

Triazole Alanine + Triazole Acetic Acid Dietary Exposure Assessment  
PC Code: 600011 + 600082

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

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 95<sup>th</sup> 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

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(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  $1 \times 10^{-6}$ ). 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.

| Food               | DEEM Input Value, ppm |         | Anticipated Residue, ppm |         | Max. Monitored Residue, ppm <sup>1</sup> | 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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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,<br>ppm |         | Anticipated Residue,<br>ppm |         | Max.<br>Monitored<br>Residue, ppm <sup>1</sup> | 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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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 <sup>1</sup> | 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                                     | --                 |

<sup>1</sup> 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<sub>1</sub>\* 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<br>UF = 1000<br><br>Acute RfD = 0.1 mg/kg/day  | FQPA SF = 1<br>aPAD = <u>acute RfD</u><br>FQPA SF<br><br>= 0.1 mg/kg/day    | Prenatal developmental toxicity in rodents - rat<br><br>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<br>UF = 1000<br><br>Chronic RfD = 0.09 mg/kg/day  | FQPA SF = 1<br>cPAD = <u>chronic RfD</u><br>FQPA SF<br><br>= 0.09 mg/kg/day | 90-Day oral toxicity in rodents - rat<br><br>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 95<sup>th</sup> 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 |                       |                         |
|---------------------|-----------------|------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|-------------------------|
|                     |                 | 95 <sup>th</sup> %ile        | 99 <sup>th</sup> %ile | 99.9 <sup>th</sup> %ile | 95 <sup>th</sup> %ile | 99 <sup>th</sup> %ile | 99.9 <sup>th</sup> %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).

| 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.



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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 | Adj. Factors #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 | 0        | Artichoke, globe                | 0.540000      | 1.000           | 1.000           |         |
| 95000190 | 0        | Asparagus                       | 0.800000      | 1.000           | 1.000           |         |
| 09020210 | 9B       | Balsam pear                     | 0.110000      | 1.000           | 1.000           |         |
| 95000230 | 0        | Banana                          | 2.160000      | 1.000           | 1.000           |         |
| 95000231 | 0        | Banana-babyfood                 | 2.160000      | 1.000           | 1.000           |         |
| 95000240 | 0        | Banana, dried                   | 2.160000      | 3.900           | 1.000           |         |
| 95000241 | 0        | 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           |         |

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|----------|-----|----------------------------------|----------|-------|-------|
| 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 |

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|----------|-----|----------------------------------|-----------|-------|-------|
| 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 |

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|----------|-----|---------------------------------|----------|-------|-------|
| 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 | 0   | Peanut                          | 2.300000 | 1.000 | 1.000 |
| 95002640 | 0   | Peanut, butter                  | 2.300000 | 1.000 | 1.000 |
| 95002650 | 0   | 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 | 0   | Peppermint                      | 1.620000 | 1.000 | 1.000 |
| 95002760 | 0   | Peppermint, oil                 | 1.620000 | 1.000 | 1.000 |
| 95002790 | 0   | Pineapple                       | 1.590000 | 1.000 | 1.000 |
| 95002791 | 0   | Pineapple-babyfood              | 1.590000 | 1.000 | 1.000 |
| 95002800 | 0   | Pineapple, dried                | 1.590000 | 5.000 | 1.000 |
| 95002810 | 0   | Pineapple, juice                | 1.590000 | 1.700 | 1.000 |
| 95002811 | 0   | Pineapple, juice-babyfood       | 1.590000 | 1.700 | 1.000 |
| 14002820 | 14  | Pistachio                       | 0.050000 | 1.000 | 1.000 |
| 95002830 | 0   | Plantain                        | 2.160000 | 1.000 | 1.000 |
| 95002840 | 0   | 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 |

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|----------|-----|----------------------------------|----------|--------|-------|
| 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   | Smallot                          | 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 |

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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

Analysis Date 12-20-2005 Residue file dated: 12-20-2005/20:21:39/8  
 Reference dose (RfD) = 0.09 mg/kg bw/day Adjust. #2 NOT used  
 Comment: RfDs are PADs. aPAD for Females 13-49 only

| Food Crop<br>EPA Code | Grp | Food Name                       | Residue<br>(ppm) | Adj. Factors |       | Comment |
|-----------------------|-----|---------------------------------|------------------|--------------|-------|---------|
|                       |     |                                 |                  | #1           | #2    |         |
| 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 |         |

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|----------|-----|---------------------------------|----------|-------|-------|
| 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-babyfo | 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 |

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|          |     |                                  |          |       |       |
|----------|-----|----------------------------------|----------|-------|-------|
| 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 |



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|          |     |                                 |          |       |       |
|----------|-----|---------------------------------|----------|-------|-------|
| 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 |

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|          |     |                                  |          |        |       |                      |
|----------|-----|----------------------------------|----------|--------|-------|----------------------|
| 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 |                      |

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|          |    |           |          |       |       |
|----------|----|-----------|----------|-------|-------|
| 15004050 | 15 | Wild rice | 1.110000 | 1.000 | 1.000 |
|----------|----|-----------|----------|-------|-------|

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Acute Dietary Results Summary.

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"

Summary calculations (per capita):

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

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**Chronic Dietary Results Summary.**

U.S. Environmental Protection Agency Ver. 2.00  
 DEEM-PCID 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 | 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%           |

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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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