



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**WASHINGTON, D.C. 20460**

**OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES**

**MEMORANDUM**

DATE: 12-MAR-2007

SUBJECT: **Lambda-cyhalothrin:** Acute and Chronic Dietary (Food and Drinking Water) Exposure and Risk Assessment for Section 3 Uses on Barley, Oat, Rye, Wild Rice, Buckwheat, Pistachio, Cucurbit Vegetables (crop group 9), Grass Forage & Hay (crop group 17), and Tuberous & Corm vegetables (crop group 1-C).

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## **Executive Summary**

Acute and chronic dietary (food & drinking water) exposure analyses were conducted using the Dietary Exposure Evaluation Model (DEEM-FCID™, Version 2.03) which uses food consumption data from the U.S. Department of Agriculture's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998. These analyses were performed to support Section 3 requests on barley, oat, rye, wild rice, buckwheat, pistachio, cucurbit vegetables (crop group 9), grass forage & hay (crop group 17), and tuberous & corm vegetables (crop group 1-c).

### Acute Dietary Exposure Results and Characterization

A refined acute probabilistic dietary exposure assessment was performed for lambda-cyhalothrin to support all food uses and drinking water. The acute dietary exposure assessment incorporated processing factors and percent crop treated (%CT) estimates provided by the Biological and Economic Analysis Division (BEAD). Acute anticipated residues were derived from PDP monitoring data, field trial studies, and market basket survey for beef-fat.

The Estimated Drinking Water Concentrations (EDWCs) for lambda-cyhalothrin were calculated based on a maximum application rate of 0.5 lb a.i./A/season for seed orchards (ground application) for surface concentrations. The acute drinking water concentration in surface water of 5.35 ppb was based on the FIRST (FQPA Index Reservoir Screening Tool) estimated peak concentration.

The acute dietary exposure estimates for food and drinking water are below HED's level of concern (<100% aPAD) at the 99.9<sup>th</sup> percentile of exposure. Lambda-cyhalothrin dietary exposure at the 99.9<sup>th</sup> percentile for food and drinking water is 46% of the aPAD for the U.S. population and 61% aPAD for all infants (<1yr), the most highly exposed population subgroup.

### Chronic Dietary Exposure Results and Characterization

A refined chronic dietary exposure assessment was also conducted for the supported food uses of lambda-cyhalothrin and drinking water represented by a single point estimate of anticipated residues for food and drinking water. The surface water concentration of 0.130 ppb was based on the FIRST estimated mean concentration from applications on seed orchards.

The chronic dietary exposure estimates for food and drinking water are below HED's level of concern (<100% cPAD) for the U.S. population and all population subgroups. Lambda-cyhalothrin dietary exposure for food and drinking water is 17% of the cPAD

for the U.S. population and 50% of the cPAD for children 1-2 yrs old, the most highly exposed population subgroup.

### Cancer Dietary Exposure Results and Characterization

Lambda-cyhalothrin is classified as “not likely to be carcinogenic to humans.” Therefore, a cancer dietary analysis is not required.

## **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 Food Quality Protection Act (FQPA) Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. 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 exposure analysis for lambda-cyhalothrin was performed in August of 2002 by William Cutchin when lambda-cyhalothrin was in the process of being registered for use on canola, pome fruits, stone fruits, tree nuts, imported avocados, fruiting vegetables (except cucurbits), peas and beans, dried, succulent shelled, and edible podded, and sugarcane (Aug 06 2002, D276160).

## **II. Residue Information**

Lambda-cyhalothrin is a synthetic pyrethroid insecticide/acaricide used to control a wide range of pests in/on food and feed crops, on livestock, and in and around building and structures. Tolerances are established for the combined residues of lambda-cyhalothrin and its epimer (R157836) in/on plant commodities at levels ranging from 0.01 ppm on soybeans to 10.0 ppm on dried hops and include aspirated grain fractions, head and stem *Brassica* subgroup, corn, cotton seed, dry bulb onions, lettuce, peanuts, soybeans, sorghum, sunflowers, tomatoes, and wheat [40 CFR §180.438(a)(1)]. Tolerances are also established for the combined residues of lambda-cyhalothrin and R157836 in meat, milk, poultry, and eggs (MMPE) at levels ranging from 0.01 ppm in eggs, poultry meat, and poultry meat by-products to 5.0 ppm in milk fat (reflecting 0.2 ppm in whole milk), including a 3.0 ppm tolerance for residues in fat of livestock. In addition, a tolerance of

0.01 ppm has been established for residues in foods potentially exposed to the insecticide during treatment of food handling establishments (FHE).

The revised and new tolerances are listed in Table 1, below. Table 1 does not list the established tolerances that are not being revised. Tolerances for these commodities can be found in [40 CFR §180.438(a)(1)], as stated above.

<b>Table 1. Lambda-Cyhalothrin: New, and Revised Tolerances</b>	
<b>Commodity</b>	<b>Recommended Tolerance (ppm)</b>
Barley, bran	0.2
Barley, grain	0.05
Barley, hay	2.0
Barley, straw	2.0
Buckwheat, grain	0.05
Cucurbit vegetables	0.05
Grass, forage	7.0
Grass, hay	7.0
Grass, straw	10
Hog, fat	0.2
Hog, meat	0.01
Hog, meat-byproducts	0.02
Milk, fat	10
Oat, grain	0.05
Oat, forage	2.0
Oat, hay	2.0
Oat, straw	2.0
Pistachio	0.05
Rice, wild, grain	1.0
Rye, bran	0.2
Rye, grain	0.05
Rye, forage	2.0
Rye, straw	2.0
Tuberous and corm vegetables	0.02

Residue of Concern

The tolerances for lambda cyhalothrin are established as the combined residues of lambda cyhalothrin, a 1:1 mixture of (S)- $\alpha$ -cyano-3-phenoxybenzyl -(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and (R)- $\alpha$ -cyano-3-phenoxybenzyl- (Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-

dimethylcyclopropanecarboxylate and its epimer (R157836) expressed as epimer of lambda cyhalothrin, a 1:1 mixture of (S)- $\alpha$ -cyano-3- phenoxybenzyl- (Z)-(1S,3S)- 3- (2-chloro- 3,3,3- trifluoroprop -1-enyl)-2,2- dimethylcyclopropane- carboxylate and (R)- $\alpha$ -cyano-3- phenoxybenzyl-(Z)-(1R,3R) -3-(2-chloro- 3,3,3- trifluoroprop-1- enyl) -2,2- dimethylcyclopropanecarboxylate.

The nature of the residue in plants is adequately understood based on adequate cotton, cabbage, soybeans and wheat metabolism studies (PP#7F3560/7H5543, M. Flood, 1/22/92). Lambda-cyhalothrin is metabolized by cleavage of the ester linkage to form cyclopropanecarboxylic acids and the corresponding phenoxybenzoic acids or alcohols. In most cases the parent compound is the principal constituent of the residue. However, in the cabbage metabolism study the cis- and trans- cyclopropanecarboxylic acids were the major constituents. HED has concluded that the plant metabolites need not appear in the tolerance expression at this time due to lack of toxicological concern and low concentrations found from residue studies (Memo, P. Hurley, 1/3/92). The residue to be regulated is lambda-cyhalothrin and its epimer R157836.

Studies of lambda-cyhalothrin metabolism in ruminants and poultry have been reviewed. Lambda-cyhalothrin is the major component of the residue in animals, except in kidney and liver, where, in addition to the plant metabolites, 3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2-hydroxymethyl-2-methylcyclopropane-carboxylic acid (OH-CPA) and 4-hydroxy-3-phenoxybenzoic acid (4'-OH-3PBAcid) may be present in significant quantities. A residue transfer study in which cows were fed dietary levels of 8, 25 or 80 ppm lambda-cyhalothrin demonstrated that, at < 8 ppm, OH-CPA levels in tissue would not exceed 0.01 ppm (PP#2F4109, 2F4114, 7F3560, and 1F3992, M. Flood, 8/31/92). As with plants, HED has determined that the residue to be regulated is lambda-cyhalothrin and its epimer R157836. The animal metabolites do not need to appear in the tolerance expression.

#### Residue Data Used for Acute and Chronic Dietary Assessments

The registrant supported new uses on barley, oat, rye, wild rice, buckwheat, cucurbit vegetables (crop group 9), grass forage & hay (crop group 17), tuberous & corm vegetables (crop group 1-c). New field trials were carried out on cantaloupes, cucumbers, potatoes, and summer squash. A market basket survey was provided by Syngenta for Beef-fat. Adequate PDP monitoring data are available for the following commodities: apples, broccoli, cauliflower, lettuce, onions, peaches, pears, sweet bell peppers, soybeans, wheat, sweet corn, sweet peas, and butter. Tolerance level values were used for the following commodities: okra, eggplant, poultry, treenuts group (crop group 14) except almonds & pecans, and tuberous & corm vegetables subgroup (crop group 1-c) except potatoes. Anticipated residues for lambda-cyhalothrin based on PDP monitoring data, field trial studies, and market basket survey for beef-fat are provided in Attachment 1 (table 5).

### Market Basket Survey for Beef-fat (MRID# 46686001)

A market basket survey was provided by Syngenta for beef-fat. Of the 232 samples, lambda-cyhalothrin was non-detectable (<1 ppb) in 216 samples (93.1%), detectable but non-quantifiable in 11 samples (4.7%), and quantifiable ( $\geq 3$  ppb) in only 5 samples (2.2%). Quantifiable residues of lambda-cyhalothrin were found at 3.0-19.2 ppb, and were confirmed by a secondary analysis. The results of the beef fat market basket study were translated from beef fat to all other beef commodities (i.e. meat and meat by-products).

Metabolism data have shown that lambda-cyhalothrin residues concentrate in fat, and therefore beef fat residues represent an upper-bound estimate of residues that could potentially be found in all beef commodities. Although the recommended tolerances for residues in livestock feed items could potentially contribute to secondary residues in livestock commodities, HED would not expect increased residues in beef commodities, based on the maximum theoretical dietary burden from existing and proposed uses. Furthermore, the market basket survey data reflect both secondary residues from feed items as well as residues resulting from direct dermal application to beef cattle. The market basket survey data present a realistic estimate of residues in beef fat, which are likely conservative estimates of potential residues in meat and meat by-products.

### PDP Monitoring Data Residue Estimates for Individual Crops

Apples: PDP data from 2004-2005 was used for apples. A total of 1056 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 12 samples. The estimated maximum %CT for apples of 10% was used for the acute dietary risk assessment and the estimated average %CT of 5% was used for the chronic dietary risk assessment. The highest apple detection value was used as a point estimate for the translation to crabapple.

Broccoli: PDP data from 2002 was used for broccoli. A total of 522 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 1 sample. The estimated maximum %CT for broccoli of 20% was used for the acute dietary risk assessment and the estimated average %CT of 10% was used for the chronic dietary risk assessment.

Cauliflower: PDP data from 2004-2005 was used for cauliflower. A total of 926 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for cauliflower of 30% was used for the acute dietary risk assessment and the estimated average %CT of 20% was used for the chronic dietary risk assessment.

Lettuce: PDP data from 2004-2005 was used for lettuce. A total of 1054 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 102 samples. The estimated maximum %CT for lettuce of 45% was used for the acute dietary risk assessment and the estimated average %CT of 30% was used for the chronic dietary risk assessment.

Onions: PDP data from 2002-2003 was used for onions. A total of 1049 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for onions of 55% was used for the acute dietary risk assessment and the estimated average %CT of 50% was used for the chronic dietary risk assessment. Onions data were translated to garlic.

Peaches: PDP data from 2002 was used for peaches. A total of 563 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 1 sample. The estimated maximum %CT for peaches of 10% was used for the acute dietary risk assessment and the estimated average %CT of 5% was used for the chronic dietary risk assessment. The peach detection value was used as a point estimate for the translations to apricot and nectarine.

Pears: PDP data from 2004-2005 was used for pears. A total of 721 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for pears of 30% was used for the acute dietary risk assessment and the estimated average %CT of 15% was used for the chronic dietary risk assessment. The pear  $\frac{1}{2}$  limit of detection (LOD) value was used as a point estimate for the translations to loquats and quinces.

Bell Peppers: PDP data from 2002 and 2004 was used for bell peppers. A total of 1485 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 45 samples. The estimated maximum %CT for bell peppers of 15% was used for the acute dietary risk assessment and the estimated average %CT of 5% was used for the chronic dietary risk assessment.

Soybean: PDP data from 2005 was used for soybeans. A total of 368 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for soybeans of 10% was used for the acute dietary risk assessment and the estimated average %CT of 5% was used for the chronic dietary risk assessment.

Wheat: PDP data from 2005 was used for wheat. A total of 674 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 1 sample. The estimated maximum %CT for wheat of 2.5%

was used for the acute dietary risk assessment and the estimated average %CT of 1% was used for the chronic dietary risk assessment. The wheat detection value was used as a point estimate for the translations to barley, oat, rye, and buckwheat.

Butter: PDP data from 2003 was used for butter. A total of 731 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 422 samples. Estimates of maximum and average %CT for butter were not available. The acute and chronic dietary risk assessments used 100% crop treated. The PDP monitoring data for butter were translated to milk, which is considered to be a conservative approach for estimating residues in milk. Metabolism data have shown that lambda-cyhalothrin residues concentrate in fat and in milk fat; since butter has a higher fat content than milk, residues in butter are expected to be higher than residues in milk. In the absence of milk monitoring data, HED chose to use the butter monitoring data as an upper bound estimate of residues in milk; this approach was considered to be better than using anticipated residues from feeding studies, since the butter monitoring data reflect secondary residues as well as residues resulting from direct dermal application to lactating dairy cattle.

Sweet Corn, Canned/Frozen: PDP data from 2002-2003 was used for sweet corn. A total of 915 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for sweet corn of 60% was used for the acute dietary risk assessment and the estimated average %CT of 45% was used for the chronic dietary risk assessment.

Sweet Peas, Canned/Frozen: PDP data from 2002-2003 was used for succulent peas. A total of 521 samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The estimated maximum %CT for succulent peas of 2.5% was used for the acute dietary risk assessment and the estimated average %CT of 1% was used for the chronic dietary risk assessment.

Field Trial Data for Individual Crops: Cucumbers, cantaloupes, and summer squash were translated to other cucurbit vegetables in accordance with HED SOP 2000.1, "Guidance for Translation of Field Trial Data from Representative Commodities in the Crop Group Regulation to Other Commodities in Each Crop Group/Subgroup" 9/12/2000. Total residue levels for each sample were calculated as the sum of the residues for lambda-cyhalothrin and its epimer R157836. For those residues which are <LOQ (Limit of Quantitation),  $\frac{1}{2}$  LOQ was used in the calculation.

Cucumber (MRID# 46665302): Seven cucumber field trials were carried out in 2000. Fourteen samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 8 samples.



Cantaloupe (MRID# 46665301): Six cantaloupe field trials were carried out in 2000. Twelve samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 6 samples.

Potato (MRID# 46665304): Sixteen potato field trials were carried out in 2000. Thirtytwo samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were not detected in any samples. The ½ LOQ value for lambda-cyhalothrin and R157836 was used for the 32 samples.

Summer Squash (MRID# 46665303): Five summer squash field trials were carried out in 2000. Ten samples were analyzed for lambda-cyhalothrin and R157836. The combined residues of lambda-cyhalothrin and R157836 were detected in 3 samples.

#### Food Handling Establishment

The tolerance for the established use for lambda-cyhalothrin is 0.01 ppm, based upon the LOQ for the analytical method. This value was used in the chronic dietary exposure assessment.

#### Usage Information

The screening level estimates of agricultural uses (SLUA) for lambda-cyhalothrin were provided by BEAD based on data years 1999-2004 (A. Halvorson, SLUA, Sept 17 2006). The estimated maximum %CT for each commodity was used for the acute dietary risk assessment and the estimated weighted average %CT for each commodity for the chronic dietary risk assessment. Where no further information was available and for new uses, 100%CT was assumed. See Attachment 6.

#### Processing Information:

Studies to determine the residues of lambda-cyhalothrin after processing have been conducted on apples, peaches, dried prunes, and canola, (PP#0F6092, W. Cutchin, Jun 27 2002). The residues in apples after peeling, cooking, and canning declined significantly for an average concentration factor of 0.08X. The apple processing factor was applied to apple and pear processed food forms. Residues in peaches after peeling and canning declined significantly to an average concentration factor of 0.04X. Residues in peaches after canning did not concentrate. The peach processing factor was applied to peach and apricot processed food forms. Residues in prunes dried indicate concentration of lambda-cyhalothrin up to 1.4X. The results of the canola processing study indicates no concentration of residues in meal and approximately a 1.7 - 2.5X concentration of lambda-cyhalothrin and 3.3 - 5X for R157836 in oil. The study concludes that the appropriate oil concentration factor is 2.3X. The results of the wheat processing study

indicate concentration of lambda-cyhalothrin residues in wheat bran up to 3X (PP#9F3770, 7F3560, J. Morales, Dec 16 1994). The wheat bran processing factor was applied to the brans of wheat, barley, and oats. The brans of rye and buckwheat are not listed as food commodities in DEEM. See Attachment 7.

### **III. Drinking Water Data**

The drinking water residues used in the dietary risk assessment were provided by the Environmental Fate and Effects Division (EFED) in the following memorandum: "Tier I Estimated Environmental Concentrations of Lambda-Cyhalothrin and It's Transformation Product of Concern XV for the Use in the Human Health Risk Assessment" (J.Melendez, DPNum 324222, 330149, Oct 26 2006) and incorporated directly into this dietary assessment. Water residues were incorporated in the DEEM-FCID into the food categories "water, direct, all sources" and "water, indirect, all sources."

The EDWCs for lambda-cyhalothrin and degradate were unrefined and calculated using SCI-GROW (Screening Concentration In Ground Water) and FIRST for use in the human health risk assessment. The estimated groundwater concentrations for lambda-cyhalothrin calculated using SCI-GROW were not used in the assessment because residues are shown to be much higher in surface water.

The EDWCs for lambda-cyhalothrin were calculated based on a maximum application rate of 0.5 lb a.i./A/season for seed orchards (ground application) for surface and ground waters concentrations. A default Percent Cropped Area (PCA) factor of 0.87 (87%) was applied to the seed orchards scenario. The seed orchards scenario using FIRST model produced the highest concentrations. The acute drinking water concentration in surface water is 5.35 ppb of lambda-cyhalothrin and degradate. The chronic drinking water concentration is 0.130 ppb.

### **IV. DEEM-FCID™ Program and Consumption Information**

Lambda-cyhalothrin acute and chronic dietary exposure assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID™, Version 2.03), 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, but for acute exposure assessment 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 to produce a residue intake estimate. The resulting residue intake estimate for each food/food form is summed with the residue intake 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., only 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, any significant differences in user vs. per capita exposure and risk are specifically identified and noted in the risk assessment.

## V. Toxicological Information

The risk assessment team re-evaluated the toxicology data and decided endpoints for lambda- cyhalothrin in the concurrent human health risk assessment (DPNum 313315, W. Drew). The endpoints are summarized in Table 2.

<b>Table 2. Summary of Toxicological Doses and Endpoints for lambda-cyhalothrin for Use in Dietary Exposure Assessment</b>			
<b>Exposure Scenario</b>	<b>Dose Used in Risk Assessment, UF</b>	<b>Hazard and Exposure Based FQPA Safety Factor</b>	<b>Study and Toxicological Effects</b>
Acute Dietary <u>General US pop.</u>	NOAEL = 0.5 mg/kg/day  UF = 100  <b>Acute RfD</b> = 0.005 mg/kg/day	FQPA SF = 1X  aPAD = $\frac{\text{acute RfD}}{\text{FQPA SF}}$  <b>aPAD</b> = 0.005 mg/kg/day	Chronic Dog Study ( $\lambda$ -cyhalothrin) LOAEL = 3.5 mg/kg/day based on clinical signs of neurotoxicity (ataxia) observed from Day 2, 3-7 hours post-dosing
Chronic Dietary <u>all populations</u>	NOAEL= 0.1 mg/kg/day  UF = 100  <b>Chronic RfD</b> = 0.001 mg/kg/day	FQPA SF = 1X  cPAD = $\frac{\text{chronic RfD}}{\text{FQPA SF}}$  <b>cPAD</b> = 0.001 mg/kg/day	Chronic Dog Study ( $\lambda$ -cyhalothrin) LOAEL = 0.5 mg/kg/day based on clinical signs of neurotoxicity (abnormal gait) in two dogs
Cancer (oral, dermal, inhalation)	Classification: “not likely to be carcinogenic to humans” based on the absence of significant tumor increases in two adequate rodent carcinogenicity studies.		

## VI. Results/Discussion

As stated above, for acute and chronic assessments, HED is concerned when dietary risk exceeds 100% of the PAD. The DEEM-FCID™ analyses estimate the dietary exposure of the U.S. population and various population subgroups. 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, adults 20-49, and adults 50+ years.

### Results of Acute Dietary Exposure Analysis

The acute dietary exposure estimates from combined food and drinking water are below HED’s level of concern (<100% aPAD) at the 99.9<sup>th</sup> percentile of exposure (Table 3). Lambda-cyhalothrin dietary exposure at the 99.9<sup>th</sup> percentile from food and drinking water is 46% of the aPAD for the U.S. population and 61% of the aPAD for all infants (<1 yr), the most highly exposed population subgroup.

**Table 3. Results of Acute Dietary (Food and Drinking Water) Exposure Analysis Using DEEM FCID**

Population Subgroup	aPAD (mg/kg/day)	95 <sup>th</sup> Percentile		99 <sup>th</sup> Percentile		99.9 <sup>th</sup> Percentile	
		Exposure (mg/kg/day)	% aPAD*	Exposure (mg/kg/day)	% aPAD*	Exposure (mg/kg/day)	% aPAD*
General U.S. Population	0.005	0.000662	13%	0.001134	23%	0.002275	46%
All Infants (< 1 year old)	0.005	0.001308	26%	0.001855	37%	<b>0.003031</b>	<b>61%</b>
Children 1-2 years old	0.005	0.001166	23%	0.001732	35%	0.002714	54%
Children 3-5 years old	0.005	0.000908	18%	0.001403	28%	0.002534	51%
Children 6-12 years old	0.005	0.000619	12%	0.000933	19%	0.001602	32%
Youth 13-19 years old	0.005	0.000431	9%	0.000792	16%	0.002009	40%
Adults 20-49 years old	0.005	0.000614	12%	0.001136	23%	0.002636	53%
Adults 50+ years old	0.005	0.000434	9%	0.000793	16%	0.001455	29%
Females 13-49 years old	0.005	0.000453	9%	0.000831	17%	0.001567	31%

Results of Chronic Dietary Exposure Analysis

The chronic dietary exposure estimates from food and drinking water using the seed orchards scenario are below HED's level of concern (<100% cPAD) for the U.S. population and all population subgroups. Lambda-cyhalothrin dietary exposure from food and drinking water for the U.S. population is 17% of the cPAD and 50% of the cPAD for children 1-2 years old, the most highly exposed population subgroup.

<b>Table 4. Summary of Dietary Exposure (Food and Drinking Water) and Risk for lambda-cyhalothrin</b>						
Population Subgroup	Acute Dietary (99.9 Percentile)		Chronic Dietary		Cancer	
	Dietary Exposure (mg/kg/day)	% aPAD	Dietary Exposure (mg/kg/day)	% cPAD	Dietary Exposure (mg/kg/day)	Risk
General U.S. Population	0.002275	46%	0.000173	17%		
<b>All Infants (&lt; 1 year old)</b>	<b>0.003031</b>	<b>61%</b>	0.000222	22%	N/A	N/A
<b>Children 1-2 years old</b>	0.002714	54%	<b>0.000503</b>	<b>50%</b>		
Children 3-5 years old	0.002534	51%	0.000367	37%		
Children 6-12 years old	0.001602	32%	0.000222	22%		
Youth 13-19 years old	0.002009	40%	0.00013	13%		
Adults 20-49 years old	0.002636	53%	0.000153	15%		
Adults 50+ years old	0.001455	29%	0.000125	13%		
Females 13-49 years old	0.001567	31%	0.000121	12%		

**VII. Characterization of Inputs/Outputs**

The acute and chronic dietary exposure assessments were refined through the use of experimentally determined processing factors, DEEM 7.81 default processing factors, and percent crop treated estimates provided by BEAD. The anticipated residue estimates are based primarily on USDA PDP monitoring data, field trial data and beef-fat market basket survey. The monitoring data did analyze for lambda-cyhalothrin and the metabolite of concern R157836. HED concludes that the exposure estimates provided in this document are unlikely to underestimate actual exposure.

Residue Characterization: Residue field trial data are adequate to support the established and proposed lambda-cyhalothrin tolerances. The nature of the residues of lambda-cyhalothrin in plants and animals is understood.

Translation of Residue Data: Translations were made for apple, wheat, onion, peach, and pear PDP data in accordance with HED SOP 99.3. Cucumber, cantaloupe, and summer squash field trial data was used in accordance with HED SOP 2000.1 for the entirety of cucurbit vegetables (crop group 9). Peas and beans (crop group 6) used the residue field trial data and sweet pea PDP data for the entirety of each subgroup in accordance with HED SOP 99.3 and HED SOP 2000.1.

Processing Factors: Processing studies were available for apples, peaches, dried prunes, canola and wheat bran as well as cooking studies for apples and peaches. The apple juice and cooking processing factors were applied to pears. The peach canning processing factor was applied to apricots. The wheat bran processing factor was applied to the brans of wheat, barley, and oats. No other processing factors were extended to other commodities.

Adequacy of %CT data: Percent crop treated data have been provided by BEAD for most commodities in the analysis. 100%CT was assumed for new uses and for existing uses where no further information was available.

## **VIII. Conclusions**

Acute and chronic dietary (food and water) exposure assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID™, Version 2.03), which uses food consumption data from the USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998. The acute and chronic dietary risk assessments were conducted for all supported lambda-cyhalothrin food uses and were performed to support Section 3 requests on barley, oat, rye, wild rice, buckwheat, pistachio, cucurbit vegetables (crop group 9), grass forage & hay (crop group 17), and tuberous & corm vegetables (crop group 1-c). The anticipated residue (AR) estimates are based primarily on PDP monitoring data, field trial studies, and market basket survey for beef-fat.

The acute dietary exposure estimates from combined food and drinking water are below HED's level of concern (<100% aPAD) at the 99.9<sup>th</sup> percentile of exposure (Table 3). Lambda-cyhalothrin dietary exposure at the 99.9<sup>th</sup> percentile from food and drinking water is 46% of the aPAD for the U.S. population and 61% of the aPAD for all infants (<1 yr), the most highly exposed population subgroup.

The chronic dietary exposure estimates from food and drinking water are below HED's level of concern (<100% cPAD) for the U.S. population and all population subgroups. Lambda-cyhalothrin dietary exposure from food and drinking water for the U.S. population is 17% of the cPAD and 50% of the cPAD for children 1-2 years old, the most highly exposed population subgroup.

## **IX. References**

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## **X. List of Attachments**

Attachment 1: Lambda-Cyhalothrin Acute and Chronic Anticipated Residues/Monitoring Data

Attachment 2: Acute Dietary Analysis (Food + Water) Residue Input file.

Attachment 3: Acute Dietary Analysis (Food + Water) Results file.

Attachment 4: Chronic Dietary Analysis (Food + Water) Residue Input file.

Attachment 5: Chronic Dietary Analysis (Food + Water) Results file.

Attachment 6: BEAD Screening Level Usage Analysis for lambda-cyhalothrin.

Attachment 7: Processing Factors used for lambda-cyhalothrin Acute and Chronic Dietary Analysis

Attachment 8: Anticipated Residues Summary Table



Attachment 1: Lambda-cyhalothrin Acute and Chronic Anticipated Residues/Monitoring Data

Table: 5 Lambda-Cyhalothrin Acute and Chronic Anticipated Residues/Monitoring Data			
RDF# 30 Almond nutmeats FT crop treated=5% TOTALZ = 190 TOTALNZ = 10 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	RDF# 10 Apples PDP crop treated= 10% 1056samples/12det TOTALZ = 950 TOTALNZ = 12 TOTALLOD = 94 LODRES = 0.0068 0.01 0.01 0.033 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.033 0.01 0.01 0.023	RDF# 22 Apples Dried PDP crop treated= 10% 1056samples/12det TOTALZ = 0 TOTALNZ = 12 TOTALLOD = 1044 LODRES = 0.0068 0.01 0.01 0.033 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.033 0.01 0.01 0.023	Apricot- Peaches PDP data Crop treated=100% 563samples/1det  <i>Use point estimate from 1 peach detect =0.005</i>
CHRONIC 5% 0.01 x 0.05= 0.0005	CHRONIC 5% 0.4578/1056= 0.0004	CHRONIC 5% 0.4578/1056= 0.0004	CHRONIC 100% = 0.005
RDF# 16 Avocado FT crop treated=100% TOTALZ = 0 TOTALNZ = 12 0.100 0.070 0.030 0.030 0.090 0.100 0.060 0.070 0.080 0.070 0.060 0.110	BLENDED Beans dry shelled seeds (using dry beans/peas pct)FT crop treated=2.5% 17, 0.01 0.015  0.0103 x 0.025 =0.0003 ppm	RDF# 19 Bean succulent shelled w/o pod (using green beans pct)FT crop treated= 20% TOTALZ = 48 TOTALNZ = 12 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	RDF# 5 Broccoli PDP crop treated= 20% 522samples/1det TOTALZ = 418 TOTALNZ = 1 TOTALLOD = 103 LODRES = 0.005 0.017
CHRONIC 100% 0.87/12= 0.0725	CHRONIC 1% 0.0103 X 0.01= 0.0001	CHRONIC 10% 0.01 x 0.1= 0.001	CHRONIC 10% 0.2720/522= 0.0005

<p>RDF# 6 Cabbage FT new CT pct=45% TOTALZ = 13 TOTALNZ = 11</p> <p>0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.02 0.02 0.02 0.02 0.03</p>	<p>BLENDED Canola FT pct=2.5%</p> <p>0.015, 0.015 0.01, 0.01 0.025, 0.025 0.025, 0.015 0.095, 0.15 0.21, 0.095 0.085, 0.15 0.52, 0.59 0.75, 0.035 0.012, 0.01 0.01, 0.01 0.01, 0.01 0.01, 0.01 0.01, 0.055 0.05, 0.085 0.12, 0.025 0.015, 0.01</p> <p>x=0.102</p>	<p>RDF# 24 Cantaloupe FT crop treated = 100% TOTALZ = 0 TOTALNZ =12</p> <p>0.020 0.015 0.025 0.025 0.01 0.01 0.01 0.01 0.025 0.025 0.01 0.01</p> <p><i>Translated to other crop group 9 commodities</i></p>	<p>RDF# 20 Cauliflower PDP crop treated= 30% 926samples/0dets TOTALZ = 648 TOTALNZ = 0 TOTALLOD = 278 LODRES = 0.0084</p>
<p>CHRONIC 30% 0.0236 x 0.3= 0.0071</p>	<p>CHRONIC 1% 0.102 x 0.01= 0.0010</p>	<p>CHRONIC 100% =0.0163</p>	<p>CHRONIC 20% 1.554/926= 0.0017</p>
<p>RDF# 12 Cherries FT new CT crop treated=15% TOTALZ = 102 TOTALNZ = 18</p> <p>0.075 0.045 0.075 0.055 0.12 0.12 0.085 0.095 0.17 0.17 0.15 0.125 0.055 0.055 0.13 0.2 0.17 0.195</p>	<p>BLENDED Corn grain FT new CT pct=2.5%</p> <p>0.02 0.02 0.02 0.02</p> <p>0.02 X 0.025 =0.0005 ppm</p>	<p>BLENDED Cotton FT new CT pct=10</p> <p>0.02 0.02 0.02 0.02</p> <p>0.02 X 0.10 =0.002 ppm</p>	<p>RDF# 25 Cucumber FT crop treated = 100% TOTALZ = 0 TOTALNZ = 14</p> <p>0.01 0.025 0.015 0.01 0.015 0.015 0.015 0.015 0.01 0.01 0.01 0.01 0.025 0.01 0.015</p> <p><i>Translated to other crop group 9 commodities</i></p>
<p>CHRONIC 5% 0.1161 x 0.05= 0.0058</p>	<p>CHRONIC 1% 0.02 x 0.01= 0.0002</p>	<p>CHRONIC 10% 0.02 x 0.10= 0.002</p>	<p>CHRONIC 100% =0.0143</p>
<p>RDF# 23 Garlic- Onion PDP</p>	<p>BLENDED Hops FT new CT</p>	<p>RDF# 28 Corn sweet PDP</p>	<p>Nectarine- [Peaches PDP crop</p>

crop treated= 30% 1049samples/0det TOTALZ = 734 TOTALLOD = 315 LODRES = 0.0035	pct = 100% 3.86 3.86 3.86  3.86 X 100 =3.86 ppm	canned new CT pct=60% 915samples/0det TOTALZ = 366 TOTALLOD = 549 LODRES = 0.008	treated= 100%] 563samples/1det  <i>Use point estimate from 1 peach detect 0.005</i>
CHRONIC 10% 0.3675/1049= 0.0004	CHRONIC 100% =3.86	CHRONIC 45% 3.296/915= 0.0036	CHRONIC 100% = 0.005
RDF# 3 Onion PDP crop treated= 55% 1049samples/0det TOTALZ = 472 TOTALLOD = 577 LODRES = 0.0035	BLENDED Peanuts FT new CT pct= 10% 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04  0.04 X 0.10 =0.004 ppm	RDF# 13 Peaches PDP crop treated= 10% 563samples/1det TOTALZ = 507 TOTALNZ = 1 TOTALLOD = 55 LODRES = 0.0015 0.005	RDF# 15 Pecan nutmeats FT crop treated=5% TOTALZ = 190 TOTALNZ = 10 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
CHRONIC 50% 1.8375/1049= 0.0018	CHRONIC 5% 0.04 x 0.05= 0.002	CHRONIC 5% 0.0455/563= 0.0001	CHRONIC 1% 0.01 x 0.01= 0.0001
RDF# 11 Pears PDP crop treated= 30% 721samples/0det TOTALZ = 505 TOTALLOD = 216 LODRES = 0.0075	BLENDED Peas dry shelled seeds (using dry beans/peas) FT crop treated=2.5% 0.01, 0.01 0.01, 0.01 0.01, 0.01 0.01, 0.01 0.06, 0.01 0.035  0.0175 X 0.025 =0.0004 ppm	RDF# 29 Peas succulent canned PDP crop treated= 2.5% 521samples/0det TOTALZ = 508 TOTALLOD = 13 LODRES = 0.0075	RDF# 26 Potato FT crop treated = 100% TOTALZ = 0 TOTALNZ = 32 TOTALFREQ = 1 32, 0.01
CHRONIC 15% 0.8100/721= 0.0011	CHRONIC 1% 0.0175 x 0.01= 0.0002	CHRONIC 1% 0.0375/521= 0.0001	CHRONIC 100% =0.01
RDF# 14 Plums FT new CT crop treated=5%	BLENDED Milled Rice new CT pct=30%	BLENDED Rice FT new CT pct=30%	BLENDED Sorghum Grain FT new CT

TOTALZ = 342 TOTALNZ = 18 0.055 0.075 0.025 0.025 0.015 0.015 0.095 0.11 0.01 0.01 0.035 0.035 0.025 0.025 0.035 0.045 0.015 0.02	0.0035 0.0035 0.0035  0.0035 X 0.30 =0.001 ppm	0.346 0.346 0.346 0.346 0.346  0.346 X 0.30= =0.104 ppm	pct=2.5% 0.0775 0.0775 0.0775 0.0775 0.0775  0.0775 X 0.025 =0.002 ppm
CHRONIC 5% 0.0372 x 0.05= 0.0019	CHRONIC 15% 0.0035 x 0.15= 0.0005	CHRONIC 15% 0.346 x 0.15= 0.0519	CHRONIC 1% 0.0775 x 0.01= 0.0008
RDF# 2 BLENDED Soybeans PDP crop treated= 10% 368samples/0dets TOTALZ = 0 TOTALLOD = 368 LODRES = 0.003  =0.003 ppm	BLENDED Sugarcane FT crop treated=10% TOTALZ = 162 TOTALNZ = 18 0.025 0.025 0.035 0.015 0.025 0.015 5,0.01 0.015 0.025 0.025 0.025 0.025 0.015 0.025  0.0192 X 0.10 =0.0019 ppm	RDF# 27 Summer Squash FT crop treated = 100% TOTALZ = 0 TOTALNZ = 10 0.025 0.035 0.01 0.01 0.015 0.05 0.01 0.01 0.03 0.01  <i>Translated to other crop group 9 commodities</i>	RDF# 1 Sunflower FT new CT pct=20% TOTALZ = 20 TOTALNZ = 5 0.039 0.039 0.039 0.039 0.039
CHRONIC 5% 0.054/368= 0.0001	CHRONIC 5% 0.0192 x 0.05= 0.001	CHRONIC 100% 0.0205	CHRONIC 10% 0.039 x 0.10= 0.0039
RDF# 18 Non-Bell Peppers FT crop treated= 15% TOTALZ = 34	RDF# 7 Tomatoes FT new CT pct=20% TOTALZ = 52 TOTALNZ = 13	RDF# 8 BLENDED Wheat PDP crop treated= 2.5%	RDF# 27 Pumpkin FT crop treated = 100% TOTALZ = 108











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	0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092 0.0092, 0.0092		
CHRONIC 100% 0.0017	CHRONIC 100% 0.0065	CHRONIC 5% $0.6974/1485=$ 0.0005	CHRONIC 30% $7.665/1054=$ 0.0073

Attachment 2: Acute Dietary Analysis (Food + Water) Residue Input file.

U.S. Environmental Protection Agency Ver. 2.02  
 DEEM-FCID Acute analysis for LAMBDA CYHALOTHRIN  
 Residue file name: C:\Documents and Settings\aparmar\Desktop\Revised Water\Lambda NU  
 Acute.R98  
 Analysis Date 11-30-2006 Residue file dated: 11-30-2006/10:57:48/8  
 Reference dose (aRfD) = 0.005 mg/kg bw/day  
 Comment: THIS R98 FILE WAS GENERATED USING THE CONVERT TO R98 UTILITY VERSION 1.1.2.

RDL indices and parameters for Monte Carlo Analysis:

Index #	Dist Code	Parameter #1	Param #2	Param #3	Comment
1	6	Sunflower(optB).rdf			(SFlwFT)
2	6	Soybeans PDP.rdf			New Soybean PDP (SoybPD)
3	6	Onions PDP.rdf			New Onion PDP (OnioPD)
4	6	Lettuce PDP.rdf			New Lettuce PDP (LettPD)
5	6	Broccoli PDP.rdf			New Broccoli PDP (BrocpD)
6	6	Cabbage(optB).rdf			(CabbFT)
7	6	Tomatoe(optB).rdf			(TmtoFT)
8	6	Wheat PDP.rdf			New Wheat PDP (WhetPD)
9	6	Beefat Mkt.rdf			New Beef fat Market Basket
Survey (BfMrkt)					
10	6	Apples PDP.rdf			New Apple PDP (ApplPD)
11	6	Pears PDP.rdf			New Pear PDP (PearPD)
12	6	cherries.rdf			(ChryFT)
13	6	Peaches PDP.rdf			New Peach PDP (PechPD)
14	6	plums.rdf			(PlumFT)
15	6	pecan.rdf			(PecnFT)
16	6	Avocado.rdf			(AvocFT)
17	6	Bell Peppers PDP.rdf			New Bell Peppers PDP
BPepPD)					
18	6	NonBellpepper.rdf			(NPepFT)
19	6	Beanssucc.rdf			(BsucFT)
20	6	Cauliflower PDP.rdf			New Cauliflower PDP (CaulPD)
21	6	Butter PDP.rdf			New Butter PDP (ButrPD)
22	6	Apples Dried PDP.rdf			New Blended Translated From
Apple PDP (DAplPD)					
23	6	Garlic PDP.rdf			New Translated From Onion
PDP (GarlPD)					
24	6	Cantaloupe.rdf			New Cantaloupe FT (CntlFT)
25	6	Cucumber.rdf			New Cucumber FT (CubrFT)
26	6	Potato.rdf			New Potato FT (PotoFT)
27	6	Summer Squash.rdf			New Summer Squash FT
(SqshFT)					
28	6	Sweet Corn, Canned-Frozen PDP.rdf			New Sweet Corn,
Canned/Frozen PDP (SCrnPD)					
29	6	Pea Succulent, Canned-Frozen PDP.rdf			New Sweet Pea, Canned/Frozen
PDP (PsucPD)					
30	6	almond.rdf			Almond FT

EPA Code	Crop Grp	Food Name	Def Res (ppm)	Adj. Factors #1	Adj. Factors #2	RDL Pntr	Comment
14000030	14	Almond	0.010000	1.000	1.000	30	AlmdFT
14000031	14	Almond-babyfood	0.010000	1.000	1.000	30	AlmdFT
14000040	14	Almond, oil	0.010000	1.000	1.000	30	AlmdFT
14000041	14	Almond, oil-babyfood	0.010000	1.000	1.000	30	AlmdFT
11000070	11	Apple, fruit with peel					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.300000	1.000	1.000	10	ApplPD
		150-Uncooked; Cured etc; Cook Meth N/S	0.300000	1.000	1.000	10	ApplPD

		211-Cooked; Fresh or N/S; Baked	0.300000	0.080	1.000	10	C.stdy
		213-Cooked; Fresh or N/S; Fried	0.300000	0.080	1.000	10	C.stdy
11000080	11	Apple, peeled fruit					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.300000	1.000	1.000	10	ApplPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.300000	0.080	1.000	10	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.300000	0.080	1.000	10	C.stdy
		213-Cooked; Fresh or N/S; Fried	0.300000	0.080	1.000	10	C.stdy
		221-Cooked; Frozen; Baked	0.300000	0.080	1.000	10	C.stdy
		232-Cooked; Dried; Boiled	0.300000	0.080	1.000	10	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.300000	0.080	1.000	10	C.stdy
11000081	11	Apple, peeled fruit-babyfood	0.300000	0.080	1.000	10	C.stdy
11000090	11	Apple, dried	0.300000	8.000	1.000	22	DAplPD
11000091	11	Apple, dried-babyfood	0.300000	8.000	1.000	22	DAplPD
11000100	11	Apple, juice	0.300000	1.300	1.000	10	ApplPD
11000101	11	Apple, juice-babyfood	0.300000	1.300	1.000	10	ApplPD
11000110	11	Apple, sauce					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.300000	1.000	1.000	10	ApplPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.300000	0.080	1.000	10	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.300000	0.080	1.000	10	C.stdy
		212-Cooked; Fresh or N/S; Boiled	0.300000	0.080	1.000	10	C.stdy
		221-Cooked; Frozen; Baked	0.300000	0.080	1.000	10	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.300000	0.080	1.000	10	C.stdy
11000111	11	Apple, sauce-babyfood	0.300000	0.080	1.000	10	C.stdy
12000120	12	Apricot					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.005000	1.000	1.000		PechDT
		211-Cooked; Fresh or N/S; Baked	0.005000	0.040	1.000		P.stdy
		213-Cooked; Fresh or N/S; Fried	0.005000	0.040	1.000		P.stdy
		221-Cooked; Frozen; Baked	0.005000	0.040	1.000		P.stdy
		232-Cooked; Dried; Boiled	0.005000	0.040	1.000		P.stdy
		240-Cooked; Canned; Cook Meth N/S	0.005000	0.040	1.000		P.stdy
12000121	12	Apricot-babyfood	0.005000	0.040	1.000		P.stdy
12000130	12	Apricot, dried	0.005000	6.000	1.000		PechDT
12000140	12	Apricot, juice	0.005000	1.000	1.000		PechDT
12000141	12	Apricot, juice-babyfood	0.005000	1.000	1.000		PechDT
01030150	1CD	Arrowroot, flour	0.020000	1.000	1.000		TolLvl
01030151	1CD	Arrowroot, flour-babyfood	0.020000	1.000	1.000		TolLvl
01030170	1CD	Artichoke, Jerusalem	0.020000	1.000	1.000		TolLvl
95000200	O	Avocado	0.200000	1.000	1.000	16	AvocFT
09020210	9B	Balsam pear	0.050000	1.000	1.000	25	CubrFT
15000250	15	Barley, pearled barley	0.007000	1.000	1.000		WhetDT
15000251	15	Barley, pearled barley-babyfood	0.007000	1.000	1.000		WhetDT
15000260	15	Barley, flour	0.007000	1.000	1.000		WhetDT
15000261	15	Barley, flour-babyfood	0.007000	1.000	1.000		WhetDT
15000270	15	Barley, bran	0.007000	3.000	1.000		WhetDT
06030300	6C	Bean, black, seed	0.010300	1.000	0.025		
06020310	6B	Bean, broad, succulent	0.010000	1.000	1.000	19	BsucFT
06030320	6C	Bean, broad, seed	0.010300	1.000	0.025		
06020330	6B	Bean, cowpea, succulent	0.200000	1.000	1.000	19	BsucFT
06030340	6C	Bean, cowpea, seed	0.010300	1.000	0.025		
06030350	6C	Bean, great northern, seed	0.010300	1.000	0.025		

06030360	6C	Bean, kidney, seed	0.010300	1.000	0.025		
06020370	6B	Bean, lima, succulent	0.010000	1.000	1.000	19	BsucFT
06030380	6C	Bean, lima, seed	0.010300	1.000	0.025		
06030390	6C	Bean, mung, seed	0.010300	1.000	0.025		
06030400	6C	Bean, navy, seed	0.010300	1.000	0.025		
06030410	6C	Bean, pink, seed	0.010300	1.000	0.025		
06030420	6C	Bean, pinto, seed	0.010300	1.000	0.025		
06010430	6A	Bean, snap, succulent	0.200000	1.000	1.000	19	BsucFT
06010431	6A	Bean, snap, succulent-babyfood	0.200000	1.000	1.000	19	BsucFT
21000440	M	Beef, meat	0.028000	1.000	1.000	9	BfMrkt
21000441	M	Beef, meat-babyfood	0.028000	1.000	1.000	9	BfMrkt
21000450	M	Beef, meat, dried	0.028000	1.920	1.000	9	BfMrkt
21000460	M	Beef, meat byproducts	0.070000	1.000	1.000	9	BfMrkt
21000461	M	Beef, meat byproducts-babyfood	0.070000	1.000	1.000	9	BfMrkt
21000470	M	Beef, fat	0.760000	1.000	1.000	9	BfMrkt
21000471	M	Beef, fat-babyfood	0.760000	1.000	1.000	9	BfMrkt
21000480	M	Beef, kidney	0.050000	1.000	1.000	9	BfMrkt
21000490	M	Beef, liver	0.070000	1.000	1.000	9	BfMrkt
21000491	M	Beef, liver-babyfood	0.070000	1.000	1.000	9	BfMrkt
14000590	14	Brazil nut	0.050000	1.000	1.000		TolLvl
05010610	5A	Broccoli	0.310000	1.000	1.000	5	BrocpD
05010611	5A	Broccoli-babyfood	0.310000	1.000	1.000	5	BrocpD
05010620	5A	Broccoli, Chinese	0.310000	1.000	1.000	5	BrocpD
05010640	5A	Brussels sprouts	0.310000	1.000	1.000	5	BrocpD
15000650	15	Buckwheat	0.007000	1.000	1.000		WhetDT
15000660	15	Buckwheat, flour	0.007000	1.000	1.000		WhetDT
14000680	14	Butternut	0.050000	1.000	1.000		TolLvl
05010690	5A	Cabbage	0.030000	1.000	1.000	6	CabbFT
05020700	5B	Cabbage, Chinese, bok choy	0.030000	1.000	1.000	6	CabbFT
05010710	5A	Cabbage, Chinese, napa	0.030000	1.000	1.000	6	CabbFT
05010720	5A	Cabbage, Chinese, mustard	0.310000	1.000	1.000	5	BrocpD
09010750	9A	Cantaloupe	0.050000	1.000	1.000	24	CntlFT
09010800	9A	Casaba	0.050000	1.000	1.000	24	CntlFT
14000810	14	Cashew	0.050000	1.000	1.000		TolLvl
01030820	1CD	Cassava	0.020000	1.000	1.000		TolLvl
01030821	1CD	Cassava-babyfood	0.020000	1.000	1.000		TolLvl
05010830	5A	Cauliflower	0.310000	1.000	1.000	20	CaulPD
09020880	9B	Chayote, fruit	0.050000	1.000	1.000	27	SqshFT
12000900	12	Cherry	0.050000	1.000	1.000	12	ChryFT
12000901	12	Cherry-babyfood	0.050000	1.000	1.000	12	ChryFT
12000910	12	Cherry, juice	0.050000	1.500	1.000	12	ChryFT
12000911	12	Cherry, juice-babyfood	0.050000	1.500	1.000	12	ChryFT
14000920	14	Chestnut	0.050000	1.000	1.000		TolLvl
40000930	P	Chicken, meat	0.010000	1.000	1.000		TolLvl
40000931	P	Chicken, meat-babyfood	0.010000	1.000	1.000		TolLvl
40000940	P	Chicken, liver	0.010000	1.000	1.000		TolLvl
40000950	P	Chicken, meat byproducts	0.010000	1.000	1.000		TolLvl
40000951	P	Chicken, meat byproducts-babyfoo	0.010000	1.000	1.000		TolLvl
40000960	P	Chicken, fat	0.030000	1.000	1.000		TolLvl
40000961	P	Chicken, fat-babyfood	0.030000	1.000	1.000		TolLvl
40000970	P	Chicken, skin	0.030000	1.000	1.000		TolLvl
40000971	P	Chicken, skin-babyfood	0.030000	1.000	1.000		TolLvl
06030980	6C	Chickpea, seed	0.010300	1.000	0.025		
06030981	6C	Chickpea, seed-babyfood	0.010300	1.000	0.025		
06030990	6C	Chickpea, flour	0.010300	1.000	0.025		
09021020	9B	Chinese waxgourd	0.050000	1.000	1.000	25	CubrFT
15001200	15	Corn, field, flour	0.020000	1.000	0.025		Avg*%T
15001201	15	Corn, field, flour-babyfood	0.020000	1.000	0.025		Avg*%T
15001210	15	Corn, field, meal	0.020000	1.000	0.025		Avg*%T
15001211	15	Corn, field, meal-babyfood	0.020000	1.000	0.025		Avg*%T
15001220	15	Corn, field, bran	0.020000	1.000	0.025		Avg*%T
15001230	15	Corn, field, starch	0.020000	1.000	0.025		Avg*%T
15001231	15	Corn, field, starch-babyfood	0.020000	1.000	0.025		Avg*%T
15001240	15	Corn, field, syrup	0.020000	1.500	0.025		Avg*%T
15001241	15	Corn, field, syrup-babyfood	0.020000	1.500	0.025		Avg*%T
15001250	15	Corn, field, oil	0.020000	1.000	0.025		Avg*%T

15001251	15	Corn, field, oil-babyfood	0.020000	1.000	0.025		Avg*%T
15001260	15	Corn, pop	0.020000	1.000	0.025		Avg*%T
15001270	15	Corn, sweet	0.020000	1.000	1.000	28	SCrnPD
15001271	15	Corn, sweet-babyfood	0.020000	1.000	1.000	28	SCrnPD
95001280	O	Cottonseed, oil	0.020000	1.000	0.100		Avg*%T
95001281	O	Cottonseed, oil-babyfood	0.020000	1.000	0.100		Avg*%T
11001290	11	Crabapple	0.033000	1.000	1.000		ApplDT
09021350	9B	Cucumber	0.050000	1.000	1.000	25	CubrFT
01031390	1CD	Dasheen, corm	0.020000	1.000	1.000		TolLvl
70001450	P	Egg, whole	0.010000	1.000	1.000		TolLvl
70001451	P	Egg, whole-babyfood	0.010000	1.000	1.000		TolLvl
70001460	P	Egg, white	0.010000	1.000	1.000		TolLvl
70001461	P	Egg, white (solids)-babyfood	0.010000	1.000	1.000		TolLvl
70001470	P	Egg, yolk	0.010000	1.000	1.000		TolLvl
70001471	P	Egg, yolk-babyfood	0.010000	1.000	1.000		TolLvl
08001480	8	Eggplant	0.200000	1.000	1.000		TolLvl
14001550	14	Filbert	0.050000	1.000	1.000		TolLvl
14001560	14	Filbert, oil	0.050000	1.000	1.000		TolLvl
03001640	3	Garlic	0.070000	1.000	1.000	23	GarlPD
03001650	3	Garlic, dried	0.070000	1.000	1.000	23	GarlPD
03001651	3	Garlic, dried-babyfood	0.070000	1.000	1.000	23	GarlPD
01031660	1CD	Ginger	0.020000	1.000	1.000		TolLvl
01031661	1CD	Ginger-babyfood	0.020000	1.000	1.000		TolLvl
01031670	1CD	Ginger, dried	0.020000	1.000	1.000		TolLvl
23001690	M	Goat, meat	0.028000	1.000	1.000	9	BfMrkt
23001700	M	Goat, meat byproducts	0.070000	1.000	1.000	9	BfMrkt
23001710	M	Goat, fat	0.760000	1.000	1.000	9	BfMrkt
23001720	M	Goat, kidney	0.050000	1.000	1.000	9	BfMrkt
23001730	M	Goat, liver	0.070000	1.000	1.000	9	BfMrkt
06031820	6C	Guar, seed	0.010300	1.000	0.025		
06031821	6C	Guar, seed-babyfood	0.010300	1.000	0.025		
14001850	14	Hickory nut	0.050000	1.000	1.000		TolLvl
09011870	9A	Honeydew melon	0.050000	1.000	1.000	24	CntlFT
95001880	O	Hop	3.860000	1.000	1.000		Avg*%T
24001890	M	Horse, meat	0.028000	1.000	1.000	9	BfMrkt
05011960	5A	Kohlrabi	0.030000	1.000	1.000	6	CabbFT
06032030	6C	Lentil, seed	0.010300	1.000	0.025		
04012040	4A	Lettuce, head	0.190000	1.000	1.000	5	LettPD
04012050	4A	Lettuce, leaf	0.920000	1.000	1.000	5	LettPD
11002100	11	Loquat	0.007500	1.000	1.000		PearDT
14002130	14	Macadamia nut	0.050000	1.000	1.000		TolLvl
28002210	M	Meat, game	0.028000	1.000	1.000	9	BfMrkt
27002220	D	Milk, fat	0.050000	1.000	1.000	21	ButrPD
27002221	D	Milk, fat - baby food/infant for	0.050000	1.000	1.000	21	ButrPD
27012230	D	Milk, nonfat solids	0.050000	1.000	1.000	21	ButrPD
27012231	D	Milk, nonfat solids-baby food/in	0.050000	1.000	1.000	21	ButrPD
27022240	D	Milk, water	0.050000	1.000	1.000	21	ButrPD
27022241	D	Milk, water-babyfood/infant form	0.050000	1.000	1.000	21	ButrPD
27032251	D	Milk, sugar (lactose)-baby food/	0.050000	1.000	1.000	21	ButrPD
12002300	12	Nectarine	0.005000	1.000	1.000		PechDT
15002310	15	Oat, bran	0.007000	3.000	1.000		WhetDT
15002320	15	Oat, flour	0.007000	1.000	1.000		WhetDT
15002321	15	Oat, flour-babyfood	0.007000	1.000	1.000		WhetDT
15002330	15	Oat, groats/rolled oats	0.007000	1.000	1.000		WhetDT
15002331	15	Oat, groats/rolled oats-babyfood	0.007000	1.000	1.000		WhetDT
08002340	8	Okra	0.200000	1.000	1.000		TolLvl
03002370	3	Onion, dry bulb	0.070000	1.000	1.000	3	OnioPD
03002371	3	Onion, dry bulb-babyfood	0.070000	1.000	1.000	3	OnioPD
03002380	3	Onion, dry bulb, dried	0.003500	9.000	1.000		Pt Est
		Full comment: Pt Est Onion PDP					
03002381	3	Onion, dry bulb, dried-babyfood	0.003500	9.000	1.000		Pt Est
		Full comment: Pt Est Onion PDP					
06022550	6B	Pea, succulent	0.200000	1.000	1.000	29	PsucPD
06022551	6B	Pea, succulent-babyfood	0.200000	1.000	1.000	29	PsucPD
06032560	6C	Pea, dry	0.017500	1.000	0.025		
06032561	6C	Pea, dry-babyfood	0.017500	1.000	0.025		

06012570	6A	Pea, edible podded, succulent	0.200000	1.000	1.000	29	PsucPD
06032580	6C	Pea, pigeon, seed	0.017500	1.000	0.025		
06022590	6B	Pea, pigeon, succulent	0.010000	1.000	1.000	29	PsucPD
12002600	12	Peach					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.050000	1.000	1.000	13	PechPD
		120-Uncooked; Frozen; Cook Meth N/S	0.050000	1.000	1.000	13	PechPD
		130-Uncooked; Dried; Cook Meth N/S	0.050000	1.000	1.000	13	PechPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.050000	0.040	1.000	13	P.stdy
		211-Cooked; Fresh or N/S; Baked	0.050000	0.040	1.000	13	P.stdy
		213-Cooked; Fresh or N/S; Fried	0.050000	0.040	1.000	13	P.stdy
		221-Cooked; Frozen; Baked	0.050000	0.040	1.000	13	P.stdy
		223-Cooked; Frozen; Fried	0.050000	0.040	1.000	13	P.stdy
		240-Cooked; Canned; Cook Meth N/S	0.050000	0.040	1.000	13	P.stdy
12002601	12	Peach-babyfood	0.050000	0.040	1.000	13	PechPD
12002610	12	Peach, dried	0.050000	7.000	1.000	13	PechPD
12002611	12	Peach, dried-babyfood	0.050000	7.000	1.000	13	PechPD
12002620	12	Peach, juice	0.050000	1.000	1.000	13	PechPD
12002621	12	Peach, juice-babyfood	0.050000	1.000	1.000	13	PechPD
95002630	0	Peanut	0.040000	1.000	0.100		Avg*%T
95002640	0	Peanut, butter	0.040000	1.890	0.100		Avg*%T
95002650	0	Peanut, oil	0.040000	1.000	0.100		Avg*%T
11002660	11	Pear					
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.300000	1.000	1.000	11	PearPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.300000	0.080	1.000	11	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.300000	0.080	1.000	11	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.300000	0.080	1.000	11	C.stdy
11002661	11	Pear-babyfood	0.300000	0.080	1.000	11	C.stdy
11002670	11	Pear, dried	0.300000	6.250	1.000	11	PearPD
11002680	11	Pear, juice	0.300000	1.300	1.000	11	PearPD
11002681	11	Pear, juice-babyfood	0.300000	1.300	1.000	11	PearPD
14002690	14	Pecan	0.010000	1.000	1.000	15	PecnFT
08002700	8	Pepper, bell	0.200000	1.000	1.000	17	BPepPD
08002701	8	Pepper, bell-babyfood	0.200000	1.000	1.000	17	BPepPD
08002710	8	Pepper, bell, dried	0.200000	1.000	1.000	17	BPepPD
08002711	8	Pepper, bell, dried-babyfood	0.200000	1.000	1.000	17	BPepPD
08002720	8	Pepper, nonbell	0.200000	1.000	1.000	18	NPepFT
08002721	8	Pepper, nonbell-babyfood	0.200000	1.000	1.000	18	NPepFT
08002730	8	Pepper, nonbell, dried	0.200000	1.000	1.000	18	NPepFT
14002820	14	Pistachio	0.050000	1.000	1.000		TolLvl
12002850	12	Plum	0.050000	1.000	1.000	14	PlumFT
12002851	12	Plum-babyfood	0.050000	1.000	1.000	14	PlumFT
12002860	12	Plum, prune, fresh	0.050000	1.000	1.000	14	PlumFT
12002861	12	Plum, prune, fresh-babyfood	0.050000	1.000	1.000	14	PlumFT
12002870	12	Plum, prune, dried	0.050000	1.400	1.000	14	PlumFT
12002871	12	Plum, prune, dried-babyfood	0.050000	1.400	1.000	14	PlumFT
12002880	12	Plum, prune, juice	0.050000	1.400	1.000	14	PlumFT
12002881	12	Plum, prune, juice-babyfood	0.050000	1.400	1.000	14	PlumFT
25002900	M	Pork, meat	0.007000	1.000	1.000	9	BfMrkt
25002901	M	Pork, meat-babyfood	0.007000	1.000	1.000	9	BfMrkt
25002910	M	Pork, skin	0.195000	1.000	1.000	9	BfMrkt
25002920	M	Pork, meat byproducts	0.018600	1.000	1.000	9	BfMrkt
25002921	M	Pork, meat byproducts-babyfood	0.018600	1.000	1.000	9	BfMrkt
25002930	M	Pork, fat	0.195000	1.000	1.000	9	BfMrkt
25002931	M	Pork, fat-babyfood	0.195000	1.000	1.000	9	BfMrkt
25002940	M	Pork, kidney	0.012400	1.000	1.000	9	BfMrkt

25002950	M	Pork, liver	0.018600	1.000	1.000	9	BfMrkt
01032960	1C	Potato, chips	0.020000	1.000	1.000	26	PotoFT
01032970	1C	Potato, dry (granules/ flakes)	0.020000	6.500	1.000	26	PotoFT
01032971	1C	Potato, dry (granules/ flakes)-b	0.020000	6.500	1.000	26	PotoFT
01032980	1C	Potato, flour	0.020000	1.000	1.000	26	PotoFT
01032981	1C	Potato, flour-babyfood	0.020000	1.000	1.000	26	PotoFT
01032990	1C	Potato, tuber, w/peel	0.020000	1.000	1.000	26	PotoFT
01032991	1C	Potato, tuber, w/peel-babyfood	0.020000	1.000	1.000	26	PotoFT
01033000	1C	Potato, tuber, w/o peel	0.020000	1.000	1.000	26	PotoFT
01033001	1C	Potato, tuber, w/o peel-babyfood	0.020000	1.000	1.000	26	PotoFT
60003010	P	Poultry, other, meat	0.010000	1.000	1.000		TolLvl
60003020	P	Poultry, other, liver	0.010000	1.000	1.000		TolLvl
60003030	P	Poultry, other, meat byproducts	0.010000	1.000	1.000		TolLvl
60003040	P	Poultry, other, fat	0.030000	1.000	1.000		TolLvl
60003050	P	Poultry, other, skin	0.030000	1.000	1.000		TolLvl
09023080	9B	Pumpkin	0.050000	1.000	1.000	27	SqshFT
09023090	9B	Pumpkin, seed	0.050000	1.000	1.000	27	SqshFT
11003100	11	Quince	0.007500	1.000	1.000		PearDT
29003120	M	Rabbit, meat	0.028000	1.000	1.000	9	BfMrkt
20003190	20	Rapeseed, oil	0.102000	2.300	0.025		Avg*%T
20003191	20	Rapeseed, oil-babyfood	0.102000	2.300	0.025		Avg*%T
15003230	15	Rice, white	0.003500	1.000	0.300		Avg*%T
15003231	15	Rice, white-babyfood	0.003500	1.000	0.300		Avg*%T
15003240	15	Rice, brown	0.346000	1.000	0.300		Avg*%T
15003241	15	Rice, brown-babyfood	0.346000	1.000	0.300		Avg*%T
15003250	15	Rice, flour	0.003500	1.000	0.300		Avg*%T
15003251	15	Rice, flour-babyfood	0.003500	1.000	0.300		Avg*%T
15003260	15	Rice, bran	0.346000	1.000	0.300		Avg*%T
15003261	15	Rice, bran-babyfood	0.346000	1.000	0.300		Avg*%T
15003280	15	Rye, grain	0.007000	1.000	1.000		WhetDT
15003290	15	Rye, flour	0.007000	1.000	1.000		WhetDT
26003390	M	Sheep, meat	0.028000	1.000	1.000	9	BfMrkt
26003391	M	Sheep, meat-babyfood	0.028000	1.000	1.000	9	BfMrkt
26003400	M	Sheep, meat byproducts	0.070000	1.000	1.000	9	BfMrkt
26003410	M	Sheep, fat	0.760000	1.000	1.000	9	BfMrkt
26003411	M	Sheep, fat-babyfood	0.760000	1.000	1.000	9	BfMrkt
26003420	M	Sheep, kidney	0.050000	1.000	1.000	9	BfMrkt
26003430	M	Sheep, liver	0.070000	1.000	1.000	9	BfMrkt
15003440	15	Sorghum, grain	0.077500	1.000	0.025		Avg*%T
15003450	15	Sorghum, syrup	0.077500	1.000	0.025		Avg*%T
06003470	6	Soybean, seed	0.020000	1.000	1.000	2	SoybPD
06003480	6	Soybean, flour	0.020000	1.000	1.000	2	SoybPD
06003481	6	Soybean, flour-babyfood	0.020000	1.000	1.000	2	SoybPD
06003490	6	Soybean, soy milk	0.020000	1.000	1.000	2	SoybPD
06003491	6	Soybean, soy milk-babyfood or in	0.020000	1.000	1.000	2	SoybPD
06003500	6	Soybean, oil	0.020000	1.000	1.000	2	SoybPD
06003501	6	Soybean, oil-babyfood	0.020000	1.000	1.000	2	SoybPD
09023560	9B	Squash, summer	0.050000	1.000	1.000	27	SqshFT
09023561	9B	Squash, summer-babyfood	0.050000	1.000	1.000	27	SqshFT
09023570	9B	Squash, winter	0.050000	1.000	1.000	27	SqshFT
09023571	9B	Squash, winter-babyfood	0.050000	1.000	1.000	27	SqshFT
95003620	O	Sugarcane, sugar	0.019200	1.000	0.100		Avg*%T
95003621	O	Sugarcane, sugar-babyfood	0.019200	1.000	0.100		Avg*%T
95003630	O	Sugarcane, molasses	0.019200	1.000	0.100		Avg*%T
95003631	O	Sugarcane, molasses-babyfood	0.019200	1.000	0.100		Avg*%T
20003640	20	Sunflower, seed	0.080000	1.000	1.000	1	SFlwFT
20003650	20	Sunflower, oil	0.039000	1.000	0.200		Avg*%T
20003651	20	Sunflower, oil-babyfood	0.039000	1.000	0.200		Avg*%T
01033660	1CD	Sweet potato	0.020000	1.000	1.000		TolLvl
01033661	1CD	Sweet potato-babyfood	0.020000	1.000	1.000		TolLvl
01033710	1CD	Tanier, corm	0.020000	1.000	1.000		TolLvl
08003740	8	Tomatillo	0.070000	1.000	1.000	7	TmtoFT
08003750	8	Tomato	0.070000	1.000	1.000	7	TmtoFT
08003751	8	Tomato-babyfood	0.070000	1.000	1.000	7	TmtoFT
08003760	8	Tomato, paste	0.070000	5.400	1.000	7	TmtoFT
08003761	8	Tomato, paste-babyfood	0.070000	5.400	1.000	7	TmtoFT

08003770	8	Tomato, puree	0.070000	3.300	1.000	7	TmtoFT
08003771	8	Tomato, puree-babyfood	0.070000	3.300	1.000	7	TmtoFT
08003780	8	Tomato, dried	0.070000	14.300	1.000	7	TmtoFT
08003781	8	Tomato, dried-babyfood	0.070000	14.300	1.000	7	TmtoFT
08003790	8	Tomato, juice	0.070000	1.500	1.000	7	TmtoFT
15003810	15	Triticale, flour	0.007000	1.000	1.000		WhetDT
15003811	15	Triticale, flour-babyfood	0.007000	1.000	1.000		WhetDT
50003820	P	Turkey, meat	0.010000	1.000	1.000		TolLvl
50003821	P	Turkey, meat-babyfood	0.010000	1.000	1.000		TolLvl
50003830	P	Turkey, liver	0.010000	1.000	1.000		TolLvl
50003831	P	Turkey, liver-babyfood	0.010000	1.000	1.000		TolLvl
50003840	P	Turkey, meat byproducts	0.010000	1.000	1.000		TolLvl
50003841	P	Turkey, meat byproducts-babyfood	0.010000	1.000	1.000		TolLvl
50003850	P	Turkey, fat	0.030000	1.000	1.000		TolLvl
50003851	P	Turkey, fat-babyfood	0.030000	1.000	1.000		TolLvl
50003860	P	Turkey, skin	0.030000	1.000	1.000		TolLvl
50003861	P	Turkey, skin-babyfood	0.030000	1.000	1.000		TolLvl
01033870	1CD	Turmeric	0.020000	1.000	1.000		TolLvl
14003910	14	Walnut	0.050000	1.000	1.000		TolLvl
86010000	O	Water, direct, all sources	0.005350	1.000	1.000		
86020000	O	Water, indirect, all sources	0.005350	1.000	1.000		
09013990	9A	Watermelon	0.050000	1.000	1.000	24	CntlFT
09014000	9A	Watermelon, juice	0.050000	1.000	1.000	24	CntlFT
15004010	15	Wheat, grain	0.040000	1.000	1.000	8	WhetPD
15004011	15	Wheat, grain-babyfood	0.040000	1.000	1.000	8	WhetPD
15004020	15	Wheat, flour	0.040000	1.000	1.000	8	WhetPD
15004021	15	Wheat, flour-babyfood	0.040000	1.000	1.000	8	WhetPD
15004030	15	Wheat, germ	0.040000	1.000	1.000	8	WhetPD
15004040	15	Wheat, bran	0.040000	3.000	1.000	8	WhetPD
15004050	15	Wild rice	0.003500	1.000	1.000		RiceFT
01034060	1CD	Yam, true	0.020000	1.000	1.000		TolLvl
01034070	1CD	Yam bean	0.020000	1.000	1.000		TolLvl



Attachment 3: Acute Dietary Analysis (Food + Water) Results file.

U.S. Environmental Protection Agency Ver. 2.02  
 DEEM-FCID ACUTE Analysis for LAMBDA CYHALOTHRIN (1994-98 data)  
 Residue file: Lambda NU Acute.R98 Adjustment factor #2 used.  
 Analysis Date: 11-30-2006/11:12:22 Residue file dated: 11-30-2006/10:57:48/8  
 Daily totals for food and foodform consumption used.  
 MC iterations = 1000 MC list in residue file MC seed = 1  
 Run Comment: "THIS R98 FILE WAS GENERATED USING THE CONVERT TO R98 UTILITY VER  
 SION 1.1.2."  
 =====

Summary calculations (per capita):

	95th Percentile		99th Percentile		99.9th Percentile	
	Exposure	% aRfD	Exposure	% aRfD	Exposure	% aRfD
U.S. Population:	0.000662	13.24	0.001134	22.68	0.002275	45.51
All infants:	0.001308	26.16	0.001855	37.10	0.003031	60.62
Children 1-2 yrs:	0.001166	23.33	0.001732	34.65	0.002714	54.29
Children 3-5 yrs:	0.000908	18.16	0.001403	28.06	0.002534	50.68
Children 6-12 yrs:	0.000619	12.38	0.000933	18.66	0.001602	32.03
Youth 13-19 yrs:	0.000431	8.61	0.000792	15.83	0.002009	40.18
Adults 20-49 yrs:	0.000614	12.27	0.001136	22.72	0.002636	52.72
Adults 50+ yrs:	0.000434	8.68	0.000793	15.87	0.001455	29.09
Females 13-49 yrs:	0.000453	9.07	0.000831	16.63	0.001567	31.33

Attachment 4: Chronic Dietary Analysis (Food + Water) Residue Input file.

U.S. Environmental Protection Agency Ver. 2.00  
DEEM-FCID Chronic analysis for LAMBDA CYHALOTHRIN 1994-98 data  
Residue file: C:\Documents and Settings\aparmar\Desktop\Revised Water\Lambda NU  
Chronic.R98

Adjust. #2 used  
Analysis Date 11-30-2006 Residue file dated: 11-30-2006/10:58:41/8  
Reference dose (RfD) = 0.001 mg/kg bw/day  
Comment:including FHE

Food Crop		Residue (ppm)	Adj.Factors		Comment	
EPA Code	Grp Food Name		#1	#2		
95000010	O	Acerola	0.010000	1.000	1.000	FHE
18000020	18	Alfalfa, seed	0.010000	1.000	1.000	FHE
14000030	14	Almond	0.010000	1.000	0.050	Avg*%T
14000031	14	Almond-babyfood	0.010000	1.000	0.050	Avg*%T
14000040	14	Almond, oil	0.010000	1.000	0.050	Avg*%T
14000041	14	Almond, oil-babyfood	0.010000	1.000	0.050	Avg*%T
04010050	4A	Amaranth, leafy	0.010000	1.000	1.000	FHE
95000060	O	Amaranth, grain	0.010000	1.000	1.000	FHE
11000070	11	Apple, fruit with peel				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000400	1.000	1.000	ApplPD
		150-Uncooked; Cured etc; Cook Meth N/S	0.000400	1.000	1.000	ApplPD
		211-Cooked; Fresh or N/S; Baked	0.000400	0.080	1.000	C.stdy
		213-Cooked; Fresh or N/S; Fried	0.000400	0.080	1.000	C.stdy
11000080	11	Apple, peeled fruit				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000400	1.000	1.000	ApplPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.000400	0.080	1.000	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.000400	0.080	1.000	C.stdy
		213-Cooked; Fresh or N/S; Fried	0.000400	0.080	1.000	C.stdy
		221-Cooked; Frozen; Baked	0.000400	0.080	1.000	C.stdy
		232-Cooked; Dried; Boiled	0.000400	0.080	1.000	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.000400	0.080	1.000	C.stdy
11000081	11	Apple, peeled fruit-babyfood	0.000400	0.080	1.000	C.stdy
11000090	11	Apple, dried	0.000400	8.000	1.000	ApplPD
11000091	11	Apple, dried-babyfood	0.000400	8.000	1.000	ApplPD
11000100	11	Apple, juice	0.000400	1.300	1.000	ApplPD
11000101	11	Apple, juice-babyfood	0.000400	1.300	1.000	ApplPD
11000110	11	Apple, sauce				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000400	1.000	1.000	ApplPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.000400	0.080	1.000	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.000400	0.080	1.000	C.stdy
		212-Cooked; Fresh or N/S; Boiled	0.000400	0.080	1.000	C.stdy
		221-Cooked; Frozen; Baked	0.000400	0.080	1.000	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.000400	0.080	1.000	C.stdy
11000111	11	Apple, sauce-babyfood	0.000400	0.080	1.000	C.stdy
12000120	12	Apricot				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.005000	1.000	1.000	DtValu
		211-Cooked; Fresh or N/S; Baked	0.005000	0.040	1.000	P.stdy
		213-Cooked; Fresh or N/S; Fried	0.005000	0.040	1.000	P.stdy
		221-Cooked; Frozen; Baked	0.005000	0.040	1.000	P.stdy
		232-Cooked; Dried; Boiled	0.005000	0.040	1.000	P.stdy

		240-Cooked; Canned; Cook Meth N/S			
		0.005000	0.040	1.000	P.stdy
12000121	12 Apricot-babyfood	0.005000	0.040	1.000	P.stdy
12000130	12 Apricot, dried	0.005000	6.000	1.000	DtValu
12000140	12 Apricot, juice	0.005000	1.000	1.000	DtValu
12000141	12 Apricot, juice-babyfood	0.005000	1.000	1.000	DtValu
01030150	1CD Arrowroot, flour	0.020000	1.000	1.000	TolLvl
01030151	1CD Arrowroot, flour-babyfood	0.020000	1.000	1.000	TolLvl
95000160	O Artichoke, globe	0.010000	1.000	1.000	FHE
01030170	1CD Artichoke, Jerusalem	0.020000	1.000	1.000	TolLvl
04010180	4A Arugula	0.010000	1.000	1.000	FHE
95000190	O Asparagus	0.010000	1.000	1.000	FHE
95000200	O Avocado	0.072500	1.000	1.000	AvoFT
09020210	9B Balsam pear	0.014300	1.000	1.000	CubrFT
95000220	O Bamboo, shoots	0.010000	1.000	1.000	FHE
95000230	O Banana	0.010000	1.000	1.000	FHE
95000231	O Banana-babyfood	0.010000	1.000	1.000	FHE
95000240	O Banana, dried	0.010000	1.000	1.000	FHE
95000241	O Banana, dried-babyfood	0.010000	1.000	1.000	FHE
15000250	15 Barley, pearled barley	0.007000	1.000	1.000	WhtDet
15000251	15 Barley, pearled barley-babyfood	0.007000	1.000	1.000	WhtDet
15000260	15 Barley, flour	0.007000	1.000	1.000	WhtDet
15000261	15 Barley, flour-babyfood	0.007000	1.000	1.000	WhtDet
15000270	15 Barley, bran	0.007000	3.000	1.000	WhtDet
19010280	19A Basil, fresh leaves	0.010000	1.000	1.000	FHE
19010281	19A Basil, fresh leaves-babyfood	0.010000	1.000	1.000	FHE
19010290	19A Basil, dried leaves	0.010000	1.000	1.000	FHE
19010291	19A Basil, dried leaves-babyfood	0.010000	1.000	1.000	FHE
06030300	6C Bean, black, seed	0.010300	1.000	0.010	BdryFT
06020310	6B Bean, broad, succulent	0.010000	1.000	0.100	BsucFT
06030320	6C Bean, broad, seed	0.010300	1.000	0.010	BdryFT
06020330	6B Bean, cowpea, succulent	0.010000	1.000	0.100	BsucFT
06030340	6C Bean, cowpea, seed	0.010300	1.000	0.010	BdryFT
06030350	6C Bean, great northern, seed	0.010300	1.000	0.010	BdryFT
06030360	6C Bean, kidney, seed	0.010300	1.000	0.010	BdryFT
06020370	6B Bean, lima, succulent	0.010000	1.000	0.100	BsucFT
06030380	6C Bean, lima, seed	0.010300	1.000	0.010	BdryFT
06030390	6C Bean, mung, seed	0.010300	1.000	0.010	BdryFT
06030400	6C Bean, navy, seed	0.010300	1.000	0.010	BdryFT
06030410	6C Bean, pink, seed	0.010300	1.000	0.010	BdryFT
06030420	6C Bean, pinto, seed	0.010300	1.000	0.010	BdryFT
06010430	6A Bean, snap, succulent	0.010000	1.000	0.100	BsucFT
06010431	6A Bean, snap, succulent-babyfood	0.010000	1.000	0.100	BsucFT
21000440	M Beef, meat	0.001700	1.000	1.000	BfMrkt
21000441	M Beef, meat-babyfood	0.001700	1.000	1.000	BfMrkt
21000450	M Beef, meat, dried	0.001700	1.920	1.000	BfMrkt
21000460	M Beef, meat byproducts	0.001700	1.000	1.000	BfMrkt
21000461	M Beef, meat byproducts-babyfood	0.001700	1.000	1.000	BfMrkt
21000470	M Beef, fat	0.001700	1.000	1.000	BfMrkt
21000471	M Beef, fat-babyfood	0.001700	1.000	1.000	BfMrkt
21000480	M Beef, kidney	0.001700	1.000	1.000	BfMrkt
21000490	M Beef, liver	0.001700	1.000	1.000	BfMrkt
21000491	M Beef, liver-babyfood	0.001700	1.000	1.000	BfMrkt
01010500	1AB Beet, garden, roots	0.010000	1.000	1.000	FHE
01010501	1AB Beet, garden, roots-babyfood	0.010000	1.000	1.000	FHE
02000510	2 Beet, garden, tops	0.010000	1.000	1.000	FHE
01010520	1A Beet, sugar	0.010000	1.000	1.000	FHE
01010521	1A Beet, sugar-babyfood	0.010000	1.000	1.000	FHE
01010530	1A Beet, sugar, molasses	0.010000	1.000	1.000	FHE
01010531	1A Beet, sugar, molasses-babyfood	0.010000	1.000	1.000	FHE
95000540	O Belgium endive	0.010000	1.000	1.000	FHE
13010550	13A Blackberry	0.010000	1.000	1.000	FHE
13010560	13A Blackberry, juice	0.010000	1.000	1.000	FHE
13010561	13A Blackberry, juice-babyfood	0.010000	1.000	1.000	FHE
13020570	13B Blueberry	0.010000	1.000	1.000	FHE
13020571	13B Blueberry-babyfood	0.010000	1.000	1.000	FHE

13010580	13A	Boysenberry	0.010000	1.000	1.000	FHE
14000590	14	Brazil nut	0.010000	1.000	1.000	TolLvl
95000600	O	Breadfruit	0.010000	1.000	1.000	FHE
05010610	5A	Broccoli	0.000500	1.000	1.000	BrocPD
05010611	5A	Broccoli-babyfood	0.000500	1.000	1.000	BrocPD
05010620	5A	Broccoli, Chinese	0.000500	1.000	1.000	BrocPD
05020630	5B	Broccoli raab	0.010000	1.000	1.000	FHE
05010640	5A	Brussels sprouts	0.003000	1.000	1.000	
15000650	15	Buckwheat	0.007000	1.000	1.000	WhtDet
15000660	15	Buckwheat, flour	0.007000	1.000	1.000	WhtDet
01010670	1AB	Burdock	0.010000	1.000	1.000	FHE
14000680	14	Butternut	0.010000	1.000	1.000	TolLvl
05010690	5A	Cabbage	0.023600	1.000	0.300	CabbFT
05020700	5B	Cabbage, Chinese, bok choy	0.023600	1.000	1.000	CabbFT
05010710	5A	Cabbage, Chinese, napa	0.023600	1.000	1.000	CabbFT
05010720	5A	Cabbage, Chinese, mustard	0.023600	1.000	1.000	CabbFT
95000730	O	Cactus	0.010000	1.000	1.000	FHE
95000740	O	Canistel	0.010000	1.000	1.000	FHE
09010750	9A	Cantaloupe	0.016300	1.000	1.000	CntlFT
04020760	4B	Cardoon	0.010000	1.000	1.000	FHE
95000770	O	Carob	0.010000	1.000	1.000	FHE
01010780	1AB	Carrot	0.010000	1.000	1.000	FHE
01010781	1AB	Carrot-babyfood	0.010000	1.000	1.000	FHE
01010790	1AB	Carrot, juice	0.010000	1.000	1.000	FHE
09010800	9A	Casaba	0.016300	1.000	1.000	CntlFT
14000810	14	Cashew	0.010000	1.000	1.000	TolLvl
01030820	1CD	Cassava	0.020000	1.000	1.000	TolLvl
01030821	1CD	Cassava-babyfood	0.020000	1.000	1.000	TolLvl
05010830	5A	Cauliflower	0.001700	1.000	1.000	CaulPD
01010840	1AB	Celeriac	0.010000	1.000	1.000	FHE
04020850	4B	Celery	0.010000	1.000	1.000	FHE
04020851	4B	Celery-babyfood	0.010000	1.000	1.000	FHE
04020860	4B	Celery, juice	0.010000	1.000	1.000	FHE
04020870	4B	Celtuce	0.010000	1.000	1.000	FHE
09020880	9B	Chayote, fruit	0.020500	1.000	1.000	SqshFT
95000890	O	Cherimoya	0.010000	1.000	1.000	FHE
12000900	12	Cherry	0.116100	1.000	0.050	ChryFT
12000901	12	Cherry-babyfood	0.116100	1.000	0.050	ChryFT
12000910	12	Cherry, juice	0.116100	1.500	0.050	ChryFT
12000911	12	Cherry, juice-babyfood	0.116100	1.500	0.050	ChryFT
14000920	14	Chestnut	0.010000	1.000	1.000	TolLvl
40000930	P	Chicken, meat	0.010000	1.000	1.000	TolLvl
40000931	P	Chicken, meat-babyfood	0.010000	1.000	1.000	TolLvl
40000940	P	Chicken, liver	0.010000	1.000	1.000	TolLvl
40000950	P	Chicken, meat byproducts	0.010000	1.000	1.000	TolLvl
40000951	P	Chicken, meat byproducts-babyfoo	0.010000	1.000	1.000	TolLvl
40000960	P	Chicken, fat	0.030000	1.000	1.000	TolLvl
40000961	P	Chicken, fat-babyfood	0.030000	1.000	1.000	TolLvl
40000970	P	Chicken, skin	0.030000	1.000	1.000	TolLvl
40000971	P	Chicken, skin-babyfood	0.030000	1.000	1.000	TolLvl
06030980	6C	Chickpea, seed	0.010300	1.000	0.010	BdryFT
06030981	6C	Chickpea, seed-babyfood	0.010300	1.000	0.010	BdryFT
06030990	6C	Chickpea, flour	0.010300	1.000	0.010	BdryFT
01011000	1AB	Chicory, roots	0.010000	1.000	1.000	FHE
02001010	2	Chicory, tops	1.000000	1.000	1.000	FHE
09021020	9B	Chinese waxgourd	0.014300	1.000	1.000	CubrFT
19011030	19A	Chive	0.010000	1.000	1.000	FHE
04011040	4A	Chrysanthemum, garland	0.010000	1.000	1.000	FHE
19021050	19B	Cinnamon	0.010000	1.000	1.000	FHE
19021051	19B	Cinnamon-babyfood	0.010000	1.000	1.000	FHE
10001060	10	Citrus citron	0.010000	1.000	1.000	FHE
10001070	10	Citrus hybrids	0.010000	1.000	1.000	FHE
10001080	10	Citrus, oil	0.010000	1.000	1.000	FHE
95001090	O	Cocoa bean, chocolate	0.010000	1.000	1.000	FHE
95001100	O	Cocoa bean, powder	0.010000	1.000	1.000	FHE
95001110	O	Coconut, meat	0.010000	1.000	1.000	FHE

95001111	O	Coconut- meat-babyfood	0.010000	1.000	1.000	FHE
95001120	O	Coconut, dried	0.010000	1.000	1.000	FHE
95001130	O	Coconut, milk	0.010000	1.000	1.000	FHE
95001140	O	Coconut, oil	0.010000	1.000	1.000	FHE
95001141	O	Coconut, oil-babyfood	0.010000	1.000	1.000	FHE
95001150	O	Coffee, roasted bean	0.010000	1.000	1.000	FHE
95001160	O	Coffee, instant	0.010000	1.000	1.000	FHE
05021170	5B	Collards	0.010000	1.000	1.000	FHE
19011180	19A	Coriander, leaves	0.010000	1.000	1.000	FHE
19011181	19A	Coriander, leaves-babyfood	0.010000	1.000	1.000	FHE
19021190	19B	Coriander, seed	0.010000	1.000	1.000	FHE
19021191	19B	Coriander, seed-babyfood	0.010000	1.000	1.000	FHE
15001200	15	Corn, field, flour	0.020000	1.000	0.010	Avg*%T
15001201	15	Corn, field, flour-babyfood	0.020000	1.000	0.010	Avg*%T
15001210	15	Corn, field, meal	0.020000	1.000	0.010	Avg*%T
15001211	15	Corn, field, meal-babyfood	0.020000	1.000	0.010	Avg*%T
15001220	15	Corn, field, bran	0.020000	1.000	0.010	Avg*%T
15001230	15	Corn, field, starch	0.020000	1.000	0.010	Avg*%T
15001231	15	Corn, field, starch-babyfood	0.020000	1.000	0.010	Avg*%T
15001240	15	Corn, field, syrup	0.020000	1.500	0.010	Avg*%T
15001241	15	Corn, field, syrup-babyfood	0.020000	1.500	0.010	Avg*%T
15001250	15	Corn, field, oil	0.020000	1.000	0.010	Avg*%T
15001251	15	Corn, field, oil-babyfood	0.020000	1.000	0.010	Avg*%T
15001260	15	Corn, pop	0.020000	1.000	0.010	Avg*%T
15001270	15	Corn, sweet	0.003600	1.000	1.000	S.Corn
Full comment: S.Corn Frozen/Canned PDP						
15001271	15	Corn, sweet-babyfood	0.003600	1.000	1.000	S.Corn
Full comment: S.Corn Frozen/Canned PDP						
95001280	O	Cottonseed, oil	0.020000	1.000	0.100	Avg*%T
95001281	O	Cottonseed, oil-babyfood	0.020000	1.000	0.100	Avg*%T
11001290	11	Crabapple	0.033000	1.000	1.000	AplDet
95001300	O	Cranberry	0.010000	1.000	1.000	FHE
95001301	O	Cranberry-babyfood	0.010000	1.000	1.000	FHE
95001310	O	Cranberry, dried	0.010000	1.000	1.000	FHE
95001320	O	Cranberry, juice	0.010000	1.000	1.000	FHE
95001321	O	Cranberry, juice-babyfood	0.010000	1.000	1.000	FHE
04011330	4A	Cress, garden	0.010000	1.000	1.000	FHE
04011340	4A	Cress, upland	0.010000	1.000	1.000	FHE
09021350	9B	Cucumber	0.014300	1.000	1.000	CubrFT
13021360	13B	Currant	0.010000	1.000	1.000	FHE
13021370	13B	Currant, dried	0.010000	1.000	1.000	FHE
04011380	4A	Dandelion, leaves	0.010000	1.000	1.000	FHE
01031390	1CD	Dasheen, corm	0.020000	1.000	1.000	TolLvl
02001400	2	Dasheen, leaves	0.010000	1.000	1.000	FHE
95001410	O	Date	0.010000	1.000	1.000	FHE
13011420	13A	Dewberry	0.010000	1.000	1.000	FHE
19021430	19B	Dill, seed	0.010000	1.000	1.000	FHE
19011440	19A	Dillweed	0.010000	1.000	1.000	FHE
70001450	P	Egg, whole	0.010000	1.000	1.000	TolLvl
70001451	P	Egg, whole-babyfood	0.010000	1.000	1.000	TolLvl
70001460	P	Egg, white	0.010000	1.000	1.000	TolLvl
70001461	P	Egg, white (solids)-babyfood	0.010000	1.000	1.000	TolLvl
70001470	P	Egg, yolk	0.010000	1.000	1.000	TolLvl
70001471	P	Egg, yolk-babyfood	0.010000	1.000	1.000	TolLvl
08001480	8	Eggplant	0.500000	1.000	1.000	TolLvl
13021490	13B	Elderberry	0.010000	1.000	1.000	FHE
04011500	4A	Endive	0.010000	1.000	1.000	FHE
95001510	O	Feijoa	0.010000	1.000	1.000	FHE
04021520	4B	Fennel, Florence	0.010000	1.000	1.000	FHE
95001530	O	Fig	0.010000	1.000	1.000	FHE
95001540	O	Fig, dried	0.010000	1.000	1.000	FHE
14001550	14	Filbert	0.010000	1.000	1.000	TolLvl
14001560	14	Filbert, oil	0.010000	1.000	1.000	TolLvl
80001570	F	Fish-freshwater finfish	0.010000	1.000	1.000	FHE
80001580	F	Fish-freshwater finfish, farm ra	0.010000	1.000	1.000	FHE
80001590	F	Fish-saltwater finfish, tuna	0.010000	1.000	1.000	FHE

80001600	F	Fish-saltwater finfish, other	0.010000	1.000	1.000	FHE
80001610	F	Fish-shellfish, crustacean	0.010000	1.000	1.000	FHE
80001620	F	Fish-shellfish, mollusc	0.010000	1.000	1.000	FHE
20001630	20	Flaxseed, oil	0.010000	1.000	1.000	FHE
03001640	3	Garlic	0.000400	1.000	1.000	GarlPD
03001650	3	Garlic, dried	0.000400	1.000	1.000	GarlPD
03001651	3	Garlic, dried-babyfood	0.000400	1.000	1.000	GarlPD
01031660	1CD	Ginger	0.020000	1.000	1.000	TolLvl
01031661	1CD	Ginger-babyfood	0.020000	1.000	1.000	TolLvl
01031670	1CD	Ginger, dried	0.020000	1.000	1.000	TolLvl
01011680	1AB	Ginseng, dried	0.010000	1.000	1.000	FHE
23001690	M	Goat, meat	0.001700	1.000	1.000	BfMrkt
23001700	M	Goat, meat byproducts	0.001700	1.000	1.000	BfMrkt
23001710	M	Goat, fat	0.001700	1.000	1.000	BfMrkt
23001720	M	Goat, kidney	0.001700	1.000	1.000	BfMrkt
23001730	M	Goat, liver	0.001700	1.000	1.000	BfMrkt
13021740	13B	Gooseberry	0.010000	1.000	1.000	FHE
95001750	O	Grape	0.010000	1.000	1.000	FHE
95001760	O	Grape, juice	0.010000	1.000	1.000	FHE
95001761	O	Grape, juice-babyfood	0.010000	1.000	1.000	FHE
95001770	O	Grape, leaves	0.010000	1.000	1.000	FHE
95001780	O	Grape, raisin	0.010000	1.000	1.000	FHE
95001790	O	Grape, wine and sherry	0.010000	1.000	1.000	FHE
10001800	10	Grapefruit	0.010000	1.000	1.000	FHE
10001810	10	Grapefruit, juice	0.010000	1.000	1.000	FHE
06031820	6C	Guar, seed	0.010300	1.000	0.010	BdryFT
06031821	6C	Guar, seed-babyfood	0.010300	1.000	0.010	BdryFT
95001830	O	Guava	0.010000	1.000	1.000	FHE
95001831	O	Guava-babyfood	0.010000	1.000	1.000	FHE
19011840	19A	Herbs, other	0.010000	1.000	1.000	FHE
19011841	19A	Herbs, other-babyfood	0.010000	1.000	1.000	FHE
14001850	14	Hickory nut	0.010000	1.000	1.000	TolLvl
95001860	O	Honey	0.010000	1.000	1.000	FHE
95001861	O	Honey-babyfood	0.010000	1.000	1.000	FHE
09011870	9A	Honeydew melon	0.016300	1.000	1.000	CntlFT
95001880	O	Hop	3.860000	1.000	1.000	Avg*%T
24001890	M	Horse, meat	0.001700	1.000	1.000	BfMrkt
01011900	1AB	Horseradish	0.010000	1.000	1.000	FHE
13021910	13B	Huckleberry	0.010000	1.000	1.000	FHE
95001920	O	Jaboticaba	0.010000	1.000	1.000	FHE
95001930	O	Jackfruit	0.010000	1.000	1.000	FHE
05021940	5B	Kale	0.010000	1.000	1.000	FHE
95001950	O	Kiwifruit	0.010000	1.000	1.000	FHE
05011960	5A	Kohlrabi	0.003000	1.000	1.000	FHE
10001970	10	Kumquat	0.010000	1.000	1.000	FHE
03001980	3	Leek	0.010000	1.000	1.000	FHE
10001990	10	Lemon	0.010000	1.000	1.000	FHE
10002000	10	Lemon, juice	0.010000	1.000	1.000	FHE
10002001	10	Lemon, juice-babyfood	0.010000	1.000	1.000	FHE
10002010	10	Lemon, peel	0.010000	1.000	1.000	FHE
19012020	19A	Lemongrass	0.010000	1.000	1.000	FHE
06032030	6C	Lentil, seed	0.010300	1.000	0.010	BdryFT
04012040	4A	Lettuce, head	0.007300	1.000	1.000	LettPD
04012050	4A	Lettuce, leaf	0.007300	1.000	1.000	LettPD
10002060	10	Lime	0.010000	1.000	1.000	FHE
10002070	10	Lime, juice	0.010000	1.000	1.000	FHE
10002071	10	Lime, juice-babyfood	0.010000	1.000	1.000	FHE
13012080	13A	Loganberry	0.010000	1.000	1.000	FHE
95002090	O	Longan	0.010000	1.000	1.000	FHE
11002100	11	Loquat	0.007500	1.000	1.000	PerDet
95002110	O	Lychee	0.010000	1.000	1.000	FHE
95002120	O	Lychee, dried	0.010000	1.000	1.000	FHE
14002130	14	Macadamia nut	0.010000	1.000	1.000	TolLvl
95002140	O	Mamey apple	0.010000	1.000	1.000	FHE
95002150	O	Mango	0.010000	1.000	1.000	FHE
95002151	O	Mango-babyfood	0.010000	1.000	1.000	FHE

95002160	O	Mango, dried	0.010000	1.000	1.000	FHE
95002170	O	Mango, juice	0.010000	1.000	1.000	FHE
95002171	O	Mango, juice-babyfood	0.010000	1.000	1.000	FHE
95002180	O	Maple, sugar	0.010000	1.000	1.000	FHE
95002190	O	Maple syrup	0.010000	1.000	1.000	FHE
19012200	19A	Marjoram	0.010000	1.000	1.000	FHE
19012201	19A	Marjoram-babyfood	0.010000	1.000	1.000	FHE
28002210	M	Meat, game	0.001700	1.000	1.000	BfMrkt
27002220	D	Milk, fat	0.006500	1.000	1.000	ButrPD
27002221	D	Milk, fat - baby food/infant for	0.006500	1.000	1.000	ButrPD
27012230	D	Milk, nonfat solids	0.006500	1.000	1.000	ButrPD
27012231	D	Milk, nonfat solids-baby food/in	0.006500	1.000	1.000	ButrPD
27022240	D	Milk, water	0.006500	1.000	1.000	ButrPD
27022241	D	Milk, water-babyfood/infant form	0.006500	1.000	1.000	ButrPD
27032251	D	Milk, sugar (lactose)-baby food/	0.006500	1.000	1.000	ButrPD
15002260	15	Millet, grain	0.010000	1.000	1.000	FHE
95002270	O	Mulberry	0.010000	1.000	1.000	FHE
95002280	O	Mushroom	0.010000	1.000	1.000	FHE
05022290	5B	Mustard greens	0.010000	1.000	1.000	FHE
12002300	12	Nectarine	0.005000	1.000	1.000	DtValu
15002310	15	Oat, bran	0.007000	3.000	1.000	WhtDet
15002320	15	Oat, flour	0.007000	1.000	1.000	WhtDet
15002321	15	Oat, flour-babyfood	0.007000	1.000	1.000	WhtDet
15002330	15	Oat, groats/rolled oats	0.007000	1.000	1.000	WhtDet
15002331	15	Oat, groats/rolled oats-babyfood	0.007000	1.000	1.000	WhtDet
08002340	8	Okra	0.500000	1.000	1.000	TollLvl
95002350	O	Olive	0.010000	1.000	1.000	FHE
95002360	O	Olive, oil	0.010000	1.000	1.000	FHE
03002370	3	Onion, dry bulb	0.001800	1.000	1.000	OnioPD
03002371	3	Onion, dry bulb-babyfood	0.001800	1.000	1.000	OnioPD
03002380	3	Onion, dry bulb, dried	0.001800	9.000	1.000	OnioPD
03002381	3	Onion, dry bulb, dried-babyfood	0.001800	9.000	1.000	OnioPD
03002390	3	Onion, green	0.010000	1.000	1.000	FHE
10002400	10	Orange	0.010000	1.000	1.000	FHE
10002410	10	Orange, juice	0.010000	1.000	1.000	FHE
10002411	10	Orange, juice-babyfood	0.010000	1.000	1.000	FHE
10002420	10	Orange, peel	0.010000	1.000	1.000	FHE
95002430	O	Palm heart, leaves	0.010000	1.000	1.000	FHE
95002440	O	Palm, oil	0.010000	1.000	1.000	FHE
95002441	O	Palm, oil-babyfood	0.010000	1.000	1.000	FHE
95002450	O	Papaya	0.010000	1.000	1.000	FHE
95002451	O	Papaya-babyfood	0.010000	1.000	1.000	FHE
95002460	O	Papaya, dried	0.010000	1.000	1.000	FHE
95002470	O	Papaya, juice	0.010000	1.000	1.000	FHE
04012480	4A	Parsley, leaves	0.010000	1.000	1.000	FHE
19012490	19A	Parsley, dried leaves	0.010000	1.000	1.000	FHE
19012491	19A	Parsley, dried leaves-babyfood	0.010000	1.000	1.000	FHE
01012500	1AB	Parsley, turnip rooted	0.010000	1.000	1.000	FHE
01012510	1AB	Parsnip	0.010000	1.000	1.000	FHE
01012511	1AB	Parsnip-babyfood	0.010000	1.000	1.000	FHE
95002520	O	Passionfruit	0.010000	1.000	1.000	FHE
95002521	O	Passionfruit-babyfood	0.010000	1.000	1.000	FHE
95002530	O	Passionfruit, juice	0.010000	1.000	1.000	FHE
95002531	O	Passionfruit, juice-babyfood	0.010000	1.000	1.000	FHE
95002540	O	Pawpaw	0.010000	1.000	1.000	FHE
06022550	6B	Pea, succulent	0.000100	1.000	1.000	Canned
		Full comment: Canned/Frozen Pea PDP				
06022551	6B	Pea, succulent-babyfood	0.000100	1.000	1.000	Canned
		Full comment: Canned/Frozen Pea PDP				
06032560	6C	Pea, dry	0.017500	1.000	0.010	PdryFT
06032561	6C	Pea, dry-babyfood	0.017500	1.000	0.010	PdryFT
06012570	6A	Pea, edible podded, succulent	0.000100	1.000	1.000	Canned
		Full comment: Canned/Frozen Pea PDP				
06032580	6C	Pea, pigeon, seed	0.017500	1.000	0.010	PdryFT
06022590	6B	Pea, pigeon, succulent	0.000100	1.000	1.000	Canned
		Full comment: Canned/Frozen Pea PDP				

12002600	12	Peach				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.000100	1.000	1.000	PechPD
		120-Uncooked; Frozen; Cook Meth N/S	0.000100	1.000	1.000	PechPD
		130-Uncooked; Dried; Cook Meth N/S	0.000100	1.000	1.000	PechPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.000100	0.040	1.000	P.stdy
		211-Cooked; Fresh or N/S; Baked	0.000100	0.040	1.000	P.stdy
		213-Cooked; Fresh or N/S; Fried	0.000100	0.040	1.000	P.stdy
		221-Cooked; Frozen; Baked	0.000100	0.040	1.000	P.stdy
		223-Cooked; Frozen; Fried	0.000100	0.040	1.000	P.stdy
		240-Cooked; Canned; Cook Meth N/S	0.000100	0.040	1.000	P.stdy
12002601	12	Peach-babyfood	0.000100	0.040	1.000	P.stdy
12002610	12	Peach, dried	0.000100	7.000	1.000	PechPD
12002611	12	Peach, dried-babyfood	0.000100	7.000	1.000	PechPD
12002620	12	Peach, juice	0.000100	1.000	1.000	PechPD
12002621	12	Peach, juice-babyfood	0.000100	1.000	1.000	PechPD
95002630	0	Peanut	0.040000	1.000	0.050	Avg*%T
95002640	0	Peanut, butter	0.040000	1.890	0.050	Avg*%T
95002650	0	Peanut, oil	0.040000	1.000	0.050	Avg*%T
11002660	11	Pear				
		110-Uncooked; Fresh or N/S; Cook Meth N/S	0.001100	1.000	1.000	PearPD
		210-Cooked; Fresh or N/S; Cook Meth N/S	0.001100	0.080	1.000	C.stdy
		211-Cooked; Fresh or N/S; Baked	0.001100	0.080	1.000	C.stdy
		240-Cooked; Canned; Cook Meth N/S	0.001100	0.080	1.000	C.stdy
11002661	11	Pear-babyfood	0.001100	0.080	1.000	C.stdy
11002670	11	Pear, dried	0.001100	6.250	1.000	PearPD
11002680	11	Pear, juice	0.001100	1.300	1.000	PearPD
11002681	11	Pear, juice-babyfood	0.001100	1.300	1.000	PearPD
14002690	14	Pecan	0.010000	1.000	0.010	PecnFT
08002700	8	Pepper, bell	0.000500	1.000	1.000	BPepPD
08002701	8	Pepper, bell-babyfood	0.000500	1.000	1.000	BPepPD
08002710	8	Pepper, bell, dried	0.000500	1.000	1.000	BPepPD
08002711	8	Pepper, bell, dried-babyfood	0.000500	1.000	1.000	BPepPD
08002720	8	Pepper, nonbell	0.083300	1.000	0.050	NPepFT
08002721	8	Pepper, nonbell-babyfood	0.083300	1.000	0.050	NPepFT
08002730	8	Pepper, nonbell, dried	0.083300	1.000	0.050	NPepFT
19022740	19B	Pepper, black and white	0.010000	1.000	1.000	FHE
19022741	19B	Pepper, black and white-babyfood	0.010000	1.000	1.000	FHE
95002750	0	Peppermint	0.010000	1.000	1.000	FHE
95002760	0	Peppermint, oil	0.010000	1.000	1.000	FHE
95002770	0	Persimmon	0.010000	1.000	1.000	FHE
95002780	0	Pine nut	0.010000	1.000	1.000	FHE
95002790	0	Pineapple	0.010000	1.000	1.000	FHE
95002791	0	Pineapple-babyfood	0.010000	1.000	1.000	FHE
95002800	0	Pineapple, dried	0.010000	1.000	1.000	FHE
95002810	0	Pineapple, juice	0.010000	1.000	1.000	FHE
95002811	0	Pineapple, juice-babyfood	0.010000	1.000	1.000	FHE
14002820	14	Pistachio	0.010000	1.000	1.000	TolLvl
95002830	0	Plantain	0.010000	1.000	1.000	FHE
95002840	0	Plantain, dried	0.010000	1.000	1.000	FHE
12002850	12	Plum	0.037200	1.000	0.050	PlumFT
12002851	12	Plum-babyfood	0.037200	1.000	0.050	PlumFT
12002860	12	Plum, prune, fresh	0.037200	1.000	0.050	PlumFT
12002861	12	Plum, prune, fresh-babyfood	0.037200	1.000	0.050	PlumFT
12002870	12	Plum, prune, dried	0.037200	1.400	0.050	PlumFT
12002871	12	Plum, prune, dried-babyfood	0.037200	1.400	0.050	PlumFT
12002880	12	Plum, prune, juice	0.037200	1.400	0.050	PlumFT
12002881	12	Plum, prune, juice-babyfood	0.037200	1.400	0.050	PlumFT
95002890	0	Pomegranate	0.010000	1.000	1.000	FHE



25002900	M	Pork, meat	0.001700	1.000	1.000	BfMrkt
25002901	M	Pork, meat-babyfood	0.001700	1.000	1.000	BfMrkt
25002910	M	Pork, skin	0.001700	1.000	1.000	BfMrkt
25002920	M	Pork, meat byproducts	0.001700	1.000	1.000	BfMrkt
25002921	M	Pork, meat byproducts-babyfood	0.001700	1.000	1.000	BfMrkt
25002930	M	Pork, fat	0.001700	1.000	1.000	BfMrkt
25002931	M	Pork, fat-babyfood	0.001700	1.000	1.000	BfMrkt
25002940	M	Pork, kidney	0.001700	1.000	1.000	BfMrkt
25002950	M	Pork, liver	0.001700	1.000	1.000	BfMrkt
01032960	1C	Potato, chips	0.010000	1.000	1.000	PotoFT
01032970	1C	Potato, dry (granules/ flakes)	0.010000	6.500	1.000	PotoFT
01032971	1C	Potato, dry (granules/ flakes)-b	0.010000	6.500	1.000	PotoFT
01032980	1C	Potato, flour	0.010000	1.000	1.000	PotoFT
01032981	1C	Potato, flour-babyfood	0.010000	1.000	1.000	PotoFT
01032990	1C	Potato, tuber, w/peel	0.010000	1.000	1.000	PotoFT
01032991	1C	Potato, tuber, w/peel-babyfood	0.010000	1.000	1.000	PotoFT
01033000	1C	Potato, tuber, w/o peel	0.010000	1.000	1.000	PotoFT
01033001	1C	Potato, tuber, w/o peel-babyfood	0.010000	1.000	1.000	PotoFT
60003010	P	Poultry, other, meat	0.010000	1.000	1.000	TolLvl
60003020	P	Poultry, other, liver	0.010000	1.000	1.000	TolLvl
60003030	P	Poultry, other, meat byproducts	0.010000	1.000	1.000	TolLvl
60003040	P	Poultry, other, fat	0.030000	1.000	1.000	TolLvl
60003050	P	Poultry, other, skin	0.030000	1.000	1.000	TolLvl
95003060	O	Psyllium, seed	0.010000	1.000	1.000	FHE
10003070	10	Pummelo	0.010000	1.000	1.000	FHE
09023080	9B	Pumpkin	0.020500	1.000	1.000	SqshFT
09023090	9B	Pumpkin, seed	0.020500	1.000	1.000	SqshFT
11003100	11	Quince	0.007500	1.000	1.000	PerDet
95003110	O	Quinoa, grain	0.010000	1.000	1.000	FHE
29003120	M	Rabbit, meat	0.001700	1.000	1.000	BfMrkt
04013130	4A	Radicchio	0.010000	1.000	1.000	FHE
01013140	1AB	Radish, roots	0.010000	1.000	1.000	FHE
02003150	2	Radish, tops	0.010000	1.000	1.000	FHE
01013160	1AB	Radish, Oriental, roots	0.010000	1.000	1.000	FHE
02003170	2	Radish, Oriental, tops	0.010000	1.000	1.000	FHE
05023180	5B	Rape greens	0.010000	1.000	1.000	FHE
20003190	20	Rapeseed, oil	0.102000	2.300	0.010	Avg*%T
20003191	20	Rapeseed, oil-babyfood	0.102000	2.300	0.010	Avg*%T
13013200	13A	Raspberry	0.010000	1.000	1.000	FHE
13013201	13A	Raspberry-babyfood	0.010000	1.000	1.000	FHE
13013210	13A	Raspberry, juice	0.010000	1.000	1.000	FHE
13013211	13A	Raspberry, juice-babyfood	0.010000	1.000	1.000	FHE
04023220	4B	Rhubarb	0.010000	1.000	1.000	FHE
15003230	15	Rice, white	0.003500	1.000	0.150	Avg*%T
15003231	15	Rice, white-babyfood	0.003500	1.000	0.150	Avg*%T
15003240	15	Rice, brown	0.346000	1.000	0.150	Avg*%T
15003241	15	Rice, brown-babyfood	0.346000	1.000	0.150	Avg*%T
15003250	15	Rice, flour	0.003500	1.000	0.150	Avg*%T
15003251	15	Rice, flour-babyfood	0.003500	1.000	0.150	Avg*%T
15003260	15	Rice, bran	0.346000	1.000	0.150	Avg*%T
15003261	15	Rice, bran-babyfood	0.346000	1.000	0.150	Avg*%T
01013270	1AB	Rutabaga	0.010000	1.000	1.000	FHE
15003280	15	Rye, grain	0.007000	1.000	1.000	WhtDet
15003290	15	Rye, flour	0.007000	1.000	1.000	WhtDet
20003300	20	Safflower, oil	0.010000	1.000	1.000	FHE
20003301	20	Safflower, oil-babyfood	0.010000	1.000	1.000	FHE
01013310	1AB	Salsify, roots	0.010000	1.000	1.000	FHE
02003320	2	Salsify, tops	0.010000	1.000	1.000	FHE
95003330	O	Sapote, Mamey	0.010000	1.000	1.000	FHE
19013340	19A	Savory	0.010000	1.000	1.000	FHE
95003350	O	Seaweed	0.010000	1.000	1.000	FHE
95003351	O	Seaweed-babyfood	0.010000	1.000	1.000	FHE
95003360	O	Sesame, seed	0.010000	1.000	1.000	FHE
95003361	O	Sesame, seed-babyfood	0.010000	1.000	1.000	FHE
95003370	O	Sesame, oil	0.010000	1.000	1.000	FHE
95003371	O	Sesame, oil-babyfood	0.010000	1.000	1.000	FHE

03003380	3	Shallot	0.010000	1.000	1.000	FHE
26003390	M	Sheep, meat	0.001700	1.000	1.000	BfMrkt
26003391	M	Sheep, meat-babyfood	0.001700	1.000	1.000	BfMrkt
26003400	M	Sheep, meat byproducts	0.001700	1.000	1.000	BfMrkt
26003410	M	Sheep, fat	0.001700	1.000	1.000	BfMrkt
26003411	M	Sheep, fat-babyfood	0.001700	1.000	1.000	BfMrkt
26003420	M	Sheep, kidney	0.001700	1.000	1.000	BfMrkt
26003430	M	Sheep, liver	0.001700	1.000	1.000	BfMrkt
15003440	15	Sorghum, grain	0.077500	1.000	0.010	Avg*%T
15003450	15	Sorghum, syrup	0.077500	1.000	0.010	Avg*%T
95003460	O	Soursop	0.010000	1.000	1.000	FHE
06003470	6	Soybean, seed	0.000100	1.000	1.000	SoyPDP
06003480	6	Soybean, flour	0.000100	1.000	1.000	SoyPDP
06003481	6	Soybean, flour-babyfood	0.000100	1.000	1.000	SoyPDP
06003490	6	Soybean, soy milk	0.000100	1.000	1.000	SoyPDP
06003491	6	Soybean, soy milk-babyfood or in	0.000100	1.000	1.000	SoyPDP
06003500	6	Soybean, oil	0.000100	1.000	1.000	SoyPDP
06003501	6	Soybean, oil-babyfood	0.000100	1.000	1.000	SoyPDP
95003510	O	Spanish lime	0.010000	1.000	1.000	FHE
95003520	O	Spearmint	0.010000	1.000	1.000	FHE
95003530	O	Spearmint, oil	0.010000	1.000	1.000	FHE
19023540	19B	Spices, other	0.010000	1.000	1.000	FHE
19023541	19B	Spices, other-babyfood	0.010000	1.000	1.000	FHE
04013550	4A	Spinach	0.010000	1.000	1.000	FHE
04013551	4A	Spinach-babyfood	0.010000	1.000	1.000	FHE
09023560	9B	Squash, summer	0.020500	1.000	1.000	SqshFT
09023561	9B	Squash, summer-babyfood	0.020500	1.000	1.000	SqshFT
09023570	9B	Squash, winter	0.020500	1.000	1.000	SqshFT
09023571	9B	Squash, winter-babyfood	0.020500	1.000	1.000	SqshFT
95003580	O	Starfruit	0.010000	1.000	1.000	FHE
95003590	O	Strawberry	0.010000	1.000	1.000	FHE
95003591	O	Strawberry-babyfood	0.010000	1.000	1.000	FHE
95003600	O	Strawberry, juice	0.010000	1.000	1.000	FHE
95003601	O	Strawberry, juice-babyfood	0.010000	1.000	1.000	FHE
95003610	O	Sugar apple	0.010000	1.000	1.000	FHE
95003620	O	Sugarcane, sugar	0.019200	1.000	0.050	Avg*%T
95003621	O	Sugarcane, sugar-babyfood	0.019200	1.000	0.050	Avg*%T
95003630	O	Sugarcane, molasses	0.019200	1.000	0.050	Avg*%T
95003631	O	Sugarcane, molasses-babyfood	0.019200	1.000	0.050	Avg*%T
20003640	20	Sunflower, seed	0.039000	1.000	0.100	Avg*%T
20003650	20	Sunflower, oil	0.039000	1.000	0.100	Avg*%T
20003651	20	Sunflower, oil-babyfood	0.039000	1.000	0.100	Avg*%T
01033660	1CD	Sweet potato	0.020000	1.000	1.000	TolLvl
01033661	1CD	Sweet potato-babyfood	0.020000	1.000	1.000	TolLvl
04023670	4B	Swiss chard	0.010000	1.000	1.000	FHE
95003680	O	Tamarind	0.010000	1.000	1.000	FHE
10003690	10	Tangerine	0.010000	1.000	1.000	FHE
10003700	10	Tangerine, juice	0.010000	1.000	1.000	FHE
01033710	1CD	Tanier, corm	0.020000	1.000	1.000	TolLvl
95003720	O	Tea, dried	0.010000	1.000	1.000	FHE
95003730	O	Tea, instant	0.010000	1.000	1.000	FHE
08003740	8	Tomatillo	0.036200	1.000	0.200	TmtoFT
08003750	8	Tomato	0.036200	1.000	0.200	TmtoFT
08003751	8	Tomato-babyfood	0.036200	1.000	0.200	TmtoFT
08003760	8	Tomato, paste	0.036200	5.400	0.200	TmtoFT
08003761	8	Tomato, paste-babyfood	0.036200	5.400	0.200	TmtoFT
08003770	8	Tomato, puree	0.036200	3.300	0.200	TmtoFT
08003771	8	Tomato, puree-babyfood	0.036200	3.300	0.200	TmtoFT
08003780	8	Tomato, dried	0.036200	14.300	0.200	TmtoFT
08003781	8	Tomato, dried-babyfood	0.036200	14.300	0.200	TmtoFT
08003790	8	Tomato, juice	0.036200	1.500	0.200	TmtoFT
95003800	O	Tomato, Tree	0.010000	1.000	1.000	FHE
15003810	15	Triticale, flour	0.007000	1.000	1.000	WhtDet
15003811	15	Triticale, flour-babyfood	0.007000	1.000	1.000	WhtDet
50003820	P	Turkey, meat	0.010000	1.000	1.000	TolLvl
50003821	P	Turkey, meat-babyfood	0.010000	1.000	1.000	TolLvl

50003830	P	Turkey, liver	0.010000	1.000	1.000	TolLvl
50003831	P	Turkey, liver-babyfood	0.010000	1.000	1.000	TolLvl
50003840	P	Turkey, meat byproducts	0.010000	1.000	1.000	TolLvl
50003841	P	Turkey, meat byproducts-babyfood	0.010000	1.000	1.000	TolLvl
50003850	P	Turkey, fat	0.030000	1.000	1.000	TolLvl
50003851	P	Turkey, fat-babyfood	0.030000	1.000	1.000	TolLvl
50003860	P	Turkey, skin	0.030000	1.000	1.000	TolLvl
50003861	P	Turkey, skin-babyfood	0.030000	1.000	1.000	TolLvl
01033870	1CD	Turmeric	0.020000	1.000	1.000	TolLvl
01013880	1AB	Turnip, roots	0.010000	1.000	1.000	FHE
05023890	5B	Turnip, greens	0.010000	1.000	1.000	FHE
95003900	O	Vinegar	0.010000	1.000	1.000	FHE
14003910	14	Walnut	0.010000	1.000	0.050	TolLvl
86010000	O	Water, direct, all sources	0.000100	1.000	1.000	
86020000	O	Water, indirect, all sources	0.000100	1.000	1.000	
95003970	O	Water chestnut	0.010000	1.000	1.000	FHE
95003980	O	Watercress	0.010000	1.000	1.000	FHE
09013990	9A	Watermelon	0.016300	1.000	1.000	CntlFT
09014000	9A	Watermelon, juice	0.016300	1.000	1.000	CntlFT
15004010	15	Wheat, grain	0.000100	1.000	1.000	WhetPD
15004011	15	Wheat, grain-babyfood	0.000100	1.000	1.000	WhetPD
15004020	15	Wheat, flour	0.000100	1.000	1.000	WhetPD
15004021	15	Wheat, flour-babyfood	0.000100	1.000	1.000	WhetPD
15004030	15	Wheat, germ	0.000100	1.000	1.000	WhetPD
15004040	15	Wheat, bran	0.000100	3.000	1.000	WhetPD
15004050	15	Wild rice	0.003500	1.000	0.150	RiceFT
01034060	1CD	Yam, true	0.020000	1.000	1.000	TolLvl
01034070	1CD	Yam bean	0.020000	1.000	1.000	TolLvl

Attachment 5: Chronic Dietary Analysis (Food + Water) Results file.

U.S. Environmental Protection Agency Ver. 2.00  
DEEM-FCID Chronic analysis for LAMBDA CYHALOTHRIN (1994-98 data)  
Residue file name: C:\Documents and Settings\aparmar\Desktop\Revised Water\Lambda NU  
Chronic.R98

Adjustment factor #2 used.

Analysis Date 11-30-2006/11:50:48 Residue file dated: 11-30-2006/10:58:41/8  
Reference dose (RfD, Chronic) = .001 mg/kg bw/day  
COMMENT 1: including FHE

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Total exposure by population subgroup  
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Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U.S. Population (total)	0.000173	17.3%
U.S. Population (spring season)	0.000179	17.9%
U.S. Population (summer season)	0.000181	18.1%
U.S. Population (autumn season)	0.000166	16.6%
U.S. Population (winter season)	0.000166	16.6%
Northeast region	0.000178	17.8%
Midwest region	0.000174	17.4%
Southern region	0.000160	16.0%
Western region	0.000188	18.8%
Hispanics	0.000190	19.0%
Non-hispanic whites	0.000171	17.1%
Non-hispanic blacks	0.000160	16.0%
Non-hisp/non-white/non-black	0.000204	20.4%
All infants (< 1 year)	0.000222	22.2%
Nursing infants	0.000096	9.6%
Non-nursing infants	0.000270	27.0%
Children 1-6 yrs	0.000400	40.0%
Children 7-12 yrs	0.000209	20.9%
Females 13-19 (not preg or nursing)	0.000112	11.2%
Females 20+ (not preg or nursing)	0.000119	11.9%
Females 13-50 yrs	0.000133	13.3%
Females 13+ (preg/not nursing)	0.000124	12.4%
Females 13+ (nursing)	0.000151	15.1%
Males 13-19 yrs	0.000148	14.8%
Males 20+ yrs	0.000168	16.8%
Seniors 55+	0.000123	12.3%
Children 1-2 yrs	0.000503	50.3%
Children 3-5 yrs	0.000367	36.7%
Children 6-12 yrs	0.000222	22.2%
Youth 13-19 yrs	0.000130	13.0%
Adults 20-49 yrs	0.000153	15.3%
Adults 50+ yrs	0.000125	12.5%
Females 13-49 yrs	0.000121	12.1%

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Attachment 6: BEAD Screening Level Usage Analysis for lambda-cyhalothrin.

Screening Level Estimates of Agricultural Uses of Lambda-Cyhalothrin

Sorted Alphabetically

	Crop	Pounds of Active Ingredient	Percent of Crop Treated	Maximum Percent of Crop Treated
1	Alfalfa	20,000	5	5
2	Almonds *	<500	5	5
3	Apples	3,000	5	10
4	Apricots	<500	15	40
5	Artichokes *	<500	5	5
6	Beans, Green	2,000	10	20
7	Broccoli	1,000	10	20
8	Brussels Sprouts *	<500		
9	Cabbage	2,000	30	45
10	Canola/Rapeseed	<500	<1	<2.5
11	Cantaloupes	<500	<1	5
12	Carrots	<500	<1	<2.5
13	Cauliflower	<500	20	30
14	Cherries	<500	5	15
15	Chicory *	<500		
16	Corn	30,000	<1	<2.5
17	Cotton	50,000	10	10
18	Cucumbers	1,000	5	10
19	Dry Beans/Peas	1,000	<1	<2.5
20	Garlic	<500	10	30
21	Hazelnuts (Filberts)	<500	5	5
22	Lettuce	4,000	30	45
23	Nectarines *	<500		
24	Olives *	<500		
25	Onions	6,000	50	55
26	Peaches	<500	5	10
27	Peanuts	2,000	5	10
28	Pears	1,000	15	30
29	Peas, Green	<500	<1	<2.5
30	Pecans	<500	<1	5
31	Peppers	<500	5	15
32	Potatoes	<500	<1	<2.5
33	Prunes & Plums *	<500	5	5
34	Pumpkins	<500	5	10
35	Rice	10,000	15	30
36	Seed Crops (NPUD '02)	<500	25	
37	Sod (NPUD '02)	<500	5	
38	Sorghum	1,000	<1	<2.5
39	Soybeans	30,000	5	10
40	Spinach	<500	5	5
41	Squash	<500	<1	10
42	Strawberries	<500	<1	<2.5
43	Sugarcane	1,000	5	10
44	Sunflowers	7,000	10	20
45	Sweet Corn	20,000	45	60
46	Tobacco	<500	<1	5
47	Tomatoes	4,000	20	20
48	Walnuts	1,000	5	5
49	Watermelons	<500	<1	<2.5
50	Wheat	9,000	<1	<2.5

All numbers rounded.

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

Last Revised on 03/01/2006

Attachment 7: Processing Factors used for lambda-cyhalothrin Acute and Chronic Dietary Analysis

Processing Factors used for lambda-cyhalothrin Acute and Chronic Dietary Analysis		
Commodity	Processing Factor	Source
Apples - dried	8.0	DEEM-FCID Default Processing Factor
Apples - juice/cider	1.3	Default Processing Factor Also used for pear juice
Apple – peeling, cooking, canning study <sup>1</sup>	0.08	Processing Study (MRID# 45443104) Also used for pear processed food forms
Apricots – dried	6.0	Default Processing Factor
Beef – dried	1.92	Default Processing Factor
Canola – oil <sup>1</sup>	2.3	Processing Study (MRID# 45443103)
Cherries – juice	1.5	Default Processing Factor
Corn grain - sugar/hfcs	1.5	Default Processing Factor
Onions - dehydrated or dried	9.0	Default Processing Factor
Peaches – peeling and canning study <sup>1</sup>	0.04	Processing Study (MRID# 45443105) Also used for apricot processed food forms
Peaches – dried	7.0	Default Processing Factor
Peanuts – butter	1.89	Default Processing Factor
Pears – dried	6.25	Default Processing Factor
Plums – prunes (dried) processing study <sup>1</sup>	1.4	Processing Study (MRID# 45007007)
Plums - prunes (juice)	1.4	Default Processing Factor
Potatoes/White – dry	6.5	Default Processing Factor
Tomatoes – dried	14.3	Default Processing Factor
Tomatoes – juice	1.5	Default Processing Factor
Tomatoes - paste	5.4	Default Processing Factor
Tomatoes - puree	3.3	Default Processing Factor
Wheat – bran processing study <sup>2</sup>	3	Processing Study (MRID# 433308-01)

1 - These processing studies are reviewed in “Request for the Use of Lambda-Cyhalothrin in/on Canola, Pome Fruits, Stone Fruits, Tree Nuts, Almond Hulls, and Tobacco including Apple and Peach Cooking Studies. Evaluation of Analytical Method and Magnitude of the Residue Data” (PP#0F6092, DP Barcode: D262858, D276160 W. Cutchin, Jun 27 2002).

2 - This processing study is reviewed in “Cyhalothrin. Anticipated Residues for Dietary Risk Assessment. CBTS#'s 14,274, 14,415, and 14,558” (9F3770 and 7F3560, D206401 and D208492, J. Morales, Dec 16 1994).

Attachment 8: Anticipated Residues Summary Table

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
<b>Crop Group O: Other</b>											
Avocado	All	NB	Avocado FT MRID: 44325701 45568001	12	12	0.01	100	100	--	RDF #16	0.0725
Cottonseed (oil, oil-babyfood)	All	B	Cotton FT MRID: 00153043	5	5	0.01	10	10	--	Blended 0.02	Blended 0.02
Hop	All	B	Hop FT MRID: 41614605 41614606 41614607 42172306 42172307 42182302	3	3	0.01	100	100	--	Blended 3.86	Blended 3.86
Peanut (peanut, oil)	All	B	Peanut FT MRID: 42273202	12	12	0.02	10	5	--	Blended 0.04	Blended 0.04

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Peanut, butter	All	B	Peanut FT MRID: 42273202	12	12	0.02	10	5	1.890	Blended 0.04	Blended 0.04
Sugarcane (sugar, sugar-babyfood, molasses, molasses-babyfood)	All	B	Sugarcane FT MRID: 44325709 45568001	18	18	0.01	10	5	--	Blended 0.0192	Blended 0.0192
Water (direct, indirect)	All	N/A	EFED	--	--	--	--	--	--	0.005350	0.0001
<b>Crop Group M: Meat</b>											
Beef, meat (all beef commodities except beef, meat-dried)	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
Beef, meat-dried	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	1.920	RDF #9	0.0017
Goat (all goat commodities)	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
Horse, meat	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
Game, meat	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017



RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Pork (all pork commodities)	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
Rabbit, meat	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
Sheep (all sheep commodities)	All	N/A	Beef Fat Market Basket Data	232	16	0.0015	--	--	--	RDF #9	0.0017
<b>Crop Group P: Poultry</b>											
Chicken (meat, meat-babyfood, liver, meat byproducts, meat byproducts-babyfood)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.01	Tolerance 0.01
Chicken (fat, fat-babyfood, skin, skin-babyfood)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.03	Tolerance 0.03
Egg (All egg commodities)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.01	Tolerance 0.01
Poultry (other meat, other liver, other meat byproducts)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.01	Tolerance 0.01
Poultry (other fat, other skin)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.03	Tolerance 0.03

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Turkey (meat, meat babyfood, liver, liver babyfood, meat byproducts, meat byproducts-babyfood)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.01	Tolerance 0.01
Turkey (fat, fat-babyfood, skin, skin-babyfood)	All	N/A	Tolerance	--	--	--	--	--	--	Tolerance 0.03	Tolerance 0.03
<b>Crop Group D: Dairy Products</b>											
Milk (all milk commodities)	All	N/A	Butter PDP 2003	731	422	0.0028	--	--	--	RDF #21	0.0065
<b>Crop Group 1C: Tuberous and Corm Vegetable</b>											
Potato, dry (all potato dry commodities)	All	B	Potato FT MRID: 46665304	32	0	0.01	100	100	6.5	RDF #26	Blended 0.01
Potato (chips, flour, flour-babyfood, tuber w/peel, tuber w/peel-babyfood, tuber w/o peel, tuber w/o peel-babyfood)	All	NB/PB	Potato FT MRID: 46665304	32	0	0.01	100	100	--	RDF #26	0.01
Arrowroot (flour, flour-babyfood)	All	B	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Artichoke, Jerusalem	All	NB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Cassava (cassava, cassava-babyfood)	All	NB/PB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Dasheen, corm	All	NB/PB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Ginger (ginger, ginger-babyfood, dried)	All	NB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Sweet potato (sweet potato, sweet potato-babyfood)	All	NB/PB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Tanier, corm	All	NB/PB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Tumeric	All	NB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
Yam (true, bean)	All	NB/PB	Tolerance	--	--	--	100	100	--	Tolerance 0.02	Tolerance 0.02
<b>Crop Group 3: Bulb Vegetable</b>											
Garlic (all garlic commodities)	All	NB/PB	Onion PDP 2002 - 2003	1049	0	0.0035	30	10	--	RDF #23	0.0004
Onion (dry bulb, dry bulb-babyfood)	All	NB/PB	Onion PDP 2002 - 2003	1049	0	0.0035	55	50	--	RDF #3	0.0018
Onion (dry bulb dried, dry bulb dried-babyfood)	All	B	Onion PDP 2002 - 2003	1049	0	0.0035	55	50	9.0	Blended 0.0035	Blended 0.0018

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
<b>Crop Group 4A: Leafy Greens</b>											
Lettuce (head, leaf)	All	NB/PB	Lettuce PDP 2004 - 2005	1054	102	0.0030	45	30	--	RDF #4	0.0073
<b>Crop Group 5A: Brassica (Head and Stem)</b>											
Broccoli (broccoli, broccoli-babyfood, Chinese)	All	NB/PB	Broccoli PDP 2002	522	1	0.0050	20	10	--	RDF #5	0.0005
Brussels sprouts	All	PB	Broccoli PDP 2002	522	1	0.0050	20	10	--	RDF #5	0.0005
Cabbage (cabbage, Chinese bok choy, Chinese napa)	All	NB/PB	Cabbage FT MRID: 41737006	11	11	0.01	45	30	--	RDF #6	0.0236
Cabbage, Chinese, mustard	All	NB/PB	Cabbage FT MRID: 41737006	11	11	0.01	45	30	--	RDF #6	0.0236
Cauliflower	All	NB/PB	Cauliflower PDP 2004 - 2005	926	0	0.0084	30	20	--	RDF #20	0.0017
Kohlrabi	All	NB/PB	Cabbage FT MRID: 41737006	11	11	0.01	45	30	--	RDF #6	0.0236

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
							<b>Crop Group 6: Legume Vegetable</b>				
Bean, snap (succulent, succulent babyfood)	All	PB	Bean, Succulent FT MRID: 44325706	12	12	0.01	20	10	--	RDF #19	0.01
Pea, edible podded, succulent	All	PB	Pea PDP 2002 - 2003	521	0	0.0075	2.5	1	--	RDF #29	0.0001
Bean, succulent	All	PB	Bean, Succulent FT MRID: 44325706	12	12	0.01	20	10	--	RDF #19	0.01
Pea, succulent	All	PB	Pea PDP 2002 - 2003	521	0	0.0075	2.5	1	--	RDF #29	0.0001
Bean, dry	All	B	Bean, Dry FT MRID: 44325706 45568001	18	18	0.01	2.5	1	--	Blended 0.0103	Blended 0.0103
Pea, dry	All	B	Pea, Dry FT MRID: 44325706 45568001	10	10	0.01	2.5	1	--	Blended 0.0175	Blended 0.0175

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Soybean (all soybean commodities)	All	B	Soybean PDP 2005	368	0	0.0030	10	5	--	Blended 0.02	Blended 0.0001
<b>Crop Group 8: Fruiting Vegetable</b>											
Eggplant	All	NB	Tolerance level	--	--	--	100	100	--	Tolerance 0.2	Tolerance 0.2
Okra	All	NB/PB	Tolerance level	--	--	--	100	100	--	Tolerance 0.2	Tolerance 0.2
Pepper, bell (bell, bell-babyfood, dried, dried-babyfood)	All	NB/PB	Bell Pepper PDP 2002 & 2004	1485	45	0.0026	15	5	--	RDF #17	0.0005
Pepper, nonbell (nonbell, nonbell-babyfood, dried)	All	NB/PB	Non-Bell Pepper FT MRID: 44325702	6	6	0.01	15	5	--	RDF #18	0.0833
Tomatillo	All	NB/PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	--	RDF #7	0.0362
Tomato (tomato, tomato-babyfood)	All	NB/PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	--	RDF #7	0.0362

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Tomato, paste (paste, paste-babyfood)	All	PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	5.4	RDF #7	0.0362
Tomato, puree (puree, puree-babyfood)	All	PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	3.3	RDF #7	0.0362
Tomato, dried (dried, dried-babyfood)	All	PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	14.3	RDF #7	0.0362
Tomato, juice	All	PB	Tomato FT MRID: 41737007	13	13	0.01	20	20	1.5	RDF #7	0.0362
<b>Crop Group 9: Cucurbit Vegetables</b>											
Balsam pear	All	NB/PB	Cucumber FT MRID: 46665302	14	8	0.01	100	100	--	RDF #25	0.0143
Cantaloupe	All	NB/PB	Cantaloupe FT MRID: 46665301	12	6	0.01	100	100	--	RDF #24	0.0163

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Casaba	All	NB	Cantaloupe FT MRID: 46665301	12	6	0.01	100	100	--	RDF #24	0.0163
Chayote, fruit	All	NB	Squash FT MRID: 46665303	10	5	0.01	100	100	--	RDF #27	0.0205
Chinese waxgourd	All	NB	Cucumber FT MRID: 46665302	14	8	0.01	100	100	--	RDF #25	0.0143
Cucumber	All	NB/PB	Cucumber FT MRID: 46665302	14	8	0.01	100	100	--	RDF #25	0.0143
Honeydew melon	All	NB	Cantaloupe FT MRID: 46665301	12	6	0.01	100	100	--	RDF #24	0.0163
Pumpkin (pumpkin, seed)	All	NB/PB	Squash FT MRID: 46665303	10	5	0.01	100	100	--	RDF #27	0.0205



RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Squash (summer, summer-babyfood, winter, winter-babyfood)	All	NB/PB	Squash FT MRID: 46665303	10	5	0.01	100	100	--	RDF #27	0.0205
Watermelon (watermelon, juice)	All	NB/PB	Cantaloupe FT MRID: 46665301	12	6	0.01	100	100	--	RDF #24	0.0163
<b>Crop Group 11: Pome Fruits</b>											
Apple, fruit with peel	Uncooked	NB/PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	--	RDF #10	0.0004
Apple, fruit with peel	Cooked	NB/PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	.08	RDF #10	0.0004
Apple, peeled fruit	Uncooked	NB/PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	--	RDF #10	0.0004
Apple, peeled fruit	Cooked	NB/PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	.08	RDF #10	0.0004
Apple, peeled fruit-babyfood	Cooked	NB/PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	.08	RDF #10	0.0004
Apple, dried (dried, dried-babyfood)	All	B	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	8.0	RDF #22	0.0004
Apple, juice (juice, juice-babyfood)	All	PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	1.3	RDF #10	0.0004
Apple, sauce	Uncooked	PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	--	RDF #10	0.0004

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Apple, sauce	Cooked	PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	.08	RDF #10	0.0004
Apple, sauce-babyfood	All	PB	Apple PDP 2004 - 2005	1056	12	0.0068	10	5	.08	RDF #10	0.0004
Crabapple	All	PB	Apple PDP 2004 - 2005	1056	12	0.0068	100	100	--	Highest Apple PDP Detect Value 0.033	Highest Apple PDP Detect Value 0.033
Loquat	All	NB	Pear PDP 2004 - 2005	721	0	0.0075	100	100	--	Pear ½ LOD Value 0.0075	Pear ½ LOD Value 0.0075
Pear	Uncooked	NB	Pear PDP 2004 - 2005	721	0	0.0075	30	15	--	RDF #11	0.0011
Pear	Cooked	NB/PB	Pear PDP 2004 - 2005	721	0	0.0075	30	15	.08	RDF #11	0.0011
Pear-babyfood	All	PB	Pear PDP 2004 - 2005	721	0	0.0075	30	15	.08	RDF #11	0.0011
Pear, dried	All	PB	Pear PDP 2004 - 2005	721	0	0.0075	30	15	6.250	RDF #11	0.0011
Pear, juice (juice, juice-babyfood)	All	PB	Pear PDP 2004 - 2005	721	0	0.0075	30	15	1.3	RDF #11	0.0011
Quince	All	NB	Pear PDP 2004 - 2005	721	0	0.0075	100	100	--	Pear ½ LOD Value 0.0075	Pear ½ LOD Value 0.0075
<b>Crop Group 12: Stone Fruits</b>											

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Apricot	Uncooked	NB	Peach PDP 2002	563	1	0.0015	100	100	--	Peach Highest Detect Value 0.005	Peach Highest Detect Value 0.005
Apricot	Cooked	NB/PB	Peach PDP 2002	563	1	0.0015	100	100	.04	Peach Highest Detect Value 0.005	Peach Highest Detect Value 0.005
Apricot, babyfood	All	NB/PB	Peach PDP 2002	563	1	0.0015	100	100	.04	Peach Highest Detect Value 0.005	Peach Highest Detect Value 0.005
Apricot, dried	All	PB	Peach PDP 2002	563	1	0.0015	100	100	6.0	Peach Highest Detect Value 0.005	Peach Highest Detect Value 0.005
Apricot, juice (juice, juice-babyfood)	All	PB	Peach PDP 2002	563	1	0.0015	100	100	--	Peach Highest Detect Value 0.005	Peach Highest Detect Value 0.005
Cherry (cherry, cherry-babyfood)	All	PB	FT MRID: 45007004 45568001	18	18	0.01	15	5	--	RDF #12	0.1161
Cherry, juice (juice, juice-babyfood)	All	PB	FT MRID: 45007004 45568001	18	18	0.01	15	5	1.5	RDF #12	0.1161

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Nectarine	All	NB	Peach PDP 2002	563	1	0.0015	100	100	--	Highest Peach Detect Value 0.005	Highest Peach Detect Value 0.005
Peach	Uncooked	NB	Peach PDP 2002	563	1	0.0015	10	5	--	RDF #13	0.0001
Peach	Cooked	NB/PB	Peach PDP 2002	563	1	0.0015	10	5	.04	RDF #13	0.0001
Peach, babyfood	All	NB/PB	Peach PDP 2002	563	1	0.0015	10	5	.04	RDF #13	0.0001
Peach, dried (dried, dried-babyfood)	All	PB	Peach PDP 2002	563	1	0.0015	10	5	7.0	RDF #13	0.0001
Peach, juice (juice, juice-babyfood)	All	PB	Peach PDP 2002	563	1	0.0015	10	5	--	RDF #13	0.0001
Plum (plum, plum-babyfood)	All	NB/PB	Plum FT MRID: 45007006 45568001	18	18	0.01	5	5	--	RDF #14	0.0372
Plum, prune, fresh (fresh, fresh-babyfood)	All	NB/PB	Plum FT MRID: 45007006 45568001	18	18	0.01	5	5	--	RDF #14	0.0372

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Plum, prune, dried (dried, dried-babyfood)	All	PB	Plum FT MRID: 45007006 45568001	18	18	0.01	5	5	1.4	RDF #14	0.0372
Plum, prune, juice (juice, juice-babyfood)	All	PB	Plum FT MRID: 45007006 45568001	18	18	0.01	5	5	1.4	RDF #14	0.0372
<b>Crop Group 14: Tree nuts</b>											
Almond (almond, almond-babyfood, oil, oil-babyfood)	All	PB	Almond FT MRID: 45007008 45568001	10	0	0.01	5	5	--	RDF #30	0.01
Brazil nut, Butternut, Cashew, Chestnut, Filbert, Filbert Oil, Hickory nut, Macadamia nut, Pistachio, Walnut	All	PB	Tolerance Level	--	--	--	100	100	--	Tolerance 0.05	Tolerance 0.05
Pecan	All	PB	Pecan FT MRID: 45007009 45568001	10	0	0.01	5	1	--	RDF #15	0.01
<b>Crop Group 15: Cereal Grains</b>											

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Barley, bran	All	B	Wheat PDP 2005	674	1	0.0020	100	100	3.0	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Buckwheat (buckwheat, flour)	All	B	Wheat PDP 2005	674	1	0.0020	100	100	--	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Corn, field (all corn field commodities except syrup)	All	B	Corn, Field FT MRID: 42253703	4	4	0.01	2.5	1	--	Blended 0.02	Blended 0.02
Corn, field, syrup	All	B	Corn, Field FT MRID: 42253703	4	4	0.01	2.5	1	1.5	Blended 0.02	Blended 0.02
Corn, pop	All	B	FT Mrid 42253703	4	4	0.01	2.5	1	--	Blended 0.02	0.02
Corn, sweet (sweet, sweet-babyfood)	All	NB	Sweet Corn PDP 2002 - 2003	915	0	0.0080	60	45	--	RDF #28	0.0036

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Oat (all oat commodities except bran)	All	B	Wheat PDP 2005	674	1	0.0020	100	100	--	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Oat, bran	All	B	Wheat PDP 2005	674	1	0.0020	100	100	3.0	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Rice, white (white, white-babyfood)	All	B	Milled Rice FT MRID: 44075501 44075502	3	3	0.01	30	15	--	Blended 0.0035	Blended 0.0035
Rice, brown (brown, brown-babyfood)	All	B	Rice FT MRID: 44075501 44075502	5	5	0.01	30	15	--	Blended 0.346	Blended 0.346
Rice, flour (flour, flour-babyfood)	All	B	Milled Rice MRID: 44075501 44075502	3	3	0.01	30	15	--	Blended 0.0035	Blended 0.0035
Rice, bran (bran, bran-babyfood)	All	B	Rice FT MRID: 44075501 44075502	5	5	0.01	30	15	--	Blended 0.346	Blended 0.346

RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Rye (grain, flour)	All	B	Wheat PDP 2005	674	1	0.0020	100	100	--	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Sorghum (grain, syrup)	All	B	FT MRID: 41892402	12	10	0.02	2.5	1	--	Blended 0.0775	Blended 0.0775
Triticale, flour (flour, flour-babyfood)	All	B	Wheat PDP 2005	674	1	0.0020	100	100	--	Highest Wheat Detect Value 0.007	Highest Wheat Detect Value 0.007
Wheat (all wheat commodities except bran)	All	B	Wheat PDP 2005	674	1	0.0020	2.5	1	--	RDF #8	Blended 0.0001
Wheat, bran	All	B	Wheat PDP 2005	674	1	0.0020	2.5	1	3.0	RDF #8	Blended 0.0001
Wild rice	All	B	Milled Rice FT MRID: 44075501 44075502	5	5	0.01	30	15	--	Blended 0.0035	Blended 0.0035
<b>Crop Group 20: Oilseeds</b>											



RAC	Deem Food Forms	Blending Classification	Data Source	No. of Samples	No. of Detectable Residues	LOD or LOQ	%CT		Processing Factors	Anticipated Residue Estimates/Tolerance	
							Max	Avg		Acute (Tol., AR, RDF)	Chronic (Tol., AR)
Rapeseed, oil	All	B	Canola FT MRID: 45032401 45443101 45443102	32	22	0.01	2.5	1	2.3	Blended 0.102	Blended 0.102
Sunflower, seed	All	PB	Sunflower FT MRID: 43296302	5	5	0.01	20	10	--	RDF #1	0.039
Sunflower, oil	All	B	Sunflower FT MRID: 43296302	5	5	0.01	20	10	0.2	Blended 0.039	Blended 0.039