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OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

DATE: December 20, 2005

SUBJECT: **Triazole Alanine and Triazole Acetic Acid.** Acute and Chronic Dietary Exposure Assessments to Support Reregistration and Registration Actions for Triazole-derivative Fungicides

PC Code: 600011 and 600082
DP Number: 322239

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Executive Summary

Acute and chronic dietary risk assessments were conducted using the Dietary Exposure Evaluation Model (DEEM-FCID, Version 2.03), which uses food consumption data from the

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USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998. The analyses were performed to support reregistration eligibility decisions (REDs) and registration new use/new active ingredient actions for the class of compounds known as the triazole-derivative fungicides. Physical and biological processes in plants, livestock, humans, and the environment have the potential to form 1,2,4-triazole from this class of compounds. 1,2,4-triazole is primarily an animal metabolite. Although 1,2,4-triazole does form in plants, it is conjugated with serine to form triazole alanine (TA) and then further oxidized to form triazole acetic acid (TAA), leaving lesser amounts of 1,2,4-triazole as a terminal residue. The conjugate metabolites triazole alanine and triazole acetic acid are the subject of this assessment. Dietary exposures and risk associated with 1,2,4-triazole are addressed in a separate document (M. Doherty, DP 322238, 11/1/05)

The assessments are based on registered, pending, and proposed agricultural uses of triazole-derivative fungicides as of September 1, 2005. New use, new a.i., and emergency exemption petitions received by the Agency after that date are not explicitly included in the assessments. Dietary exposure and risk estimates associated with any such petitions may be sufficiently addressed by this assessment depending on the use, the crop, and the nature of the parent fungicide.

For the acute and chronic assessments, residue estimates were derived from parent compound tolerance values, taking into consideration any monitoring data that were available for TA and TAA. Both acute and chronic assessments make the conservative assumption that 100% of foods with triazole-derivative fungicide registrations (active, pending, and requested) were treated with a triazole-derivative fungicide. Both assessments are deterministic and include residue estimates for water. A cancer assessment was not conducted. Although there is some concern regarding the carcinogenicity of the triazole metabolites, including TA and TAA, HED believes that the chronic dietary exposure assessment is sufficiently protective of any cancer related effects.

The acute exposure estimate for combined residues of TA and TAA for females 13-49 years of age is 0.0274 mg/kg/day at the 95th percentile of exposure and corresponds to a risk estimate of 27% of the acute Population-Adjusted Dose (aPAD). Chronic exposure estimates range from 0.0054 to 0.0239 mg/kg/day. For the chronic exposure estimates, the maximum is for children aged 1 to 2 years. The risk estimate associated with that group is 27% of the chronic PAD (cPAD). HED is generally concerned when risk estimates for any representative population subgroup exceed 100% of the PAD. The risk estimates associated with TA/TAA are below HED's level of concern. These assessments are considered to be conservative because (1) the food residue estimates are derived from parent fungicide tolerances or conservative use of monitoring data, (2) the drinking water estimate is based on high-level assumptions regarding residue estimates, and (3) all foods with existing, pending, and proposed tolerances for one or more triazole-derivative fungicides were assumed to have residues (i.e., 100% crop treated).

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose

(i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population-adjusted dose (PAD). The PAD is equivalent to the reference dose (RfD) divided by the special FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD; for cancer assessments, HED is generally concerned when estimated cancer risk exceeds one in one million (i.e., the risk exceeds 1×10^{-6}). References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 6/21/2000, web link: http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf ; or see SOP 99.6 (8/20/99).

This is the first comprehensive dietary exposure assessment for TA and TAA that has been conducted by the Health Effects Division.

II. Residue Information

Food Residues. Through a joint effort by the U.S. Triazole Task Force (USTTF) and USDA's Pesticide Data Program (PDP), monitoring data depicting residues of TA and TAA are available for apples, peaches, wheat flour, bananas, eggs, peanut butter, soybeans, finished water, strawberry, milk, grapes, and tomato. For all foods addressed by these assessments, including those with monitoring data, an anticipated residue was derived by converting the tolerance value for each parent triazole-derivative fungicide to its TA equivalent using molecular weight conversion factors. For the acute assessment, the highest anticipated residue was used for a given food; for the chronic assessment, the average anticipated residue was used. For foods with monitoring data, the greater of the maximum monitoring data (maximum TA plus maximum TAA) or the anticipated residue was used in the assessment; the exception to this is oils, for which the lowest value was used do to the low solubility of TA and TAA in oils. For all commodities except those of peanut and cereal grain, the anticipated residues were used. The maximum monitored residue value from peanut butter was used for peanuts. For cereal grain commodities, the maximum monitored residue value from wheat flour was used. The assessments include default processing factors from DEEM Version 7.81. The Agency was recently made aware of an issue with the analytical method for TA in soybeans in which the method underestimates residues by 4 to 12 fold. That issue is still being resolved. In order to ensure that this assessment does not underestimate exposure to TA/TAA via soybean, all inputs for soybean were multiplied by 10 in both the acute and chronic analyses.

Table 1. Summary of Input Residue Values for the Acute and Chronic Dietary Analyses of Triazole Alanine and Triazole Acetic Acid.

Food	DEEM Input Value, ppm		Anticipated Residue, ppm		Max. Monitored Residue, ppm[1]	Remarks
	Acute	Chronic	Acute	Chronic		
Pome Fruit (Apple)	0.53	0.23	0.53	0.21	0.23	–
Artichoke	0.54	0.43	0.54	0.43	–	–
Asparagus	0.80	0.03	0.80	0.03	–	–
Banana	2.16	0.57	2.16	0.32	0.57	–

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Food	DEEM Input Value, ppm		Anticipated Residue, ppm		Max. Monitored Residue, ppm[1]	Remarks
	Acute	Chronic	Acute	Chronic		
Dry Bean/Pea	0.23	0.12	0.23	0.12	–	–
Succulent Bean/Pea	0.54	0.22	0.54	0.22	–	–
Blueberry	0.46	0.30	0.46	0.30	–	–
Caneberry	1.08	0.87	1.08	0.87	–	–
Canola	0.05	0.02	0.05	0.02	–	–
Carrot	0.09	0.09	0.09	0.09	–	–
Leafy Petioles	2.28	2.28	2.28	2.28	–	–
Barley	0.55	0.55	0.046	0.31	–	From wheat flour
Oats	0.55	0.55	0.05	0.03	–	From wheat flour
Rice	3.19	1.11	3.19	1.11	–	–
Rye	0.55	0.55	0.05	0.04	–	From wheat flour
Wheat	0.55	0.55	0.05	0.03	–	From wheat flour
Wheat Flour	0.55	0.55	0.05	0.03	0.55	–
Wild Rice	3.19	1.11	0.23	0.23	–	From rice
Citrus Group	0.46	0.23	0.46	0.23	–	–
Coffee	0.005	0.005	0.005	0.005	–	–
Field Corn	0.55	0.55	0.05	0.03	–	From wheat flour
Sweet Corn	0.55	0.55	0.05	0.03	–	From wheat flour
Cotton	1.01	0.26	1.01	0.26	–	–
Cranberry	0.46	0.24	0.46	0.24	–	–
Cucurbits	0.11	0.08	0.11	0.08	–	–
Currant	1.62	1.04	1.62	1.04	–	–
Elderberry	0.46	0.46	0.46	0.46	–	–
Grape	2.53	0.82	2.53	0.82	0.29	–
Raisin	2.53	0.82	2.53	0.82	–	–
Hops	15.20	7.60	15.20	7.60	–	–
Lychee	0.76	0.76	0.76	0.76	–	–
Mango	0.10	0.10	0.10	0.10	–	–
Mayhaw	0.38	0.19	0.38	0.19	–	–
Bulb Vegetables	0.14	0.09	0.14	0.09	–	–
Okra	0.51	0.51	0.51	0.51	–	–
Peanut	2.32	2.32	0.09	0.04	–	From peanut butter
Peanut Butter	2.32	2.32	0.09	0.04	2.32	–
Peppers	0.54	0.54	0.54	0.54	–	–
Peppermint	1.62	1.62	1.62	1.62	–	–
Pineapple	1.59	0.82	1.59	0.82	–	–
Sorghum	0.55	0.55	0.09	0.05	–	From wheat flour
Soybean	9.1	3.3	0.91	0.33	0.12	10X the anticipated residue to account for method issue.
Spearmint	1.62	1.62	1.62	1.62	–	–
Stone Fruit-no cherry	1.08	0.95	1.08	0.74	0.95	–
Cherry	2.70	1.53	2.70	1.53	–	–
Strawberry	0.68	0.48	0.68	0.48	0.13	–
Sugar Beet	0.14	0.07	0.14	0.07	–	–
Sugar Beet Molasses	0.14	0.07	0.14	0.07	–	–
Sunflower	0.03	0.03	0.03	0.03	–	–

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Food	DEEM Input Value, ppm		Anticipated Residue, ppm		Max. Monitored Residue, ppm[1]	Remarks
	Acute	Chronic	Acute	Chronic		
Tomato	0.16	0.16	0.16	0.16	0.09	–
Turnip	0.20	0.20	0.20	0.20	–	–
Turnip Greens	2.28	2.28	2.28	0.04	–	From Leafy petiole
Tree Nuts	0.19	0.11	0.19	0.11	–	–
Almond	0.19	0.11	0.19	0.11	–	–
Pecan	0.05	0.05	0.05	0.05	–	–
Pistachio	0.05	0.04	0.05	0.04	–	–
Poultry Meat	0.03	0.02	0.03	0.02	–	–
Poultry Fat	0.03	0.02	0.03	0.02	–	–
Poultry Meat Byprod.	0.03	0.02	0.03	0.02	–	–
Poultry Liver	0.03	0.02	0.03	0.02	–	–
Egg	0.03	0.02	0.03	0.02	0.016	–
Cattle Meat	0.53	0.13	0.53	0.13	–	–
Cattle Fat	0.53	0.15	0.53	0.15	–	–
Cattle Meat Byprod.	0.53	0.14	0.53	0.14	–	–
Cattle Liver	1.68	0.63	1.68	0.63	–	–
Cattle Kidney	0.91	0.29	0.91	0.29	–	–
Milk	0.11	0.04	0.11	0.04	0.01	–

[1] Residue data for TA/TAA from USDA Pesticide Data Program or U.S. Triazole Task Force monitoring data. Values are the combined maxima for TA and TAA for monitored foods and do not reflect the maximum combined residue of TA and TAA for a particular sample.

Drinking Water. Residues of 1,2,4-triazole in drinking water were provided to HED by the Environmental Fate and Effects Division (I. Maher, DP 320682, In Preparation). Due to the inter-conversion between 1,2,4-triazole, triazole alanine, and triazole acetic acid that may occur in the environment, the residue estimates used in these assessments are a summation of all three residues and, therefore, represent an overestimate of actual concentrations of 1,2,4-triazole in drinking water. The Tier II PRZM/EXAMS (surface water) and SCIGROW (groundwater) residue estimates are summarized in Table 2. HED notes that there were no detections of TA and only three detections of TAA in any of the 271 water samples analyzed by PDP. The concentration of TAA in the three samples with detections was less than or equal to 0.05 ppb (0.00005 ppm). In order to use the 1,2,4-T data provided by EFED in this assessment, the concentration values were multiplied by 2.26 to account for the molecular weight difference between 1,2,4-T (69 Daltons) and TA (156 Daltons). Using the value for TA is more conservative than using the value for TAA.

Table 2. Summary of Estimated Drinking Water Concentrations of 1,2,4-Triazole and the Triazole Acetic Acid Equivalent.

Exposure Duration	Surface Water Concentration, ppm		Groundwater Concentration, ppm	
	1,2,4-Triazole	Triazole Alanine	1,2,4-Triazole	Triazole Alanine
Acute	0.041	0.093	0.001	0.00226
Chronic	0.011	0.025	0.001	0.00226

III. DEEM-FCID™ Program and Consumption Information

1,2,4-Triazole 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 assessments, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form. The resulting residue consumption estimate for each food/food form is summed with the residue consumption estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

For acute exposure assessments, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic exposure assessment, or "matched" in multiple random pairings with residue values and then summed in a probabilistic assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (i.e., those who reported eating relevant commodities/food forms) and a per-capita (i.e., those who reported eating the relevant commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for all tiers of analysis. However, for tiers 1 and 2, significant differences in user vs. per capita exposure and risk are identified and noted in the risk assessment.

IV. Toxicological Information

Triazole alanine and triazole acetic acid are common metabolite of many triazole-derivative fungicides. As a metabolite, there are no data requirements, *per se*, for this compound. Nevertheless, a significant amount of toxicological data is available and has been reviewed by HED. The following summary table (Table 3) shows the doses selected for assessing dietary exposure and their associated endpoints. Data are insufficient at this time to assign a cancer

classification to TA and TAA. Available data indicate that cancers associated with these compounds are likely to be a threshold effect and that a Q_1^* approach is not appropriate. An RfD-approach for assessing cancer has been recommended. As such, the chronic exposure assessment is considered to be protective of any potential cancer-related effects.

Table 3. *Summary of Toxicological Doses and Endpoints for Triazole Alanine and Triazole Acetic Acid for Use in Dietary Risk Assessments.*

Exposure Scenario	Dose Used in Risk Assessment, UF	Special FQPA SF* and Level of Concern for Risk Assessment	Study and Toxicological Effects
Acute Dietary (females 13-49)	NOAEL = 100 mg/kg/day UF = 1000 Acute RfD = 0.1 mg/kg/day	FQPA SF =1 aPAD = acute RfD / FQPA SF = 0.1 mg/kg/day	Prenatal developmental toxicity in rodents - rat LOAEL = 300 mg/kg/day based on increased incidence of skeletal *findings (unossified odontoid process).*
Acute Dietary (general population, including infants and children)	None	None	No appropriate dose and endpoint could be identified for these population groups.
Chronic Dietary (all populations)	NOAEL = 90 mg/kg/day UF = 1000 Chronic RfD = 0.09 mg/kg/day	FQPA SF =1 cPAD = chronic RfD / FQPA SF = 0.09 mg/kg/day	90-Day oral toxicity in rodents - rat LOAEL = 370/400 mg/kg/day (M/F) based on decreased leukocyte counts in males and decreased triglycerides in females.
Cancer	Insufficient data for a cancer classification. Based on the available information, HED believes that an RfD approach is appropriate and that the cPAD is sufficient to assess cancer risk.		

V. Results/Discussion

Acute Dietary Exposure Analysis. The results of the acute dietary exposure analysis are summarized in Table 4. As shown in the table, risk estimates for the population subgroup females 13-49 years old (the only population subgroup of interest for acute dietary assessments) is below HED's level of concern at all presented percentiles of exposure. Based on the conservative nature of this assessment, the 95th percentile is the most appropriate for regulatory purposes. At that percentile, the acute risk estimate for this group is approximately 27% of the aPAD. Approximately one sixth of the exposure is attributable to residues in drinking water (data not shown).

Table 4. Acute Dietary (Food + Water) Direct and Indirect Exposure and Risk Estimates for Triazole Alanine and Triazole Acetic Acid.

Population Subgroup	aPAD, mg/kg/day	Exposure Estimate, mg/kg/day			Risk Estimate, % aPAD		
		95th %ile	99th %ile	99.9th %ile	95th %ile	99th %ile	99.9th %ile
Females 13-49 yrs	0.1	0.0274	27	0.0412	41	0.0827	83

Chronic Dietary Exposure Analysis. The results of the chronic dietary exposure analysis are

summarized in Table 5. As with the acute assessment, risk estimates for all population subgroups are below HED's level of concern. For the chronic assessment, the population subgroup children aged 1 to 2 years has the highest exposure and risk estimates (27% of the cPAD). Risk estimates for other population groups range from approximately 6 to 22% of the cPAD. For these exposure estimates, residues in water make up no more than approximately 10% of the total dietary exposure (data not shown).

Table 5. Chronic Dietary (Food + Water) Direct and Indirect Exposure and Risk Estimates for Triazole Alanine and Triazole Acetic Acid.

Population Subgroup	cPAD, mg/kg/day*	Exposure Estimate, mg/kg/day	Risk Estimate, % cPAD
U.S. Population (total)	0.09	0.008038	9
All infants (< 1 year)	0.09	0.015955	18
Children 1-2 yrs	0.09	0.023879	27
Children 3-5 yrs	0.09	0.019604	22
Children 6-12 yrs	0.09	0.012065	13
Youth 13-19 yrs	0.09	0.007293	8
Adults 20-49 yrs	0.09	0.006185	7
Adults 50+ yrs	0.09	0.005421	6
Females 13-49 yrs	0.09	0.005966	7

VI. Characterization of Inputs/Outputs

Although these dietary exposure assessments are principally based on anticipated residues, the data, selection criteria, and assumptions that serve as the source of those residues are conservative in nature. Most residue estimates used in the assessments are derived from tolerance-level residues and it was assumed that 100% of foods with a triazole-derivative-fungicide tolerance have residues of TA and TAA. Overall, this assessment is considered to be conservative and likely overestimates actual direct and indirect dietary exposure to TA and TAA. Reviewed field trial data depicting measured residues of TA and TAA in foods are likely to be available as HED progresses with evaluation of new-use and new-active-ingredient petitions. Use of these data, as well as incorporation of the entire distribution of monitoring data, will result in more realistic dietary exposure and risk estimates and may be useful if exposure and risk estimates require refinement.

VII. Conclusions

Based on conservative estimates of dietary exposure to triazole alanine and triazole acetic acid, acute and chronic risk estimates for the general U.S. population and all representative population subgroups, including those of infants and children, are well below HED's level of concern.

VIII. List of Attachments

1. Acute Food plus Water Residue Input File.
2. Chronic Food plus Water Residue Input File.
3. Acute Dietary Results Summary.
4. Chronic Dietary Results Summary.

Acute Food plus Water Residue Input File.

U.S. Environmental Protection Agency Ver. 2.02
DEEM-FCID Acute analysis for TA/TAA
Residue file name: TA+TAA Acute Dir Food and Water.R98
Analysis Date 12-20-2005 Residue file dated: 12-20-2005/20:16:18/8
Reference dose (aRfD) = 0.1 mg/kg bw/day
Comment: RfDs are PADs. aPAD for Females 13-49 only

EPA Code	Crop Grp	Food Name	Def Res (ppm)	Adj.Factors #1	#2	Comment
14000030	14	Almond	0.190000	1.000	1.000	
14000031	14	Almond-babyfood	0.190000	1.000	1.000	
14000040	14	Almond, oil	0.190000	1.000	1.000	
14000041	14	Almond, oil-babyfood	0.190000	1.000	1.000	
11000070	11	Apple, fruit with peel	0.530000	1.000	1.000	
11000080	11	Apple, peeled fruit	0.530000	1.000	1.000	
11000081	11	Apple, peeled fruit-babyfood	0.530000	1.000	1.000	
11000090	11	Apple, dried	0.530000	8.000	1.000	
11000091	11	Apple, dried-babyfood	0.530000	8.000	1.000	
11000100	11	Apple, juice	0.530000	1.300	1.000	
11000101	11	Apple, juice-babyfood	0.530000	1.300	1.000	
11000110	11	Apple, sauce	0.530000	1.000	1.000	
11000111	11	Apple, sauce-babyfood	0.530000	1.000	1.000	
12000120	12	Apricot	1.080000	1.000	1.000	
12000121	12	Apricot-babyfood	1.080000	1.000	1.000	
12000130	12	Apricot, dried	1.080000	6.000	1.000	
12000140	12	Apricot, juice	1.080000	1.000	1.000	
12000141	12	Apricot, juice-babyfood	1.080000	1.000	1.000	
95000160	O	Artichoke, globe	0.540000	1.000	1.000	
95000190	O	Asparagus	0.800000	1.000	1.000	
09020210	9B	Balsam pear	0.110000	1.000	1.000	
95000230	O	Banana	2.160000	1.000	1.000	
95000231	O	Banana-babyfood	2.160000	1.000	1.000	
95000240	O	Banana, dried	2.160000	3.900	1.000	
95000241	O	Banana, dried-babyfood	2.160000	3.900	1.000	
15000250	15	Barley, pearled barley	0.550000	1.000	1.000	
15000251	15	Barley, pearled barley-babyfood	0.550000	1.000	1.000	
15000260	15	Barley, flour	0.550000	1.000	1.000	
15000261	15	Barley, flour-babyfood	0.550000	1.000	1.000	
15000270	15	Barley, bran	0.550000	1.000	1.000	
06030300	6C	Bean, black, seed	0.230000	1.000	1.000	
06020310	6B	Bean, broad, succulent	0.540000	1.000	1.000	
06030320	6C	Bean, broad, seed	0.230000	1.000	1.000	
06020330	6B	Bean, cowpea, succulent	0.540000	1.000	1.000	
06030340	6C	Bean, cowpea, seed	0.230000	1.000	1.000	
06030350	6C	Bean, great northern, seed	0.230000	1.000	1.000	
06030360	6C	Bean, kidney, seed	0.230000	1.000	1.000	
06020370	6B	Bean, lima, succulent	0.540000	1.000	1.000	
06030380	6C	Bean, lima, seed	0.230000	1.000	1.000	
06030390	6C	Bean, mung, seed	0.230000	1.000	1.000	
06030400	6C	Bean, navy, seed	0.230000	1.000	1.000	
06030410	6C	Bean, pink, seed	0.230000	1.000	1.000	
06030420	6C	Bean, pinto, seed	0.230000	1.000	1.000	
06010430	6A	Bean, snap, succulent	0.540000	1.000	1.000	
06010431	6A	Bean, snap, succulent-babyfood	0.540000	1.000	1.000	
21000440	M	Beef, meat	0.530000	1.000	1.000	
21000441	M	Beef, meat-babyfood	0.530000	1.000	1.000	
21000450	M	Beef, meat, dried	0.530000	1.920	1.000	
21000460	M	Beef, meat byproducts	0.530000	1.000	1.000	
21000461	M	Beef, meat byproducts-babyfood	0.530000	1.000	1.000	
21000470	M	Beef, fat	0.530000	1.000	1.000	
21000471	M	Beef,fat-babyfood	0.530000	1.000	1.000	
21000480	M	Beef, kidney	0.910000	1.000	1.000	
21000490	M	Beef, liver	1.680000	1.000	1.000	
21000491	M	Beef, liver-babyfood	1.680000	1.000	1.000	
01010520	1A	Beet, sugar	0.140000	1.000	1.000	
01010521	1A	Beet, sugar-babyfood	0.140000	1.000	1.000	
01010530	1A	Beet, sugar, molasses	0.140000	1.000	1.000	
01010531	1A	Beet, sugar, molasses-babyfood	0.140000	1.000	1.000	
13010550	13A	Blackberry	1.080000	1.000	1.000	
13010560	13A	Blackberry, juice	1.080000	1.000	1.000	
13010561	13A	Blackberry, juice-babyfood	1.080000	1.000	1.000	

13020570	13B	Blueberry	0.460000	1.000	1.000
13020571	13B	Blueberry-babyfood	0.460000	1.000	1.000
13010580	13A	Boysenberry	1.080000	1.000	1.000
14000590	14	Brazil nut	0.190000	1.000	1.000
15000650	15	Buckwheat	0.550000	1.000	1.000
15000660	15	Buckwheat, flour	0.550000	1.000	1.000
14000680	14	Butternut	0.190000	1.000	1.000
09010750	9A	Cantaloupe	0.110000	1.000	1.000
04020760	4B	Cardoon	2.280000	1.000	1.000
01010780	1AB	Carrot	0.090000	1.000	1.000
01010781	1AB	Carrot-babyfood	0.090000	1.000	1.000
01010790	1AB	Carrot, juice	0.090000	1.000	1.000
09010800	9A	Casaba	0.110000	1.000	1.000
14000810	14	Cashew	0.190000	1.000	1.000
04020850	4B	Celery	2.280000	1.000	1.000
04020851	4B	Celery-babyfood	2.280000	1.000	1.000
04020860	4B	Celery, juice	2.280000	1.000	1.000
04020870	4B	Celtuce	2.280000	1.000	1.000
09020880	9B	Chayote, fruit	0.110000	1.000	1.000
12000900	12	Cherry	2.700000	1.000	1.000
12000901	12	Cherry-babyfood	2.700000	1.000	1.000
12000910	12	Cherry, juice	2.700000	1.500	1.000
12000911	12	Cherry, juice-babyfood	2.700000	1.500	1.000
14000920	14	Chestnut	0.190000	1.000	1.000
40000930	P	Chicken, meat	0.030000	1.000	1.000
40000931	P	Chicken, meat-babyfood	0.030000	1.000	1.000
40000940	P	Chicken, liver	0.030000	1.000	1.000
40000950	P	Chicken, meat byproducts	0.030000	1.000	1.000
40000951	P	Chicken, meat byproducts-babyfoo	0.030000	1.000	1.000
40000960	P	Chicken, fat	0.030000	1.000	1.000
40000961	P	Chicken, fat-babyfood	0.030000	1.000	1.000
40000970	P	Chicken, skin	0.030000	1.000	1.000
40000971	P	Chicken, skin-babyfood	0.030000	1.000	1.000
06030980	6C	Chickpea, seed	0.230000	1.000	1.000
06030981	6C	Chickpea, seed-babyfood	0.230000	1.000	1.000
06030990	6C	Chickpea, flour	0.230000	1.000	1.000
09021020	9B	Chinese waxgourd	0.110000	1.000	1.000
10001060	10	Citrus citron	0.460000	1.000	1.000
10001070	10	Citrus hybrids	0.460000	1.000	1.000
10001080	10	Citrus, oil	0.460000	1.000	1.000
95001150	O	Coffee, roasted bean	0.005000	1.000	1.000
95001160	O	Coffee, instant	0.005000	1.000	1.000
15001200	15	Corn, field, flour	0.550000	1.000	1.000
15001201	15	Corn, field, flour-babyfood	0.550000	1.000	1.000
15001210	15	Corn, field, meal	0.550000	1.000	1.000
15001211	15	Corn, field, meal-babyfood	0.550000	1.000	1.000
15001220	15	Corn, field, bran	0.550000	1.000	1.000
15001230	15	Corn, field, starch	0.550000	1.000	1.000
15001231	15	Corn, field, starch-babyfood	0.550000	1.000	1.000
15001240	15	Corn, field, syrup	0.550000	1.500	1.000
15001241	15	Corn, field, syrup-babyfood	0.550000	1.500	1.000
15001250	15	Corn, field, oil	0.550000	1.000	1.000
15001251	15	Corn, field, oil-babyfood	0.550000	1.000	1.000
15001260	15	Corn, pop	0.550000	1.000	1.000
15001270	15	Corn, sweet	0.550000	1.000	1.000
15001271	15	Corn, sweet-babyfood	0.550000	1.000	1.000
95001280	O	Cottonseed, oil	1.010000	1.000	1.000
95001281	O	Cottonseed, oil-babyfood	1.010000	1.000	1.000
11001290	11	Crabapple	0.530000	1.000	1.000
95001300	O	Cranberry	0.460000	1.000	1.000
95001301	O	Cranberry-babyfood	0.460000	1.000	1.000
95001310	O	Cranberry, dried	0.460000	4.000	1.000
95001320	O	Cranberry, juice	0.460000	1.100	1.000
95001321	O	Cranberry, juice-babyfood	0.460000	1.100	1.000
09021350	9B	Cucumber	0.110000	1.000	1.000
13021360	13B	Currant	1.620000	1.000	1.000
13021370	13B	Currant, dried	1.620000	1.000	1.000
13011420	13A	Dewberry	1.080000	1.000	1.000
70001450	P	Egg, whole	0.030000	1.000	1.000
70001451	P	Egg, whole-babyfood	0.030000	1.000	1.000
70001460	P	Egg, white	0.030000	1.000	1.000
70001461	P	Egg, white (solids)-babyfood	0.030000	1.000	1.000
70001470	P	Egg, yolk	0.030000	1.000	1.000
70001471	P	Egg, yolk-babyfood	0.030000	1.000	1.000
13021490	13B	Elderberry	0.460000	1.000	1.000

04021520	4B	Fennel, Florence	2.280000	1.000	1.000
14001550	14	Filbert	0.190000	1.000	1.000
14001560	14	Filbert, oil	0.190000	1.000	1.000
03001640	3	Garlic	0.140000	1.000	1.000
03001650	3	Garlic, dried	0.140000	1.000	1.000
03001651	3	Garlic, dried-babyfood	0.140000	1.000	1.000
23001690	M	Goat, meat	0.530000	1.000	1.000
23001700	M	Goat, meat byproducts	0.530000	1.000	1.000
23001710	M	Goat, fat	0.530000	1.000	1.000
23001720	M	Goat, kidney	0.910000	1.000	1.000
23001730	M	Goat, liver	1.680000	1.000	1.000
13021740	13B	Gooseberry	0.460000	1.000	1.000
95001750	O	Grape	2.530000	1.000	1.000
95001760	O	Grape, juice	2.530000	1.200	1.000
95001761	O	Grape, juice-babyfood	2.530000	1.200	1.000
95001770	O	Grape, leaves	2.530000	1.000	1.000
95001780	O	Grape, raisin	2.530000	4.300	1.000
95001790	O	Grape, wine and sherry	2.530000	1.200	1.000
10001800	10	Grapefruit	0.460000	1.000	1.000
10001810	10	Grapefruit, juice	0.460000	2.100	1.000
06031820	6C	Guar, seed	0.230000	1.000	1.000
06031821	6C	Guar, seed-babyfood	0.230000	1.000	1.000
14001850	14	Hickory nut	0.190000	1.000	1.000
09011870	9A	Honeydew melon	0.110000	1.000	1.000
95001880	O	Hop	15.200000	1.000	1.000
24001890	M	Horse, meat	0.530000	1.000	1.000
13021910	13B	Huckleberry	0.460000	1.000	1.000
10001970	10	Kumquat	0.460000	1.000	1.000
03001980	3	Leek	0.140000	1.000	1.000
10001990	10	Lemon	0.460000	1.000	1.000
10002000	10	Lemon, juice	0.460000	2.000	1.000
10002001	10	Lemon, juice-babyfood	0.460000	2.000	1.000
10002010	10	Lemon, peel	0.460000	1.000	1.000
06032030	6C	Lentil, seed	0.230000	1.000	1.000
10002060	10	Lime	0.460000	1.000	1.000
10002070	10	Lime, juice	0.460000	2.000	1.000
10002071	10	Lime, juice-babyfood	0.460000	2.000	1.000
13012080	13A	Loganberry	1.080000	1.000	1.000
11002100	11	Loquat	0.530000	1.000	1.000
95002110	O	Lychee	0.760000	1.000	1.000
95002120	O	Lychee, dried	0.760000	1.850	1.000
14002130	14	Macadamia nut	0.190000	1.000	1.000
95002150	O	Mango	0.100000	1.000	1.000
95002151	O	Mango-babyfood	0.100000	1.000	1.000
95002160	O	Mango, dried	0.100000	1.000	1.000
95002170	O	Mango, juice	0.100000	1.000	1.000
95002171	O	Mango, juice-babyfood	0.100000	1.000	1.000
28002210	M	Meat, game	0.530000	1.000	1.000
27002220	D	Milk, fat	0.110000	1.000	1.000
27002221	D	Milk, fat - baby food/infant for	0.110000	1.000	1.000
27012230	D	Milk, nonfat solids	0.110000	1.000	1.000
27012231	D	Milk, nonfat solids-baby food/in	0.110000	1.000	1.000
27022240	D	Milk, water	0.110000	1.000	1.000
27022241	D	Milk, water-babyfood/infant form	0.110000	1.000	1.000
27032251	D	Milk, sugar (lactose)-baby food/	0.110000	1.000	1.000
15002260	15	Millet, grain	0.550000	1.000	1.000
12002300	12	Nectarine	1.080000	1.000	1.000
15002310	15	Oat, bran	0.550000	1.000	1.000
15002320	15	Oat, flour	0.550000	1.000	1.000
15002321	15	Oat, flour-babyfood	0.550000	1.000	1.000
15002330	15	Oat, groats/rolled oats	0.550000	1.000	1.000
15002331	15	Oat, groats/rolled oats-babyfood	0.550000	1.000	1.000
08002340	8	Okra	0.510000	1.000	1.000
03002370	3	Onion, dry bulb	0.140000	1.000	1.000
03002371	3	Onion, dry bulb-babyfood	0.140000	1.000	1.000
03002380	3	Onion, dry bulb, dried	0.140000	9.000	1.000
03002381	3	Onion, dry bulb, dried-babyfood	0.140000	9.000	1.000
03002390	3	Onion, green	0.140000	1.000	1.000
10002400	10	Orange	0.460000	1.000	1.000
10002410	10	Orange, juice	0.460000	1.800	1.000
10002411	10	Orange, juice-babyfood	0.460000	1.800	1.000
10002420	10	Orange, peel	0.460000	1.000	1.000
06022550	6B	Pea, succulent	0.540000	1.000	1.000
06022551	6B	Pea, succulent-babyfood	0.540000	1.000	1.000
06032560	6C	Pea, dry	0.230000	1.000	1.000

06032561	6C	Pea, dry-babyfood	0.230000	1.000	1.000
06012570	6A	Pea, edible podded, succulent	0.540000	1.000	1.000
06032580	6C	Pea, pigeon, seed	0.230000	1.000	1.000
06022590	6B	Pea, pigeon, succulent	0.540000	1.000	1.000
12002600	12	Peach	1.080000	1.000	1.000
12002601	12	Peach-babyfood	1.080000	1.000	1.000
12002610	12	Peach, dried	1.080000	7.000	1.000
12002611	12	Peach, dried-babyfood	1.080000	7.000	1.000
12002620	12	Peach, juice	1.080000	1.000	1.000
12002621	12	Peach, juice-babyfood	1.080000	1.000	1.000
95002630	O	Peanut	2.300000	1.000	1.000
95002640	O	Peanut, butter	2.300000	1.000	1.000
95002650	O	Peanut, oil	0.090000	1.000	1.000
11002660	11	Pear	0.530000	1.000	1.000
11002661	11	Pear-babyfood	0.530000	1.000	1.000
11002670	11	Pear, dried	0.530000	6.250	1.000
11002680	11	Pear, juice	0.530000	1.000	1.000
11002681	11	Pear, juice-babyfood	0.530000	1.000	1.000
14002690	14	Pecan	0.050000	1.000	1.000
08002700	8	Pepper, bell	0.540000	1.000	1.000
08002701	8	Pepper, bell-babyfood	0.540000	1.000	1.000
08002710	8	Pepper, bell, dried	0.540000	1.000	1.000
08002711	8	Pepper, bell, dried-babyfood	0.540000	1.000	1.000
08002720	8	Pepper, nonbell	0.540000	1.000	1.000
08002721	8	Pepper, nonbell-babyfood	0.540000	1.000	1.000
08002730	8	Pepper, nonbell, dried	0.540000	1.000	1.000
95002750	O	Peppermint	1.620000	1.000	1.000
95002760	O	Peppermint, oil	1.620000	1.000	1.000
95002790	O	Pineapple	1.590000	1.000	1.000
95002791	O	Pineapple-babyfood	1.590000	1.000	1.000
95002800	O	Pineapple, dried	1.590000	5.000	1.000
95002810	O	Pineapple, juice	1.590000	1.700	1.000
95002811	O	Pineapple, juice-babyfood	1.590000	1.700	1.000
14002820	14	Pistachio	0.050000	1.000	1.000
95002830	O	Plantain	2.160000	1.000	1.000
95002840	O	Plantain, dried	2.160000	3.900	1.000
12002850	12	Plum	1.080000	1.000	1.000
12002851	12	Plum-babyfood	1.080000	1.000	1.000
12002860	12	Plum, prune, fresh	1.080000	1.000	1.000
12002861	12	Plum, prune, fresh-babyfood	1.080000	1.000	1.000
12002870	12	Plum, prune, dried	1.080000	5.000	1.000
12002871	12	Plum, prune, dried-babyfood	1.080000	5.000	1.000
12002880	12	Plum, prune, juice	1.080000	1.400	1.000
12002881	12	Plum, prune, juice-babyfood	1.080000	1.400	1.000
25002900	M	Pork, meat	0.530000	1.000	1.000
25002901	M	Pork, meat-babyfood	0.530000	1.000	1.000
25002910	M	Pork, skin	0.530000	1.000	1.000
25002920	M	Pork, meat byproducts	0.530000	1.000	1.000
25002921	M	Pork, meat byproducts-babyfood	0.530000	1.000	1.000
25002930	M	Pork, fat	0.530000	1.000	1.000
25002931	M	Pork, fat-babyfood	0.530000	1.000	1.000
25002940	M	Pork, kidney	0.910000	1.000	1.000
25002950	M	Pork, liver	1.680000	1.000	1.000
60003010	P	Poultry, other, meat	0.030000	1.000	1.000
60003020	P	Poultry, other, liver	0.030000	1.000	1.000
60003030	P	Poultry, other, meat byproducts	0.030000	1.000	1.000
60003040	P	Poultry, other, fat	0.030000	1.000	1.000
60003050	P	Poultry, other, skin	0.030000	1.000	1.000
10003070	10	Pummelo	0.460000	1.000	1.000
09023080	9B	Pumpkin	0.110000	1.000	1.000
09023090	9B	Pumpkin, seed	0.110000	1.000	1.000
11003100	11	Quince	0.530000	1.000	1.000
29003120	M	Rabbit, meat	0.530000	1.000	1.000
20003190	20	Rapeseed, oil	0.010000	1.000	1.000
13013200	13A	Raspberry	1.080000	1.000	1.000
13013201	13A	Raspberry-babyfood	1.080000	1.000	1.000
13013210	13A	Raspberry, juice	1.080000	1.000	1.000
13013211	13A	Raspberry, juice-babyfood	1.080000	1.000	1.000
04023220	4B	Rhubarb	2.280000	1.000	1.000
15003230	15	Rice, white	3.190000	1.000	1.000
15003231	15	Rice, white-babyfood	3.190000	1.000	1.000
15003240	15	Rice, brown	3.190000	1.000	1.000
15003241	15	Rice, brown-babyfood	3.190000	1.000	1.000
15003250	15	Rice, flour	3.190000	1.000	1.000
15003251	15	Rice, flour-babyfood	3.190000	1.000	1.000

15003260	15	Rice, bran	3.190000	1.000	1.000
15003261	15	Rice, bran-babyfood	3.190000	1.000	1.000
15003280	15	Rye, grain	0.550000	1.000	1.000
15003290	15	Rye, flour	0.550000	1.000	1.000
03003380	3	Shallot	0.140000	1.000	1.000
26003390	M	Sheep, meat	0.530000	1.000	1.000
26003391	M	Sheep, meat-babyfood	0.530000	1.000	1.000
26003400	M	Sheep, meat byproducts	0.530000	1.000	1.000
26003410	M	Sheep, fat	0.530000	1.000	1.000
26003411	M	Sheep, fat-babyfood	0.530000	1.000	1.000
26003420	M	Sheep, kidney	0.910000	1.000	1.000
26003430	M	Sheep, liver	1.680000	1.000	1.000
15003440	15	Sorghum, grain	0.550000	1.000	1.000
15003450	15	Sorghum, syrup	0.550000	1.000	1.000
06003470	6	Soybean, seed	9.100000	1.000	1.000
06003480	6	Soybean, flour	9.100000	1.000	1.000
06003481	6	Soybean, flour-babyfood	9.100000	1.000	1.000
06003490	6	Soybean, soy milk	9.100000	1.000	1.000
06003491	6	Soybean, soy milk-babyfood or in	9.100000	1.000	1.000
06003500	6	Soybean, oil	9.100000	1.000	1.000
06003501	6	Soybean, oil-babyfood	9.100000	1.000	1.000
95003520	O	Spearmint	1.620000	1.000	1.000
95003530	O	Spearmint, oil	1.620000	1.000	1.000
09023560	9B	Squash, summer	0.110000	1.000	1.000
09023561	9B	Squash, summer-babyfood	0.110000	1.000	1.000
09023570	9B	Squash, winter	0.110000	1.000	1.000
09023571	9B	Squash, winter-babyfood	0.110000	1.000	1.000
95003590	O	Strawberry	0.680000	1.000	1.000
95003591	O	Strawberry-babyfood	0.680000	1.000	1.000
95003600	O	Strawberry, juice	0.680000	1.000	1.000
95003601	O	Strawberry, juice-babyfood	0.680000	1.000	1.000
20003640	20	Sunflower, seed	0.030000	1.000	1.000
20003650	20	Sunflower, oil	0.030000	1.000	1.000
20003651	20	Sunflower, oil-babyfood	0.030000	1.000	1.000
04023670	4B	Swiss chard	2.280000	1.000	1.000
10003690	10	Tangerine	0.460000	1.000	1.000
10003700	10	Tangerine, juice	0.460000	2.300	1.000
08003740	8	Tomatillo	0.160000	1.000	1.000
08003750	8	Tomato	0.160000	1.000	1.000
08003751	8	Tomato-babyfood	0.160000	1.000	1.000
08003760	8	Tomato, paste	0.160000	5.400	1.000
08003761	8	Tomato, paste-babyfood	0.160000	5.400	1.000
08003770	8	Tomato, puree	0.160000	3.300	1.000
08003771	8	Tomato, puree-babyfood	0.160000	3.300	1.000
08003780	8	Tomato, dried	0.160000	14.300	1.000
08003781	8	Tomato, dried-babyfood	0.160000	14.300	1.000
08003790	8	Tomato, juice	0.160000	1.500	1.000
15003810	15	Triticale, flour	0.550000	1.000	1.000
15003811	15	Triticale, flour-babyfood	0.550000	1.000	1.000
50003820	P	Turkey, meat	0.030000	1.000	1.000
50003821	P	Turkey, meat-babyfood	0.030000	1.000	1.000
50003830	P	Turkey, liver	0.030000	1.000	1.000
50003831	P	Turkey, liver-babyfood	0.030000	1.000	1.000
50003840	P	Turkey, meat byproducts	0.030000	1.000	1.000
50003841	P	Turkey, meat byproducts-babyfood	0.030000	1.000	1.000
50003850	P	Turkey, fat	0.030000	1.000	1.000
50003851	P	Turkey, fat-babyfood	0.030000	1.000	1.000
50003860	P	Turkey, skin	0.030000	1.000	1.000
50003861	P	Turkey, skin-babyfood	0.030000	1.000	1.000
01013880	1AB	Turnip, roots	0.200000	1.000	1.000
05023890	5B	Turnip, greens	2.280000	1.000	1.000
14003910	14	Walnut	0.190000	1.000	1.000
86010000	O	Water, direct, all sources	0.093000	1.000	1.000
86020000	O	Water, indirect, all sources	0.093000	1.000	1.000
09013990	9A	Watermelon	0.110000	1.000	1.000
09014000	9A	Watermelon, juice	0.110000	1.000	1.000
15004010	15	Wheat, grain	0.550000	1.000	1.000
15004011	15	Wheat, grain-babyfood	0.550000	1.000	1.000
15004020	15	Wheat, flour	0.550000	1.000	1.000
15004021	15	Wheat, flour-babyfood	0.550000	1.000	1.000
15004030	15	Wheat, germ	0.550000	1.000	1.000
15004040	15	Wheat, bran	0.550000	1.000	1.000
15004050	15	Wild rice	3.190000	1.000	1.000

Chronic Food plus Water Residue Input File.

U.S. Environmental Protection Agency Ver. 2.00
DEEM-FCID Chronic analysis for TA/TAA 1994-98 data
Residue file: TA+TAA Chronic Dir Food and Water.R98
Adjust. #2 NOT used
Analysis Date 12-20-2005 Residue file dated: 12-20-2005/20:21:39/8
Reference dose (RfD) = 0.09 mg/kg bw/day
Comment:RfDs are PADs. aPAD for Females 13-49 only

Food Crop EPA Code	Grp	Food Name	Residue (ppm)	Adj.Factors #1	Adj.Factors #2	Comment
14000030	14	Almond	0.110000	1.000	1.000	
14000031	14	Almond-babyfood	0.110000	1.000	1.000	
14000040	14	Almond, oil	0.110000	1.000	1.000	
14000041	14	Almond, oil-babyfood	0.110000	1.000	1.000	
11000070	11	Apple, fruit with peel	0.230000	1.000	1.000	
11000080	11	Apple, peeled fruit	0.230000	1.000	1.000	
11000081	11	Apple, peeled fruit-babyfood	0.230000	1.000	1.000	
11000090	11	Apple, dried	0.230000	8.000	1.000	
11000091	11	Apple, dried-babyfood	0.230000	8.000	1.000	
11000100	11	Apple, juice	0.230000	1.300	1.000	
11000101	11	Apple, juice-babyfood	0.230000	1.300	1.000	
11000110	11	Apple, sauce	0.230000	1.000	1.000	
11000111	11	Apple, sauce-babyfood	0.230000	1.000	1.000	
12000120	12	Apricot	0.950000	1.000	1.000	
12000121	12	Apricot-babyfood	0.950000	1.000	1.000	
12000130	12	Apricot, dried	0.950000	6.000	1.000	
12000140	12	Apricot, juice	0.950000	1.000	1.000	
12000141	12	Apricot, juice-babyfood	0.950000	1.000	1.000	
95000160	O	Artichoke, globe	0.430000	1.000	1.000	
95000190	O	Asparagus	0.030000	1.000	1.000	
09020210	9B	Balsam pear	0.080000	1.000	1.000	
95000230	O	Banana	0.570000	1.000	1.000	
95000231	O	Banana-babyfood	0.570000	1.000	1.000	
95000240	O	Banana, dried	0.570000	3.900	1.000	
95000241	O	Banana, dried-babyfood	0.570000	3.900	1.000	
15000250	15	Barley, pearled barley	0.550000	1.000	1.000	
15000251	15	Barley, pearled barley-babyfood	0.550000	1.000	1.000	
15000260	15	Barley, flour	0.550000	1.000	1.000	
15000261	15	Barley, flour-babyfood	0.550000	1.000	1.000	
15000270	15	Barley, bran	0.550000	1.000	1.000	
06030300	6C	Bean, black, seed	0.120000	1.000	1.000	
06020310	6B	Bean, broad, succulent	0.220000	1.000	1.000	
06030320	6C	Bean, broad, seed	0.120000	1.000	1.000	
06020330	6B	Bean, cowpea, succulent	0.220000	1.000	1.000	
06030340	6C	Bean, cowpea, seed	0.120000	1.000	1.000	
06030350	6C	Bean, great northern, seed	0.120000	1.000	1.000	
06030360	6C	Bean, kidney, seed	0.120000	1.000	1.000	
06020370	6B	Bean, lima, succulent	0.220000	1.000	1.000	
06030380	6C	Bean, lima, seed	0.120000	1.000	1.000	
06030390	6C	Bean, mung, seed	0.120000	1.000	1.000	
06030400	6C	Bean, navy, seed	0.120000	1.000	1.000	
06030410	6C	Bean, pink, seed	0.120000	1.000	1.000	
06030420	6C	Bean, pinto, seed	0.120000	1.000	1.000	
06010430	6A	Bean, snap, succulent	0.220000	1.000	1.000	
06010431	6A	Bean, snap, succulent-babyfood	0.220000	1.000	1.000	
21000440	M	Beef, meat	0.130000	1.000	1.000	
21000441	M	Beef, meat-babyfood	0.130000	1.000	1.000	
21000450	M	Beef, meat, dried	0.130000	1.920	1.000	
21000460	M	Beef, meat byproducts	0.140000	1.000	1.000	
21000461	M	Beef, meat byproducts-babyfood	0.140000	1.000	1.000	
21000470	M	Beef, fat	0.150000	1.000	1.000	
21000471	M	Beef,fat-babyfood	0.150000	1.000	1.000	
21000480	M	Beef, kidney	0.290000	1.000	1.000	
21000490	M	Beef, liver	0.630000	1.000	1.000	
21000491	M	Beef, liver-babyfood	0.630000	1.000	1.000	
01010520	1A	Beet, sugar	0.070000	1.000	1.000	
01010521	1A	Beet, sugar-babyfood	0.070000	1.000	1.000	
01010530	1A	Beet, sugar, molasses	0.070000	1.000	1.000	
01010531	1A	Beet, sugar, molasses-babyfood	0.070000	1.000	1.000	
13010550	13A	Blackberry	0.870000	1.000	1.000	

13010560	13A	Blackberry, juice	0.870000	1.000	1.000
13010561	13A	Blackberry, juice-babyfood	0.870000	1.000	1.000
13020570	13B	Blueberry	0.300000	1.000	1.000
13020571	13B	Blueberry-babyfood	0.300000	1.000	1.000
13010580	13A	Boysenberry	0.870000	1.000	1.000
14000590	14	Brazil nut	0.110000	1.000	1.000
15000650	15	Buckwheat	0.550000	1.000	1.000
15000660	15	Buckwheat, flour	0.550000	1.000	1.000
14000680	14	Butternut	0.110000	1.000	1.000
09010750	9A	Cantaloupe	0.080000	1.000	1.000
04020760	4B	Cardoon	2.280000	1.000	1.000
01010780	1AB	Carrot	0.090000	1.000	1.000
01010781	1AB	Carrot-babyfood	0.090000	1.000	1.000
01010790	1AB	Carrot, juice	0.090000	1.000	1.000
09010800	9A	Casaba	0.080000	1.000	1.000
14000810	14	Cashew	0.110000	1.000	1.000
04020850	4B	Celery	2.280000	1.000	1.000
04020851	4B	Celery-babyfood	2.280000	1.000	1.000
04020860	4B	Celery, juice	2.280000	1.000	1.000
04020870	4B	Celtuce	2.280000	1.000	1.000
09020880	9B	Chayote, fruit	0.080000	1.000	1.000
12000900	12	Cherry	1.530000	1.000	1.000
12000901	12	Cherry-babyfood	1.530000	1.000	1.000
12000910	12	Cherry, juice	1.530000	1.500	1.000
12000911	12	Cherry, juice-babyfood	1.530000	1.500	1.000
14000920	14	Chestnut	0.110000	1.000	1.000
40000930	P	Chicken, meat	0.020000	1.000	1.000
40000931	P	Chicken, meat-babyfood	0.020000	1.000	1.000
40000940	P	Chicken, liver	0.020000	1.000	1.000
40000950	P	Chicken, meat byproducts	0.020000	1.000	1.000
40000951	P	Chicken, meat byproducts-babyfoo	0.020000	1.000	1.000
40000960	P	Chicken, fat	0.020000	1.000	1.000
40000961	P	Chicken, fat-babyfood	0.020000	1.000	1.000
40000970	P	Chicken, skin	0.020000	1.000	1.000
40000971	P	Chicken, skin-babyfood	0.020000	1.000	1.000
06030980	6C	Chickpea, seed	0.120000	1.000	1.000
06030981	6C	Chickpea, seed-babyfood	0.120000	1.000	1.000
06030990	6C	Chickpea, flour	0.120000	1.000	1.000
09021020	9B	Chinese waxgourd	0.080000	1.000	1.000
10001060	10	Citrus citron	0.230000	1.000	1.000
10001070	10	Citrus hybrids	0.230000	1.000	1.000
10001080	10	Citrus, oil	0.230000	1.000	1.000
95001150	O	Coffee, roasted bean	0.005000	1.000	1.000
95001160	O	Coffee, instant	0.005000	1.000	1.000
15001200	15	Corn, field, flour	0.550000	1.000	1.000
15001201	15	Corn, field, flour-babyfood	0.550000	1.000	1.000
15001210	15	Corn, field, meal	0.550000	1.000	1.000
15001211	15	Corn, field, meal-babyfood	0.550000	1.000	1.000
15001220	15	Corn, field, bran	0.550000	1.000	1.000
15001230	15	Corn, field, starch	0.550000	1.000	1.000
15001231	15	Corn, field, starch-babyfood	0.550000	1.000	1.000
15001240	15	Corn, field, syrup	0.550000	1.500	1.000
15001241	15	Corn, field, syrup-babyfood	0.550000	1.500	1.000
15001250	15	Corn, field, oil	0.550000	1.000	1.000
15001251	15	Corn, field, oil-babyfood	0.550000	1.000	1.000
15001260	15	Corn, pop	0.550000	1.000	1.000
15001270	15	Corn, sweet	0.550000	1.000	1.000
15001271	15	Corn, sweet-babyfood	0.550000	1.000	1.000
95001280	O	Cottonseed, oil	0.260000	1.000	1.000
95001281	O	Cottonseed, oil-babyfood	0.260000	1.000	1.000
11001290	11	Crabapple	0.230000	1.000	1.000
95001300	O	Cranberry	0.240000	1.000	1.000
95001301	O	Cranberry-babyfood	0.240000	1.000	1.000
95001310	O	Cranberry, dried	0.240000	4.000	1.000
95001320	O	Cranberry, juice	0.240000	1.100	1.000
95001321	O	Cranberry, juice-babyfood	0.240000	1.100	1.000
09021350	9B	Cucumber	0.080000	1.000	1.000
13021360	13B	Currant	1.040000	1.000	1.000
13021370	13B	Currant, dried	1.040000	1.000	1.000
13011420	13A	Dewberry	0.870000	1.000	1.000
70001450	P	Egg, whole	0.020000	1.000	1.000
70001451	P	Egg, whole-babyfood	0.020000	1.000	1.000
70001460	P	Egg, white	0.020000	1.000	1.000
70001461	P	Egg, white (solids)-babyfood	0.020000	1.000	1.000
70001470	P	Egg, yolk	0.020000	1.000	1.000

70001471	P	Egg, yolk-babyfood	0.020000	1.000	1.000
13021490	13B	Elderberry	0.460000	1.000	1.000
04021520	4B	Fennel, Florence	2.280000	1.000	1.000
14001550	14	Filbert	0.110000	1.000	1.000
14001560	14	Filbert, oil	0.110000	1.000	1.000
03001640	3	Garlic	0.090000	1.000	1.000
03001650	3	Garlic, dried	0.090000	1.000	1.000
03001651	3	Garlic, dried-babyfood	0.090000	1.000	1.000
23001690	M	Goat, meat	0.130000	1.000	1.000
23001700	M	Goat, meat byproducts	0.140000	1.000	1.000
23001710	M	Goat, fat	0.150000	1.000	1.000
23001720	M	Goat, kidney	0.290000	1.000	1.000
23001730	M	Goat, liver	0.630000	1.000	1.000
13021740	13B	Gooseberry	0.460000	1.000	1.000
95001750	O	Grape	0.820000	1.000	1.000
95001760	O	Grape, juice	0.820000	1.200	1.000
95001761	O	Grape, juice-babyfood	0.820000	1.200	1.000
95001770	O	Grape, leaves	0.820000	1.000	1.000
95001780	O	Grape, raisin	0.820000	4.300	1.000
95001790	O	Grape, wine and sherry	0.820000	1.200	1.000
10001800	10	Grapefruit	0.230000	1.000	1.000
10001810	10	Grapefruit, juice	0.230000	2.100	1.000
06031820	6C	Guar, seed	0.120000	1.000	1.000
06031821	6C	Guar, seed-babyfood	0.120000	1.000	1.000
14001850	14	Hickory nut	0.110000	1.000	1.000
09011870	9A	Honeydew melon	0.080000	1.000	1.000
95001880	O	Hop	7.600000	1.000	1.000
24001890	M	Horse, meat	0.130000	1.000	1.000
13021910	13B	Huckleberry	0.460000	1.000	1.000
10001970	10	Kumquat	0.230000	1.000	1.000
03001980	3	Leek	0.090000	1.000	1.000
10001990	10	Lemon	0.230000	1.000	1.000
10002000	10	Lemon, juice	0.230000	2.000	1.000
10002001	10	Lemon, juice-babyfood	0.230000	2.000	1.000
10002010	10	Lemon, peel	0.230000	1.000	1.000
06032030	6C	Lentil, seed	0.120000	1.000	1.000
10002060	10	Lime	0.230000	1.000	1.000
10002070	10	Lime, juice	0.230000	2.000	1.000
10002071	10	Lime, juice-babyfood	0.230000	2.000	1.000
13012080	13A	Loganberry	0.870000	1.000	1.000
11002100	11	Loquat	0.230000	1.000	1.000
95002110	O	Lychee	0.760000	1.000	1.000
95002120	O	Lychee, dried	0.760000	1.850	1.000
14002130	14	Macadamia nut	0.110000	1.000	1.000
95002150	O	Mango	0.100000	1.000	1.000
95002151	O	Mango-babyfood	0.100000	1.000	1.000
95002160	O	Mango, dried	0.100000	1.000	1.000
95002170	O	Mango, juice	0.100000	1.000	1.000
95002171	O	Mango, juice-babyfood	0.100000	1.000	1.000
28002210	M	Meat, game	0.130000	1.000	1.000
27002220	D	Milk, fat	0.040000	1.000	1.000
27002221	D	Milk, fat - baby food/infant for	0.040000	1.000	1.000
27012230	D	Milk, nonfat solids	0.040000	1.000	1.000
27012231	D	Milk, nonfat solids-baby food/in	0.040000	1.000	1.000
27022240	D	Milk, water	0.040000	1.000	1.000
27022241	D	Milk, water-babyfood/infant form	0.040000	1.000	1.000
27032251	D	Milk, sugar (lactose)-baby food/	0.040000	1.000	1.000
15002260	15	Millet, grain	0.550000	1.000	1.000
12002300	12	Nectarine	0.950000	1.000	1.000
15002310	15	Oat, bran	0.550000	1.000	1.000
15002320	15	Oat, flour	0.550000	1.000	1.000
15002321	15	Oat, flour-babyfood	0.550000	1.000	1.000
15002330	15	Oat, groats/rolled oats	0.550000	1.000	1.000
15002331	15	Oat, groats/rolled oats-babyfood	0.550000	1.000	1.000
08002340	8	Okra	0.510000	1.000	1.000
03002370	3	Onion, dry bulb	0.090000	1.000	1.000
03002371	3	Onion, dry bulb-babyfood	0.090000	1.000	1.000
03002380	3	Onion, dry bulb, dried	0.090000	9.000	1.000
03002381	3	Onion, dry bulb, dried-babyfood	0.090000	9.000	1.000
03002390	3	Onion, green	0.090000	1.000	1.000
10002400	10	Orange	0.230000	1.000	1.000
10002410	10	Orange, juice	0.230000	1.800	1.000
10002411	10	Orange, juice-babyfood	0.230000	1.800	1.000
10002420	10	Orange, peel	0.230000	1.000	1.000
06022550	6B	Pea, succulent	0.220000	1.000	1.000

06022551	6B	Pea, succulent-babyfood	0.220000	1.000	1.000
06032560	6C	Pea, dry	0.120000	1.000	1.000
06032561	6C	Pea, dry-babyfood	0.120000	1.000	1.000
06012570	6A	Pea, edible podded, succulent	0.220000	1.000	1.000
06032580	6C	Pea, pigeon, seed	0.120000	1.000	1.000
06022590	6B	Pea, pigeon, succulent	0.220000	1.000	1.000
12002600	12	Peach	0.950000	1.000	1.000
12002601	12	Peach-babyfood	0.950000	1.000	1.000
12002610	12	Peach, dried	0.950000	7.000	1.000
12002611	12	Peach, dried-babyfood	0.950000	7.000	1.000
12002620	12	Peach, juice	0.950000	1.000	1.000
12002621	12	Peach, juice-babyfood	0.950000	1.000	1.000
95002630	O	Peanut	2.300000	1.000	1.000
95002640	O	Peanut, butter	2.300000	1.000	1.000
95002650	O	Peanut, oil	0.090000	1.000	1.000
11002660	11	Pear	0.230000	1.000	1.000
11002661	11	Pear-babyfood	0.230000	1.000	1.000
11002670	11	Pear, dried	0.230000	6.250	1.000
11002680	11	Pear, juice	0.230000	1.000	1.000
11002681	11	Pear, juice-babyfood	0.230000	1.000	1.000
14002690	14	Pecan	0.050000	1.000	1.000
08002700	8	Pepper, bell	0.540000	1.000	1.000
08002701	8	Pepper, bell-babyfood	0.540000	1.000	1.000
08002710	8	Pepper, bell, dried	0.540000	1.000	1.000
08002711	8	Pepper, bell, dried-babyfood	0.540000	1.000	1.000
08002720	8	Pepper, nonbell	0.540000	1.000	1.000
08002721	8	Pepper, nonbell-babyfood	0.540000	1.000	1.000
08002730	8	Pepper, nonbell, dried	0.540000	1.000	1.000
95002750	O	Peppermint	1.620000	1.000	1.000
95002760	O	Peppermint, oil	1.620000	1.000	1.000
95002790	O	Pineapple	0.820000	1.000	1.000
95002791	O	Pineapple-babyfood	0.820000	1.000	1.000
95002800	O	Pineapple, dried	0.820000	5.000	1.000
95002810	O	Pineapple, juice	0.820000	1.700	1.000
95002811	O	Pineapple, juice-babyfood	0.820000	1.700	1.000
14002820	14	Pistachio	0.040000	1.000	1.000
95002830	O	Plantain	0.570000	1.000	1.000
95002840	O	Plantain, dried	0.570000	3.900	1.000
12002850	12	Plum	0.950000	1.000	1.000
12002851	12	Plum-babyfood	0.950000	1.000	1.000
12002860	12	Plum, prune, fresh	0.950000	1.000	1.000
12002861	12	Plum, prune, fresh-babyfood	0.950000	1.000	1.000
12002870	12	Plum, prune, dried	0.950000	5.000	1.000
12002871	12	Plum, prune, dried-babyfood	0.950000	5.000	1.000
12002880	12	Plum, prune, juice	0.950000	1.400	1.000
12002881	12	Plum, prune, juice-babyfood	0.950000	1.400	1.000
25002900	M	Pork, meat	0.130000	1.000	1.000
25002901	M	Pork, meat-babyfood	0.130000	1.000	1.000
25002910	M	Pork, skin	0.150000	1.000	1.000
25002920	M	Pork, meat byproducts	0.140000	1.000	1.000
25002921	M	Pork, meat byproducts-babyfood	0.140000	1.000	1.000
25002930	M	Pork, fat	0.150000	1.000	1.000
25002931	M	Pork, fat-babyfood	0.150000	1.000	1.000
25002940	M	Pork, kidney	0.290000	1.000	1.000
25002950	M	Pork, liver	0.630000	1.000	1.000
60003010	P	Poultry, other, meat	0.020000	1.000	1.000
60003020	P	Poultry, other, liver	0.020000	1.000	1.000
60003030	P	Poultry, other, meat byproducts	0.020000	1.000	1.000
60003040	P	Poultry, other, fat	0.020000	1.000	1.000
60003050	P	Poultry, other, skin	0.020000	1.000	1.000
10003070	10	Pummelo	0.230000	1.000	1.000
09023080	9B	Pumpkin	0.080000	1.000	1.000
09023090	9B	Pumpkin, seed	0.080000	1.000	1.000
11003100	11	Quince	0.230000	1.000	1.000
29003120	M	Rabbit, meat	0.130000	1.000	1.000
20003190	20	Rapeseed, oil	0.010000	1.000	1.000
13013200	13A	Raspberry	0.870000	1.000	1.000
13013201	13A	Raspberry-babyfood	0.870000	1.000	1.000
13013210	13A	Raspberry, juice	0.870000	1.000	1.000
13013211	13A	Raspberry, juice-babyfood	0.870000	1.000	1.000
04023220	4B	Rhubarb	2.280000	1.000	1.000
15003230	15	Rice, white	1.110000	1.000	1.000
15003231	15	Rice, white-babyfood	1.110000	1.000	1.000
15003240	15	Rice, brown	1.110000	1.000	1.000

15003241	15	Rice, brown-babyfood	1.110000	1.000	1.000	
15003250	15	Rice, flour	1.110000	1.000	1.000	
15003251	15	Rice, flour-babyfood	1.110000	1.000	1.000	
15003260	15	Rice, bran	1.110000	1.000	1.000	
15003261	15	Rice, bran-babyfood	1.110000	1.000	1.000	
15003280	15	Rye, grain	0.550000	1.000	1.000	
15003290	15	Rye, flour	0.550000	1.000	1.000	
03003380	3	Shallot	0.090000	1.000	1.000	
26003390	M	Sheep, meat	0.130000	1.000	1.000	
26003391	M	Sheep, meat-babyfood	0.130000	1.000	1.000	
26003400	M	Sheep, meat byproducts	0.140000	1.000	1.000	
26003410	M	Sheep, fat	0.150000	1.000	1.000	
26003411	M	Sheep, fat-babyfood	0.150000	1.000	1.000	
26003420	M	Sheep, kidney	0.290000	1.000	1.000	
26003430	M	Sheep, liver	0.630000	1.000	1.000	
15003440	15	Sorghum, grain	0.550000	1.000	1.000	
15003450	15	Sorghum, syrup	0.550000	1.000	1.000	
06003470	6	Soybean, seed	3.300000	1.000	1.000	10x for method issue
06003480	6	Soybean, flour	3.300000	1.000	1.000	
06003481	6	Soybean, flour-babyfood	3.300000	1.000	1.000	
06003490	6	Soybean, soy milk	3.300000	1.000	1.000	
06003491	6	Soybean, soy milk-babyfood or in	3.300000	1.000	1.000	
06003500	6	Soybean, oil	3.300000	1.000	1.000	
06003501	6	Soybean, oil-babyfood	3.300000	1.000	1.000	
95003520	O	Spearmint	1.620000	1.000	1.000	
95003530	O	Spearmint, oil	1.620000	1.000	1.000	
09023560	9B	Squash, summer	0.080000	1.000	1.000	
09023561	9B	Squash, summer-babyfood	0.080000	1.000	1.000	
09023570	9B	Squash, winter	0.080000	1.000	1.000	
09023571	9B	Squash, winter-babyfood	0.080000	1.000	1.000	
95003590	O	Strawberry	0.480000	1.000	1.000	
95003591	O	Strawberry-babyfood	0.480000	1.000	1.000	
95003600	O	Strawberry, juice	0.480000	1.000	1.000	
95003601	O	Strawberry, juice-babyfood	0.480000	1.000	1.000	
20003640	20	Sunflower, seed	0.030000	1.000	1.000	
20003650	20	Sunflower, oil	0.030000	1.000	1.000	
20003651	20	Sunflower, oil-babyfood	0.030000	1.000	1.000	
04023670	4B	Swiss chard	2.280000	1.000	1.000	
10003690	10	Tangerine	0.230000	1.000	1.000	
10003700	10	Tangerine, juice	0.230000	2.300	1.000	
08003740	8	Tomatillo	0.160000	1.000	1.000	
08003750	8	Tomato	0.160000	1.000	1.000	
08003751	8	Tomato-babyfood	0.160000	1.000	1.000	
08003760	8	Tomato, paste	0.160000	5.400	1.000	
08003761	8	Tomato, paste-babyfood	0.160000	5.400	1.000	
08003770	8	Tomato, puree	0.160000	3.300	1.000	
08003771	8	Tomato, puree-babyfood	0.160000	3.300	1.000	
08003780	8	Tomato, dried	0.160000	14.300	1.000	
08003781	8	Tomato, dried-babyfood	0.160000	14.300	1.000	
08003790	8	Tomato, juice	0.160000	1.500	1.000	
15003810	15	Triticale, flour	0.550000	1.000	1.000	
15003811	15	Triticale, flour-babyfood	0.550000	1.000	1.000	
50003820	P	Turkey, meat	0.020000	1.000	1.000	
50003821	P	Turkey, meat-babyfood	0.020000	1.000	1.000	
50003830	P	Turkey, liver	0.020000	1.000	1.000	
50003831	P	Turkey, liver-babyfood	0.020000	1.000	1.000	
50003840	P	Turkey, meat byproducts	0.020000	1.000	1.000	
50003841	P	Turkey, meat byproducts-babyfood	0.020000	1.000	1.000	
50003850	P	Turkey, fat	0.020000	1.000	1.000	
50003851	P	Turkey, fat-babyfood	0.020000	1.000	1.000	
50003860	P	Turkey, skin	0.020000	1.000	1.000	
50003861	P	Turkey, skin-babyfood	0.020000	1.000	1.000	
01013880	1AB	Turnip, roots	0.200000	1.000	1.000	
05023890	5B	Turnip, greens	2.280000	1.000	1.000	
14003910	14	Walnut	0.110000	1.000	1.000	
86010000	O	Water, direct, all sources	0.025000	1.000	1.000	
86020000	O	Water, indirect, all sources	0.025000	1.000	1.000	
09013990	9A	Watermelon	0.080000	1.000	1.000	
09014000	9A	Watermelon, juice	0.080000	1.000	1.000	
15004010	15	Wheat, grain	0.550000	1.000	1.000	
15004011	15	Wheat, grain-babyfood	0.550000	1.000	1.000	
15004020	15	Wheat, flour	0.550000	1.000	1.000	
15004021	15	Wheat, flour-babyfood	0.550000	1.000	1.000	
15004030	15	Wheat, germ	0.550000	1.000	1.000	
15004040	15	Wheat, bran	0.550000	1.000	1.000	

15004050 15	Wild rice	1.110000	1.000	1.000

Acute Dietary Results Summary.

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U.S. Environmental Protection Agency                                    Ver. 2.02
DEEM-FCID ACUTE Analysis for TA/TAA                                  (1994-98 data)
Residue file: TA+TAA Acute Dir Food and Water.R98 Adjustment factor #2 NOT used.
Analysis Date: 12-20-2005/20:23:24    Residue file dated: 12-20-2005/20:16:18/8
Daily totals for food and foodform consumption used.
Run Comment: "RfDs are PADs.  aPAD for Females 13-49 only"
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Summary calculations (per capita):

	95th Percentile Exposure	95th Percentile % aRfD	99th Percentile Exposure	99th Percentile % aRfD	99.9th Percentile Exposure	99.9th Percentile % aRfD
Females 13-49 yrs:	0.027366	27.37	0.041218	41.22	0.082664	82.66

Chronic Dietary Results Summary.

U.S. Environmental Protection Agency Ver. 2.00
DEEM-FCID Chronic analysis for TA/TAA (1994-98 data)
Residue file name: TA+TAA Chronic Dir Food and Water.R98
Adjustment factor #2 NOT used.
Analysis Date 12-20-2005/20:31:23 Residue file dated: 12-20-2005/20:21:39/8
Reference dose (RfD, Chronic) = .09 mg/kg bw/day
COMMENT 1: RfDs are PADs. aPAD for Females 13-49 only

Total exposure by population subgroup

Population Subgroup	Total Exposure mg/kg body wt/day	Total Exposure Percent of Rfd
U.S. Population (total)	0.008038	8.9%
U.S. Population (spring season)	0.008057	9.0%
U.S. Population (summer season)	0.008186	9.1%
U.S. Population (autumn season)	0.007892	8.8%
U.S. Population (winter season)	0.008026	8.9%
Northeast region	0.008232	9.1%
Midwest region	0.008186	9.1%
Southern region	0.007492	8.3%
Western region	0.008574	9.5%
Hispanics	0.008807	9.8%
Non-hispanic whites	0.007810	8.7%
Non-hispanic blacks	0.008096	9.0%
Non-hisp/non-white/non-black	0.009785	10.9%
All infants (< 1 year)	0.015955	17.7%
Nursing infants	0.007062	7.8%
Non-nursing infants	0.019331	21.5%
Children 1-6 yrs	0.020365	22.6%
Children 7-12 yrs	0.011426	12.7%
Females 13-19 (not preg or nursing)	0.006566	7.3%
Females 20+ (not preg or nursing)	0.005578	6.2%
Females 13-50 yrs	0.006422	7.1%
Females 13+ (preg/not nursing)	0.006940	7.7%
Females 13+ (nursing)	0.007367	8.2%
Males 13-19 yrs	0.007976	8.9%
Males 20+ yrs	0.006222	6.9%
Seniors 55+	0.005389	6.0%
Children 1-2 yrs	0.023879	26.5%
Children 3-5 yrs	0.019604	21.8%
Children 6-12 yrs	0.012065	13.4%
Youth 13-19 yrs	0.007293	8.1%
Adults 20-49 yrs	0.006185	6.9%
Adults 50+ yrs	0.005421	6.0%
Females 13-49 yrs	0.005966	6.6%

13544

R119819

Chemical: 1H-1,2,4-Triazole-1-propanoic acid, .alpha.-amino-
Triazolyl acetic acid (A metabolite)

PC Code:
600011
600082

HED File Code: 11000 Chemistry Reviews
Memo Date: 12/20/2005
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