02	4.707E-02	4.632E-02	4.373E-02	3.655E-02	1.389E-02	1.617E-11	4.782E-11
0U-235	Cm-243	9.976E-01	5.077E-17	3.478E-16	1.747E-15	1.303E-14	6.626E-14	1.296E-13	0.000E+00	2.295E-13
	U-235	2.400E-03	2.808E-24	4.043E-23	4.293E-22	8.158E-21	8.315E-20	2.339E-19	3.499E-18	9.943E-17
	U-235	1.000E+00	5.538E-11	1.625E-10	3.604E-10	9.073E-10	1.662E-09	1.384E-09	0.000E+00	2.524E-09
	U-235	äDOSE(j) :	5.538E-11	1.625E-10	3.604E-10	9.073E-10	1.662E-09	1.384E-09	3.499E-18	2.524E-09
0Pa-231	Cm-243	9.976E-01	1.932E-21	3.067E-20	3.480E-19	7.293E-18	8.579E-17	2.159E-16	0.000E+00	1.585E-13
	Pa-231	2.400E-03	8.270E-29	2.714E-27	6.512E-26	3.613E-24	9.233E-23	3.758E-22	1.842E-19	3.484E-17
	Pa-231	1.000E+00	2.922E-15	2.124E-14	1.075E-13	7.463E-13	2.982E-12	2.604E-12	0.000E+00	1.860E-09
	Pa-231	äDOSE(j) :	2.922E-15	2.124E-14	1.075E-13	7.463E-13	2.982E-12	2.604E-12	1.842E-19	1.860E-09

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Dose Summed Over All Pathways										
Parent Nuclide and Branch Fraction Indicated										
ONuclide	Parent (j)	BRF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Cm-243	9.976E-01	1.237E-23	3.261E-22	6.811E-21	3.406E-19	8.258E-18	3.902E-17	4.601E-16	5.222E-13
Ac-227	Cm-243	2.400E-03	4.719E-31	2.507E-29	1.079E-27	1.451E-25	8.155E-24	6.695E-23	6.068E-19	1.008E-16
Ac-227	Pu-239	1.000E+00	2.153E-17	2.750E-16	2.652E-15	4.354E-14	3.362E-13	4.926E-13	1.151E-11	6.059E-09
Ac-227	äDOSE(j):		2.153E-17	2.750E-16	2.652E-15	4.354E-14	3.362E-13	4.927E-13	1.151E-11	6.059E-09
0Am-243	Cm-243	2.400E-03	1.768E-09	4.965E-09	1.002E-08	1.834E-08	1.543E-08	1.748E-09	6.085E-07	2.260E-13
0Cm-244	Cm-244	1.000E+00	2.443E-03	2.331E-03	2.123E-03	1.527E-03	5.875E-04	1.478E-05	0.000E+00	0.000E+00
0Pu-240	Cm-244	1.000E+00	2.371E-07	6.960E-07	1.541E-06	3.836E-06	6.641E-06	3.548E-06	0.000E+00	0.000E+00
Pu-240	Pu-240	1.000E+00	4.743E-02	4.705E-02	4.629E-02	4.367E-02	3.644E-02	1.377E-02	0.000E+00	0.000E+00
Pu-240	äDOSE(j):		4.743E-02	4.705E-02	4.629E-02	4.368E-02	3.645E-02	1.377E-02	0.000E+00	0.000E+00
0U-236	Cm-244	1.000E+00	4.997E-16	3.441E-15	1.706E-14	1.190E-13	4.952E-13	4.657E-13	0.000E+00	1.725E-11
U-236	Pu-240	1.000E+00	1.497E-10	4.412E-10	9.716E-10	2.358E-09	3.847E-09	1.896E-09	0.000E+00	7.557E-08
U-236	äDOSE(j):		1.497E-10	4.412E-10	9.716E-10	2.359E-09	3.847E-09	1.896E-09	0.000E+00	7.558E-08
0Th-232	Cm-244	1.000E+00	4.120E-26	5.891E-25	6.420E-24	1.383E-22	1.920E-21	8.898E-21	0.000E+00	4.039E-21
Th-232	Pu-240	1.000E+00	1.611E-20	1.084E-19	5.429E-19	4.124E-18	2.239E-17	4.887E-17	0.000E+00	1.951E-17
Th-232	äDOSE(j):		1.611E-20	1.084E-19	5.429E-19	4.124E-18	2.239E-17	4.888E-17	0.000E+00	1.952E-17
0Ra-228	Cm-244	1.000E+00	1.393E-26	4.230E-25	9.804E-24	5.501E-22	1.628E-20	1.547E-19	0.000E+00	1.439E-18
Ra-228	Pu-240	1.000E+00	6.900E-21	1.009E-19	1.076E-18	2.036E-17	2.155E-16	8.732E-16	0.000E+00	6.962E-15
Ra-228	äDOSE(j):		6.900E-21	1.009E-19	1.076E-18	2.036E-17	2.156E-16	8.734E-16	0.000E+00	6.964E-15
0Th-228	Cm-244	1.000E+00	1.034E-27	5.922E-26	2.619E-24	3.216E-22	1.559E-20	1.905E-19	0.000E+00	3.885E-21
Th-228	Pu-240	1.000E+00	6.033E-22	1.687E-20	3.447E-19	1.370E-17	2.214E-16	1.089E-15	0.000E+00	1.880E-17
Th-228	äDOSE(j):		6.033E-22	1.687E-20	3.447E-19	1.370E-17	2.214E-16	1.090E-15	0.000E+00	1.880E-17
0Cm-245	Cm-245	1.000E+00	4.568E-02	4.543E-02	4.493E-02	4.319E-02	3.831E-02	2.041E-02	0.000E+00	0.000E+00
Cm-245	Cm-245	2.450E-05	1.119E-06	1.113E-06	1.101E-06	1.058E-06	9.386E-07	5.001E-07	0.000E+00	0.000E+00
Cm-245	äDOSE(j):		4.568E-02	4.543E-02	4.493E-02	4.319E-02	3.831E-02	2.041E-02	0.000E+00	0.000E+00
0Pu-241	Cm-245	1.000E+00	1.034E-05	3.024E-05	6.633E-05	1.600E-04	2.576E-04	1.219E-04	0.000E+00	0.000E+00
Pu-241	Pu-241	1.000E+00	1.628E-02	1.540E-02	1.376E-02	9.278E-03	2.963E-03	3.890E-05	0.000E+00	0.000E+00
Pu-241	äDOSE(j):		1.629E-02	1.543E-02	1.383E-02	9.438E-03	3.221E-03	1.608E-04	0.000E+00	0.000E+00
0Pu-241	Cm-245	2.450E-05	2.534E-10	7.409E-10	1.625E-09	3.921E-09	6.311E-09	2.986E-09	0.000E+00	0.000E+00
Pu-241	Pu-241	2.450E-05	3.990E-07	3.772E-07	3.372E-07	2.273E-07	7.260E-08	9.531E-10	0.000E+00	0.000E+00
Pu-241	äDOSE(j):		3.992E-07	3.780E-07	3.388E-07	2.312E-07	7.891E-08	3.939E-09	0.000E+00	0.000E+00
0Cm-246	Cm-246	9.997E-01	2.266E-02	2.246E-02	2.208E-02	2.074E-02	1.710E-02	6.201E-03	0.000E+00	0.000E+00
0Pu-242	Cm-246	9.997E-01	1.974E-08	5.893E-08	1.354E-07	3.828E-07	9.234E-07	1.131E-06	0.000E+00	0.000E+00
0U-238	Cm-246	9.997E-01	6.184E-19	4.276E-18	2.178E-17	1.696E-16	9.767E-16	2.871E-15	0.000E+00	6.735E-14
0U-234	Cm-246	9.997E-01	1.739E-25	2.544E-24	2.796E-23	5.968E-22	7.938E-21	3.276E-20	0.000E+00	1.311E-16
U-234	Pu-238	1.000E+00	2.395E-09	7.033E-09	1.537E-08	3.620E-08	5.343E-08	1.652E-08	0.000E+00	6.019E-07
U-234	äDOSE(j):		2.395E-09	7.033E-09	1.537E-08	3.620E-08	5.343E-08	1.652E-08	0.000E+00	6.019E-07

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Dose Summed Over All Pathways										
Parent Nuclide and Branch Fraction Indicated										
ONuclide	Parent (j)	BRF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Th-230	Cm-246	9.997E-01	1.979E-31	1.158E-29	2.747E-28	1.771E-26	7.464E-25	1.301E-23	0.000E+00	9.830E-20
Th-230	Pu-238	1.000E+00	9.008E-15	6.049E-14	3.014E-13	2.248E-12	1.155E-11	2.052E-11	0.000E+00	6.648E-12
Th-230	äDOSE(j) :		9.008E-15	6.049E-14	3.014E-13	2.248E-12	1.155E-11	2.052E-11	0.000E+00	6.648E-12
ORa-226	Cm-246	9.997E-01	0.000E+00	1.745E-31	1.026E-29	2.020E-27	2.539E-25	1.650E-23	0.000E+00	2.553E-17
Ra-226	Pu-238	1.000E+00	1.141E-16	1.694E-15	1.893E-14	4.213E-13	6.236E-12	3.673E-11	0.000E+00	2.503E-09
Ra-226	äDOSE(j) :		1.141E-16	1.694E-15	1.893E-14	4.213E-13	6.236E-12	3.673E-11	0.000E+00	2.503E-09
OPb-210	Cm-246	9.997E-01	0.000E+00	0.000E+00	0.000E+00	2.603E-29	7.707E-27	8.199E-25	0.000E+00	2.233E-16
Pb-210	Pu-238	1.000E+00	2.366E-19	6.337E-18	1.372E-16	7.883E-15	2.680E-13	2.347E-12	0.000E+00	2.169E-08
Pb-210	äDOSE(j) :		2.366E-19	6.337E-18	1.372E-16	7.883E-15	2.680E-13	2.347E-12	0.000E+00	2.169E-08
OCo-57	Co-57	1.000E+00	2.023E-02	7.920E-03	1.214E-03	1.711E-06	1.216E-14	0.000E+00	0.000E+00	0.000E+00
OCo-60	Co-60	1.000E+00	3.864E+01	3.372E+01	2.568E+01	9.881E+00	6.384E-01	3.374E-05	0.000E+00	0.000E+00
OCs-134	Cs-134	1.000E+00	1.222E+00	8.695E-01	4.399E-01	4.047E-02	4.390E-05	1.429E-15	0.000E+00	0.000E+00
OCs-137	Cs-137	1.000E+00	3.128E+00	3.042E+00	2.878E+00	2.367E+00	1.341E+00	1.423E-01	0.000E+00	0.000E+00
OFe-55	Fe-55	1.000E+00	3.705E-03	2.840E-03	1.669E-03	2.590E-04	1.245E-06	6.827E-15	0.000E+00	0.000E+00
OH-3	H-3	1.000E+00	2.033E-02	1.670E-02	9.106E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OMn-54	Mn-54	1.000E+00	1.038E+00	4.551E-01	8.752E-02	2.727E-04	1.864E-11	0.000E+00	0.000E+00	0.000E+00
ONi-63	Ni-63	1.000E+00	2.593E-03	2.551E-03	2.469E-03	2.197E-03	1.552E-03	3.272E-04	0.000E+00	0.000E+00
OPu-238	Pu-238	1.000E+00	6.790E-03	6.684E-03	6.475E-03	5.784E-03	4.129E-03	9.044E-04	0.000E+00	0.000E+00
OSb-125	Sb-125	1.000E+00	3.965E-02	1.435E-02	6.996E-02	4.548E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OSr-90	Sr-90	1.000E+00	2.635E-01	2.360E-01	1.890E-01	8.670E-02	9.219E-03	2.586E-06	2.898E-05	0.000E+00
OZn-65	Zn-65	1.000E+00	8.318E-03	6.680E-03	1.154E-02	6.679E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Soil Concentration										
Parent Nuclide and Branch Fraction Indicated										
ONuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ag-110m	Ag-110m	1.000E+00	9.500E-03	4.236E-08	8.423E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Am-241	Am-241	1.000E+00	1.035E-01	9.161E-02	7.176E-02	3.053E-02	2.657E-03	5.163E-07	1.285E-17	0.000E+00
Am-241	Cm-245	1.000E+00	0.000E+00	4.173E-06	3.354E-05	2.556E-04	9.079E-04	1.268E-03	8.887E-04	2.436E-04
Am-241	Pu-241	1.000E+00	0.000E+00	6.400E-03	1.620E-02	3.024E-02	1.935E-02	6.885E-04	3.560E-08	3.531E-23
Am-241	äS(j):		1.035E-01	9.801E-02	8.800E-02	6.103E-02	2.291E-02	1.957E-03	8.887E-04	2.436E-04
0Np-237	Am-241	1.000E+00	0.000E+00	3.141E-08	8.296E-08	1.830E-07	2.165E-07	1.156E-07	1.746E-08	2.334E-11
Np-237	Cm-245	1.000E+00	0.000E+00	4.559E-13	1.126E-11	3.088E-10	3.919E-09	2.239E-08	3.294E-08	1.037E-08
Np-237	Cm-245	2.450E-05	0.000E+00	2.143E-14	1.853E-13	1.796E-12	1.124E-11	4.479E-11	6.107E-11	1.905E-11
Np-237	Pu-241	1.000E+00	0.000E+00	1.063E-09	8.500E-09	6.344E-08	2.084E-07	1.896E-07	2.947E-08	3.939E-11
Np-237	Pu-241	2.450E-05	0.000E+00	3.350E-11	9.481E-11	2.588E-10	4.544E-10	3.297E-10	5.071E-11	6.778E-14
Np-237	äS(j):		0.000E+00	3.250E-08	9.156E-08	2.470E-07	4.293E-07	3.280E-07	7.998E-08	1.045E-08
0U-233	Am-241	1.000E+00	0.000E+00	6.905E-14	5.524E-13	4.131E-12	1.365E-11	1.255E-11	1.955E-12	2.613E-15
U-233	Cm-245	1.000E+00	0.000E+00	4.982E-19	3.683E-17	3.334E-15	1.195E-13	1.582E-12	2.998E-12	9.718E-13
U-233	Cm-245	2.450E-05	0.000E+00	3.102E-20	7.934E-19	2.438E-17	3.961E-16	3.274E-15	5.570E-15	1.785E-15
U-233	Pu-241	1.000E+00	0.000E+00	1.554E-15	3.747E-14	9.426E-13	9.123E-12	1.900E-11	3.300E-12	4.411E-15
U-233	Pu-241	2.450E-05	0.000E+00	7.278E-17	6.100E-16	5.298E-15	2.418E-14	3.402E-14	5.678E-15	7.591E-18
U-233	äS(j):		0.000E+00	7.068E-14	5.905E-13	5.082E-12	2.291E-11	3.317E-11	8.264E-12	9.806E-13
0Th-229	Am-241	1.000E+00	0.000E+00	2.206E-18	5.454E-17	1.504E-15	1.937E-14	1.180E-13	2.220E-13	2.200E-13
Th-229	Cm-245	1.000E+00	0.000E+00	9.481E-24	2.135E-21	6.784E-19	8.363E-17	5.359E-15	5.496E-14	1.692E-13
Th-229	Cm-245	2.450E-05	0.000E+00	7.364E-25	5.711E-23	6.073E-21	3.281E-19	1.227E-17	1.067E-16	3.166E-16
Th-229	Pu-241	1.000E+00	0.000E+00	3.712E-20	2.746E-18	2.492E-16	9.011E-15	1.251E-13	2.976E-13	3.011E-13
Th-229	Pu-241	2.450E-05	0.000E+00	2.312E-21	5.917E-20	1.824E-18	2.995E-17	2.604E-16	5.591E-16	5.610E-16
Th-229	äS(j):		0.000E+00	2.246E-18	5.734E-17	1.755E-15	2.850E-14	2.487E-13	5.752E-13	6.912E-13
0C-14	C-14	1.000E+00	5.000E-03	1.519E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Cm-243	Cm-243	9.976E-01	2.294E-02	2.235E-02	2.122E-02	1.768E-02	1.049E-02	1.689E-03	9.156E-06	1.073E-13
Cm-243	Cm-243	2.400E-03	5.520E-05	5.378E-05	5.104E-05	4.252E-05	2.524E-05	4.064E-06	2.203E-08	2.582E-16
Cm-243	äS(j):		2.300E-02	2.241E-02	2.127E-02	1.772E-02	1.052E-02	1.693E-03	9.178E-06	1.076E-13
0Pu-239	Cm-243	9.976E-01	0.000E+00	6.519E-07	1.903E-06	5.779E-06	1.346E-05	2.153E-05	1.829E-05	7.649E-06
Pu-239	Cm-243	2.400E-03	0.000E+00	7.110E-14	5.813E-13	4.707E-12	1.980E-11	3.979E-11	3.463E-11	1.448E-11
Pu-239	Pu-239	1.000E+00	2.395E-01	2.392E-01	2.386E-01	2.365E-01	2.307E-01	2.114E-01	1.648E-01	6.886E-02
Pu-239	äS(j):		2.395E-01	2.392E-01	2.386E-01	2.365E-01	2.307E-01	2.115E-01	1.648E-01	6.887E-02
0U-235	Cm-243	9.976E-01	0.000E+00	3.173E-16	2.716E-15	2.539E-14	1.431E-13	4.082E-13	3.810E-13	1.594E-13
U-235	Cm-243	2.400E-03	0.000E+00	2.334E-23	5.722E-22	1.529E-20	1.781E-19	7.361E-19	7.212E-19	3.019E-19
U-235	Pu-239	1.000E+00	0.000E+00	2.301E-10	6.573E-10	1.856E-09	3.643E-09	4.367E-09	3.434E-09	1.435E-09
U-235	äS(j):		0.000E+00	2.301E-10	6.573E-10	1.856E-09	3.643E-09	4.368E-09	3.435E-09	1.435E-09
0Pa-231	Cm-243	9.976E-01	0.000E+00	2.225E-21	5.647E-20	1.688E-18	2.526E-17	1.547E-16	1.703E-16	7.135E-17
Pa-231	Cm-243	2.400E-03	0.000E+00	1.235E-28	9.078E-27	8.047E-25	2.694E-23	2.691E-22	3.222E-22	1.351E-22
Pa-231	Pu-239	1.000E+00	0.000E+00	2.415E-15	2.037E-14	1.810E-13	8.917E-13	1.872E-12	1.537E-12	6.423E-13
Pa-231	äS(j):		0.000E+00	2.415E-15	2.037E-14	1.810E-13	8.917E-13	1.872E-12	1.537E-12	6.424E-13

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Soil Concentration										
Parent Nuclide and Branch Fraction Indicated										
ONuclide	Parent	BRF(i)	S(j,t), pCi/g							
(j)	(i)		t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Cm-243	9.976E-01	0.000E+00	1.729E-23	1.256E-21	1.073E-19	3.339E-18	3.056E-17	3.587E-17	1.503E-17
Ac-227	Cm-243	2.400E-03	0.000E+00	7.728E-31	1.648E-28	4.342E-26	3.255E-24	5.236E-23	6.786E-23	2.847E-23
Ac-227	Pu-239	1.000E+00	0.000E+00	2.488E-17	5.941E-16	1.457E-14	1.387E-13	3.873E-13	3.239E-13	1.354E-13
Ac-227	äS(j):		0.000E+00	2.488E-17	5.941E-16	1.457E-14	1.388E-13	3.874E-13	3.239E-13	1.354E-13
0Am-243	Cm-243	2.400E-03	0.000E+00	4.820E-09	1.252E-08	2.584E-08	2.361E-08	4.039E-09	2.190E-11	2.567E-19
0Cm-244	Cm-244	1.000E+00	2.300E-02	2.210E-02	2.040E-02	1.541E-02	6.919E-03	4.195E-04	1.396E-07	9.374E-20
0Pu-240	Cm-244	1.000E+00	0.000E+00	2.389E-06	6.880E-06	1.996E-05	4.159E-05	5.403E-05	4.234E-05	1.676E-05
	Pu-240	1.000E+00	2.395E-01	2.392E-01	2.386E-01	2.364E-01	2.302E-01	2.098E-01	1.610E-01	6.374E-02
	äS(j):		2.395E-01	2.392E-01	2.386E-01	2.364E-01	2.302E-01	2.099E-01	1.610E-01	6.376E-02
0U-236	Cm-244	1.000E+00	0.000E+00	3.503E-14	2.971E-13	2.690E-12	1.390E-11	3.202E-11	2.657E-11	1.052E-11
U-236	Pu-240	1.000E+00	0.000E+00	6.916E-09	1.975E-08	5.578E-08	1.094E-07	1.305E-07	1.010E-07	4.000E-08
U-236	äS(j):		0.000E+00	6.916E-09	1.975E-08	5.578E-08	1.094E-07	1.305E-07	1.011E-07	4.001E-08
0Th-232	Cm-244	1.000E+00	0.000E+00	5.804E-25	1.499E-23	4.764E-22	8.526E-21	9.843E-20	3.930E-19	9.705E-19
Th-232	Pu-240	1.000E+00	0.000E+00	1.720E-19	1.498E-18	1.490E-17	1.008E-16	5.418E-16	1.673E-15	3.863E-15
Th-232	äS(j):		0.000E+00	1.720E-19	1.498E-18	1.490E-17	1.008E-16	5.419E-16	1.673E-15	3.864E-15
0Ra-228	Cm-244	1.000E+00	0.000E+00	1.704E-26	1.254E-24	1.124E-22	4.079E-21	6.867E-20	2.987E-19	7.512E-19
Ra-228	Pu-240	1.000E+00	0.000E+00	6.679E-21	1.633E-19	4.369E-18	5.480E-17	3.885E-16	1.274E-15	2.991E-15
Ra-228	äS(j):		0.000E+00	6.679E-21	1.633E-19	4.369E-18	5.480E-17	3.886E-16	1.274E-15	2.992E-15
0Th-228	Cm-244	1.000E+00	0.000E+00	1.173E-27	2.348E-25	5.217E-23	3.149E-21	6.536E-20	2.958E-19	7.501E-19
Th-228	Pu-240	1.000E+00	0.000E+00	5.691E-22	3.718E-20	2.347E-18	4.545E-17	3.746E-16	1.263E-15	2.987E-15
Th-228	äS(j):		0.000E+00	5.691E-22	3.718E-20	2.347E-18	4.545E-17	3.747E-16	1.264E-15	2.987E-15
0Cm-245	Cm-245	1.000E+00	1.145E-01	1.143E-01	1.139E-01	1.124E-01	1.083E-01	9.517E-02	6.575E-02	1.802E-02
	Cm-245	2.450E-05	2.805E-06	2.800E-06	2.790E-06	2.754E-06	2.654E-06	2.332E-06	1.611E-06	4.416E-07
	äS(j):		1.145E-01	1.143E-01	1.139E-01	1.124E-01	1.083E-01	9.517E-02	6.575E-02	1.802E-02
0Pu-241	Cm-245	1.000E+00	0.000E+00	5.373E-03	1.532E-02	4.307E-02	8.336E-02	9.560E-02	6.663E-02	1.826E-02
	Pu-241	1.000E+00	4.347E+00	4.138E+00	3.749E+00	2.654E+00	9.889E-01	3.125E-02	1.615E-06	1.601E-21
	äS(j):		4.347E+00	4.143E+00	3.764E+00	2.697E+00	1.072E+00	1.268E-01	6.663E-02	1.826E-02
0Pu-241	Cm-245	2.450E-05	0.000E+00	1.316E-07	3.755E-07	1.055E-06	2.042E-06	2.342E-06	1.632E-06	4.475E-07
	Pu-241	2.450E-05	1.065E-04	1.014E-04	9.184E-05	6.502E-05	2.423E-05	7.656E-07	3.956E-11	3.924E-26
	äS(j):		1.065E-04	1.015E-04	9.222E-05	6.607E-05	2.627E-05	3.108E-06	1.632E-06	4.475E-07
0Cm-246	Cm-246	9.997E-01	1.145E-01	1.143E-01	1.138E-01	1.123E-01	1.081E-01	9.456E-02	6.448E-02	1.689E-02
0Pu-242	Cm-246	9.997E-01	0.000E+00	2.105E-07	6.296E-07	2.076E-06	6.035E-06	1.803E-05	3.961E-05	4.490E-05
0U-238	Cm-246	9.997E-01	0.000E+00	1.608E-17	1.399E-16	1.385E-15	9.246E-15	4.701E-14	1.216E-13	1.451E-13
0U-234	Cm-246	9.997E-01	0.000E+00	1.507E-23	3.873E-22	1.210E-20	2.068E-19	2.113E-18	6.781E-18	8.568E-18
U-234	Pu-238	1.000E+00	0.000E+00	1.047E-07	2.966E-07	8.128E-07	1.442E-06	1.078E-06	1.774E-07	3.001E-10
U-234	äS(j):		0.000E+00	1.047E-07	2.966E-07	8.128E-07	1.442E-06	1.078E-06	1.774E-07	3.001E-10

Summary : CE Windsor Site, Byproduct Source Term Sensitivity Analysis (using Resident Farmer Scenario)
 File : DEFFARMB.RAD

Individual Nuclide Soil Concentration										
Parent Nuclide and Branch Fraction Indicated										
ONuclide	Parent (j)	BRF(i)	S(j,t), pCi/g							
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02
Th-230	Cm-246	9.997E-01	0.000E+00	3.409E-29	2.654E-27	2.859E-25	1.606E-23	6.965E-22	9.135E-21	6.320E-20
Th-230	Pu-238	1.000E+00	0.000E+00	4.757E-13	4.121E-12	4.023E-11	2.569E-10	1.109E-09	1.998E-09	2.100E-09
Th-230	äS(j):		0.000E+00	4.757E-13	4.121E-12	4.023E-11	2.569E-10	1.109E-09	1.998E-09	2.100E-09
ORa-226	Cm-246	9.997E-01	0.000E+00	2.946E-33	6.846E-31	2.413E-28	3.839E-26	4.382E-24	9.298E-23	7.532E-22
Ra-226	Pu-238	1.000E+00	0.000E+00	6.842E-17	1.764E-15	5.573E-14	9.750E-13	9.850E-12	2.393E-11	2.594E-11
Ra-226	äS(j):		0.000E+00	6.842E-17	1.764E-15	5.573E-14	9.750E-13	9.850E-12	2.393E-11	2.594E-11
OPb-210	Cm-246	9.997E-01	0.000E+00	1.519E-35	1.049E-32	1.193E-29	5.183E-27	1.437E-24	4.555E-23	4.132E-22
Pb-210	Pu-238	1.000E+00	0.000E+00	5.282E-19	4.034E-17	4.061E-15	1.877E-13	4.165E-12	1.312E-11	1.457E-11
Pb-210	äS(j):		0.000E+00	5.282E-19	4.034E-17	4.061E-15	1.877E-13	4.165E-12	1.312E-11	1.457E-11
0Co-57	Co-57	1.000E+00	1.050E-01	4.114E-02	6.316E-03	8.953E-06	6.509E-14	2.133E-42	0.000E+00	0.000E+00
0Co-60	Co-60	1.000E+00	5.000E+00	4.373E+00	3.346E+00	1.310E+00	8.993E-02	7.624E-06	1.772E-17	0.000E+00
0Cs-134	Cs-134	1.000E+00	2.730E-01	1.946E-01	9.886E-02	9.240E-03	1.059E-05	5.389E-16	1.401E-45	0.000E+00
0Cs-137	Cs-137	1.000E+00	1.591E+00	1.551E+00	1.474E+00	1.232E+00	7.395E-01	1.237E-01	7.484E-04	1.288E-11
0Fe-55	Fe-55	1.000E+00	9.792E+00	7.557E+00	4.500E+00	7.335E-01	4.115E-03	5.444E-11	1.682E-33	0.000E+00
0H-3	H-3	1.000E+00	3.103E+01	1.250E-06	2.030E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Mn-54	Mn-54	1.000E+00	5.605E-01	2.463E-01	4.756E-02	1.505E-04	1.084E-11	1.088E-36	0.000E+00	0.000E+00
0Ni-63	Ni-63	1.000E+00	1.164E+00	1.153E+00	1.131E+00	1.057E+00	8.716E-01	4.434E-01	6.429E-02	7.463E-05
0Pu-238	Pu-238	1.000E+00	3.800E-02	3.766E-02	3.697E-02	3.469E-02	2.891E-02	1.527E-02	2.465E-03	4.169E-06
0Sb-125	Sb-125	1.000E+00	3.440E-01	3.289E-06	3.007E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0Sr-90	Sr-90	1.000E+00	2.450E-01	2.207E-01	1.791E-01	8.624E-02	1.069E-02	7.157E-06	6.107E-15	0.000E+00
0Zn-65	Zn-65	1.000E+00	3.400E-02	1.479E-07	2.798E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.
 ORESMAIN5.EXE execution time = 11.81 seconds