



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MEMORANDUM

DATE: March 8, 2004

SUBJECT: **Trifluralin.** Acute, Probabilistic, Chronic and Cancer Dietary Exposure Assessments for the Reregistration Eligibility Decision.

PC Code: 036101
DP Barcode: D296628

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Executive Summary

Acute, chronic, and cancer dietary risk assessments were conducted using the Dietary Exposure Evaluation Model (DEEM-FCID™, version 1.30), and the Lifeline Model (version 2.0), both of which use food consumption data from the USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998. The analyses were performed to support the reregistration eligibility decision.

Acute Dietary Exposure Results and Characterization

An acute dietary assessment was not conducted for the general U.S. population or infants and children because there was no appropriate single dose endpoint for this population sub-group. The acute dietary risk estimates are below the Agency's level of concern (<100% aPAD) at the 99.9th exposure percentile for the females 13- 49 yrs of age (<1 % aPAD), the population subgroup of concern. Results of the Lifeline analysis are fully consistent with DEEM-FCID results. The Lifeline acute dietary exposure estimate for females 13- 50 yrs of age is <1 % of the aPAD.

Chronic Dietary Exposure Results and Characterization

For the chronic dietary assessment, all population subgroups have risk estimates which are below Agency's level of concern. The chronic dietary exposure estimates were <1% of the cPAD for the general U.S. population and population subgroups using DEEM-FCID and Lifeline.

Cancer Dietary Exposure Results and Characterization

The cancer dietary exposure estimate for the general U.S. population is 1.64×10^{-7} (DEEM-FCID) and 1.13×10^{-7} (Lifeline) which is also below the Agency's level of concern.

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population adjusted dose (PAD). The PAD is equivalent to the Reference Dose (RfD) divided by the special FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. HED is generally concerned when estimated cancer risk exceeds one in one million (i.e., the risk exceeds 1×10^{-6}). References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 6/21/2000, web link:

<http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf> ; or see SOP 99.6 (8/20/99).

The most recent dietary risk assessment for trifluralin was conducted by Jennifer Wintersteen (1/12/1995, No DP Barcode).

II. Residue Information

Trifluralin (alpha, alpha, alpha-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine) is a selective preemergence or postemergence dinitroaniline herbicide registered for the control of annual grasses using EC or G formulations. Directed spray treatments in corn, sorghum, and sugar beets may be made over the top of the growing plants. Trifluralin is primarily used in soybeans and cotton, but is also registered for use on a variety of food and feed crops including: alfalfa, asparagus, barley, Brassica vegetables, bulb vegetables, celery, citrus fruits, corn (field), cotton, cucurbit vegetables, fruiting vegetables, grapes, hops, legume vegetables, peanuts, mints, root and tuber vegetables, rapeseed (canola), safflower, sorghum, stone fruits, sugarcane, sunflower, tree nuts and wheat.

Current tolerances (ranging from 0.05 ppm to 2.0 ppm) are established for residues of trifluralin in/on numerous raw agricultural plant commodities [40 CFR § 180.207]. Tolerances for residues of trifluralin in animal commodities have not been established. Based on the reassessed tolerance of alfalfa forage (3 ppm), the maximum dietary exposure of ruminants has increased significantly. Therefore, new metabolism and feeding studies are required in order to assess the residue level for tolerances in ruminant commodities. The Agency continues to expect that finite residues of trifluralin will not occur in hog and poultry commodities since alfalfa is not a feeding item for these non-ruminants.

Data from the plant and ruminant metabolism studies, as well as toxicological and environmental fate data were presented to the HED Metabolism Assessment Review Committee (MARC) for determination of the residues of concern (Memo, S. Piper, 04-FEB-04). See Table 1 for a summary of the residues of concern determined by the MARC.

Table 1. Residues of Concern in Plants, Ruminants and Water		
Matrix	Risk Assessment	Tolerance Expression
Plants	Trifluralin	Trifluralin
Livestock-ruminant	Use TRR from ruminant study	No decision
Rotational Crops	Trifluralin	Trifluralin
Water	Trifluralin, TR-4, TR-6 and TR-15	N/A

Residue Data used for Acute, Chronic, and/or Cancer Assessments:

Adequate field trial data depicting trifluralin residues following applications made according to the maximum or proposed use patterns have been submitted for these commodities. Geographical representation is adequate and a sufficient number of trials reflecting representative formulation classes were conducted. Trifluralin residues were <LOQ in/on all commodities except alfalfa, collards, flax seeds and mint field trials. Anticipated residue estimates are presented in Attachments 1 and 2 of this document.

Total radioactive residues (TRR) in tissue extracts and milk from cattle dosed with [¹⁴C] trifluralin at levels equivalent to 1.5x the revised maximum exposure for 3 days, were 0.003 ppm in muscle, 0.015 ppm in fat, 0.048 ppm in kidney, 0.145 ppm in liver and 0.011 ppm in milk from the cow dosed at 2.8x. These values were used in this dietary assessment and adjusted with percent crop treated for alfalfa (3%CT).

Adequate PDP monitoring data are available for the following commodities: asparagus, barley, green beans, broccoli, cantaloupe, carrots, celery, cherry, grapes, grape juice, oranges, orange juice, nectarines, oats, peaches, peanut butter, potato, sweet peppers, sweet potato, tomato, winter squash and wheat. Only barley [3 detects- 0.005 ppm], broccoli [1 detect- 0.007 ppm], carrots [889 detects- ranging from 0.01- 0.21 ppm] and tomato canned [7 detects- 3 @ 0.025ppm and 4 @ 0.002 ppm] showed detectable residues of trifluralin. A summary of trifluralin PDP monitoring data (2002- 1997) is provided in Attachments 1 and 2.

Also, drinking water assessment was conducted in this dietary exposure assessment for trifluralin and three degradates (TR-4, TR-6 and TR-15). A Tier II (PRZM/EXAMS) modeling was conducted and the water numbers were adjusted for percent cropped of soybeans (0.41). The values to use for drinking water are 0.4 ppb for chronic non-cancer and 0.3 ppb for chronic cancer.

BEAD provided a Screening Level Estimates of Agricultural Uses (SLUA) for trifluralin (J.Alsadek, 12/9/03). The SLUA provides a quick snap shot of pesticide use, by crop. The SLUA averages the total pounds applied to trifluralin and percent of crop treated from 1997 - 2001 (see Attachment 8).

III. Exposure Model and Consumption Information

Several reasonable peer-reviewed programs have been emerging recently for modeling dietary exposure to pesticides. For a variety of technical, historical, and availability reasons, DEEM™

was the program generally used by EPA's Office of Pesticide Programs for conducting its dietary risk assessments. With the advent and current availability of a number of other exposure models, OPP, registrants, and other interested parties have available to them the option of selecting other peer-reviewed models in conducting risk assessments for pesticides. Lifeline™ is one such model, and it has been used to supplement the DEEM analysis conducted to evaluate flumioxazin dietary exposure. Dietary exposure assessments may also be performed with other, similar programs, and if submitted, such analyses will be reviewed by EPA for acceptability and comparability to existing peer-reviewed models being used by OPP.

IIIa. DEEM-FCID™ Program and Consumption Information

Trifluralin acute and chronic dietary exposure assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID™, Version 1.30), which incorporates consumption data from USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1994-1996 and 1998. The 1994-96, 98 data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g. apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups. For an acute exposure assessment data are retained as individual consumption events. Based on analysis of the 1994-96, 98 CSFII consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50+ years old.

For chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form. The resulting residue consumption estimate for each food/food form is summed with the residue consumption estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

For acute exposure assessments, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic exposure assessment, or "matched" in multiple random pairings with residue values and then summed in a probabilistic assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (i.e., those who reported eating relevant commodities/food forms) and a per-capita (i.e., those who reported eating the relevant

commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for all tiers of analysis. However, for tiers 1 and 2, significant differences in user vs. per capita exposure and risk are identified and noted in the risk assessment.

III b. Lifeline™ Program and Consumption Information

Acute, chronic and cancer dietary exposure estimates were also conducted using the Lifeline™ model (Version 2.0). The Lifeline™ assessments were also conducted using the same consumption data as the DEEM-FCID™ (CSFII, 1994-1996 and 1998 consumption data with FCID). Lifeline™ uses the recipe file to relate RACs to foods “as-eaten.” Lifeline™ converts the RAC residues into food residues by randomly selecting a RAC residue value from the “user defined” residue distribution (created from the residue, percent crop treated, and processing factors data), and calculating a net residue for that food based on the ingredients’ mass contribution to that food item. For example, “apple pie” will have a residue distribution based on the residues provided for apples (adjusted by the appropriate processing factors and percent crop treated), as well as the residues for each of the other ingredients in the apple pie recipe for which there may be tolerances. Lifeline™ calculates dietary exposure from “apple pie” based on the amount eaten, and the residue drawn from the “apple pie” residue distribution for that eating occasion.

Lifeline™ models the individual’s dietary exposures over a season by selecting a new CSFII diary each day from a set of similar individuals based on age and season attributes. Lifeline™ groups CSFII diaries based on the respondents’ age and the season during which the food diary was recorded. The Lifeline chronic dietary exposure estimate is based on an average daily exposure from a profile of 1000 individuals over a one year period. Further information regarding the Lifeline™ model can be found at the following web site: www.theLifeline™group.org.

IV. Toxicological Information

On April 17, 2003, the HED Hazard Identification Assessment Review Committee (HIARC) reviewed the recommendations of the toxicology reviewer for trifluralin with regard to the acute and chronic RfDs and the toxicological endpoints selection for use as appropriate in occupational/residential exposure risk assessments. Based on the available data, the CPRC concluded that trifluralin is a “Group C” (limited evidence of carcinogenicity) carcinogen. The Q1* for trifluralin is 5.79×10^{-3} (mg/kg/day)-1 based on male rat thyroid follicular cell tumors combined (EPA memo July 23, 1991, Whang Phang to Ester Rinde). Table 2 is a summary of the toxicology doses and endpoints selected that are relevant to dietary exposure assessment.

**Table 2. Summary of Toxicological Doses and Endpoints for Trifluralin
for Use in Dietary Exposure Assessment**

Exposure Scenario	Dose Used in Risk Assessment, UF	Hazard and Exposure Based Special FQPA Safety Factor	Study and Toxicological Effects
Acute Dietary General US pop. including infants & children	No appropriate single dose endpoint was found for this population subgroup		
Acute Dietary females 13- 50 yrs of age	NOAEL = 100 mg/kg/day UF = 100 Acute RfD = 1 mg/kg/day	FQPA SF = 1 aPAD = 1 mg/kg/day	Developmental Toxicity Study - Rat LOAEL = 500 mg/kg/day based on increased total litter resorptions.
Chronic Dietary <u>all populations</u>	NOAEL= 2.4 mg/kg/day UF = 100 Chronic RfD = 0.024 mg/kg/day	FQPA SF = 1 cPAD = <u>chronic RfD</u> FQPA SF = 0.024 mg/kg/day	Chronic Toxicity (capsule) - Dog LOAEL = 40 mg/kg/day based on based on increased frequency of abnormal stool, decreased body weights and body weight gains, and on decreased erythrocytes and hemoglobin and increased thrombocytes in males
Cancer (oral, dermal, inhalation)	Q1* = 5.79 X 10 ⁻³ (mg/kg/day) ⁻¹ "Group C" (limited evidence of carcinogenicity)		

UF = uncertainty factor, FQPA SF = Special FQPA safety factor, NOAEL = no observed adverse effect level, LOAEL = lowest observed adverse effect level, PAD = population adjusted dose (a = acute, c = chronic) RfD = reference dose, MOE = margin of exposure

NOTE: The Special FQPA Safety Factor recommended by the HIARC **assumes** that the exposure databases (dietary food, drinking water, and residential) are complete and that the risk assessment for each potential exposure scenario includes all metabolites and/or degradates of concern and does not underestimate the potential risk for infants and children.

V. Results/Discussion

As stated above, for acute and chronic assessments, HED is concerned when dietary risk exceeds 100% of the PAD. For both the acute and chronic analyses, the estimated dietary exposures are < 1% of the PAD for all population subgroups, regardless of the model used to estimate exposure. The results reported in Tables 3 and 4 are for the general U.S. Population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, females 13-49 (acute only), adults 20-49, and adults 50+ years. Cancer risk is determined for the general U.S. population only.

Acute and chronic dietary risks were also estimated using the Lifeline™ model (version 2.0). The Lifeline™ model estimated acute exposure based on the acute 1-day dietary dose drawn randomly from an age-specific seasonal exposure profile of 1000 individuals. The Lifeline™ chronic dietary exposure estimate is based on an average daily exposure from a profile of 1000 individuals over a one year period. Results of the Lifeline™ analysis are fully consistent with DEEM-FCID™ results.

Table 3. Results of Acute Dietary Exposure Analysis Using both DEEM FCID and Lifeline Softwares (results on the line below for purposes of comparison)							
Population Subgroup	aPAD (mg/kg/day)	95 th Percentile		99 th Percentile		99.9 th Percentile	
		Exposure (mg/kg/day)	% aPAD	Exposure (mg/kg/day)	% aPAD	Exposure (mg/kg/day)	% aPAD
Females 13-49 yrs	1	0.000051	0.04	0.000104	0.01	0.000262	0.03
		0.000062	0.01	0.000129	0.01	0.000311	0.03

Results of Cancer Dietary Exposure Analysis

The estimated exposure of the general U.S. population to trifluralin is 0.000028 mg/kg/day. Applying the Q_1^* of 5.8×10^{-3} (mg/kg/day)⁻¹ to the exposure value results in a cancer risk estimate of 1.64×10^{-7} (DEEM-FCID) and 1.13×10^{-7} (Lifeline). Therefore, estimated cancer risk is below HED's level of concern.

Table 4. Result of Acute and Chronic Dietary Exposure and Risk Estimates for Trifluralin.					
Population Subgroup	PAD, mg/kg/day	DEEM-FCID		Lifeline	
		Exposure, mg/kg/day	% PAD	Exposure, mg/kg/day	%PAD
Acute Dietary Estimates (99.9th Percentile of Exposure)					
Females 13-49 yrs	1	0.000262	0.03	0.000311	0.03
Chronic Dietary Estimates					
U.S. Population	0.024	0.000030	0.1	0.000019	0.1
All infants (< 1 yr)	0.024	0.000062	0.3	0.000033	0.1
Children 1-2 yrs	0.024	0.000073	0.3	0.000051	0.2
Children 3-5 yrs	0.024	0.000062	0.3	0.000039	0.2

Children 6-12 yrs	0.024	0.000041	0.2	0.000024	0.1
Youth 13-19 yrs	0.024	0.000025	0.1	0.000016	0.1
Adults 20-49 yrs	0.024	0.000025	0.1	0.000017	0.1
Adults 50+ yrs	0.024	0.000025	0.1	0.000017	0.1
Females 13-49 yrs	0.024	0.000024	0.1	0.000017	0.1
Cancer Dietary Estimate					
U.S. Population	0.0058	0.000028	1.64 x10 ⁻⁷	0.000019	1.13 x10 ⁻⁷

VI. Characterization of Inputs/Outputs

In the course of conducting a Tier 3 dietary exposure analysis, decisions are made regarding the following: the residue data used in the analysis (e.g., field trials, monitoring data, etc.) refinements incorporated in such as %CT and processing factors. Characterization of this assessment and associated are:

- The dietary exposure analyses relied on field trial data for several commodities for trifluralin residues in/on food. The use of field trial data provides an upper bound estimate of dietary exposure. Also, the residues of trifluralin in ruminant were only available from the metabolism study and not feeding study. There is some uncertainty associated with the use of total radioactive residues to represent the results.
- Monitoring data were translated to similar crops when possible, generally according to the HED SOP 99.3 “Translation of Monitoring Data” (See Table 5). Also, HED change in classification of food forms with respect to “not blended,” “partially blended,” and “blended” status (HED’s ChemSAC memo, 8/20/1999) was used for refinement. DEEM default processing factors were used when monitoring data were not available.

Table 5. Trifluralin Translation of Monitoring Data

Commodity using PDP Monitoring Data	Commodity Translated to
carrots	chicory, horseradish, parsnip, salsify
celery	endive
orange	citrus citron, grapefruit, lemon, lime, kumquat, tangerine
peach	apricot
squash	okra, pumpkin

Table 5. Trifluralin Translation of Monitoring Data

sweet pepper	eggplant
wheat	rye

VII. Conclusions

Acute, chronic and cancer dietary risk assessments were conducted using the Dietary Exposure Evaluation Model (DEEM-FCID) and the Lifeline Model. The acute dietary risk estimates are below the Agency's level of concern at the 99.9th percentile for females 13-49 years of age (<1% aPAD), the population subgroup of concern. For the chronic dietary assessment, all population subgroups have risk estimates which are below Agency's concern (<1% cPAD). The cancer risk estimate associated with the exposure of trifluralin is 1.64×10^{-7} (DEEM-FCID) and 1.13×10^{-7} (Lifeline) for the general U.S. population, and is below the Agency's level of concern.

VIII. List of Attachments

- Anticipated Residues Summary Table for Trifluralin (pgs 11-39)
- Acute Residue Distribution Files for Trifluralin and Chronic Point Estimate (pgs 40-44)
- Acute Food Residue Input file (pgs 44-52)
- Acute Results file (pg 53)
- Chronic/Cancer Food & Water Residue Input file (pgs 53-60)
- Chronic Results file (pg 61)
- Cancer Results file (pg 62)
- SLUA (%CT) Memo from BEAD (pg 63)

IX. Appendix

- Additional data for alfalfa and carrots

cc: S.Piper, CEB Reading File, W. Cutchin

RDI: DeSAC //04; DMiller //04

7509C: CEB: CM-2: Rm 810F: 308-2717: Trifluralin

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Trifluralin
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Attachment 1. Anticipated Residues Summary Table for Trifluralin

Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Alfalfa	11-uncooked (B)	FT (MRID 44117801)	40	37 (0.02- 2.21ppm)	0.01	3	0.010	0.010
Almonds	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 18-Dried 41-Frozen NFS	FT (MRIDs 00105675; 00105726)	31	0	0.01	3	RDF 1	0.00015
Apricot juice	11-Uncooked (PB) 12-Cooked: NFS 31-Canned: NFS 42-Frozen: Cooked	2000 single serving peach PDP	534	0	0.001	100	0.001	0.001
Apricot	11-Uncooked (NB) 12-Cooked: NFS 14-Boiled	2002, 2001 & 2000 peach PDP	1628	0	0.001	100	0.001	0.001
	31-Canned: NFS (PB) 34-Canned: Boiled	2000 single serving peach PDP	534	0	0.001	100	0.001	0.001
Apricots-dried	13-Baked (PB) 14-Boiled 18-Dried	2002, 2001 & 2000 peach PDP	1628	0	0.001	100	0.001	0.001

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Asparagus	11-Uncooked (NB) 14-Boiled	2002 asparagus PDP	708	0	0.016	25	RDF 2	0.002
	32-Canned: Cooked (PB) 42-Frozen: Cooked	2002 asparagus PDP	708	0	0.016	25	RDF 2	0.002
Barley, grain	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 32-Canned: Cooked 34-Canned: Boiled 99-Alcohol/Ferment Distilled	2002 barley PDP	725	3 @ 0.005ppm	0.003	5	RDF 3	0.0001
Beans-dry	12-Cooked: NFS (B) 13-Baked 14-Boiled 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked	dried beans FT (MRID 00105669)	32	0	0.01	30	0.0015	0.0015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Beans-succulent	11-Uncooked (PB) 12-Cooked: NFS 14-Boiled 31-Canned:NFS	2001 & 2000 green .bean PDP	903	0	0.046	35	RDF 4	0.007
	32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked 44-Frozen: Boiled 51-Cured: NFS	1998 green bean canned frozen PDP	359	0	0.026	35	RDF 5	0.0035
Beans-Guar	13-Baked (B)	guar bean FT (MRID 00105670)	9	0	0.01	30	0.0015	0.0015
Beans-Mung	11-Uncooked (B) 12-Cooked 14-Boiled 15-Fried	mung bean FT (MRID 00105670)	4	0	0.01	100	0.005	0.005
Beets, garden (roots/tops)	11-Uncooked (PB) 14-Boiled 31-Canned: NFS 32-Canned: Cooked 51-Cured: NFS	s. beets FT (MRIDs 00105757; 00105648; 00105666; 00105648)	30	0	0.01	5	RDF 6	0.00025
	11-Uncooked (PB) 14-Boiled	s. beets FT (MRIDs 00105757; 00105648; 00105666; 00105648)	30	0	0.01	5	RDF 6	0.00025

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Brazil Nuts	11-Uncooked (PB) 13-Baked 14-Boiled 16-Pasteurized	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Broccoli	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	2002 & 2001 broccoli PDP	1457	1 @ 0.007ppm	0.008	10	RDF 8	0.0004
	32-Canned: Cooked (PB) 42-Frozen: Cooked 44-Frozen: Boiled	2002 & 2001 broccoli PDP	1457	1 @ 0.007ppm	0.008	10	RDF 8	0.0004
Brussel Sprouts	14-Boiled (PB) 42-Frozen: Cooked	b. sprouts FT (MRID 00105749)	5	0	0.01	100	0.005	0.005
Cabbage	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	cabbage FT (MRIDs 00105749 & 00105650)	29	2 (0.01- 0.011ppm)	0.01	45	RDF 9	0.005
	31-Canned: NFS (PB) 32-Canned: Cooked 51-Cured: NFS (smoked/pickled/	cabbage FT (MRIDs 00105749 & 00105650)	29	2 (0.01- 0.011ppm)	0.01	45	RDF 9	0.005

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Carrots	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled	2002, 2001& 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	55	RDF 10	0.013
	31-Canned: NFS (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked 44-Frozen: Boiled	2002, 2001 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	55	RDF 10	0.013
Cashews	11-Uncooked (PB) 13-Baked 14-Boiled	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Cauliflower	11-Uncooked (NB) 12-Cooked: NFS 14-Boiled 15-Fried	cauliflower FT (MRID 00105749)	9	0	0.01	10	RDF 12	0.0005
	42-Frozen: Cooked	cauliflower FT (MRID 00105749)	9	0	0.01	10	RDF 12	0.0005
Celery	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	20002 & 2001 celery PDP	1473	0	0.03	10	RDF 13	0.0015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
	31-Canned: NFS (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked	20002 & 2001 celery PDP	1473	0	0.03	10	RDF 13	0.0015
Celery Juice	31-Canned: NFS (PB)	20002 & 2001 celery PDP	1473	0	0.03	10	RDF 13	0.0015
Cherries	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 31-Canned: NFS 33-Canned: Baked 41-Frozen: NFS	2001 & 2000 cherry PDP	561	0	0.005	100	0.0025	0.0025
Cherries-dried	Cherries dried (PB)	2001 & 2000 cherry PDP	561	0	0.005	100	0.0025	0.0025
Cherries-juice	13-Baked (PB) 14-Boiled 31-Canned: NFS 41-Frozen: NFS	2001 & 2000 cherry PDP	561	0	0.005	100	0.0025	0.0025
Chestnuts	12-Cooked: NFS (PB) 13-Baked	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Chicory	11-Uncooked (NB)	2002 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	100	0.024	0.024

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Citrus Citron	13-Baked (PB) 14-Boiled	2001 & 2000 orange PDP	1489	0	0.02	3	RDF 14	0.00015
Collards	14-Boiled (PB) 32-Canned: Cooked 42-Frozen: Cooked	collard FT (MRID 00105724)	23	2 (0.01- 0.014ppm)	0.01	35	RDF 15	0.004
Corn grain-endosperm	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 41-Frozen: NFS 42-Frozen: Cooked 43-Frozen: Baked 45-Frozen: Fried 99-Alcohol/Ferment Distilled	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Corn grain-oil	98-Refined (B)	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Corn grain-bran	12-Cooked: NFS (B) 13-Baked 14-Boiled 15-Fried 31-Canned: NFS	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Corn grain/sugar- molasses	12-Cooked: NFS (B) 41-Frozen: NFS	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Corn grain/sugar/hfcs	98-Refined (B)	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Corn, pop	12-Cooked: NFS (B) 13-Baked	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Cottonseed-meal	42-Frozen: Cooked (B)	cottonseed FT (MRID 42354501)	3	1 @ 0.015ppm	0.01	45	0.007	0.007
Cottonseed-oil	98-Refined (B)	cotton FT (MRID 42354501)	3	1 @ 0.015ppm	0.01	45	0.007	0.007
Cucumber	11-Uncooked (NB)	2002, 2000, 1999 cucumber PDP	1650	0	0.014	5	RDF 16	0.0005
	34-Canned: Boiled (PB) 60-Canned: Cured	2002, 2000, 1999 cucumber PDP	1650	0	0.014	5	RDF 16	0.0005
Eggplant	12-Cooked: NFS (NB) 13-Baked 14-Boiled 15-Fried	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	100	0.02	0.02
Endive (escarole)	11-Uncooked (PB) 12-Cooked: NFS	20002 & 2001celery PDP	1473	0	0.03	100	0.015	0.015
Filberts	11-Uncooked (PB) 13-Baked 14-Boiled	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Flax seed	98-Refined (B)	flax FT (MRID 00084581)	9	7 @ 0.04ppm	0.01	100	0.04	0.04
Garlic	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	green onion FT (MRID 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004
	31-Canned: NFS (PB) 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 42-Frozen: Cooked 51-Cured: NFS (smoked/pickled) 52-Cured: Cooked (smoked/pickled)	green onion FT (MRID 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004
Grapes	11-Uncooked (PB) 12-Cooked: NFS 31-Canned: NFS 41-Frozen: NFS	2001 & 2000 grape PDP	1445	0	0.03	3	RDF 17	0.00045
Grapes-juice	11-Uncooked (PB) 12-Cooked: NFS 14-Boiled 31-Canned: NFS 34-Canned: Boiled 41-Frozen: NFS	1999 & 1998 grape juice PDP	1357	0	0.03	3	RDF 18	0.00045

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						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Grapes-juice- concentrate	12-Cooked: NFS (PB) 13-Baked 14-Boiled 31-Canned: NFS 41-Frozen: NFS	1999 & 1998 grape juice PDP	1357	0	0.03	3	RDF 18	0.00045
Grapes-leaves	14-Boiled (PB)	1999 & 1998 grape PDP	1445	0	0.03	3	RDF 17	0.00045
Grapes-raisins	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 18-Dried 42-Frozen:Cooked	1999 & 1998 grape PDP	1364	0	0.03	3	RDF 17	0.00045
Grapes-wine & sherry	99- Alcohol/Fermented/ Distilled (PB)	1999 & 1998 grape PDP	1364	0	0.03	3	RDF 17	0.00045
Grapefruit peel	Grapefruit peel (PB)	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015
Grapefruit-juice	11-Uncooked (PB) 31-Canned: NFS	2001 & 2000 orange juice PDP	1392	0	0.02	3	RDF 19	0.0003
Grapefruit-juice- concentrate	41-Frozen: NFS (PB)	2001 & 2000 orange juice PDP	1392	0	0.02	3	RDF 19	0.0003
Grapefruit-peeled fruit	11-Uncooked (NB) 12-Cooked: NFS	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015
	31-Canned: NFS (PB)	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Hickory Nuts	11-Uncooked (PB)	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Hops	99-Alcohol/ Fermented/ Distilled (B)	hop FT (MRID 00105678)	18	0	0.01	5	0.00025	0.00025
Horseradish	12-Cooked: NFS (NB) 14-Boiled	2002 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	100	0.024	0.024
	34-Canned: Boiled (PB) 51-Cured: NFS (smoked/pickled/)	2002 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	100	0.024	0.024
Kale	12-Cooked: NFS (PB) 14-Boiled 32-Canned: Cooked	kale FT (MRID 00105724)	13	0	0.01	25	RDF 21	0.0013
Kohlrabi	14-Boiled (NB)	cabbage FT (MRIDs 00105749; 00105650)	26	0	0.01	100	0.005	0.005
Kumquats	Kumquats (PB)	2001 & 2000 orange PDP	1489	0	0.02	3	RDF 14	0.00015
Leeks	11-Uncooked (NB) 12-Cooked: NFS	green onion FT (MRID 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Lemons-juice	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 32-Canned: Cooked 34-Canned: Boiled 41-Frozen: NFS 42-Frozen: Cooked	2001 & 2000 orange juice PDP	1392	0	0.02	5	RDF 23	0.0005
Lemons-juice- concentrate	12-Cooked: NFS (PB) 13-Baked 14-Boiled 31-Canned: NFS 34-Canned: Boiled 41-Frozen: NFS	2001 & 2000 orange juice PDP	1392	0	0.02	5	RDF 23	0.0005
Lemons-peel	11-Uncooked (PB) 13-Baked 14-Boiled 31-Canned: NFS 34-Canned: Boiled 41-Frozen: NFS	2001 & 2000 orange PDP	1489	0	0.01	5	RDF 22	0.00025
Lemons-peeled fruit	11-Uncooked (NB) 12-Cooked: NFS 31-Canned: NFS (PB)	2001 & 2000 orange PDP	1489	0	0.01	5	RDF 22	0.00025
Lentils	14-Boiled (B)	dried bean FT (MRID 00105669)	32	0	0.01	30	0.0015	0.0015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Limes-juice	11-Uncooked (PB) 31-Canned: NFS 32-Canned: Cooked 34-Canned: Boiled 41-Frozen: NFS	2001 & 2000 orange PDP	1489	0	0.02	5	RDF 23	0.0005
Limes-juice- concentrate	12-Cooked: NFS (PB) 41-Frozen: NFS	2001 & 2000 orange PDP	1489	0	0.02	5	RDF 23	0.0005
Limes-peel	13-Baked (PB) 14-Boiled	2001 & 2000 orange PDP	1489	0	0.01	5	RDF 22	0.00025
Limes-peeled fruit	11-Uncooked (NB)	2001 & 2000 orange PDP	1489	0	0.01	5	RDF 22	0.00025
Macadamia nuts	13-Baked (PB)	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Melons- cantaloupe juice	11-Uncooked (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Melons- cantaloupe pulp	11-Uncooked (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Melons - Casaba	11-Uncooked (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Melons - Crenshaw	Crenshaw (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Melons-honeydew	11-Uncooked (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	5	RDF 20	0.001
Melons-persian	Persian (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Melon-bitter	12-Cooked: NFS (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Melon-watermelon	11-Uncooked (NB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
	watermelon juice (PB)	2000 & 1999 PDP Cantaloupe	1231	0	0.03	15	RDF 11	0.002
Mustard greens	14-Boiled (PB)	m greens FT (MRID 00105724)	19	0	0.01	25	RDF 43	0.001
Mustard seeds	11-Uncooked (B) 12-Cooked: NFS 42-Frozen: Cooked	m. seed FT (MRIDs 000105724 42430801)	5	0	0.01	100	0.005	0.005
Nectarines	11-Uncooked (NB)	2001 & 2000 nectarine PDP	704	0	0.01	3	RDF 24	0.00015
Oats	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned:NFS	1999 oats PDP	332	0	0.007	100	0.0035	0.0035
Oats-bran	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	1999 oats PDP	332	0	0.007	100	0.0035	0.0035

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Okra	12-Cooked: NFS (NB) 14-Boiled 15-Fried	1999 & 1998 w. squash PDP	776	0	0.02	20	RDF 25	0.002
	32-Canned: Cooked (PB) 42-Frozen: Cooked 44-Frozen: Boiled	1999 & 1998 w. squash frozen PDP	249	0	0.04	20	RDF 25	0.004
Onions- dehydrated/dried	12-Cooked: NFS (B) 13-Baked 14-Boiled 15-Fried 31-Canned: NSF 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked	green onion FT (MRIDs 000105724; 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	0.0004	0.0004
Onions-dry bulb	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NSF (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked 43-Frozen: Baked 44-Frozen: Boiled 60-Canned: Cured	green onion FT (MRIDs 000105724; 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Onions-green	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NSF 32-Canned: Cooked	green onion FT (MRIDs 000105724; 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004
Oranges-juice	11-Uncooked (PB) 12-Cooked: NFS 31-Canned: NFS 41-Frozen: NFS	1998 & 1997 OJ PDP	1392	0	0.02	3	RDF 19	0.0003
Oranges-juice- concentrate	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 31-Canned: NFS 41-Frozen: NFS 42-Frozen: Cooked	1998 & 1997 OJ PDP	1392	0	0.02	3	RDF 19	0.0003
Oranges-peel	11-Uncooked (PB) 12-Cooked: NFS 31-Canned: NFS 41-Frozen: NFS	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015
Oranges-peeled fruit	11-Uncooked (NB) 12-Cooked: NFS	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015
	31-Canned: NFS (PB)	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Parsnip	14-Boiled (NB)	2002 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	100	0.024	0.024
Pecan	11-Uncooked 13-Baked 14-Boiled	Pecan FT (MRID 00105675)	11	0	0.01	3	RDF 7	0.00015
Peaches	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled	2002, 2001 & 2000 peach PDP	1628	0	0.001	3	RDF 28	0.000015
	31-Canned: NFS (PB) 41-Frozen: NFS	2000 peach single serving PDP	534	0	0.001	3	RDF 27	0.000015
Peaches-dried	14-Boiled (PB) 18-Dried	2002, 2001 & 2000 peach PDP	1628	0	0.001	3	RDF 28	0.000015
Peaches-juice	11-Uncooked (PB) 31-Canned: NFS	2002, 2001 & 2000 peach PDP	1628	0	0.001	3	RDF 28	0.000015
Peanut-butter	13-Baked (B) 14-Boiled	2000 peanut butter PDP	716	0	0.013	10	RDF 29	0.001
Peanut-hulled	12-Cooked:NFS (B) 13-Baked 14-Boiled 15-Fried	2000 peanut butter PDP	716	0	0.013	10	RDF 29	0.001
Peanut-oil	98-Refined (B)	2000 peanut butter PDP	716	0	0.013	10	RDF 29	0.001

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						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Peas-succulent/ black-eyed	12-Cooked: NFS (B) 14-Boiled 32-Canned: Cooked 42-Frozen: Cooked	2002 & 2001 canned peas PDP	914	0	0.016	30	RDF 26	0.003
Peas (garden)-green	11-Uncooked (PB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	2002 & 2001 canned peas PDP	914	0	0.016	30	RDF 26	0.003
	31-Canned: NFS (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked 44-Frozen: Boiled 45-Frozen: Fried	2002 & 2001 canned peas PDP	914	0	0.016	30	RDF 26	0.003
Peas (garden)-dry	12-Cooked: NFS (B) 14-Boiled 32-Canned: Cooked 34-Frozen: Boiled	dry peas FT (MRIDs 00105755; 00105669)	12	0	0.01	15	0.002	0.001
Peppermint	Peppermint (B)	FT (MRIDs 000105683; 43850301)	32	16 (0.011- 0.03ppm)	0.01	3	0.002	0.0004
Peppermint-oil	14-Boiled (B)	FT (MRIDs 000105683; 43850301)	32	16 (0.011- 0.03ppm)	0.01	3	0.0004	0.0004

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Peppers-chilli incl jalapeno	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005
Peppers-chilli incl jalapeno	31-Canned: NFS (PB) 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 42-Frozen: Cooked 51-Cured: NFS (smoked/pickled/ 52-Cured: Cooked smokd/pickl 60-Canned: Cured	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005
Peppers-sweet (garden)	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005
	31-Canned: NFS (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked 51-Cured: NFS (smoked/pickled	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005
Peppers - Other	11-Uncooked (NB)	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005

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						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Pimientos	12-Cooked: NFS (NB) 14-Boiled 31-Canned: NFS (PB) 60-Canned: Cured	2002, 2000 & 1999 sweet pepper PDP	1639	0	0.036	25	RDF 30	0.005
Pistachio nuts	11-Uncooked (PB) 12-Cooked:NFS 13-Baked	almond FT (MRID 00105675; 00105726)	31	0	0.01	3	RDF 1	0.00015
Plums	11-Uncooked (NB) 12-Cooked: NFS 31-Canned: NFS (PB) 42-Frozen: Cooked 51-Cured	plums FT (MRIDs 00105675; 00105735)	28	0	0.01	3	RDF 31	0.00015
Plums/prune juice	11-Uncooked (PB) 31-Canned: NFS	plums FT (MRIDs 00105675; 00105735)	28	0	0.01	3	RDF 31	0.00015
Plums-prunes Dried	13-Baked (PB) 14-Boiled 18-Dried 31-Canned: NFS	plums FT (MRIDs 00105675; 00105735)	28	0	0.01	3	RDF 31	0.00015
Potatoes/white-dry	12-Cooked: NFS (B) 14-Boiled 15-Fried 31-Canned: NFS 34-Canned: Boiled 42-Frozen: Cooked	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025

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						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Potatoes/white-peel only	13-Baked (NB) 15-Fried	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025
Potatoes/white-peel	12-Cooked: NFS (NB) 13-Baked 14-Boiled 15-Fried	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025
	32-Canned: Cooked (PB) 34-Canned: Boiled 42-Frozen: Cooked 43-Frozen: Baked 45-Frozen: Fried	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025
	Potatoes/white- unspecified	31-Canned: NFS (PB)	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32
Potatoes/white- whole	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025
	31-Canned: NFS	2002, 2001 & 2000 potato PDP	1472	0	0.01	5	RDF 32	0.00025
Pumpkins	12-Cooked: NFS (NB) 13-Baked 14-Boiled 15-Fried	1999 & 1998 w. squash PDP	776	0	0.02	5	RDF 33	0.0005

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
	33-Canned: Baked (PB) 34-Canned: Boiled	1999 & 1998 w. squash PDP	776	0	0.02	5	RDF 33	0.0005
Radishes	11-Uncooked (PB) 12-Cooked: NFS	radish FT (MRID 42430802)	12	5 (0.021- 0.026ppm)	0.01	10	RDF 43	0.002
Radish-oriental	12-Cooked: NFS (NB) Radishes-oriental	radish FT (MRID 42430802)	12	5 (0.021- 0.026ppm)	0.01	10	RDF 43	0.002
Rapeseed (canola oil)	96- Refined	rapeseed FT (MRID 00047639)	24	0	0.05	100	0.025	0.025
Rutabagas	Rutabagas-roots (NB) tops 12-Cooked (PB)	radish FT (MRID 42430802)	12	5 (0.021- 0.026ppm)	0.01	10	RDF 43	0.002
Rye-flour	13-Baked (B)	1997 wheat PDP	623	0	0.007	35	0.0035	0.001
Rye-germ	13-Baked (B)	1997 wheat PDP	623	0	0.007	35	0.0035	0.001
Rye-rough	12-Cooked:NFS (B) 13-Baked	1997 wheat PDP	623	0	0.007	35	0.0035	0.001
Safflower	98-Refined (B)	safflower FT (MRIDs 00105726; 00105750)	28	0	0.01	60	0.003	0.003
Salsify	Salsify (oyster plant) NB	2002 & 2000 carrot PDP	1477	888 (0.002- 0.21ppm)	0.005	100	0.024	0.024

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Shallots	Shallots (NB)	green onion FT (MRIDs 00105724; 42448202)	21	2 (0.012- 0.016ppm)	0.01	3	RDF 42	0.0004
Sorghum	14-Boiled (B)	f. corn FT (MRIDs 42448201; 00032811; 00105697)	15	0	0.01	3	0.00015	0.00015
Soybeans-flour	12-Cooked:NFS (B) 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 34-Canned:Boiled 42-Frozen:Cooked 98-Refined	soybean FT (MRIDs 00105717; 00105655; 00104423; 00128308; 00030932)	35	0	0.01	15	0.00075	0.00075
Soybean-mature seeds dry	12-Cooked: NFS (B) 13-Baked 14-Boiled 15-Fried 41-Frozen:NFS	soybean FT (MRIDs 00105717; 00105655; 00104423; 00128308; 00030932)	35	0	0.01	15	0.00075	0.00075
Soybean-oil	98-Refined (B)	soybean FT (MRIDs 00105717; 00105655; 00104423; 00128308; 00030932)	35	0	0.01	15	0.00075	0.00075

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Soybean-protein isolate	12-Cooked:NFS (B) 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 33-Canned: Baked 34-Canned:Boiled 41-Frozen:NFS 42-Frozen:Cooked 51-Cured: NFS	soybean FT (MRIDs 00105717; 00105655; 00104423; 00128308; 00030932)	35	0	0.01	15	0.00075	0.00075
Spearmint	Spearmint (B) Spearmint-oil	FT (MRIDs 000105683; 43850301)	32	16 (0.011- 0.03ppm)	0.01	3	0.0004	0.0004
Squash, winter	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled	1999 & 1998 w. squash PDP	776	0	0.02	5	RDF 34	0.001
Squash, summer	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	1999 & 1998 w. squash PDP	776	0	0.02	5	RDF 34	0.001
	34-Canned: Boiled (PB) 42-Frozen: Cooked 51-Cured: NFS (smoked/pickled/	1999 & 1998 frozen w. squash PDP	249	0	0.04	5	RDF 35	0.001

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Sugar-Beets	98-Refined (B)	s. beets FT (MRIDs 00105757; 00105648; 00105666; 00105648)	30	0	0.01	5	0.00025	0.00025
Sugar Beet-molasses	98-Refined (B)	s. beets FT (MRIDs 00105757; 00105648; 00105666; 00105648)	30	0	0.01	5	0.00025	0.00025
Sugar cane	98-Refined (B) molasses 13-Baked	s. cane FT (MRIDs 00105674; 00105668)	56	0	0.01	10	0.0005	0.0005
Sunflower-oil	98-Refined (B)	sunflower FT (MRID 00105673)	22	0	0.01	30	0.00015	0.00015
Sunflower seeds	13-Baked (B)	sunflower FT (MRID 00105673)	22	0	0.01	30	0.00015	0.00015
Sweet potatoes	12-Cooked: NFS (NB) 13-Baked 14-Boiled 15-Fried	1998 & 1997 sweet potato PDP	1052	0	0.02	5	RDF 36	0.0005
	32-Canned: Cooked (PB) 34-Canned: Boiled	1998 & 1997 sweet potato PDP	1052	0	0.02	5	RDF 36	0.0005
Tangerine	11-Uncooked (NB) 31-Canned: NFS (PB) 41-Frozen: NFS	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Tangerines-juice	11-Uncooked (PB) 31-Canned: NFS 41-Frozen: NFS	2001 & 2000 orange PDP	1392	0	0.02	3	RDF 19	0.0003
Tangelo	Tangelos (NB)	2001 & 2000 orange PDP	1489	0	0.01	3	RDF 14	0.00015
Tomato -Catsup	34-Canned: Boiled (PB)	2000 & 1999 tomato canned PDP	737	7 4 @ 0.002 3 @ 0.025ppm	0.02	50	RDF 38	0.005
Tomatoes-dried	12-Cooked: NFS (PB) 15-Fried	1999 & 1998 tomato fresh PDP	1078	0	0.03	50	RDF 37	0.0075
Tomatoes-juice	31-Canned: NFS (PB) 32-Canned: Cooked 34-Canned: Boiled 42-Frozen: Cooked	2000 & 1999 tomato canned PDP	737	7 4 @ 0.002 3 @ 0.025ppm	0.02	50	RDF 38	0.005
Tomatoes-paste	14-Boiled (PB) 31-Canned: NFS 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 42-Frozen: Cooked	2001 tomato paste PDP	369	0	0.02	50	RDF 39	0.005

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Tomatoes-puree	12-Cooked: NFS (PB) 14-Boiled 31-Canned: NFS 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 42-Frozen: Cooked	2000 & 1999 tomato canned PDP	737	7 4 @ 0.002 3 @ 0.025ppm	0.02	50	RDF 38	0.005
Tomatoes-whole	11-Uncooked (NB) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried	1999 & 1998 tomato fresh PDP	1078	0	0.03	50	RDF 37	0.0075
Tomatoes-whole	31-Canned: NFS (PB) 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 42-Frozen: Cooked	2000 & 1999 tomato canned PDP	737	7 4 @ 0.002 3 @ 0.025ppm	0.02	50	RDF 37	0.005
Turnip-roots	11-Uncooked (NB) 12-Cooked: NFS 14-Boiled	radish FT (MRID 42430802)	12	5 (0.021- 0.026ppm)	0.01	10	RDF 43	0.002
Turnip-tops	14-Boiled (PB) 32-Canned: Cooked 44-Frozen: Boiled	collard FT (MRID 00105724)	23	2 (0.01- 0.014ppm)	0.01	35	RDF 15	0.0042
Walnut oil	walnut oil (B)	walnut FT (MRID 00105675)	11	0	0.01	3	0.00015	0.00015

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Walnuts	11-Uncooked (PB) 12-Cooked: NFS 13-Baked	walnut FT (MRID 00105675)	11	0	0.01	3	RDF 40	0.00015
Wheat-flour	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled 15-Fried 31-Canned: NFS 32-Canned: Cooked 33-Canned: Baked 34-Canned: Boiled 41-Frozen: NFS 42-Frozen: Cooked 43-Frozen: Baked 45-Frozen: Fried 52-Cured: Cooked- smokd/pickl d	1997 wheat PDP	623	0	0.007	35	RDF 41	0.001
Wheat-bran	11-Uncooked (B) 12-Cooked: NFS 13-Baked	1997 wheat PDP	623	0	0.007	35	RDF 41	0.001
Wheat-germ	12-Cooked: NFS (B) 13-Baked 14-Boiled	1997 wheat PDP	623	0	0.007	35	RDF 41	0.001
Wheat-germ oil	13-Baked (B)	1997 wheat PDP	623	0	0.007	35	RDF 41	0.001

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Commodity	DEEM Food Form/ (Classification ¹)	Data Source	No. of Samples	No. of Detectable Residues	LOD (ppm)	% CT	Anticipated Residue Estimates/Tolerance	
						SLUA ²	Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Wheat-rough	11-Uncooked (B) 12-Cooked: NFS 13-Baked 14-Boiled	1997 wheat PDP	623	0	0.007	35	RDF 41	0.001

¹ Change in Classification of Food Forms With Respect to “Not Blended (NB),” “Partially Blended (PB),” and “Blended (B)” Status, HED’s ChemSAC memo, 8/20/1999.
² SLUA=Screening Level Usage Assessment

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Table 2. Acute Residue Distribution Files for Trifluralin and Chronic Point Estimate

Alfalfa (Blended) FT- 3% CT 28 samples/ 27 detects 'see appendix for detects' Average Residue= 0.46 Acute AR= 0.014	RDF1: 'Almonds FT (PB) '3% CT 31 samples/ 0 detects TOTALZ=1002 TOTALNZ=31 31, 0.005	Apricot (Peach PDP data) '100% CT 534 samples/0 detects ½ LOD=0.001 Acute AR= 0.001	RDF2: 'Asparagus PDP data '25 % CT 708 samples/ 0 detects TOTALZ=531 TOTALLOD=177 LODRES=0.008
Chronic AR=0.46 x 0.03= 0.014	Chronic AR=0.005 x 0.03= 0.00015	Chronic AR=0.001	Chronic AR=0.008 x 0.25= 0.002
RDF3: 'Barley PDP data (Blended) 5%CT 725 samples/ 3 detects TOTALZ=689 TOTALLOD=33 LODRES=0.0015 0.005 0.005 0.005	Beans-dry (Blended) FT- 30%CT 32 samples/0 detects ½ LOD=0.005 Acute AR=0.005	RDF4: Beans-green succl PDP data 35% CT 903 samples/ 0 detects TOTALZ=587 TOTALLOD=316 LODRES=0.02	RDF5: 'Beans-green frozen PDP data 35% CT 359 samples/ 0 detects TOTALZ=233 TOTALLOD=126 LODRES=0.01
Chronic AR=0.0645/ 725= 0.0001	Chronic AR=0.005 x 0.30= 0.0015	Chronic AR=0.02 x 0.35= 0.007	Chronic AR=0.01 x 0.35= 0.0035
Beans-Guar (Blended) FT- 30%CT 9 samples/0 detects ½ LOD=0.005 Acute AR= 0.005	Beans-Mung (Blended) FT- 100%CT 4 samples/0 detects ½ LOD=0.005 Acute AR= 0.005	RDF6: 'Garden Beets FT '5% CT 30 samples/ 0 detects TOTALZ=570 TOTALNZ=30 30, 0.005	'RDF7: Nuts Pecan FT (brazil, cashew, chestnut, filbert, hickory,) '3% CT 11 samples/ 0 detects TOTALZ=356 TOTALNZ=11 11, 0.005
Chronic AR=0.005 x 0.30= 0.0015	Chronic AR=0.005	Chronic AR=0.005 x 0.05= 0.00025	Chronic AR=0.005 x 0.03= 0.00015
RDF8: 'Broccoli PDP data 10%CT 1457 samples/ 1 detect TOTALZ=1311 TOTALLOD=145 LODRES=0.004 0.007	Brussel Sprouts FT- 100%CT 5 samples/0 detects ½ LOD=0.005 Acute AR= 0.005	RDF9: 'Cabbage FT '45% CT 29 samples/ 2 detects TOTALZ=35 TOTALNZ=29 27, 0.005 0.010 0.011	RDF10: 'Carrots PDP data '55% CT 1477 samples/ 889 detects TOTALZ=588 TOTALNZ=889 'See Appendix for detects'
Chronic AR=0.587/ 1457= 0.0004	Chronic AR=0.005	Chronic AR=0.01 x 0.45= 0.005	Chronic AR=0.024 x 0.55= 0.013

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RDF12: 'Cauliflower FT '10% CT 9 samples/ 0 detects TOTALZ=81 TOTALNZ=9 9, 0.005	RDF13: 'Celery PDP data 10% CT 1473 samples/ 0 detects TOTALZ=1326 TOTALLOD=147 LODRES=0.015	Cherries PDP data 100% CT 561 samples/ 0 detects ½ LOD= 0.0025 Acute AR=0.0025	RDF15: 'Collards FT '35% CT 23 samples/ 2 detect TOTALZ=43 TOTALNZ=23 21, 0.005 0.01 0.014
Chronic AR=0.005 x 0.10= 0.0005	Chronic AR=0.015 x 0.10= 0.0015	Chronic AR=0.0025	Chronic AR=0.012 x 0.35= 0.004
Corn-field (Blended) FT- 3%CT 15 samples/0 detects ½ LOD=0.005 Acute AR= 0.005	Cottonseed (Blended) 45% CT 3 samples/1 detect @ 0.015 Average Residue=0.015 Acute AR=0.007	RDF16: 'Cucumber PDP data 5 %CT 1650 samples/ 0 detects TOTALZ=1567 TOTALLOD=83 LODRES=0.01	Eggplant (S.Pepper PDP data) 100%CT 1639 samples/ 0 detects ½ LOD= 0.02 Acute AR= 0.02
Chronic AR=0.005 x 0.03= 0.00015	Chronic AR=0.015 x 0.45= 0.007	Chronic AR=0.01 x 0.05= 0.0005	Chronic AR=0.02
Endive (Celery PDP data) 100%CT 1473 samples/ 0 detects ½ LOD= 0.015 Acute AR= 0.015	Flax Seeds 100%CT 9 samples/ 7 detects @ 0.04 Acute AR= 0.04	RDF17: 'Grapes PDP data 3 %CT 1445 samples/ 0 detects TOTALZ=1402 TOTALLOD=43 LODRES=0.015	RDF18: 'Grape Juice PDP data 3%CT 1357 samples/ 0detects TOTALZ=1316 TOTALLOD=41 LODRES=0.015
Chronic AR=0.015	Chronic AR=0.04	Chronic AR=0.015 x 0.03= 0.00045	Chronic AR=0.015 x 0.03= 0.00045
RDF14: ' Orange PDP data (citrus, grapefruit, kumquats,tangerines) 3%CT 1489 samples/ 0 detects TOTALZ=1444 TOTALLOD=45 LODRES=0.005	'RDF19: Orange Juice PDP data (grapefruit juice) 3%CT 1392 samples/ 0 detects TOTALZ=1350 TOTALLOD=42 LODRES=0.01	Hops (Blended) FT- 5%CT 18 samples/ 0 detects ½ LOD=0.005 Acute AR= 0.005	Horseradish (Carrot PDP data) 100%CT 1477 samples/ 889 detects Acute AR= 0.024
Chronic AR=0.005 x 0.03= 0.00015	Chronic AR=0.01 x 0.03= 0.0003	Chronic AR=0.005 x 0.05= 0.00025	Chronic AR=0.024
RDF21: 'Kale FT data '25% CT 13 samples/ 0 detects TOTALZ=39 TOTALNZ=13 13, 0.005	Kohlrabi (cabbage FT data) 100% CT 26 samples/ 0 detects ½ LOD=0.005 Acute AR=0.005	RD22: 'Lemon (orange PDP data) 5% CT 1489 samples/ 0 detects TOTALZ=1415 TOTALLOD=74 LODRES=0.005	RDF23: 'Lemon juice (OJ PDP data) 5%CT 1392 samples/ 0 detects TOTALZ=1322 TOTALLOD=70 LODRES=0.01

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Chronic AR=0.005 x 0.25=0.0013	Chronic AR=0.005	Chronic AR=0.005 x 0.05=0.00025	Chronic AR=0.01 x 0.05=0.0005
RDF11: 'Melon (cantaloupe PDP data) all melons except honeydew 15%CT 1231 samples/ 0 detects TOTALZ=1046 TOTALLOD=185 LODRES=0.015	RDF20: 'Melon-honeydew (cantaloupe PDP data) 5%CT 1231 samples/ 0 detects TOTALZ=1169 TOTALLOD=62 LODRES=0.015	RDF43: Mustard Greens FT- 25%CT 19 samples/ 0 detects TOTALZ=57 TOTALNZ=19 19, 0.005	RDF24: 'Nectarine PDP data 3%CT 704 samples/ 0 detects TOTALZ=683 TOTALLOD=21 LODRES=0.005
Chronic AR=0.015 x 0.15=0.002	Chronic AR=0.015 x 0.05=0.001	Chronic AR=0.005 x 0.25=0.001	Chronic AR=0.005 x 0.03=0.00015
Oats PDP data (Blended) 100%CT 332 samples/0 detects ½ LOD=0.0035 Acute AR= 0.0035	RDF25: 'Okra (squash PDP data) 20%CT 776 samples/ 0 detects TOTALZ=621 TOTALLOD=155 LODRES=0.01	Onion-dried (Blended) FT data- 3%CT 21 samples/2 detects Average Residues=0.014 Acute AR=0.0004	RDF42: Onion (Garlic, leeks, shallots) FT data- 3%CT 21 samples/2 detects TOTALZ=679 TOTALLOD=19 LODRES= 0.005 0.012 0.016
Chronic AR=0.0035	Chronic AR=0.01 x 0.20=0.002	Chronic AR=0.014 x 0.03=0.0004	Chronic AR=0.014 x 0.03=0.0004
RDF28: 'Peaches PDP data 3%CT 1628 samples/ 0 detects TOTALZ=1579 TOTALLOD=49 LODRES=0.0005	RDF27: 'Peaches-single serving PDP data 3%CT 534 samples/ 0 detects TOTALZ=518 TOTALLOD=16 LODRES=0.0005	RDF29: 'Peanut Butter PDP data 10%CT 716 samples/ 0 detects TOTALZ=644 TOTALLOD=72 LODRES=0.0065	
Chronic AR=0.0005 x 0.03=0.000015	Chronic AR=0.0005 x 0.03=0.000015	Chronic AR=0.0065 x 0.10=0.001	
RDF26: 'Peas-canned PDP data 30%CT 914 samples/ 0 detects TOTALZ=640 TOTALLOD=274 LODRES=0.01	Peas-dried (Blended) FT- 15%CT 12 samples/ 0 detects 1/2LOD=0.005 Acute AR= 0.005	Mints (Blended) Spearmint & Peppermint FT- 3%CT 32 samples/ 16 detects 'see appendix' Average Residues=0.013 Acute AR= 0.0004	RDF30: 'Pepper (sweet pepper PDP data) 25%CT 1639 samples/ 0 detects TOTALZ=1229 TOTALLOD=410 LODRES=0.02
Chronic AR=0.01 x 0.30=0.003	Chronic AR=0.005 x 0.15=0.00075	Chronic AR=0.013 x 0.03=0.0004	Chronic AR=0.02 x 0.25=0.005

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RDF31: Plums FT data 3%CT 28 samples/ 0 detects TOTALZ=905 TOTALNZ=28 28, 0.005	RDF32: Potato PDP data 5%CT 1472 samples/ 0 detects TOTALZ=1398 TOTALLOD=74 LODRES=0.005	RDF33: Pumpkins (squash PDP data) 5%CT 776 samples/ 0 detects TOTALZ=737 TOTALLOD=39 LODRES=0.01	RDF43: Radish FT data- 10%CT 12 samples/ 5 detects TOTALZ=108 TOTALNZ=12 7, 0.005 2, 0.021 0.023 0.024 0.026
Chronic AR=0.005 x 0.03= 0.00015	Chronic AR=0.005 x 0.05= 0.00025	Chronic AR=0.01 x 0.05= 0.0005	Chronic AR=0.023 x 0.10= 0.002
Rapeseed (Blended) Canola Oil FT data- 100%CT 24 samples/ 0 detects 1/2LOD=0.025 Acute AR= 0.025	Rye (wheat PDP data)Blended 35%CT 623 samples/0 detects TOTALZ=405 TOTALLOD=218 LODRES=0.0035	Safflower (Blended) FT data- 60%CT 28 samples/ 0 detects 1/2LOD=0.005 Acute AR=0.005	Sorghum (Blended) Corn FT data- 3%CT 15 samples/ 0 detects 1/2LOD=0.005 Acute AR= 0.005
Chronic AR=0.025	Chronic AR=0.0035 x 0.35= 0.001	Chronic AR=0.005 x 0.60= 0.003	Chronic AR=0.005 x 0.03= 0.00015
Soybean (Blended) FT data- 15%CT 15 samples/ 0 detects 1/2LOD= 0.005 Acute AR= 0.005	RDF34: 'Squash PDP data 5%CT 776 samples/ 0 detects TOTALZ=737 TOTALLOD=39 LODRES=0.01	RDF35: 'Squash-frozen PDP data 5%CT 249 samples/ 0 detects TOTALZ=237 TOTALLOD=12 LODRES=0.02	Sugar Beets (Blended) FT data-5% CT 30 samples/ 0 detects Average Residues=0.005 Acute AR=0.00025
Chronic AR=0.005 x 0.15= 0.00075	Chronic AR=0.01 x 0.05= 0.001	Chronic AR=0.02 x 0.05= 0.001	Chronic AR=0.005 x 0.05= 0.00025
Sugar Cane (Blended) FT data- 10%CT 56 samples/ 0 detects Average Residues=0.005 Acute AR=0.0005	Sunflower (Blended) FT data- 30%CT 22 samples/ 0 detects Average Residues=0.005 Acute AR=0.00015	RDF36:'Sweet Potato PDP data 5%CT 1052 samples/ 0 detects TOTALZ=999 TOTALLOD=53 LODRES=0.01	RDF37: Tomato-fresh PDP data 50% CT 1078 samples/ 0 detects TOTALZ=539 TOTALLOD=539 LODRES=0.015
Chronic AR=0.005 x 0.10= 0.0005	Chronic AR=0.005 x 0.30= 0.0015	Chronic AR=0.01 x 0.05= 0.0005	Chronic AR=0.015 x 0.50= 0.0075
RDF38:Tomato-canned PDP data 50%CT 737 samples/ 7 detect TOTALZ=369 TOTALLOD=362 LODRES=0.01 3, 0.025 4, 0.002	RDF39:Tomato-paste PDP data 50%CT 369 samples/ 0 detects TOTALZ=185 TOTALLOD=185 LODRES=0.01	RDF40:'Walnut FT data-3 % CT 11 samples/ 0 detects TOTALZ=356 TOTALNZ=11 11, 0.005	RDF41:'Wheat PDP data 35%CT 623 samples/ 0 detects TOTALZ=405 TOTALLOD=218 LODRES=0.0035

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Chronic AR=0.01 x 0.50= 0.005	Chronic AR=0.01 x 0.50= 0.005	Chronic AR=0.005 x 0.03= 0.00015	Chronic AR=0.0035 x 0.35= 0.001
RDF47: Cattle-meat 3%CT-alfalfa TOTALZ=97 TOTALNZ=3 0.003 0.003 0.003	RDF45: Cattle-kidney 3%CT-alfalfa TOTALZ=97 TOTALNZ=3 0.048 0.048 0.048	RDF46: Cattle-liver 3%CT-alfalfa TOTALZ=97 TOTALNZ=3 0.145 0.145 0.145	RDF44: Cattle-fat 3%CT-alfalfa TOTALZ=97 TOTALNZ=3 0.015 0.015 0.015
Chronic AR= 0.003 x 0.03= 0.0001	Chronic AR= 0.048 x 0.03= 0.001	Chronic AR= 0.145 x 0.03= 0.004	Chronic AR= 0.015 x 0.03= 0.00045
RDF48: Milk 3%CT-alfalfa TOTALZ=97 TOTALNZ=3 0.013 0.013 0.013			
Chronic AR=0.013 x 0.03= 0.0004			

Attachment 3. Acute Food & Water Residue Input Files

U.S. Environmental Protection Agency Ver. 1.33
 DEEM-FCID Acute analysis for TRIFLURALIN
 Residue file name: C:\DEEMFCID\Trifluralin\trifluralin\trifluralinacuteH20.R98
 Analysis Date 03-05-2004 Residue file dated: 03-05-2004/12:32:15/8
 Reference dose: aRfD = 1 mg/kg bw/day NOEL = 1 mg/kg bw/day
 Comment: Females 13- 50 yrs

RDL indices and parameters for Monte Carlo Analysis:

Index #	Dist Code	Parameter #1	Param #2	Param #3	Comment
1	6	almond.rdf			
2	6	asparagus.rdf			
3	6	barley.rdf			
4	6	gbeansuccl.rdf			
5	6	gbeanfroz.rdf			
6	6	gbeets.rdf			
7	6	nuts.rdf			
8	6	broccoli.rdf			
9	6	cabbage.rdf			
10	6	carrot.rdf			
11	6	melon.rdf			
12	6	cauliflower.rdf			
13	6	celery.rdf			
14	6	orange.rdf			
15	6	collards.rdf			
16	6	cucumber.rdf			

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17 6 grapes.rdf
18 6 grapejuice.rdf
19 6 orangejuice.rdf
20 6 honeydew.rdf
21 6 kale.rdf
22 6 lemon.rdf
23 6 lemonjuice.rdf
24 6 nectarine.rdf
25 6 okra.rdf
26 6 peascanned.rdf
27 6 peaches.rdf
28 6 peachesingleserv.rdf
29 6 peanutbutter.rdf
30 6 peppers.rdf
31 6 plums.rdf
32 6 potato.rdf
33 6 pumpkin.rdf
34 6 squash.rdf
35 6 squashfroz.rdf
36 6 sweetpotato.rdf
37 6 tomato.rdf
38 6 tomatocanned.rdf
39 6 tomatopaste.rdf
40 6 walnut.rdf
41 6 wheat.rdf
42 6 onion.rdf
43 6 radish.rdf
44 6 fat.rdf
45 6 kidney.rdf
46 6 liver.rdf
47 6 meat.rdf
48 6 milk.rdf

EPA Comment Code	Crop Grp	Food Name	Def Res (ppm)	Adj.Factors		RDL
				#1	#2	Pntr
-----	-----	-----	-----	-----	-----	-----
18000020	18	Alfalfa, seed	0.330000	1.000	0.030	
14000030	14	Almond	0.014000	1.000	1.000	1
14000031	14	Almond-babyfood	0.014000	1.000	1.000	1
14000040	14	Almond, oil	0.014000	1.000	1.000	1
14000041	14	Almond, oil-babyfood	0.014000	1.000	1.000	1
12000120	12	Apricot	0.000500	1.000	1.000	
12000121	12	Apricot-babyfood	0.000500	1.000	1.000	
12000130	12	Apricot, dried	0.000500	1.000	1.000	
12000140	12	Apricot, juice	0.000500	1.000	1.000	
12000141	12	Apricot, juice-babyfood	0.000500	1.000	1.000	
95000190	O	Asparagus	0.008000	1.000	1.000	2
15000250	15	Barley, pearled barley	0.000150	1.000	1.000	3
15000251	15	Barley, pearled barley-babyfood	0.000150	1.000	1.000	3
15000260	15	Barley, flour	0.000150	1.000	1.000	3
15000261	15	Barley, flour-babyfood	0.000150	1.000	1.000	3
15000270	15	Barley, bran	0.000150	1.000	1.000	3
06030300	6C	Bean, black, seed	0.005000	1.000	0.030	
06020310	6B	Bean, broad, succulent	0.020000	1.000	1.000	4
06030320	6C	Bean, broad, seed	0.005000	1.000	0.030	
06020330	6B	Bean, cowpea, succulent				
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	1.000	4
		222-Cooked; Frozen; Boiled	0.020000	1.000	1.000	4
		242-Cooked; Canned; Boiled	0.020000	1.000	1.000	4

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06030340	6C	Bean, cowpea, seed	0.005000	1.000	0.030	
06030350	6C	Bean, great northern, seed	0.005000	1.000	0.030	
06030360	6C	Bean, kidney, seed	0.005000	1.000	0.030	
06020370	6B	Bean, lima, succulent				
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	1.000	4
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	1.000	4
		213-Cooked; Fresh or N/S; Fried	0.020000	1.000	1.000	4
		221-Cooked; Frozen; Baked	0.020000	1.000	1.000	5
		222-Cooked; Frozen; Boiled	0.020000	1.000	1.000	5
		240-Cooked; Canned; Cook Meth N/S	0.020000	1.000	1.000	4
		242-Cooked; Canned; Boiled	0.020000	1.000	1.000	4
06030380	6C	Bean, lima, seed	0.005000	1.000	0.030	
06030390	6C	Bean, mung, seed	0.005000	1.000	1.000	
06030400	6C	Bean, navy, seed	0.005000	1.000	0.030	
06030410	6C	Bean, pink, seed	0.005000	1.000	0.030	
06030420	6C	Bean, pinto, seed	0.005000	1.000	0.030	
06010430	6A	Bean, snap, succulent				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	1.000	4
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	1.000	4
		211-Cooked; Fresh or N/S; Baked	0.020000	1.000	1.000	4
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	1.000	4
		213-Cooked; Fresh or N/S; Fried	0.020000	1.000	1.000	4
		215-Cooked; Fresh or N/S; Boiled/baked	0.020000	1.000	1.000	4
		221-Cooked; Frozen; Baked	0.020000	1.000	1.000	5
		222-Cooked; Frozen; Boiled	0.020000	1.000	1.000	5
		232-Cooked; Dried; Boiled	0.020000	1.000	1.000	4
		240-Cooked; Canned; Cook Meth N/S	0.020000	1.000	1.000	4
		242-Cooked; Canned; Boiled	0.020000	1.000	1.000	4
06010431	6A	Bean, snap, succulent-babyfood	0.020000	1.000	1.000	4
21000440	M	Beef, meat	0.005000	1.000	1.000	47
21000441	M	Beef, meat-babyfood	0.005000	1.000	1.000	47
21000450	M	Beef, meat, dried	0.005000	1.920	1.000	47
21000460	M	Beef, meat byproducts	0.005000	1.000	1.000	45
21000461	M	Beef, meat byproducts-babyfood	0.005000	1.000	1.000	45
21000470	M	Beef, fat	0.005000	1.000	1.000	44
21000471	M	Beef, fat-babyfood	0.005000	1.000	1.000	44
21000480	M	Beef, kidney	0.005000	1.000	1.000	45
21000490	M	Beef, liver	0.005000	1.000	1.000	46
21000491	M	Beef, liver-babyfood	0.005000	1.000	1.000	46
01010500	1AB	Beet, garden, roots	0.005000	1.000	1.000	6
01010501	1AB	Beet, garden, roots-babyfood	0.005000	1.000	1.000	6
02000510	2	Beet, garden, tops	0.005000	1.000	1.000	6
01010520	1A	Beet, sugar	0.005000	1.000	0.050	
01010521	1A	Beet, sugar-babyfood	0.005000	1.000	0.050	
01010530	1A	Beet, sugar, molasses	0.005000	1.000	0.050	
01010531	1A	Beet, sugar, molasses-babyfood	0.005000	1.000	0.050	
14000590	14	Brazil nut	0.005000	1.000	1.000	7
05010610	5A	Broccoli	0.000400	1.000	1.000	8
05010611	5A	Broccoli-babyfood	0.000400	1.000	1.000	8
05010620	5A	Broccoli, Chinese	0.000400	1.000	1.000	8
05020630	5B	Broccoli raab	0.000400	1.000	1.000	8

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05010640	5A	Brussels sprouts	0.005000	1.000	1.000	
05010690	5A	Cabbage	0.005000	1.000	1.000	9
05020700	5B	Cabbage, Chinese, bok choy	0.005000	1.000	1.000	9
05010710	5A	Cabbage, Chinese, napa	0.005000	1.000	1.000	9
05010720	5A	Cabbage, Chinese, mustard	0.005000	1.000	1.000	9
09010750	9A	Cantaloupe	0.005000	1.000	1.000	11
01010780	1AB	Carrot	0.024000	1.000	1.000	10
01010781	1AB	Carrot-babyfood	0.024000	1.000	1.000	10
01010790	1AB	Carrot, juice	0.024000	1.000	1.000	10
14000810	14	Cashew	0.005000	1.000	1.000	7
05010830	5A	Cauliflower	0.005000	1.000	1.000	12
04020850	4B	Celery	0.015000	1.000	1.000	13
04020851	4B	Celery-babyfood	0.015000	1.000	1.000	13
04020860	4B	Celery, juice	0.015000	1.000	1.000	13
12000900	12	Cherry	0.002500	1.000	1.000	
12000901	12	Cherry-babyfood	0.002500	1.000	1.000	
12000910	12	Cherry, juice	0.002500	1.000	1.000	
12000911	12	Cherry, juice-babyfood	0.002500	1.000	1.000	
14000920	14	Chestnut	0.005000	1.000	1.000	7
01011000	1AB	Chicory, roots	0.024000	1.000	1.000	
02001010	2	Chicory, tops	0.024000	1.000	1.000	
10001060	10	Citrus citron	0.005000	1.000	1.000	14
10001070	10	Citrus hybrids	0.005000	1.000	1.000	14
10001080	10	Citrus, oil	0.005000	1.000	1.000	14
05021170	5B	Collards	0.005000	1.000	1.000	15
19021191	19B	Coriander, seed-babyfood	0.005000	1.000	0.030	
15001200	15	Corn, field, flour	0.005000	1.000	0.030	
15001201	15	Corn, field, flour-babyfood	0.005000	1.000	0.030	
15001210	15	Corn, field, meal	0.005000	1.000	0.030	
15001211	15	Corn, field, meal-babyfood	0.005000	1.000	0.030	
15001220	15	Corn, field, bran	0.005000	1.000	0.030	
15001230	15	Corn, field, starch	0.005000	1.000	0.030	
15001231	15	Corn, field, starch-babyfood	0.005000	1.000	0.030	
15001240	15	Corn, field, syrup	0.005000	1.500	0.030	
15001241	15	Corn, field, syrup-babyfood	0.005000	1.500	0.030	
15001250	15	Corn, field, oil	0.005000	1.000	0.030	
15001251	15	Corn, field, oil-babyfood	0.005000	1.000	0.030	
15001260	15	Corn, pop	0.005000	1.000	0.030	
95001280	O	Cottonseed, oil	0.015000	1.000	0.450	
95001281	O	Cottonseed, oil-babyfood	0.015000	1.000	0.450	
09021350	9B	Cucumber	0.010000	1.000	1.000	16
08001480	8	Eggplant	0.020000	1.000	1.000	
14001550	14	Filbert	0.005000	1.000	1.000	7
14001560	14	Filbert, oil	0.005000	1.000	1.000	7
20001630	20	Flaxseed, oil	0.040000	1.000	1.000	
03001640	3	Garlic	0.005000	1.000	1.000	42
03001650	3	Garlic, dried	0.014000	1.000	0.030	
03001651	3	Garlic, dried-babyfood	0.014000	1.000	0.030	
23001690	M	Goat, meat	0.005000	1.000	1.000	47
23001700	M	Goat, meat byproducts	0.005000	1.000	1.000	45
23001710	M	Goat, fat	0.005000	1.000	1.000	44
23001720	M	Goat, kidney	0.005000	1.000	1.000	45
23001730	M	Goat, liver	0.005000	1.000	1.000	46
95001750	O	Grape	0.015000	1.000	1.000	17
95001760	O	Grape, juice	0.015000	1.000	1.000	18
95001761	O	Grape, juice-babyfood	0.015000	1.000	1.000	18
95001770	O	Grape, leaves	0.015000	1.000	1.000	17
95001780	O	Grape, raisin	0.015000	1.000	1.000	17
95001790	O	Grape, wine and sherry	0.015000	1.000	1.000	17
10001800	10	Grapefruit	0.000300	1.000	1.000	14
10001810	10	Grapefruit, juice	0.000300	1.000	1.000	19
06031820	6C	Guar, seed	0.001500	1.000	1.000	

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06031821	6C	Guar, seed-babyfood	0.001500	1.000	1.000	
14001850	14	Hickory nut	0.005000	1.000	1.000	7
09011870	9A	Honeydew melon	0.001000	1.000	1.000	20
95001880	O	Hop	0.000250	1.000	1.000	
24001890	M	Horse, meat	0.005000	1.000	1.000	47
01011900	1AB	Horseradish	0.024000	1.000	1.000	
05021940	5B	Kale	0.001000	1.000	1.000	21
05011960	5A	Kohlrabi	0.005000	1.000	1.000	
10001970	10	Kumquat	0.000150	1.000	1.000	14
03001980	3	Leek	0.000500	1.000	1.000	42
10001990	10	Lemon	0.000500	1.000	1.000	22
10002000	10	Lemon, juice	0.000500	1.000	1.000	23
10002001	10	Lemon, juice-babyfood	0.000500	1.000	1.000	23
10002010	10	Lemon, peel	0.005000	1.000	1.000	22
06032030	6C	Lentil, seed	0.005000	1.000	1.000	
10002060	10	Lime	0.005000	1.000	1.000	22
10002070	10	Lime, juice	0.005000	1.000	1.000	23
10002071	10	Lime, juice-babyfood	0.005000	1.000	1.000	23
14002130	14	Macadamia nut	0.005000	1.000	1.000	7
27002220	D	Milk, fat	0.011000	1.000	1.000	48
27002221	D	Milk, fat - baby food/infant for	0.011000	1.000	1.000	48
27012230	D	Milk, nonfat solids	0.011000	1.000	1.000	48
27012231	D	Milk, nonfat solids-baby food/in	0.011000	1.000	1.000	48
27022240	D	Milk, water	0.011000	1.000	1.000	48
27022241	D	Milk, water-babyfood/infant form	0.011000	1.000	1.000	48
27032251	D	Milk, sugar (lactose)-baby food/	0.011000	1.000	1.000	48
05022290	5B	Mustard greens	0.005000	1.000	1.000	
12002300	12	Nectarine	0.000150	1.000	1.000	24
15002310	15	Oat, bran	0.000350	1.000	1.000	
15002320	15	Oat, flour	0.000350	1.000	1.000	
15002321	15	Oat, flour-babyfood	0.000350	1.000	1.000	
15002330	15	Oat, groats/rolled oats	0.000350	1.000	1.000	
15002331	15	Oat, groats/rolled oats-babyfood	0.000350	1.000	1.000	
08002340	8	Okra	0.002000	1.000	1.000	25
03002370	3	Onion, dry bulb	0.014000	1.000	0.030	
03002371	3	Onion, dry bulb-babyfood	0.014000	1.000	0.030	
03002380	3	Onion, dry bulb, dried	0.014000	9.000	0.030	
03002381	3	Onion, dry bulb, dried-babyfood	0.014000	9.000	0.030	
03002390	3	Onion, green	0.005000	1.000	1.000	42
10002400	10	Orange	0.000150	1.000	1.000	14
10002410	10	Orange, juice	0.000300	1.000	1.000	19
10002411	10	Orange, juice-babyfood	0.000300	1.000	1.000	19
10002420	10	Orange, peel	0.000150	1.000	1.000	14
01012510	1AB	Parsnip	0.024000	1.000	1.000	
01012511	1AB	Parsnip-babyfood	0.024000	1.000	1.000	
06022550	6B	Pea, succulent	0.004000	1.000	1.000	26
06022551	6B	Pea, succulent-babyfood	0.004000	1.000	1.000	26
06032560	6C	Pea, dry	0.005000	1.000	0.150	
06032561	6C	Pea, dry-babyfood	0.005000	1.000	0.150	
06012570	6A	Pea, edible podded, succulent	0.004000	1.000	1.000	26
06032580	6C	Pea, pigeon, seed	0.004000	1.000	1.000	26
06022590	6B	Pea, pigeon, succulent	0.004000	1.000	1.000	26
12002600	12	Peach				
		110-Uncooked; Fresh or N/S; Cook Meth N/S				
			0.000500	1.000	1.000	28
		120-Uncooked; Frozen; Cook Meth N/S				
			0.000500	1.000	1.000	28
		130-Uncooked; Dried; Cook Meth N/S				
			0.000500	1.000	1.000	28
		210-Cooked; Fresh or N/S; Cook Meth N/S				
			0.000500	1.000	1.000	28
		211-Cooked; Fresh or N/S; Baked				

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			0.000500	1.000	1.000	28
		213-Cooked; Fresh or N/S; Fried				
			0.000500	1.000	1.000	28
		221-Cooked; Frozen; Baked	0.000500	1.000	1.000	27
		223-Cooked; Frozen; Fried	0.000500	1.000	1.000	27
		240-Cooked; Canned; Cook Meth N/S				
			0.000500	1.000	1.000	27
12002601	12	Peach-babyfood	0.000500	1.000	1.000	28
12002610	12	Peach, dried				
		130-Uncooked; Dried; Cook Meth N/S				
			0.000500	1.000	1.000	28
		211-Cooked; Fresh or N/S; Baked				
			0.000500	1.000	1.000	28
		230-Cooked; Dried; Cook Meth N/S				
			0.000500	1.000	1.000	28
12002611	12	Peach, dried-babyfood	0.000500	1.000	1.000	28
12002620	12	Peach, juice				
		110-Uncooked; Fresh or N/S; Cook Meth N/S				
			0.000500	1.000	1.000	28
		211-Cooked; Fresh or N/S; Baked				
			0.000500	1.000	1.000	28
		240-Cooked; Canned; Cook Meth N/S				
			0.000500	1.000	1.000	27
12002621	12	Peach, juice-babyfood	0.000500	1.000	1.000	28
95002630	O	Peanut	0.001000	1.000	1.000	29
95002640	O	Peanut, butter	0.001000	1.000	1.000	29
95002650	O	Peanut, oil	0.001000	1.000	1.000	29
14002690	14	Pecan	0.005000	1.000	1.000	7
08002700	8	Pepper, bell	0.005000	1.000	1.000	30
08002701	8	Pepper, bell-babyfood	0.005000	1.000	1.000	30
08002710	8	Pepper, bell, dried	0.005000	1.000	1.000	30
08002711	8	Pepper, bell, dried-babyfood	0.005000	1.000	1.000	30
08002720	8	Pepper, nonbell	0.005000	1.000	1.000	30
08002721	8	Pepper, nonbell-babyfood	0.005000	1.000	1.000	30
08002730	8	Pepper, nonbell, dried	0.005000	1.000	1.000	30
95002750	O	Peppermint	0.013000	1.000	0.030	
95002760	O	Peppermint, oil	0.013000	1.000	0.030	
14002820	14	Pistachio	0.005000	1.000	1.000	1
12002850	12	Plum	0.000150	1.000	1.000	31
12002851	12	Plum-babyfood	0.000150	1.000	1.000	31
12002860	12	Plum, prune, fresh	0.000150	1.000	1.000	31
12002861	12	Plum, prune, fresh-babyfood	0.000150	1.000	1.000	31
12002870	12	Plum, prune, dried	0.000150	1.000	5.000	31
12002871	12	Plum, prune, dried-babyfood	0.000150	1.000	5.000	31
12002880	12	Plum, prune, juice	0.000150	1.000	1.400	31
12002881	12	Plum, prune, juice-babyfood	0.000150	1.000	1.400	31
01032960	1C	Potato, chips	0.000250	1.000	1.000	32
01032970	1C	Potato, dry (granules/ flakes)	0.000250	1.000	1.000	32
01032971	1C	Potato, dry (granules/ flakes)-b	0.000250	1.000	1.000	32
01032980	1C	Potato, flour	0.000250	1.000	1.000	32
01032981	1C	Potato, flour-babyfood	0.000250	1.000	1.000	32
01032990	1C	Potato, tuber, w/peel	0.000250	1.000	1.000	32
01032991	1C	Potato, tuber, w/peel-babyfood	0.000250	1.000	1.000	32
01033000	1C	Potato, tuber, w/o peel	0.000250	1.000	1.000	32
01033001	1C	Potato, tuber, w/o peel-babyfood	0.000250	1.000	1.000	32
09023080	9B	Pumpkin	0.000500	1.000	1.000	33
09023090	9B	Pumpkin, seed	0.000500	1.000	1.000	33
01013140	1AB	Radish, roots	0.005000	1.000	1.000	43
02003150	2	Radish, tops	0.005000	1.000	1.000	43
01013160	1AB	Radish, Oriental, roots	0.005000	1.000	1.000	43
02003170	2	Radish, Oriental, tops	0.005000	1.000	1.000	43
20003190	20	Rapeseed, oil	0.025000	1.000	1.000	

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20003191	20	Rapeseed, oil-babyfood	0.025000	1.000	1.000	
01013270	1AB	Rutabaga	0.005000	1.000	1.000	
15003280	15	Rye, grain	0.003500	1.000	1.000	
15003290	15	Rye, flour	0.003500	1.000	1.000	
20003300	20	Safflower, oil	0.005000	1.000	0.600	
20003301	20	Safflower, oil-babyfood	0.005000	1.000	0.600	
01013310	1AB	Salsify, roots	0.024000	1.000	1.000	
02003320	2	Salsify, tops	0.024000	1.000	1.000	
03003380	3	Shallot	0.000400	1.000	1.000	42
26003390	M	Sheep, meat	0.005000	1.000	1.000	47
26003391	M	Sheep, meat-babyfood	0.005000	1.000	1.000	47
26003400	M	Sheep, meat byproducts	0.005000	1.000	1.000	45
26003410	M	Sheep, fat	0.005000	1.000	1.000	44
26003411	M	Sheep, fat-babyfood	0.005000	1.000	1.000	44
26003420	M	Sheep, kidney	0.005000	1.000	1.000	45
26003430	M	Sheep, liver	0.005000	1.000	1.000	46
15003440	15	Sorghum, grain	0.005000	1.000	0.030	
15003450	15	Sorghum, syrup	0.005000	1.000	0.030	
06003470	6	Soybean, seed	0.005000	1.000	0.150	
06003480	6	Soybean, flour	0.005000	1.000	0.150	
06003481	6	Soybean, flour-babyfood	0.005000	1.000	0.150	
06003490	6	Soybean, soy milk	0.005000	1.000	0.150	
06003491	6	Soybean, soy milk-babyfood or in	0.005000	1.000	0.150	
06003500	6	Soybean, oil	0.005000	1.000	0.150	
06003501	6	Soybean, oil-babyfood	0.005000	1.000	0.150	
95003520	O	Spearmint	0.013000	1.000	0.030	
95003530	O	Spearmint, oil	0.013000	1.000	0.030	
09023560	9B	Squash, summer				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	34
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	1.000	34
		212-Cooked; Fresh or N/S; Boiled	0.010000	1.000	1.000	34
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	1.000	34
		215-Cooked; Fresh or N/S; Boiled/baked	0.010000	1.000	1.000	34
		221-Cooked; Frozen; Baked	0.010000	1.000	1.000	35
		222-Cooked; Frozen; Boiled	0.010000	1.000	1.000	35
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	34
		250-Cooked; Cured etc; Cook Meth N/S	0.010000	1.000	1.000	34
09023561	9B	Squash, summer-babyfood	0.010000	1.000	1.000	34
09023570	9B	Squash, winter				
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	34
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	1.000	34
		212-Cooked; Fresh or N/S; Boiled	0.010000	1.000	1.000	34
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	1.000	34
		215-Cooked; Fresh or N/S; Boiled/baked	0.010000	1.000	1.000	34
		222-Cooked; Frozen; Boiled	0.010000	1.000	1.000	35
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	34
09023571	9B	Squash, winter-babyfood	0.010000	1.000	1.000	34
95003620	O	Sugarcane, sugar	0.005000	1.000	0.100	
95003621	O	Sugarcane, sugar-babyfood	0.005000	1.000	0.100	
95003630	O	Sugarcane, molasses	0.005000	1.000	0.100	
95003631	O	Sugarcane, molasses-babyfood	0.005000	1.000	0.100	

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20003640	20	Sunflower, seed	0.005000	1.000	0.300	
20003650	20	Sunflower, oil	0.005000	1.000	0.300	
20003651	20	Sunflower, oil-babyfood	0.005000	1.000	0.300	
01033660	1CD	Sweet potato	0.000500	1.000	1.000	36
01033661	1CD	Sweet potato-babyfood	0.000500	1.000	1.000	36
10003690	10	Tangerine	0.005000	1.000	1.000	14
10003700	10	Tangerine, juice	0.010000	1.000	1.000	19
08003750	8	Tomato				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	37
		150-Uncooked; Cured etc; Cook Meth N/S	0.010000	1.000	1.000	37
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	37
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	1.000	37
		212-Cooked; Fresh or N/S; Boiled	0.010000	1.000	1.000	37
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	1.000	37
		214-Cooked; Fresh or N/S; Fried/baked	0.010000	1.000	1.000	37
		215-Cooked; Fresh or N/S; Boiled/baked	0.010000	1.000	1.000	37
		221-Cooked; Frozen; Baked	0.010000	1.000	1.000	37
		222-Cooked; Frozen; Boiled	0.010000	1.000	1.000	37
		232-Cooked; Dried; Boiled	0.010000	1.000	1.000	37
		240-Cooked; Canned; Cook Meth N/S	0.010000	1.000	1.000	38
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	38
		252-Cooked; Cured etc; Boiled	0.010000	1.000	1.000	37
08003751	8	Tomato-babyfood	0.010000	1.000	1.000	37
08003760	8	Tomato, paste				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	39
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	39
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	1.000	39
		212-Cooked; Fresh or N/S; Boiled	0.010000	1.000	1.000	39
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	1.000	39
		215-Cooked; Fresh or N/S; Boiled/baked	0.010000	1.000	1.000	39
		221-Cooked; Frozen; Baked	0.010000	1.000	1.000	39
		232-Cooked; Dried; Boiled	0.010000	1.000	1.000	39
		240-Cooked; Canned; Cook Meth N/S	0.010000	1.000	1.000	39
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	39
08003761	8	Tomato, paste-babyfood	0.010000	1.000	1.000	39
08003770	8	Tomato, puree				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	37
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	1.000	37
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	1.000	37
		212-Cooked; Fresh or N/S; Boiled	0.010000	1.000	1.000	37
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	1.000	37

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		215-Cooked; Fresh or N/S; Boiled/baked				
			0.010000	1.000	1.000	37
		221-Cooked; Frozen; Baked	0.010000	1.000	1.000	37
		232-Cooked; Dried; Boiled	0.010000	1.000	1.000	37
		240-Cooked; Canned; Cook Meth N/S				
			0.010000	1.000	1.000	38
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	38
		252-Cooked; Cured etc; Boiled	0.010000	1.000	1.000	37
08003771	8	Tomato, puree-babyfood	0.010000	1.000	1.000	37
08003780	8	Tomato, dried				
		110-Uncooked; Fresh or N/S; Cook Meth N/S				
			0.010000	1.000	1.000	37
		130-Uncooked; Dried; Cook Meth N/S				
			0.010000	1.000	1.000	37
		210-Cooked; Fresh or N/S; Cook Meth N/S				
			0.010000	1.000	1.000	37
		211-Cooked; Fresh or N/S; Baked				
			0.010000	1.000	1.000	37
		212-Cooked; Fresh or N/S; Boiled				
			0.010000	1.000	1.000	37
		214-Cooked; Fresh or N/S; Fried/baked				
			0.010000	1.000	1.000	37
		215-Cooked; Fresh or N/S; Boiled/baked				
			0.010000	1.000	1.000	37
		230-Cooked; Dried; Cook Meth N/S				
			0.010000	1.000	1.000	37
		231-Cooked; Dried; Baked	0.010000	1.000	1.000	37
		232-Cooked; Dried; Boiled	0.010000	1.000	1.000	37
08003781	8	Tomato, dried-babyfood	0.010000	1.000	1.000	37
08003790	8	Tomato, juice				
		110-Uncooked; Fresh or N/S; Cook Meth N/S				
			0.010000	1.000	1.000	37
		210-Cooked; Fresh or N/S; Cook Meth N/S				
			0.010000	1.000	1.000	37
		211-Cooked; Fresh or N/S; Baked				
			0.010000	1.000	1.000	37
		212-Cooked; Fresh or N/S; Boiled				
			0.010000	1.000	1.000	37
		240-Cooked; Canned; Cook Meth N/S				
			0.010000	1.000	1.000	38
		242-Cooked; Canned; Boiled	0.010000	1.000	1.000	38
01013880	1AB	Turnip, roots	0.005000	1.000	1.000	
14003910	14	Walnut	0.000150	1.000	1.000	40
09013990	9A	Watermelon	0.002000	1.000	1.000	11
09014000	9A	Watermelon, juice	0.002000	1.000	1.000	11
15004010	15	Wheat, grain	0.001000	1.000	1.000	41
15004011	15	Wheat, grain-babyfood	0.001000	1.000	1.000	41
15004020	15	Wheat, flour	0.001000	1.000	1.000	41
15004021	15	Wheat, flour-babyfood	0.001000	1.000	1.000	41
15004030	15	Wheat, germ	0.001000	1.000	1.000	41
15004040	15	Wheat, bran	0.001000	1.000	1.000	41

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Attachment 4a. Acute Result Files (DEEM-FCID)

U.S. Environmental Protection Agency Ver. 1.33
DEEM-FCID ACUTE Analysis for TRIFLURALIN (1994-98 data)
Residue file: trifluralinacuteH20.R98 Adjustment factor #2 used.
Analysis Date: 03-05-2004/12:34:49 Residue file dated: 03-05-2004/12:32:15/8
NOEL (Acute) = 1.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
MC iterations = 1000 MC list in residue file MC seed = 10
Run Comment: "Females 13- 50 yrs"

Summary calculations (per capita):

95th Percentile			99th Percentile			99.9th Percentile		
Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
Females 13-50 yrs:								
0.000051	0.041	19699	0.000104	0.01	9579	0.000262	0.03	3815

Attachment 4b. Acute Result Files (Lifeline)

age_group	P_95	aPad_95	Acute_moe_95	P_99	aPad_99	Acute_moe_99	P_99_9	aPad_99.9	Acute_moe_99.9
Females 13-49 years old	6.19E-05	0.006185	16168.15	0.000129	0.012869	7770.913	0.000311	0.031113	3214.142

Attachment 5. Chronic Food & Water Residue Input File

U.S. Environmental Protection Agency Ver. 1.30
DEEM-FCID Chronic analysis for TRIFLURALIN 1994-98 data
Residue file: C:\DEEMFCID\Trifluralin\trifluralin\trifluralinchronicH20.R98
Adjust. #2 used
Analysis Date 03-03-2004 Residue file dated: 03-03-2004/14:35:16/8
Reference dose (RfD) = 0.024 mg/kg bw/day
Comment: All Populations + drinking H2O

Food Crop			Residue	Adj. Factors	
Comment			(ppm)	#1	#2
EPA Code	Grp	Food Name			
18000020	18	Alfalfa, seed	0.330000	1.000	0.030
14000030	14	Almond	0.005000	1.000	0.030
14000031	14	Almond-babyfood	0.005000	1.000	0.030
14000040	14	Almond, oil	0.005000	1.000	0.030
14000041	14	Almond, oil-babyfood	0.005000	1.000	0.030
12000120	12	Apricot	0.001000	1.000	1.000
12000121	12	Apricot-babyfood	0.001000	1.000	1.000
12000130	12	Apricot, dried	0.001000	1.000	1.000
12000140	12	Apricot, juice	0.001000	1.000	1.000
12000141	12	Apricot, juice-babyfood	0.001000	1.000	1.000
95000190	0	Asparagus	0.008000	1.000	0.250

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15000250	15	Barley, pearled barley	0.000150	1.000	1.000
15000251	15	Barley, pearled barley-babyfood	0.000150	1.000	1.000
15000260	15	Barley, flour	0.000150	1.000	1.000
15000261	15	Barley, flour-babyfood	0.000150	1.000	1.000
15000270	15	Barley, bran	0.000150	1.000	1.000
06030300	6C	Bean, black, seed	0.005000	1.000	0.300
06020310	6B	Bean, broad, succulent	0.020000	1.000	0.350
06030320	6C	Bean, broad, seed	0.005000	1.000	0.300
06020330	6B	Bean, cowpea, succulent			
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	0.350
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.350
		242-Cooked; Canned; Boiled	0.020000	1.000	0.350
06030340	6C	Bean, cowpea, seed	0.005000	1.000	0.300
06030350	6C	Bean, great northern, seed	0.005000	1.000	0.300
06030360	6C	Bean, kidney, seed	0.005000	1.000	0.300
06020370	6B	Bean, lima, succulent			
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	0.350
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	0.350
		213-Cooked; Fresh or N/S; Fried	0.020000	1.000	0.350
		221-Cooked; Frozen; Baked	0.010000	1.000	0.350
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.350
		240-Cooked; Canned; Cook Meth N/S	0.020000	1.000	0.350
		242-Cooked; Canned; Boiled	0.020000	1.000	0.350
06030380	6C	Bean, lima, seed	0.005000	1.000	0.300
06030390	6C	Bean, mung, seed	0.005000	1.000	0.300
06030400	6C	Bean, navy, seed	0.005000	1.000	0.300
06030410	6C	Bean, pink, seed	0.005000	1.000	0.300
06030420	6C	Bean, pinto, seed	0.005000	1.000	0.300
06010430	6A	Bean, snap, succulent			
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	0.350
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.020000	1.000	0.350
		211-Cooked; Fresh or N/S; Baked	0.020000	1.000	0.350
		212-Cooked; Fresh or N/S; Boiled	0.020000	1.000	0.350
		213-Cooked; Fresh or N/S; Fried	0.020000	1.000	0.350
		215-Cooked; Fresh or N/S; Boiled/baked	0.020000	1.000	0.350
		221-Cooked; Frozen; Baked	0.010000	1.000	0.350
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.350
		232-Cooked; Dried; Boiled	0.020000	1.000	0.350
		240-Cooked; Canned; Cook Meth N/S	0.020000	1.000	0.350
		242-Cooked; Canned; Boiled	0.020000	1.000	0.350
06010431	6A	Bean, snap, succulent-babyfood	0.020000	1.000	0.350
21000440	M	Beef, meat	0.003000	1.000	0.030
21000441	M	Beef, meat-babyfood	0.003000	1.000	0.030
21000450	M	Beef, meat, dried	0.003000	1.000	0.030
21000460	M	Beef, meat byproducts	0.048000	1.000	0.030
21000461	M	Beef, meat byproducts-babyfood	0.048000	1.000	0.030
21000470	M	Beef, fat	0.015000	1.000	0.030
21000471	M	Beef, fat-babyfood	0.015000	1.000	0.030
21000480	M	Beef, kidney	0.048000	1.000	0.030
21000490	M	Beef, liver	0.145000	1.000	0.030
21000491	M	Beef, liver-babyfood	0.145000	1.000	0.030
01010500	1AB	Beet, garden, roots	0.005000	1.000	0.050
01010501	1AB	Beet, garden, roots-babyfood	0.005000	1.000	0.050

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02000510	2	Beet, garden, tops	0.005000	1.000	0.050
01010520	1A	Beet, sugar	0.005000	1.000	0.050
01010521	1A	Beet, sugar-babyfood	0.005000	1.000	0.050
01010530	1A	Beet, sugar, molasses	0.005000	1.000	0.050
01010531	1A	Beet, sugar, molasses-babyfood	0.005000	1.000	0.050
14000590	14	Brazil nut	0.005000	1.000	0.030
05010610	5A	Broccoli	0.000400	1.000	1.000
05010611	5A	Broccoli-babyfood	0.000400	1.000	1.000
05010620	5A	Broccoli, Chinese	0.000400	1.000	1.000
05020630	5B	Broccoli raab	0.000400	1.000	1.000
05010640	5A	Brussels sprouts	0.005000	1.000	1.000
05010690	5A	Cabbage	0.010000	1.000	0.450
05020700	5B	Cabbage, Chinese, bok choy	0.010000	1.000	0.450
05010710	5A	Cabbage, Chinese, napa	0.010000	1.000	0.450
05010720	5A	Cabbage, Chinese, mustard	0.010000	1.000	0.450
09010750	9A	Cantaloupe	0.015000	1.000	0.150
01010780	1AB	Carrot	0.024000	1.000	0.550
01010781	1AB	Carrot-babyfood	0.024000	1.000	0.550
01010790	1AB	Carrot, juice	0.024000	1.000	0.550
14000810	14	Cashew	0.005000	1.000	0.030
05010830	5A	Cauliflower	0.005000	1.000	0.100
04020850	4B	Celery	0.015000	1.000	0.100
04020851	4B	Celery-babyfood	0.015000	1.000	0.100
04020860	4B	Celery, juice	0.015000	1.000	0.100
12000900	12	Cherry	0.002500	1.000	1.000
12000901	12	Cherry-babyfood	0.002500	1.000	1.000
12000910	12	Cherry, juice	0.002500	1.000	1.000
12000911	12	Cherry, juice-babyfood	0.002500	1.000	1.000
14000920	14	Chestnut	0.005000	1.000	0.030
01011000	1AB	Chicory, roots	0.024000	1.000	1.000
02001010	2	Chicory, tops	0.024000	1.000	1.000
10001060	10	Citrus citron	0.005000	1.000	0.030
10001070	10	Citrus hybrids	0.005000	1.000	0.030
10001080	10	Citrus, oil	0.005000	1.000	0.030
05021170	5B	Collards	0.012000	1.000	0.350
19021191	19B	Coriander, seed-babyfood	0.005000	1.000	0.030
15001200	15	Corn, field, flour	0.005000	1.000	0.030
15001201	15	Corn, field, flour-babyfood	0.005000	1.000	0.030
15001210	15	Corn, field, meal	0.005000	1.000	0.030
15001211	15	Corn, field, meal-babyfood	0.005000	1.000	0.030
15001220	15	Corn, field, bran	0.005000	1.000	0.030
15001230	15	Corn, field, starch	0.005000	1.000	0.030
15001231	15	Corn, field, starch-babyfood	0.005000	1.000	0.030
15001240	15	Corn, field, syrup	0.005000	1.500	0.030
15001241	15	Corn, field, syrup-babyfood			
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.005000	1.500	0.030
		130-Uncooked; Dried; Cook Meth N/S	0.005000	1.500	0.030
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.005000	1.500	0.030
		211-Cooked; Fresh or N/S; Baked	0.005000	1.500	0.030
		230-Cooked; Dried; Cook Meth N/S	0.005000	1.500	0.030
		240-Cooked; Canned; Cook Meth N/S	0.005000	1.500	0.030
15001250	15	Corn, field, oil	0.005000	1.000	0.030
15001251	15	Corn, field, oil-babyfood	0.005000	1.000	0.030
15001260	15	Corn, pop	0.005000	1.000	0.030
95001280	O	Cottonseed, oil	0.015000	1.000	0.450
95001281	O	Cottonseed, oil-babyfood	0.015000	1.000	0.450
09021350	9B	Cucumber	0.010000	1.000	0.050

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08001480	8	Eggplant	0.020000	1.000	1.000
14001550	14	Filbert	0.005000	1.000	0.030
14001560	14	Filbert, oil	0.005000	1.000	0.030
20001630	20	Flaxseed, oil	0.040000	1.000	1.000
03001640	3	Garlic	0.014000	1.000	0.030
03001650	3	Garlic, dried	0.014000	1.000	0.030
03001651	3	Garlic, dried-babyfood	0.014000	1.000	0.030
23001690	M	Goat, meat	0.003000	1.000	0.030
23001700	M	Goat, meat byproducts	0.048000	1.000	0.030
23001710	M	Goat, fat	0.015000	1.000	0.030
23001720	M	Goat, kidney	0.048000	1.000	0.030
23001730	M	Goat, liver	0.145000	1.000	0.030
95001750	O	Grape	0.015000	1.000	0.030
95001760	O	Grape, juice	0.015000	1.000	0.030
95001761	O	Grape, juice-babyfood	0.015000	1.000	0.030
95001770	O	Grape, leaves	0.015000	1.000	0.030
95001780	O	Grape, raisin	0.015000	1.000	0.030
95001790	O	Grape, wine and sherry	0.015000	1.000	0.030
10001800	10	Grapefruit	0.010000	1.000	0.030
10001810	10	Grapefruit, juice	0.010000	1.000	0.030
06031820	6C	Guar, seed	0.005000	1.000	0.300
06031821	6C	Guar, seed-babyfood	0.005000	1.000	0.300
14001850	14	Hickory nut	0.005000	1.000	0.030
09011870	9A	Honeydew melon	0.015000	1.000	0.050
95001880	O	Hop	0.005000	1.000	0.050
24001890	M	Horse, meat	0.003000	1.000	0.030
01011900	1AB	Horseradish	0.024000	1.000	1.000
05021940	5B	Kale	0.005000	1.000	0.250
05011960	5A	Kohlrabi	0.005000	1.000	1.000
10001970	10	Kumquat	0.005000	1.000	0.030
03001980	3	Leek	0.014000	1.000	0.050
10001990	10	Lemon	0.005000	1.000	0.050
10002000	10	Lemon, juice	0.010000	1.000	0.050
10002001	10	Lemon, juice-babyfood	0.010000	1.000	0.050
10002010	10	Lemon, peel	0.005000	1.000	0.050
06032030	6C	Lentil, seed	0.005000	1.000	0.030
10002060	10	Lime	0.005000	1.000	0.050
10002070	10	Lime, juice	0.010000	1.000	0.050
10002071	10	Lime, juice-babyfood	0.010000	1.000	0.050
14002130	14	Macadamia nut	0.005000	1.000	0.030
27002220	D	Milk, fat	0.011000	1.000	0.030
27002221	D	Milk, fat - baby food/infant for	0.011000	1.000	0.030
27012230	D	Milk, nonfat solids	0.011000	1.000	0.030
27012231	D	Milk, nonfat solids-baby food/in	0.011000	1.000	0.030
27022240	D	Milk, water	0.011000	1.000	0.030
27022241	D	Milk, water-babyfood/infant form	0.011000	1.000	0.030
27032251	D	Milk, sugar (lactose)-baby food/	0.011000	1.000	0.030
05022290	5B	Mustard greens	0.005000	1.000	0.250
12002300	12	Nectarine	0.005000	1.000	0.030
15002310	15	Oat, bran	0.003500	1.000	1.000
15002320	15	Oat, flour	0.003500	1.000	1.000
15002321	15	Oat, flour-babyfood	0.003500	1.000	1.000
15002330	15	Oat, groats/rolled oats	0.003500	1.000	1.000
15002331	15	Oat, groats/rolled oats-babyfood	0.003500	1.000	1.000
08002340	8	Okra	0.010000	1.000	0.200
03002370	3	Onion, dry bulb	0.014000	1.000	0.030
03002371	3	Onion, dry bulb-babyfood	0.014000	1.000	0.030
03002380	3	Onion, dry bulb, dried	0.014000	9.000	0.030
03002381	3	Onion, dry bulb, dried-babyfood	0.014000	9.000	0.030
03002390	3	Onion, green	0.014000	1.000	0.030
10002400	10	Orange	0.005000	1.000	0.030
10002410	10	Orange, juice	0.010000	1.000	0.030

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10002411	10	Orange, juice-babyfood	0.010000	1.000	0.030
10002420	10	Orange, peel	0.005000	1.000	0.030
01012510	1AB	Parsnip	0.024000	1.000	1.000
01012511	1AB	Parsnip-babyfood	0.024000	1.000	1.000
06022550	6B	Pea, succulent	0.005000	1.000	1.000
06022551	6B	Pea, succulent-babyfood	0.004000	1.000	1.000
06032560	6C	Pea, dry	0.005000	1.000	0.150
06032561	6C	Pea, dry-babyfood	0.005000	1.000	0.150
06012570	6A	Pea, edible podded, succulent	0.004000	1.000	0.300
06032580	6C	Pea, pigeon, seed	0.005000	1.000	0.030
06022590	6B	Pea, pigeon, succulent	0.004000	1.000	0.300
12002600	12	Peach			
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000500	1.000	0.030
		120-Uncooked; Frozen; Cook Meth N/S	0.000500	1.000	0.030
		130-Uncooked; Dried; Cook Meth N/S	0.000500	1.000	0.030
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.000500	1.000	0.030
		211-Cooked; Fresh or N/S; Baked	0.000500	1.000	0.030
		213-Cooked; Fresh or N/S; Fried	0.000500	1.000	0.030
		221-Cooked; Frozen; Baked	0.000500	1.000	0.030
		223-Cooked; Frozen; Fried	0.000500	1.000	0.030
		240-Cooked; Canned; Cook Meth N/S	0.000500	1.000	0.030
12002601	12	Peach-babyfood	0.000500	1.000	0.030
12002610	12	Peach, dried			
		130-Uncooked; Dried; Cook Meth N/S	0.000500	1.000	0.030
		211-Cooked; Fresh or N/S; Baked	0.000500	1.000	0.030
		230-Cooked; Dried; Cook Meth N/S	0.000500	1.000	0.030
12002611	12	Peach, dried-babyfood	0.000500	1.000	0.030
12002620	12	Peach, juice			
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000500	1.000	0.030
		211-Cooked; Fresh or N/S; Baked	0.000500	1.000	0.030
		240-Cooked; Canned; Cook Meth N/S	0.000500	1.000	0.030
12002621	12	Peach, juice-babyfood	0.000500	1.000	0.030
95002630	0	Peanut	0.065000	1.000	0.100
95002640	0	Peanut, butter	0.065000	1.000	0.100
95002650	0	Peanut, oil	0.065000	1.000	0.100
14002690	14	Pecan	0.005000	1.000	0.030
08002700	8	Pepper, bell	0.020000	1.000	0.250
08002701	8	Pepper, bell-babyfood	0.020000	1.000	0.250
08002710	8	Pepper, bell, dried	0.020000	1.000	0.250
08002711	8	Pepper, bell, dried-babyfood	0.020000	1.000	0.250
08002720	8	Pepper, nonbell	0.020000	1.000	0.250
08002721	8	Pepper, nonbell-babyfood	0.020000	1.000	0.250
08002730	8	Pepper, nonbell, dried	0.020000	1.000	0.250
95002750	0	Peppermint	0.013000	1.000	0.030
95002760	0	Peppermint, oil	0.013000	1.000	0.030
14002820	14	Pistachio	0.005000	1.000	0.030
12002850	12	Plum	0.005000	1.000	0.030
12002851	12	Plum-babyfood	0.005000	1.000	0.030
12002860	12	Plum, prune, fresh	0.005000	1.000	0.030
12002861	12	Plum, prune, fresh-babyfood	0.005000	1.000	0.030
12002870	12	Plum, prune, dried	0.005000	5.000	0.030
12002871	12	Plum, prune, dried-babyfood	0.005000	5.000	0.030
12002880	12	Plum, prune, juice	0.005000	1.500	0.030

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12002881	12	Plum, prune, juice-babyfood	0.005000	1.500	0.030
01032960	1C	Potato, chips	0.005000	1.000	0.050
01032970	1C	Potato, dry (granules/ flakes)	0.005000	1.000	0.050
01032971	1C	Potato, dry (granules/ flakes)-b	0.005000	1.000	0.050
01032980	1C	Potato, flour	0.005000	1.000	0.050
01032981	1C	Potato, flour-babyfood	0.005000	1.000	0.050
01032990	1C	Potato, tuber, w/peel	0.005000	1.000	0.050
01032991	1C	Potato, tuber, w/peel-babyfood	0.005000	1.000	0.050
01033000	1C	Potato, tuber, w/o peel	0.005000	1.000	0.050
01033001	1C	Potato, tuber, w/o peel-babyfood	0.005000	1.000	0.050
09023080	9B	Pumpkin	0.010000	1.000	0.050
09023090	9B	Pumpkin, seed	0.010000	1.000	0.050
01013140	1AB	Radish, roots	0.023000	1.000	0.100
02003150	2	Radish, tops	0.023000	1.000	0.100
01013160	1AB	Radish, Oriental, roots	0.023000	1.000	0.100
02003170	2	Radish, Oriental, tops	0.023000	1.000	0.100
20003190	20	Rapeseed, oil	0.025000	1.000	1.000
20003191	20	Rapeseed, oil-babyfood	0.025000	1.000	1.000
01013270	1AB	Rutabaga	0.012000	1.000	1.000
15003280	15	Rye, grain	0.003500	1.000	0.350
15003290	15	Rye, flour	0.003500	1.000	0.350
20003300	20	Safflower, oil	0.005000	1.000	0.600
20003301	20	Safflower, oil-babyfood	0.005000	1.000	0.600
01013310	1AB	Salsify, roots	0.024000	1.000	1.000
02003320	2	Salsify, tops	0.024000	1.000	1.000
03003380	3	Shallot	0.014000	1.000	1.000
26003390	M	Sheep, meat	0.003000	1.000	0.030
26003391	M	Sheep, meat-babyfood	0.003000	1.000	0.030
26003400	M	Sheep, meat byproducts	0.048000	1.000	0.030
26003410	M	Sheep, fat	0.015000	1.000	0.030
26003411	M	Sheep, fat-babyfood	0.015000	1.000	0.030
26003420	M	Sheep, kidney	0.048000	1.000	0.030
26003430	M	Sheep, liver	0.145000	1.000	0.030
15003440	15	Sorghum, grain	0.005000	1.000	0.030
15003450	15	Sorghum, syrup	0.005000	1.000	0.030
06003470	6	Soybean, seed	0.005000	1.000	0.150
06003480	6	Soybean, flour	0.005000	1.000	0.150
06003481	6	Soybean, flour-babyfood	0.005000	1.000	0.150
06003490	6	Soybean, soy milk	0.005000	1.000	0.150
06003491	6	Soybean, soy milk-babyfood or in	0.005000	1.000	0.150
06003500	6	Soybean, oil	0.005000	1.000	0.150
06003501	6	Soybean, oil-babyfood	0.005000	1.000	0.150
95003520	O	Spearmint	0.013000	1.000	0.030
95003530	O	Spearmint, oil	0.013000	1.000	0.030
09023560	9B	Squash, summer			
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	0.050
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.050
		212-Cooked; Fresh or N/S; Boiled			
			0.010000	1.000	0.050
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	0.050
		215-Cooked; Fresh or N/S; Boiled/baked			
			0.010000	1.000	0.050
		221-Cooked; Frozen; Baked	0.010000	1.000	0.050
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.050
		242-Cooked; Canned; Boiled	0.010000	1.000	0.050
		250-Cooked; Cured etc; Cook Meth N/S			
			0.010000	1.000	0.050
09023561	9B	Squash, summer-babyfood	0.010000	1.000	0.050
09023570	9B	Squash, winter			
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.010000	1.000	0.050

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		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.050
		212-Cooked; Fresh or N/S; Boiled			
			0.010000	1.000	0.050
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	0.050
		215-Cooked; Fresh or N/S; Boiled/baked			
			0.010000	1.000	0.050
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.050
		242-Cooked; Canned; Boiled	0.010000	1.000	0.050
09023571	9B	Squash, winter-babyfood	0.010000	1.000	0.050
95003620	O	Sugarcane, sugar	0.005000	1.000	0.100
95003621	O	Sugarcane, sugar-babyfood	0.005000	1.000	0.100
95003630	O	Sugarcane, molasses	0.005000	1.000	0.100
95003631	O	Sugarcane, molasses-babyfood	0.005000	1.000	0.100
20003640	20	Sunflower, seed	0.005000	1.000	0.300
20003650	20	Sunflower, oil	0.005000	1.000	0.300
20003651	20	Sunflower, oil-babyfood	0.005000	1.000	0.300
01033660	1CD	Sweet potato	0.010000	1.000	0.050
01033661	1CD	Sweet potato-babyfood	0.010000	1.000	0.050
10003690	10	Tangerine	0.005000	1.000	0.050
10003700	10	Tangerine, juice	0.010000	1.000	0.050
08003750	8	Tomato			
		110-Uncooked; Fresh or N/S; Cook Meth N/S			
			0.010000	1.000	0.500
		150-Uncooked; Cured etc; Cook Meth N/S			
			0.010000	1.000	0.500
		210-Cooked; Fresh or N/S; Cook Meth N/S			
			0.010000	1.000	0.500
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.500
		212-Cooked; Fresh or N/S; Boiled			
			0.010000	1.000	0.500
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	0.500
		214-Cooked; Fresh or N/S; Fried/baked			
			0.010000	1.000	0.500
		215-Cooked; Fresh or N/S; Boiled/baked			
			0.010000	1.000	0.500
		221-Cooked; Frozen; Baked	0.010000	1.000	0.500
		222-Cooked; Frozen; Boiled	0.010000	1.000	0.500
		232-Cooked; Dried; Boiled	0.010000	1.000	0.500
		240-Cooked; Canned; Cook Meth N/S			
			0.010000	1.000	0.500
		242-Cooked; Canned; Boiled	0.010000	1.000	0.500
		252-Cooked; Cured etc; Boiled	0.010000	1.000	0.500
08003751	8	Tomato-babyfood	0.010000	1.000	0.500
08003760	8	Tomato, paste			
		110-Uncooked; Fresh or N/S; Cook Meth N/S			
			0.010000	1.000	0.500
		210-Cooked; Fresh or N/S; Cook Meth N/S			
			0.010000	1.000	0.500
		211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.500
		212-Cooked; Fresh or N/S; Boiled			
			0.010000	1.000	0.500
		213-Cooked; Fresh or N/S; Fried	0.010000	1.000	0.500
		215-Cooked; Fresh or N/S; Boiled/baked			
			0.010000	1.000	0.500
		221-Cooked; Frozen; Baked	0.010000	1.000	0.500
		232-Cooked; Dried; Boiled	0.010000	1.000	0.500
		240-Cooked; Canned; Cook Meth N/S			
			0.010000	1.000	0.500
		242-Cooked; Canned; Boiled	0.010000	1.000	0.500
08003761	8	Tomato, paste-babyfood	0.010000	1.000	0.500
08003770	8	Tomato, puree			
		110-Uncooked; Fresh or N/S; Cook Meth N/S			

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		0.010000	1.000	0.500
	210-Cooked; Fresh or N/S; Cook Meth N/S			
		0.010000	1.000	0.500
	211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.500
	212-Cooked; Fresh or N/S; Boiled			
		0.010000	1.000	0.500
	213-Cooked; Fresh or N/S; Fried	0.010000	1.000	0.500
	215-Cooked; Fresh or N/S; Boiled/baked			
		0.010000	1.000	0.500
	221-Cooked; Frozen; Baked	0.010000	1.000	0.500
	232-Cooked; Dried; Boiled	0.010000	1.000	0.500
	240-Cooked; Canned; Cook Meth N/S			
		0.010000	1.000	0.500
	242-Cooked; Canned; Boiled	0.010000	1.000	0.500
	252-Cooked; Cured etc; Boiled	0.010000	1.000	0.500
08003771 8	Tomato, puree-babyfood	0.010000	1.000	0.500
08003780 8	Tomato, dried			
	110-Uncooked; Fresh or N/S; Cook Meth N/S			
		0.010000	1.000	0.500
	130-Uncooked; Dried; Cook Meth N/S			
		0.010000	1.000	0.500
	210-Cooked; Fresh or N/S; Cook Meth N/S			
		0.010000	1.000	0.500
	211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.500
	212-Cooked; Fresh or N/S; Boiled			
		0.010000	1.000	0.500
	214-Cooked; Fresh or N/S; Fried/baked			
		0.010000	1.000	0.500
	215-Cooked; Fresh or N/S; Boiled/baked			
		0.010000	1.000	0.500
	230-Cooked; Dried; Cook Meth N/S			
		0.010000	1.000	0.500
	231-Cooked; Dried; Baked	0.010000	1.000	0.500
	232-Cooked; Dried; Boiled	0.010000	1.000	0.500
08003781 8	Tomato, dried-babyfood	0.010000	1.000	0.500
08003790 8	Tomato, juice			
	110-Uncooked; Fresh or N/S; Cook Meth N/S			
		0.010000	1.000	0.500
	210-Cooked; Fresh or N/S; Cook Meth N/S			
		0.010000	1.000	0.500
	211-Cooked; Fresh or N/S; Baked	0.010000	1.000	0.500
	212-Cooked; Fresh or N/S; Boiled			
		0.010000	1.000	0.500
	240-Cooked; Canned; Cook Meth N/S			
		0.010000	1.000	0.500
	242-Cooked; Canned; Boiled	0.010000	1.000	0.500
14003910 14	Walnut	0.005000	1.000	0.030
86010000 O	Water, direct, all sources	0.000400	1.000	1.000
86020000 O	Water, indirect, all sources	0.000400	1.000	1.000
09013990 9A	Watermelon	0.015000	1.000	0.150
09014000 9A	Watermelon, juice	0.015000	1.000	0.150
15004010 15	Wheat, grain	0.003500	1.000	1.000
15004011 15	Wheat, grain-babyfood	0.003500	1.000	1.000
15004020 15	Wheat, flour	0.003500	1.000	1.000
15004021 15	Wheat, flour-babyfood	0.003500	1.000	1.000
15004030 15	Wheat, germ	0.003500	1.000	1.000
15004040 15	Wheat, bran	0.003500	1.000	1.000

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Attachment 6a. Chronic Result Files (DEEMFCID)

U.S. Environmental Protection Agency Ver. 1.30
 DEEM-FCID Chronic analysis for TRIFLURALIN (1994-98 data)
 Residue file name: C:\DEEMFCID\Trifluralin\trifluralin\trifluralinchronicH20.R98
 Adjustment factor #2 used.
 Analysis Date 03-03-2004/14:35:38 Residue file dated: 03-03-2004/14:35:16/8
 Reference dose (RfD, Chronic) = .024 mg/kg bw/day
 COMMENT 1: All Populations + drinking H2O

=====

Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000030	0.1%
U.S. Population (spring season)	0.000030	0.1%
U.S. Population (summer season)	0.000031	0.1%
U.S. Population (autumn season)	0.000030	0.1%
U.S. Population (winter season)	0.000030	0.1%
Northeast region	0.000030	0.1%
Midwest region	0.000031	0.1%
Southern region	0.000029	0.1%
Western region	0.000033	0.1%
Hispanics	0.000032	0.1%
Non-hispanic whites	0.000030	0.1%
Non-hispanic blacks	0.000028	0.1%
Non-hisp/non-white/non-black	0.000036	0.2%
All infants (< 1 year)	0.000062	0.3%
Nursing infants	0.000029	0.1%
Non-nursing infants	0.000075	0.3%
Children 1-6 yrs	0.000064	0.3%
Children 7-12 yrs	0.000038	0.2%
Females 13-19 (not preg or nursing)	0.000023	0.1%
Females 20+ (not preg or nursing)	0.000025	0.1%
Females 13-50 yrs	0.000026	0.1%
Females 13+ (preg/not nursing)	0.000026	0.1%
Females 13+ (nursing)	0.000034	0.1%
Males 13-19 yrs	0.000027	0.1%
Males 20+ yrs	0.000025	0.1%
Seniors 55+	0.000025	0.1%
Children 1-2 yrs	0.000073	0.3%
Children 3-5 yrs	0.000062	0.3%
Children 6-12 yrs	0.000041	0.2%
Youth 13-19 yrs	0.000025	0.1%
Adults 20-49 yrs	0.000025	0.1%
Adults 50+ yrs	0.000025	0.1%
Females 13-49 yrs	0.000024	0.1%

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Attachment 6b. Chronic Result Files (Lifeline)

age_group	P_95	cPAD_95	Chronic_moe_95	P_99	cPAD_99	Chronic_moe_99	P_99_9	cPAD_99.9	Chronic_moe_99.9	mean	cPAD_mean
General U.S. Population	3.75E-05	0.156313	63974.41	5.26E-05	0.219302	45599.2	6.76E-05	0.281755	35491.8	1.94E-05	0.080884
All Infants (<1 year old)	5.12E-05	0.213161	46912.8	6.04E-05	0.251703	39729.34	8.21E-05	0.342167	29225.52	3.32E-05	0.138371
Children 1-2 years old	6.61E-05	0.275599	36284.61	7.32E-05	0.30501	32785.77	8.69E-05	0.36201	27623.51	5.05E-05	0.210468
Children 3-5 years old	5.11E-05	0.212797	46993.17	5.82E-05	0.242313	41269.02	6.64E-05	0.27662	36150.7	3.87E-05	0.161307
Children 6-12 years old	3.66E-05	0.152594	65533.48	4.23E-05	0.176375	56697.38	5.17E-05	0.215365	46432.89	2.41E-05	0.100304
Youth 13-19 years old	2.39E-05	0.099375	100628.9	2.9E-05	0.120755	82812.16	3.51E-05	0.146198	68400.43	1.6E-05	0.066479
Adults 20-49 years old	2.57E-05	0.107099	93371.59	3.06E-05	0.127677	78322.59	3.86E-05	0.160943	62133.91	1.71E-05	0.071436
Adults 50+ years old	2.59E-05	0.107755	92802.94	3.11E-05	0.129469	77238.72	3.84E-05	0.160167	62434.96	1.73E-05	0.072284
Females 13-49 years old	2.54E-05	0.105906	94423.13	3.04E-05	0.126656	78953.86	3.81E-05	0.158594	63054.19	1.69E-05	0.070498

Attachment 7a. Cancer Result Files (DEEMFCID)

U.S. Environmental Protection Agency
 DEEM-FCID Chronic analysis for TRIFLURALIN
 Residue file name: C:\DEEMFCID\Trifluralin\trifluralin\trifluralinchronicH20canc.R98
 Ver. 1.30
 (1994-98 data)
 Adjustment factor #2 used.
 Analysis Date 03-03-2004/14:34:09 Residue file dated: 03-03-2004/14:33:31/8
 Q* = 0.0058

COMMENT 1: All Populations + drinking H2O

=====
 Total exposure by population subgroup
 =====

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Lifetime risk (Q*= .0058)
U.S. Population (total)	0.000028	1.64E-07
U.S. Population (spring season)	0.000028	1.62E-07
U.S. Population (summer season)	0.000029	1.69E-07
U.S. Population (autumn season)	0.000028	1.63E-07
U.S. Population (winter season)	0.000028	1.62E-07
Northeast region	0.000028	1.64E-07
Midwest region	0.000029	1.68E-07
Southern region	0.000027	1.54E-07
Western region	0.000030	1.75E-07
Hispanics	0.000030	1.74E-07
Non-hispanic whites	0.000028	1.63E-07
Non-hispanic blacks	0.000026	1.52E-07
Non-hisp/non-white/non-black	0.000033	1.94E-07
All infants (< 1 year)	0.000056	3.22E-07
Nursing infants	0.000027	1.55E-07

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Non-nursing infants	0.000066	3.86E-07
Children 1-6 yrs	0.000061	3.56E-07
Children 7-12 yrs	0.000036	2.12E-07
Females 13-19 (not preg or nursing)	0.000022	1.25E-07
Females 20+ (not preg or nursing)	0.000023	1.32E-07
Females 13-50 yrs	0.000024	1.39E-07
Females 13+ (preg/not nursing)	0.000024	1.41E-07
Females 13+ (nursing)	0.000031	1.82E-07
Males 13-19 yrs	0.000025	1.45E-07
Males 20+ yrs	0.000023	1.33E-07
Seniors 55+	0.000023	1.34E-07
Children 1-2 yrs	0.000070	4.07E-07
Children 3-5 yrs	0.000059	3.41E-07
Children 6-12 yrs	0.000039	2.25E-07
Youth 13-19 yrs	0.000023	1.36E-07
Adults 20-49 yrs	0.000023	1.33E-07
Adults 50+ yrs	0.000023	1.34E-07
Females 13-49 yrs	0.000022	1.30E-07

Attachment 7b. Cancer Result Files (Lifeline)

PExp_mean	PRisk_mean	PExp_95	PRisk_95	PExp_99	PRisk_99	PExp_99_9	PRisk_99_9
1.94E-05	1.13E-07	2.75E-05	1.59E-07	3.16E-05	1.83E-07	4.02E-05	2.33E-07

Attachment 8. Percent Crop Treated from BEAD

Screening Level Estimates of Agricultural Uses of trifluralin
Sorted Alphabetically

OBS	Crop	Pounds of Active Ingredient	Percent of Crop Treated
1	Alfalfa	500,000	<2.5
2	Almonds	9,000	<2.5
3	Apples	4,000	<2.5
4	Apricots (CA only)	<500	
5	Asparagus	20,000	25
6	Barley	90,000	5
7	Basil (CA only)	<500	
8	Beans (CA only)	10,000	
9	Beans, Green	70,000	35
10	Beans/Peas, Dry	300,000	
11	Beans/Peas, Vegetable	200,000	
12	Beets (CA only)	<500	

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13	Broccoli	8,000	10
14	Broccoli, Chinese (CA only)	<500	
15	Brussels Sprouts (CA only)	<500	
16	Cabbage	30,000	45
17	Canola & Rapeseed	200,000	
18	Cantaloupes	10,000	15
19	Carrots	50,000	55
20	Cauliflower	3,000	10
21	Celery	1,000	10
22	Cherries (CA only)	<500	
23	Chicory (CA only)	1,000	
24	Chinese greens (CA only)	<500	
25	Clover (CA only)	4,000	
26	Collards	3,000	35
27	Corn	50,000	<2.5
28	Cotton	5,000,000	45
29	Cucumbers	3,000	5
30	Dry Beans	300,000	30
31	Dry Peas	20,000	15
32	Durum Wheat	600,000	35
33	Eggplant (CA only)	<500	
34	Eggplant, Oriental (CA only)	<500	
35	Endive (Escarole) (CA only)	<500	
36	Fennel (CA only)	<500	
37	Flax	40,000	
38	Garlic (CA only)	<500	
39	Grapefruit	2,000	
40	Grapes	20,000	<2.5
41	Grasses, Bermuda (CA only)	30,000	
42	Grasses, Bermuda, Forage (CA only)	10,000	
43	Greens, Mustard	2,000	25
44	Greens, Turnip	2,000	30
45	Hay, Other	1,000	
46	Honeydew	1,000	5
47	Hops	1,000	5
48	Kale	1,000	25
49	Kiwifruit (CA only)	<500	
50	Kohlrabi (CA only)	<500	
51	LEGUME (FORAGE - FODDER) (CA only)	<500	
52	Leeks (CA only)	<500	
53	Lemons	2,000	5
54	Lettuce	1,000	<2.5
55	Limes (CA only)	<500	
56	Melons	30,000	
57	Mint	2,000	<2.5
58	Mustard (CA only)	<500	
59	Nectarines (CA only)	1,000	
60	Oats (CA only)	<500	
61	Okra	<500	20
62	Olives (CA only)	<500	

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63	Onions	2,000	<2.5
64	Oranges	4,000	<2.5
65	Other Spring Wheat	400,000	5
66	Pasture & Rangeland	5,000	
67	Peaches	1,000	<2.5
68	Peanuts	60,000	10
69	Pears	<500	<2.5
70	Peas, Green	40,000	30
71	Pecans	3,000	<2.5
72	Pepper, Spice (CA only)	<500	
73	Peppers	20,000	25
74	Pimiento type sweet pepper (CA only)	<500	
75	Pistachios (CA only)	<500	
76	Potatoes	30,000	5
77	Prunes & Plums	<500	<2.5
78	Pumpkins	2,000	5
79	Radish, Chinese (CA only)	<500	
80	Radishes	<500	10
81	Rice	5,000	
82	Safflower	50,000	60
83	Sorghum	50,000	<2.5
84	Soybeans	8,200,000	15
85	Spinach	2,000	10
86	Squash	2,000	5
87	Strawberries (CA only)	<500	
88	Sudangrass (CA only)	<500	
89	Sugar Beets	30,000	5
90	Sugarcane	200,000	10
91	Sunflowers	800,000	30
92	Sweet Corn	<500	
93	Sweet Potatoes (CA only)	3,000	
94	Tangelos (CA only)	1,000	
95	Tangerines (CA only)	<500	
96	Tobacco	1,000	
97	Tomatoes	100,000	50
98	Turnips (CA only)	<500	
99	Walnuts	1,000	<2.5
100	Watermelons	20,000	15
101	Wheat	500,000	

All numbers rounded.

'<500' indicates less than 500 pounds of active ingredient.

'<2.5' indicates less than 2.5 percent of crop is treated.

'(CA only)' indicates information was available only for California.

Use of trifluralin may have occurred in other states.

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Appendix 1: Residues data for alfalfa and carrots

Alfalfa	0.13	0.035	0.019	0.0057
	0.11	0.035	0.019	0.0057
	0.11	0.033	0.018	0.0056
0.05	0.11	0.032	0.018	0.0054
0.06	0.1	0.032	0.018	0.0052
0.19	0.093	0.032	0.018	0.0052
0.10	0.091	0.031	0.017	0.0049
0.20	0.091	0.031	0.017	0.0048
0.42	0.089	0.031	0.017	0.0047
0.15	0.086	0.03	0.017	0.0046
	0.085	0.029	0.016	0.0046
0.31	0.081	0.029	0.016	0.0044
1.44	0.077	0.029	0.015	0.0043
0.86	0.075	0.029	0.015	0.0041
0.04	0.072	0.029	0.015	0.0041
0.05	0.072	0.028	0.015	0.004
0.06	0.071	0.028	0.015	0.0039
0.16	0.071	0.028	0.014	0.0038
0.01	0.069	0.028	0.014	0.0037
0.01	0.068	0.028	0.014	0.0037
0.77	0.068	0.028	0.014	0.0037
0.60	0.065	0.028	0.014	0.0037
0.01	0.065	0.028	0.014	0.0036
0.01	0.064	0.028	0.014	0.0036
0.48	0.063	0.028	0.013	0.0036
0.07	0.063	0.028	0.013	0.0035
0.08	0.061	0.028	0.013	0.0035
0.05	0.056	0.028	0.012	0.0034
0.03	0.055	0.028	0.012	0.0034
0.02	0.055	0.028	0.012	0.0034
0.21	0.054	0.028	0.012	0.0034
0.09	0.051	0.028	0.011	0.0034
0.05	0.051	0.028	0.01	0.0033
0.07	0.05	0.028	0.01	0.0032
2.21	0.05	0.028	0.0099	0.0032
1.84	0.049	0.027	0.0095	0.0032
0.03	0.048	0.026	0.0095	0.0032
0.03	0.048	0.026	0.0094	0.0031
0.34	0.046	0.026	0.009	0.0031
0.47	0.046	0.026	0.0087	0.003
0.08	0.046	0.026	0.0085	0.003
0.06	0.045	0.025	0.0084	0.003
0.54	0.044	0.025	0.0084	0.0029
1.16	0.043	0.024	0.0082	0.0029
	0.041	0.024	0.0081	0.0029
	0.04	0.024	0.0078	0.0029
	0.04	0.024	0.0077	0.0028
	0.039	0.023	0.0077	0.0028
	0.039	0.023	0.0075	0.0028
	0.039	0.023	0.0075	0.0027
	0.039	0.022	0.0075	0.0027
	0.038	0.022	0.0074	0.0027
	0.037	0.022	0.0071	0.0025
	0.037	0.021	0.0067	0.0025
CARROT	0.036	0.021	0.0066	0.0024
0.21	0.036	0.02	0.0065	0.0024
0.21	0.036	0.02	0.0061	0.0024
0.21	0.036	0.02	0.0061	0.0024
0.18	0.036	0.019	0.006	0.0023
0.17	0.036	0.019	0.0058	0.0023
0.15	0.036	0.019	0.0058	0.0022
0.14	0.036	0.019	0.0058	0.0022

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0.0022	0.001	0.048	0.028	0.023
0.0022	0.001	0.047	0.028	0.022
0.0021	0.001	0.045	0.028	0.022
0.0021	0.001	0.045	0.028	0.022
0.0021	0.001	0.045	0.028	0.022
0.0021	0.001	0.044	0.028	0.022
0.0021	0.24	0.044	0.028	0.022
0.0021	0.2	0.043	0.028	0.021
0.002	0.19	0.043	0.028	0.02
0.002	0.18	0.043	0.028	0.02
0.002	0.15	0.042	0.028	0.02
0.002	0.13	0.042	0.028	0.019
0.0019	0.11	0.042	0.028	0.019
0.0019	0.11	0.041	0.028	0.019
0.0018	0.11	0.04	0.028	0.019
0.0018	0.11	0.04	0.028	0.019
0.0018	0.1	0.04	0.028	0.019
0.0018	0.099	0.04	0.028	0.018
0.0016	0.094	0.04	0.028	0.018
0.0016	0.086	0.039	0.028	0.018
0.0016	0.085	0.038	0.028	0.018
0.001	0.083	0.038	0.028	0.018
0.001	0.081	0.037	0.028	0.018
0.001	0.08	0.037	0.028	0.018
0.001	0.077	0.037	0.028	0.018
0.001	0.077	0.037	0.028	0.018
0.001	0.072	0.037	0.028	0.016
0.001	0.071	0.036	0.028	0.016
0.001	0.07	0.036	0.028	0.016
0.001	0.069	0.036	0.028	0.016
0.001	0.069	0.036	0.028	0.016
0.001	0.069	0.036	0.028	0.016
0.001	0.068	0.036	0.028	0.016
0.001	0.068	0.035	0.028	0.015
0.001	0.066	0.035	0.028	0.015
0.001	0.065	0.035	0.028	0.015
0.001	0.065	0.034	0.028	0.015
0.001	0.064	0.034	0.028	0.015
0.001	0.064	0.033	0.028	0.015
0.001	0.063	0.033	0.028	0.015
0.001	0.062	0.033	0.028	0.015
0.001	0.061	0.033	0.027	0.014
0.001	0.061	0.033	0.027	0.014
0.001	0.06	0.033	0.027	0.014
0.001	0.06	0.032	0.027	0.014
0.001	0.059	0.032	0.027	0.014
0.001	0.059	0.032	0.027	0.013
0.001	0.059	0.031	0.027	0.013
0.001	0.059	0.031	0.026	0.013
0.001	0.057	0.031	0.026	0.012
0.001	0.057	0.031	0.026	0.012
0.001	0.054	0.03	0.026	0.012
0.001	0.054	0.03	0.025	0.012
0.001	0.053	0.03	0.025	0.012
0.001	0.051	0.029	0.025	0.011
0.001	0.051	0.029	0.025	0.011
0.001	0.051	0.028	0.025	0.011
0.001	0.05	0.028	0.024	0.011
0.001	0.05	0.028	0.023	0.01
0.001	0.05	0.028	0.023	0.01
0.001	0.049	0.028	0.023	0.01
0.001	0.049	0.028	0.023	0.0099
0.001	0.049	0.028	0.023	0.0097
0.001	0.048	0.028	0.023	0.0092
0.001	0.048	0.028	0.023	0.0092

