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



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MEMORANDUM

Date: 11/18/2014

SUBJECT: Chlorpyrifos Acute and Steady State Dietary (Food Only) Exposure Analysis to Support Registration Review

PC Code: 059101 Decision No.: 498216 Petition No.: NA Risk Assessment Type: Dietary TXR No.: None MRID No.: None DP Barcode: D424486 Registration No.: NA Regulatory Action: Registration Review Case No.: NA CAS No.: 2921-88-2 40 CFR: 40 CFR 180.342

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Executive Summary

Acute and steady state dietary (food only) exposure analyses for chlorpyrifos were conducted using the Dietary Exposure Evaluation Model (DEEM) and Calendex software with the Food Commodity Intake Database (FCID). This software uses 2003-2008 food consumption data from the U.S. Department of Agriculture's (USDA's) National Health and Nutrition Examination Survey, What We Eat in America, (NHANES/WWEIA). The most recent previous dietary assessment was performed in 2011 to support chlorpyrifos registration review (D. Soderberg, 6/30/11, D388166, *Chlorpyrifos: Revised Acute (Probabilistic) and Chronic Dietary Exposure and Risk Assessments for Food Only (with and without Food Handling Use included) and for Water Only for the Registration Review Action – Typical Use Rates/Water Included)*. This current analysis reflects the latest consumption data as well as more recent food monitoring and percent crop treated data.

This analysis was performed for the purpose of obtaining food exposure values for use in the chlorpyrifos physiologically-based pharmacokinetic-pharmacodynamic (PBPK-PD) modeling as part of EPA's revised human health risk assessment (HHRA, D424485) for chlorpyrifos. Unlike the previous chlorpyrifos dietary assessment (D388166; 2011), this memorandum does not include risk estimates (exposure as a percent of the reference dose or population adjusted dose) but only presents the resulting dietary exposure values, and only for the index population subgroups relevant to the revised chlorpyrifos HHRA. In the revised HHRA, the chlorpyrifos exposure from food sources are compared to the doses calculated by the PBPK-PD model to cause inhibition of acetylcholinesterase (AChE) activity per population subgroup; red blood cell cholinesterase inhibition (ChEI) is the toxicological endpoint of concern for chlorpyrifos exposures.

All residues in food are assumed to be parent chlorpyrifos since the chlorpyrifos oxon is not typically found in foods in monitoring data or crop field trials. Food exposures are based only upon field and livestock use of chlorpyrifos and do not incorporate potential exposure from food handling establishment (FHE) uses since there are no currently registered FHE uses.

This memorandum was reviewed by two peer reviewers of the DESAC per the current DESAC Standard Operating Procedure (SOP).

Acute and Steady State Dietary (Food Only) Exposure Results and Characterization

Both the acute and steady state dietary exposure analyses are highly refined. The large majority of food residues used were based upon U. S. Department of Agriculture's Pesticide Data Program (PDP) monitoring data except in a few instances where no appropriate PDP data were available. The Biological and Economic Analysis Division (BEAD) of OPP provided percent crop treated information. Food processing factors from submitted studies were used as appropriate.

For the acute analysis using DEEM, the highest exposed population subgroup was children 1-2 years old at 0.000423 mg/kg/day at the 99.9th percentile of exposure.

Organophosphates may exhibit a phenomenon known as steady state acetylcholinesterase (AChE) inhibition which is the most sensitive endpoint for all lifestages. After repeated dosing at the same dose, the amount of AChE inhibition in a given dose remains consistent across duration. For chlorpyrifos steady state, at the 99.9th percentile of exposure, the highest exposed population subgroup was children 1-2 years old at 0.000242 mg/kg, using Calendex.

I. Residue Information

Chlorpyrifos is an organophosphate insecticide that has numerous uses on a wide variety of crops, ornamentals and turf. Chlorpyrifos is also used as an adult mosquitocide and in livestock ear tags to control flies. Tolerances are established for residues of chlorpyrifos on crops and livestock commodities (40 CFR 180.342). There is also a tolerance for food handling uses although there do not appear to be any active registrations for this use. The residue of concern in food and livestock commodities is the parent compound chlorpyrifos. The oxon metabolite is generally not found in food monitoring data or field trials.

Sufficient information was available to conduct highly refined assessments. Chlorpyrifos is routinely included in PDP monitoring. For crops/foods not tested by PDP, translations have been made from tested crops. Occasionally, older PDP data has been used where it represented the best estimate of real residues; the years of PDP data used were from 1998 to 2012. Field trial data or tolerances have been used for a very few crops where translations from PDP data were not possible. The same data were used for both the acute and steady state analyses. In fact, the acute analysis in DEEM and the steady state analysis in Calendex both used the identical input file. Most input residues for the acute and steady state analyses were incorporated as residue data files (RDFs) and the analyses were performed probabilistically. The processing (residue reduction or concentration) factors were taken directly from the previous assessment (D388166; 2011); empirical factors came from guideline studies and a non-guideline cooking study.

Attachment 1 describes in detail the input (residue data sources, processing factors, anticipated residues (ARs) based on either Residue Data Files (RDFs) or point estimates) for the crop and livestock commodities. Attachment 4 contains the acute (and steady state) food only residue input file.

Food exposures are based only upon field use of chlorpyrifos and do not incorporate potential exposure from food handling establishment (FHE) uses since BEAD did not identify any registered FHE uses (although there are FHE tolerances established for residues of chlorpyrifos on *all* foods that do not have a higher tolerance from field uses). The previous (2011) dietary risk assessment did include a chronic analysis for FHE use based on <2% establishments treated (BEAD could not confirm that there was any actual usage although there was a registered use at the time) and half the analytical limit of detection (½ LOD; 0.01 ppm) based on all nondetectable residues in a chlorpyrifos FHE study. That analysis resulted in a chronic dietary exposure of 0.000009 mg/kg for children ages 1-2 years old (highest exposed population subgroup). Using any exposure values in the risk assessment based on a non-registered use would be considered an overestimate of risk. Nonetheless, the exposure from any potential FHE uses may be considered insignificant compared to exposures from field uses.

From PDP data it appears that chlorpyrifos is either applied illegally to a variety of crops or that residues occur on several crops that are rotated in after use of chlorpyrifos on a legally registered crop, or contamination is occurring by other means. Data on crops without tolerances are not ordinarily included in EPA assessments. Omission of residues on these crops may lead to some underestimation of exposure. However, the only commodity with a relatively high percentage of detects and with a fairly high maximum chlorpyrifos residue level, cilantro, would not be expected to result in appreciable consumption levels and would not be expected to have a significant impact on dietary exposure. Attachment 2 lists illegal residues found by PDP on crops which do not have a chlorpyrifos registered use or tolerance.

II. Percent Crop Treated Information

BEAD has provided a Screening Level Usage Analysis (SLUA; May 1, 2014), a list of percent crop treated estimates to be used for this assessment, which is included as Attachment 3. A separate memorandum (DP#345255, Addendum to the Screening Level Use Analysis and Update to the Percent of Food Handling Establishments Treated Estimates, full text found in D388166, 2011, Attachment 3) details percent crop treated estimates for food handling establishments and kiwifruit.

III. Drinking Water Data

This analysis does not include drinking water as the chlorpyrifos PBPK-PD model predicts ChEI separately for food and water sources of exposure.

IV. DEEM-FCID Program and Consumption Information

A chlorpyrifos acute dietary exposure analysis was conducted using the DEEM-FCID, Version 3.16, which incorporates 2003-2008 consumption data from USDA's NHANES/WWEIA. The 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. However, for acute exposure assessment, consumption data are retained as individual consumption events. Based on analysis of the 2003-2008 WWEIA consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to include 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 50-99 years old.

For an acute exposure assessment, 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.

V. CALENDEX-FCID Program

A chlorpyrifos steady state dietary exposure analysis was conducted using Calendex-FCIDTM. Calendex provides a focus detailed profile of potential exposures to individuals across a calendar year. A calendar-based approach provides the ability to estimate daily exposures from multiple sources over time to an individual and is in keeping with two key tenets of aggregate risk assessment: 1) that exposures when aggregated are internally consistent and realistic; and 2) that appropriate temporal and geographic linkages or correlations/associations between exposure scenarios are maintained. Calendex also enables HED to identify potential risks caused by co-occurrence of exposures from multiple routes and pathways (e.g., near simultaneous same-day exposures through drinking water and residential uses). For chlorpyrifos, only food exposures were estimated. An aggregate with water and/or residential exposures was not performed for this exercise.

HED's steady state assessment considers the potential risk from a 21-day exposure duration using a 3-week rolling average (sliding by day) across the year. For this assessment, the same food residue values used in the acute assessment were used for the 21-day duration. In the Calendex software, one diary for each individual in the WWEIA is selected to be paired with a randomly selected set of residue values for each food consumed. The steady state analysis calculated exposures for the sentinel populations for infant, child, youth, and adult (infants <1 yr, children 1-2 yrs, children 6-12 yrs, females 13-49 yrs).

VI. Toxicological Information

This analysis was performed for the purpose of obtaining food exposure values for use in the chlorpyrifos physiologically-based pharmacokinetic-pharmacodynamic (PBPK-PD) modeling as part of EPA's revised human health risk assessment (HHRA, D424485) for chlorpyrifos. Unlike the previous chlorpyrifos dietary assessment (D388166; 2011), this memorandum does not include risk estimates (exposure as a percent of the reference dose or population adjusted dose) but only presents the resulting dietary exposure values, and only for the index population subgroups relevant to the revised chlorpyrifos HHRA. In the revised HHRA, the chlorpyrifos exposure from food sources are compared to the doses calculated by the PBPK-PD model to cause inhibition of acetylcholinesterase (AChE) activity per population subgroup; red blood cell cholinesterase inhibition (ChEI) is the toxicological endpoint of concern for chlorpyrifos exposures.

VII. Results/Discussion

Results of Acute Dietary (Food Only) Exposure Analysis

For acute food only exposure, the highest exposed population subgroup was children 1-2 years old at 0.000423 mg/kg/day at the 99.9th percentile of exposure. See Attachment 5, acute food only results.

Table 1. DEEM Results of Acute Dietary (Food Only) Exposure Analysis for Chlorpyrifos.										
Population Subgroup	95 th Percentile Exposure (mg/kg/day)	99 th Percentile Exposure (mg/kg/day)	99.9 th Percentile Exposure (mg/kg/day)							
General U.S. Population	0.000031	0.000064	0.000197							
All Infants (<1 year old)	0.000050	0.000088	0.000273							
Children 1-2 years old*	0.000082	0.000143	0.000423							
Children 3-5 years old	0.000062	0.000107	0.000319							
Children 6-12 years old	0.000040	0.000072	0.000189							
Youth 13-19 years old	0.000024	0.000042	0.000126							
Adults 20-49 years old	0.000021	0.000042	0.000167							
Adults 50-99 years old	0.000022	0.000044	0.000186							
Females 13-49 years old	0.000021	0.000041	0.000150							

*The subpopulation with the highest exposure estimates.

Results of Steady State Dietary (Food Only) Exposure Analysis

For the steady state dietary exposure analyses, children 1-2 years old was the population subgroup with the highest estimated exposure of 0.000242 mg/kg (average of 0.000189 mg/kg) at the 99.9th percentile of exposure. See Attachment 6, examples of steady state (food only) results.

Table 2. Calendex Results of Steady State Dietary (Food Only) Exposure Analysis for Chlorpyrifos									
	50 th Percentile	70 th Percentile	95 th Percentile	99.9 th Percentile					
Population Subgroup	Max. Exposure (mg/kg) [ave]	Max. Exposure (mg/kg) [ave]	Max. Exposure (mg/kg) [ave]	Max. Exposure (mg/kg) [ave]					
All Infants (< 1 year old)	0.000011	0.00002	0.000045	0.000186					
	[0.000010]	[0.00002]	[0.000044]	[0.00014]					
Children (1-2 years old)*	0.000027	0.000038	0.000072	0.000242					
	[0.000027]	[0.000037]	[0.000069]	[0.000189]					
Children (6-12 years old)	0.000014	0.000019	0.000039	0.000128					
	[0.000013]	[0.000018]	[0.000038]	[0.000096]					
Females (13-49 years old)	0.000007	0.000009	0.000018	0.000075					
	[0.000007]	[0.000009]	[0.000018]	[0.000057]					

*The subpopulation with the highest exposure estimates

VIII. Characterization of Inputs/Outputs

This is a highly refined assessment, using monitoring data for almost all crops, using extensive percent crop treated information, and using a large set of processing and cooking factors. Most input residues for the acute and steady state analyses were incorporated as residue distribution files (RDFs) and the analyses were performed probabilistically. See Attachment 1 which details all of the input assumptions.

IX. Conclusions

Both the acute and steady state dietary (food only) exposure analyses for chlorpyrifos were highly refined and incorporated monitoring data for almost all crops/foods, used extensive percent crop treated information, and used a large set of processing and cooking factors. The analyses were performed probabilistically.

This analysis was performed for the purpose of obtaining food exposure values for comparison with PBPK-PD modeling predictions of doses causing red blood cell cholinesterase inhibition as part of the chlorpyrifos registration review preliminary human health risk assessment. Unlike the previous chlorpyrifos dietary assessment, this memorandum does not include risk estimates (exposure as a percent of the population adjusted dose, or PAD) but only presents the resulting dietary exposure values for the relevant population subgroups. This analysis does not include drinking water as the PBPK-PD model predicts ChEI inhibition from exposures to the chlorpyrifos oxon metabolite in water independent of exposures of chlorpyrifos from food sources.

X. List of Attachments

- 1. Summary of Data and Residue Estimates Used in the Dietary Analyses.
- 2. List of Residue Found by PDP on Crops for Which Use of Chlorpyrifos is Not Registered.
- 3. SLUA from BEAD.
- 4. Acute (and Steady State) Food only Residue Input File
- 5. Acute (Food Only) Result File
- 6. Examples of Steady State (Food Only) Result Files

Attachment 1. Data Sources and Residue Estimates Used in the Dietary Exposure Analyses

	Table Ala.	. Data Sources and R	lesique Est	imates for v	спогругно	s Dietary An		
			No. of Samples/ No. of Detectable Residues			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source		½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
	(and Tuber V	egetables (C	G 1)			
	1					I	1	
Beet, sugar/molasses	в	Sugar beet tolerance(1.0) adjusted w/ calculated processing factor (0.02)	NA	NA		10	20	0.004
		Sweet Potato PDP	1454/47	0.0013		100	100	RDF (Potato_Sweet) Total Samples=1454, Total Detects=47, Total LODs=1407,
Radish, root	NB/PB	2008, 2009, 2010						Total Zeros=0
Rutabaga	NB/PB	Sweet Potato PDP 2008, 2009, 2010	1454/47	0.0013		100	100	RDF (Potato_Sweet)
Sweet Potato	NB/PB	Sweet Potato PDP 2008, 2009, 2010	1454/47	0.0013	0.15 (peeling factor)	100	100	RDF (Potato_Sweet)
Sweet Potato, baby food	NB/PB	Sweet Potato, baby food, PDP 2010, 2011	776/0	0.0014		100	100	RDF (Potato_Sweet_BF) Total Samples=776, Total Detects=0, Total LODs=776, Total Zeros=0

Table A1a. Data Sources and Residue Estimates for Chlorpyrifos Dietary Analysis

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
Turnip, root	NB/PB	Sweet Potato PDP 2008, 2009, 2010	1454/47	0.0013		100	100	RDF (Potato_Sweet)
Yam	NB	Sweet Potato PDP 2008, 2009, 2010	1454/47	0.0013	0.15 (peeling factor)	100	100	RDF (Potato_Sweet)
		Leaves of I	Root and Tu	ber Vegetab	les (CG2)			
Radish, top	РВ	Kale PDP 2006, 2007, 2008	802/36	0.0019		100	100	RDF (Kale) Total Samples=802, Total Detects=36, Total LODs=766, Total Zeros=0
Turnip, top	РВ	Kale PDP 2006, 2007, 2008	802/36	0.0019		100	100	RDF (Kale)
			Bulb Vegeta	bles (CG3)		I.		
Onion, bulb	NB/PB	Onion Bulb PDP 2011, 2012	744/0	0.0078		40	50	RDF (Onion_Bulb) Total Samples=744, Total Detects=0, Total LODs=372, Total Zeros=372
Onion, bulb, dried	В	Onion Bulb PDP 2011, 2012	744/0	0.0078	9.0 dried	40	50	0.0039
		Leafy Vegetabl	-	-	•	•		·
	Bras	sica Cole Leafy Vegeta	ables (CG5)	[CROP GRO	UP TOLERAN	NCE EXISTS]		
Broccoli	NB/PB	Broccoli PDP 2006, 2007, 2008	1475/108	0.0006	0.94 (cooking)	45	60	RDF (Broccoli) Total Samples=1475,

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total Detects=108, Total LODs=777, Total Zeros=590
		Kale PDP 2006, 2007,			0.83			RDF
Broccoli rabi	NB	2008	802/36	0.0019	(cooking)	100	100	(Kale)
					0.94 (cooking)			RDF (Broccolito_chinese)
Broccoli Chinese	NB	Broccoli PDP 2006, 2007, 2008	1475/108	0.0006		100	100	Total Samples=1475, Total Detects=108, Total LODs=1367, Total Zeros=0
					0.83 (cooking)			RDF (Cabbageto_sprouts_ napa_kohlrabi)
Brussels sprouts	NB/PB	Cabbage PDP 2010, 2011	1483/0	0.0135		100	100	otal Samples=1483, Total Detects=0, Total LODs=1483, Total Zeros=0
					0.83			RDF
					(cooking)			(Cabbage)
Cabbage	NB/PB	Cabbage PDP 2010, 2011	1483/0	0.0135		15	25	Total Samples=1483, Total Detects=0, Total LODs=371, Total Zeros=1112
		-			0.83			RDF
Cabbage, Chinese, bok choy	РВ	Kale PDP 2006, 2007, 2008	802/36	0.0019	(cooking)	100	100	(Kale)
Cabbage, Chinese,		Broccoli PDP 2006,			0.94			RDF
mustard	NB/PB	2007, 2008	1475/108	0.0006	(cooking)	100	100	(Broccolito_chinese)
Cabbage, Chinese,	NB/PB	Cabbage PDP 2010,	1483/0	0.0135	0.83	100	100	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
napa		2011			(cooking)			(Cabbageto_sprouts_ napa_kohlrabi)
Cauliflower	NB/PB	Cauliflower PDP 2011,2012	923/0	0.0015	0.94 (cooking)	40	60	RDF (Cauliflower) Total Samples=923, Total Detects=0, Total LODs=554, Total Zeros=369
Collard	РВ	Collard PDP 2006,2007,2008	679/22	0.0021	0.83 (cooking)	100	100	RDF (Collard) Total Samples=679, Total Detects=22, Total LODs=657, Total Zeros=0
Kale	РВ	Kale PDP 2006, 2007, 2008	802/36	0.0019	0.83 (cooking)	100	100	RDF (Kale)
Kohlrabi	NB	Cabbage PDP 2010, 2011	1483/0	0.0135	0.83 (cooking)	100	100	RDF (Cabbageto_sprouts_ napa_kohlrabi)
Mustard green	PB	Kale PDP 2006, 2007, 2008	802/36	0.0019	0.83 (cooking)	100	100	RDF (Kale)
Rape green	PB	Kale PDP 2006, 2007, 2008 es Succulent and Drie	802/36	0.0019	0.83 (cooking)	100	100	RDF (Kale)
LL	egume vegetabl				ULERANCE	ENISIS; exce	pt soybeal	י <u>ן</u>
Bean, seed /dry pea	В	Bean FT LOD/tolerance (0.05 ppm)	<0.05	0.025		< 2.5	5	0.00125
Bean, succulent	РВ	Bean green PDP	1480/14	0.0017		< 2.5	5	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
		2007, 2008						(Bean_Green_Fresh)
								Total Samples=1480, Total Detects=14, Total LODs=60, Total Zeros=1406
								RDF
Bean, succulent, babyfood	РВ	Bean green baby food PDP 2010, 2011	776/0	0.0014		< 2.5	5	(Bean_Green_BF) Total Samples=776, Total Detects=0, Total LODs=39, Total Zeros=737
			110,0	0.0011		12.0	Ű	RDF
								(Bean_Green_Froze n)
Bean, succulent, frozen	РВ	Bean green frozen PDP 2005	555/1	0.0023		< 2.5	5	Total Samples=555, Total Detects=1, Total LODs=27, Total Zeros=527
								RDF
								(Bean_Green_Canne d)
Bean, succulent,		Bean green canned						Total Samples=928, Total Detects=0, Total LODs=46, Total Zeros=882
canned	РВ	PDP 2003, 2004	928/0	0.0024		< 2.5	5	
								RDF
								(Pea_Snap)
Pea, snap	PB	Pea snap PDP 2011, 2012	1487/46	0.0015		100	100	Total Samples=1487, Total Detects=46,

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total LODs=1441, Total Zeros=0
Pea, snap, seed	В	Pea snap PDP 2011, 2012	1487/46	0.0015		100	100	0.0016
Pea, succulent (sweet peas, fresh or frozen)	РВ	Pea sweet frozen PDP 2006	744/0	0.0021		< 2.5	< 2.5	RDF (Pea_Sweet_Frozen) Total Samples=744, Total Detects=0, Total LODs=19, Total Zeros=725
Pea, canned	РВ	Pea sweet canned PDP 2003, 2004	729/0	0.0019		< 2.5	< 2.5	RDF (Pea_Sweet_Canned) Total Samples=729, Total Detects=0, Total LODs=18, Total Zeros=711
Pea, baby food	РВ	Pea sweet canned PDP 2003, 2004	729/0	0.0019		< 2.5	< 2.5	RDF (Pea_Sweet_Canned)
Soybean	В	Soybean PDP 2011	300/8	0.0015		5	10	RDF (Soybean_Grain) Total Samples=300, Total Detects=8, Total LODs=22, Total Zeros=270
Soybean, oil	В	Soybean PDP 2011	300/8	0.0015	0.14	5	10	0.00016
Dappar hall	NB/PB			etable (CG8)		-0 F		
Pepper bell	IND/PB	Pepper bell PDP	1671/146	0.0086		<2.5	5	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
		2010, 2011, 2012						(Pepper_Bell) Total Samples=1671, Total Detects=146, Total LODs=0, Total Zeros=1525
								RDF
Pepper non-bell	NB/PB	Pepper non-bell PDP 2010, 2011	739/65	0.0014		<2.5	5	(Pepper_Nonbell) Total Samples=739, Total Detects=65, Total LODs=0, Total Zeros=674
				tables (CG9))	S2.0	Ū	20100-071
					/			RDF
Cucumber	NB/PB	Cucumber PDP 2009, 2010	1488/50	0.0008		<2.5	5	(Cucumber) Total Samples=1488, Total Detects=50, Total LODs=24, Total Zeros=1414
Pumpkin	NB/PB	Winter Squash PDP 2011, 2012	928/4	0.003	0.32 (cooking)	<2.5	5	RDF (Squash_Winter_Fre sh) Total Samples=928, Total Detects=4, Total LODs=42, Total Zeros=882
Pumpkin seed	В	Winter Squash PDP 2011, 2012	928/4	0.003		<2.5	5	0.0002
	1	Citrus (CG10)	CROP GRO	UP TOLERA		<u> </u>		1
Citron	NB	Orange PDP 2009,	1488/11	0.0014		100	100	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
		2010						(Orangeto_othercitru s) Total Samples=1488, Total Detects=11, Total LODs=1477,
		Orange PDP 2009,						Total Zeros=0 RDF (Orangeto_othercitru
Citrus hydrid	NB	2010	1488/11	0.0014		100	100	S
Grapefruit	NB/PB	Grapefruit PDP 2005, 2006	1485/24	0.0018		20	35	RDF (Grapefruit) Total Samples=1485, Total Detects=24, Total LODs=496, Total Zeros=965
Grapefruit juice	NB	OJ PDP 2004, 2005, 2006	1517/4	0.002	1.17	20	35	RDF (Orange_Juice) Total Samples=1517, Total Detects=4, Total LODs=527, Total Zeros=986
Kumquat	РВ	Orange PDP 2009, 2010	1488/11	0.0014		100	100	RDF (Orangeto_othercitru s
Lemon	NB/PB	Orange PDP 2009, 2010	1488/11	0.0014		35	60	RDF (Orangeto_lemon) Total Samples=1488, Total Detects=11, Total LODs=882,

			No. of			% C	Т	Anticipated Residue Estimates/Tolerance (ppm)
	DEEM Food		Samples/ No. of Detectable Residues	1/2 1 0 0 11 0 D	Processing Factors			Acute (and Steady State) (Tol., AR, or RDF w/filename)
Commodity	Form/ (Classification ¹)	Data Source		LOQ/LOD (ppm)	Factors "	Ave	Max.	
				,				Total Zeros=595
								RDF
								(Orange_Juiceto_Le mon)
Lemon juice	РВ	OJ PDP 2004, 2005, 2006	1517/4	0.002	1.11	35	60	Total Samples=1517, Total Detects=4, Total LODs=906, Total Zeros=611
,		Orange PDP 2009,						RDF
Lemon peel	РВ	2010	1488/11	0.0014	15	35	60	(Orangeto_lemon)
								RDF
		Orange PDP 2009,						(Orangeto_othercitru
Lime	NB	2010	1488/11	0.0014		100	100	S
								RDF (Orange_Juiceto_Lim e)
Lime juice	РВ	OJ PDP 2004, 2005, 2006	1517/4	0.002	1.11	100	100	Total Samples=1517, Total Detects=4, Total LODs=1530, Total Zeros=0
								RDF
								(Orange)
Orange	NB/PB	Orange PDP 2009, 2010	1488/11	0.0014		20	35	Total Samples=1488, Total Detects=11, Total LODs=510, Total Zeros=967
								RDF
		OJ PDP 2004, 2005,						(Orange_Juice)
Orange juice	PB	2006	1517/4	0.002		20	35	Total Samples=1517,

			No. of			% C	Т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
	(************							Total Detects=4, Total LODs=527, Total Zeros=986
		Orange PDP 2009,						RDF
Orange peel	РВ	2010	1488/11	0.0014	15	20	35	(Orange)
Pummelo	NB	Orange PDP 2009, 2010	1488/11	0.0014		100	100	RDF (Orangeto_othercitru s
Tangerine	NB	Tangerine PDP 2011, 2012	1426/4	0.005		10	20	RDF (Tangerine) Total Samples=1426, Total Detects=4, Total LODs=281, Total Zeros=1141
Tangerine juice	РВ	OJ PDP 2004, 2005, 2006	1517/4	0.002	1.28	10	20	RDF (Orange_Juiceto_Ta ngerine) Total Samples=1517, Total Detects=4, Total LODs=299, Total Zeros=1214
	I		Pome Frui	ts (CG11)		1		1
								RDF
Apple (unpeeled)	NB/PB	Apple PDP 2009, 2010	1488/19	0.0007		55	65	(Apple_Fresh) Total Samples=1488, Total Detects=19, Total LODs=948, Total Zeros=521
Apple (peeled)	NB/PB	Apple PDP 2009,	1488/19	0.0007	0.15	55	65	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
		2010			(peeling factor)			(Apple_Fresh)
Apple, dried	В	Apple PDP 2009, 2010	1488/19	0.0007	1.2	55	65	0.0006
Apple juice	РВ	Apple PDP 2009, 2010	1488/19	0.0007	0.15	55	65	RDF (Apple_Fresh) RDF
Apple sauce	РВ	Apple sauce PDP 2006	714/0	0.001		55	65	(Apple_Sauce) Total Samples=714, Total Detects=0, Total LODs=464, Total Zeros=250
Apple, baby food	РВ	Apple baby food PDP 2012	396/0	0.0005		55	65	RDF (Apple_Sauce_BF) Total Samples=396, Total Detects=0, Total LODs=257, Total Zeros=139
Pear	NB/PB	Pear PDP 2009, 2010	1485/10	0.0015	0.15	15	30	RDF (Pear) Total Samples=1485, Total Detects=10, Total LODs=436, Total Zeros=1039
Pear, dried	В	Pear PDP 2009, 2010	1485/10	0.0015	0.93	15	30	0.0005
Pear, baby food	РВ	Pear baby food PDP 2010, 2011	776/0	0.0006		15	30	RDF (Pear _BF) Total Samples=776, Total Detects=0.

			No. of			% C	Т	Anticipated Residue Estimates/Tolerance (ppm)
	DEEM Food Form/		Samples/ No. of Detectable Residues	^{1/2} LOQ/LOD	Processing Factors			Acute (and Steady State) (Tol., AR, or RDF w/filename)
Commodity	(Classification ¹)	Data Source		(ppm)		Ave	Max.	
								Total LODs=233, Total Zeros=543
								RDF
								(Pear_Canned)
Pear, canned	PB	Pear canned PDP 1999, 2000	737/0	0.0023		15	30	Total Samples=737, Total Detects=0, Total LODs=221, Total Zeros=516
								RDF
Pear, juice	РВ	Pear PDP 2009, 2010	1485/10	0.0015	0.15	15	30	(Pear)
			Stone Fru	it (CG12)	- -	•		
								RDF
								(Cherry)
					0.59 (canning)			Total Samples=419, Total Detects=0,
Cherry	PB	Cherry PDP 2007	419/0	0.0014	1.16 (cooking)	30	45	Total LODs=189, Total Zeros=230
			+10/0	0.0014			-10	RDF
Cherry juice	РВ	Cherry PDP 2007	419/0	0.0014	0.3 (grape juice)	30	45	(Cherry)
Cherry baby food	PB	Cherry PDP 2007	419/0	0.0014	0.59 (canning) 1.16 (cooking)	30	45	RDF (Cherry)
								RDF
								(Nectarine)
Nesteries		Nectarine PDP 2007,	4005/450	0.0005				Total Samples=1235, Total Detects=156, Total LODs=91, Total
Nectarine	NB	2008	1235/156	0.0025		10	20	Zeros=988

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								RDF
								(Peach_Fresh)
Peach	NB/PB	Peach PDP 2006, 2007, 2008	1261/218	0.0038	0.52 (canning) 0.50 (cooking)	25	40	Total Samples=1261, Total Detects=218, Total LODs=286, Total Zeros=757
	_	Peach PDP 2006,						
Peach, dried	В	2007, 2008	1261/218	0.0038	7.0 dried	25	40	0.0038 RDF
Peach, canned	NB/PB	Peach canned PDP 2003, 2004	1485/0	0.005		25	40	(Peach_Canned) Total Samples=1485, Total Detects=0, Total LODs=594, Total Zeros=891
								RDF
Peach, baby food	РВ	Peach baby food PDP 2012	777/4	0.0027		25	40	(Peach_BF) Total Samples=777, Total Detects=4, Total LODs=307, Total Zeros=466
		Peach canned PDP						RDF
Peach juice	РВ	2003, 2004	1485/0	0.005		25	40	(Peach_Canned)
								RDF
Plum	NB/PB	Plum PDP 2011, 2012	840/12	0.003		10	15	(Plum) Total Samples=840, Total Detects=12, Total LODs=114, Total Zeros=714
Plum, baby food	PB	Plum PDP 2011, 2012	840/12	0.003		10	15	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								(Plum)
								RDF
Prune, fresh	NB	Plum PDP 2011, 2012	840/12	0.003		10	15	(Plum)
		Plum prune PDP 2005, 2006						RDF (Plum_Prune) Total Samples=377,
Prune, dried	РВ		377/0	0.0027		10	15	Total Detects=0, Total LODs=57, Total Zeros=320
		Plum prune PDP						RDF
Prune juice	PB	2005, 2006	377/0	0.0027	0.28	10	15	(Plum_Prune)
			Berries	(CG13)				
								RDF
Cranberry	РВ	Cranberry PDP 2006	316/71	0.0023		100	100	(Cranberry) Total Samples=316, Total Detects=71, Total LODs=245, Total Zeros=0
								RDF
Cranberry, dried	РВ	Cranberry PDP 2006	316/71	0.0023		100	100	(Cranberry)
Cranberry, juice	PB	Cranberry PDP 2006	316/71	0.0023	0.3 (grape juice)	100	100	RDF (Cranberry)
Grape	РВ	Grape PDP 2009, 2010	1489/17	0.0029		10	20	RDF (Grape_Fresh) Total Samples=1489, Total Detects=17, Total LODs=281, Total Zeros=1191

			No. of			% C	Т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
	((FF)				RDF
								(Grape_Juice)
Grape juice	РВ	Grape juice PDP 2008	745/0	0.0029		10	20	Total Samples=745, Total Detects=0, Total LODs=149, Total Zeros=596
								RDF
								(Grape_Raisin)
Grape, raisin	РВ	Grape raisin PDP 2006,2007	744/5	0.0026		10	20	Total Samples=744, Total Detects=5, Total LODs=144, Total Zeros=595
Grape, wine and								RDF
sherry	PB	Grape juice PDP 2008	745/0	0.0029		10	20	(Grape_Juice)
								RDF
Kiwifruit	NB	Kiwifruit Tolerance (2.0)	NA	NA	0.15 (peeling factor)	1	2.5	(Kiwi) TOTALZ=975 TOTALNZ=25
								RDF
								(Strawberry_Fresh)
Strawberry	РВ	Strawberry PDP 2008, 2009	1485/17	0.003		20	35	Total Samples=1485, Total Detects=17, Total LODs=503, Total Zeros=965
								RDF
		Strawberry frozen						(Strawberry_Frozen)
Strawberry, frozen	РВ	PDP 1998, 1999, 2000	155/0	0.0028		20	35	Total Samples=155, Total Detects=0,

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total LODs=54, Total Zeros=101
Strawberry juice	РВ	Strawberry PDP 2008, 2009	1485/17	0.003	0.3 (grape juice)	20	35	RDF (Strawberry_Fresh)
	•	•	Tree Nuts	s (CG14)	•	•	•	
								RDF (Almond) Total Samples=547, Total Detects=232,
Almond	РВ	Almond PDP 2007, 2008	547/232	0.0005		25	40	Total LODs=0, Total Zeros=315
Almond oil	В	Almond PDP 2007, 2008	547/232	0.0005	2.0	25	40	0.0018
Hazelnut (filbert)	РВ	Almond PDP 2007, 2008	547/232	0.0005		15	25	RDF (Almond) Total Samples=547, Total Detects=232, Total LODs=0, Total Zeros=315
Pecan	PB	Almond PDP 2007, 2008	547/232	0.0005		30	40	RDF (Almond) Total Samples=547, Total Detects=232, Total LODs=0, Total Zeros=315
Walnut	РВ	Almond PDP 2007, 2008	547/232	0.0005		45	55	RDF (Almondto_walnut) Total Samples=547, Total Detects=232,

			No. of			% C	Т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	^{1/2} LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total LODs=69, Total Zeros=246
	1		Cereal Grai	ns (CG15)	I			1
Corn, field (bran, flour, meal, starch)	в	Corn grain PDP 2007, 2008	1300/311	0.0005	0.22 (processing/ endosperm washing)	<2.5	5	0.0007
Corn, pop	В	Corn grain PDP 2007, 2008	1300/311	0.0005		<2.5	5	0.0007
Corn syrup	В	Corn Syrup PDP 1998, 1999	454/0	0.0005		<2.5	5	0.0005
Corn, sweet	NB/PB	Corn Sweet PDP 2008, 2009, 2010	1301/0	0.0065		10	20	RDF (Corn_Sweet_Fresh) Total Samples=1301, Total Detects=0, Total LODs=260, Total Zeros=1041
		Corn Sweet canned				-		RDF (Corn_Sweet_Canne d) Total Samples=723, Total Detects=0, Total LODs=145,
Corn, sweet canned	NB/PB	PDP 2001, 2002	723/0	0.002		10	20	Total Zeros=578
Sorghum syrup	В	Wheat Grain PDP 2005, 2006	1361/8	0.003	0.05	<1	<2.5	0.0004
Wheat grain	В	Wheat Grain PDP 2005, 2006	1361/8	0.003	2.7 (germ) 3 (bran)	5*	10*	RDF (Wheat_Grain) Total Samples=1361,

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total Detects=8, Total LODs=1353, Total Zeros=0
Wheat flour	В	Wheat Grain PDP 2005, 2006	1361/8	0.003	0.145	5	10	0.0031
		Н	-	pices (CG19)				
			Oilse	eds				
Cottonseed oil	В	Cotton FT (D21646)			0.375	<2.5	<2.5	0.003
Sunflower seed	В	Sunflower FT (D220463)	5/5	0.25		5	10	0.0012
Sunflower oil	В	Sunflower FT (D220463)	5/5	0.25	2.5	5	10	0.0012
		•	Miscella	aneous				•
Asparagus, fresh	NB	Asparagus PDP 2008, 2009, 2010	1488/41	0.0081	0.94 (cooking)	40	60	RDF (Asparagus) Total Samples=1488, Total Detects=41, Total LODs=852, Total Zeros=595
Asparagus, frozen	PB	Asparagus PDP 2008, 2009, 2010	1488/41	0.0081	0.94 (cooking)	40	60	RDF (Asparagus)
Asparagus, canned	РВ	Asparagus canned PDP 2003	354/6	0.0019		40	60	RDF (Asparagus_Canned) Total Samples=354, Total Detects=6, Total LODs=206, Total Zeros=142
Banana	PB	Banana PDP 2012	559/1	0.0025		100	100	RDF

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								(Banana) Total Samples=559, Total Detects=1, Total LODs=558, Total Zeros=0
Banana, dried	В	Banana PDP 2012	559/1	0.0025	3.9 dried	100	100	0.0025
								RDF
Banana baby food	NB/PB	Banana PDP 2012	559/1	0.0025		100	100	(Banana)
Fig	NB	Fig tolerance (0.01)	NA	NA		100	100	0.01
Peanut	В	Peanut FT	5/2	0.01		5	15	0.0011
Peanut oil	В	Peanut FT	5/2	0.01	2	5	15	0.0011
Peanut butter	В	Peanut butter PDP 2006	739/0	0.0135		5*	15*	0.014
Peppermint	В	Peppermint tops tolerance (0.8)	NA	NA		100	100	0.8
Peppermint oil	в	Peppermint oil tolerance (8.0)	NA	NA		100	100	8.0
			Meat, Mil	k, Eggs				
Beef, meat**	NA	Beef meat PDP 2009	292/0	0.0005	0.5 (cooking)			0.0005
Beef, meat, dried	NA	Beef meat PDP 2009	292/0	0.0005	1.92			0.0005
Beef, fat	NA	Beef fat PDP 2009	292/0	0.0005	0.5			0.0005
Beef (meat byproducts, liver, kidney)	NA	Beef liver PDP 2001, 2002	624/0	0.0014	0.5			0.0014
Milk, fat	NA	Butter,cream PDP 2012	792/3	0.0005				RDF (Milk_CreamButter)

			No. of			% C	т	Anticipated Residue Estimates/Tolerance (ppm)
Commodity	DEEM Food Form/ (Classification ¹)	Data Source	Samples/ No. of Detectable Residues	½ LOQ/LOD (ppm)	Processing Factors	Ave	Max.	Acute (and Steady State) (Tol., AR, or RDF w/filename)
								Total Samples=792, Total Detects=3, Total LODs=789, Total Zeros=0
Milk, non-fat (non-fat solids, water, sugar)	NA	Milk PDP 2011	743/0	0.0006				0
Pork, meat	NA	Pork meat PDP 2005	352/0	0.0004	0.5			0.00038
								RDF (Pork_Fat) Total Samples=352, Total Detects=1, Total LODs=351,
Pork, fat	NA	Pork fat PDP 2005	352/1	0.0007	0.5			Total Zeros=0
Pork (meat byproducts, liver, kidney)	NA	Pork meat PDP 2005	352/0	0.0004	0.5			0.00038
Poultry, meat	NA	Chicken meat PDP 2006	1310/0	0.0008	0.5			0.00075
Poultry, fat	NA	Chicken fat PDP 2000, 2001	631/0	0.0049	0.5			0.0049
Poultry (meat byproducts, liver, kidney)	NA	Chicken meat PDP 2006	1310/0	0.0008	0.5			0.00075
Eggs	NA	Egg PDP 2010, 2011	742/0	0.0015				0.0015

NB= Not Blended; PB=Partially Blended; B=Blended

* 100% CT assumed for blended commodities when using monitoring data for that specific commodity. ** Values for all beef commodities are applied to beef, goat, sheep, game, and rabbit commodities.

GENERAL RESIDUE INFORMATION:

Residue Distribution Files (RDFs): RDFs were created where appropriate in accordance with The USEPA, HED, DESAC guidance document for *Dietary Exposure Analysis*, November 2011. Translation from commodities with monitoring data to other commodities were also performed where appropriate in accordance with the 9/12/2012 USEPA SOP 2000.1 (*Guidance for Translation of Field Trail Data from Representative Commodities in the Crop Group Regulation to Other Commodities in Each Crop Group/Subgroup, HED Standard Operating Procedure 2000.1*). The section below briefly summarizes the data source used per commodity. For details regarding how RDFs were created with regard to number of actual detects, number and level of ½ LODs (for treated nondetects) and number of zeros (for untreated nondetects), and for the percent crop treated estimates, and other assumptions such as peeling, cooking, or processing factors, please see Table A1a above. For full details on the source of the processing, peeling, and cooking factors, see D388166, 2011.

Percent Crop Treated (%CT): %CT estimates were taken from BEADs May 1, 2014 SLUA report. A separate memorandum (DP#345255, *Addendum to the Screening Level Use Analysis and Update to the Percent of Food Handling Establishments Treated Estimates*, full text found in D388166, 2011, Attachment 3) details %CT estimates for food handling establishments and kiwifruit. For the acute and steady state anticipated residues the maximum %CT estimates were incorporated. A very conservative default 100% CT was assumed for commodities that do not appear on BEADs SLUA report, unless otherwise stated. For crops reported as <2.5% treated, the 2.5 value was used. %CT information, where appropriate, were incorporated into the RDF construction and the point estimate residue calculations.

Residue Data Source by Crop Group (CG)

Root and Tuber Vegetables (CG1)

PDP data exist only for sweet potatoes. 2008-2010 PDP data for fresh sweet potatoes had detectable residues. 2010-2011 PDP data for sweet potato baby food had no detects. The fresh sweet potato data were translated to radish root, rutabaga, turnip root and yam. RDFs were created for these commodities. For sweet potato baby food, the PDP data for the baby food was used to create an RDF file. A peeling factor was used for fresh sweet potatoes and yams.

For sugar beets (consumed as processed blended commodities sugar and molasses), a processing factor of 0.02 was applied to the tolerance of 1 ppm and corrected for 20% crop treated to come up with a residue of 0.004 ppm (see D388166, 2011).

Leaves of Root and Tuber Vegetables (CG2)

In the absence of a more appropriate source of data for root and tuber leaves, the PDP residue data for kale (see leafy Brassica below) were translated to radish tops and turnip tops. This translation should be very conservative as there were detectable residues on kale.

Bulb Vegetables (CG3)

PDP analyzed a total of 744 bulb onion samples in 2011 and 2012 with no detects. An RDF file was created for bulb onions. A point estimate residue was created for the blended commodity dried onion and a drying factor was used.

Brassica Cole Leafy Vegetables (CG5)

A crop group tolerance exists for chlorpyrifos on brassica cole leafy vegetables (CG5) so all crops in this group were included in the analysis. PDP data exist for broccoli, kale, cabbage, cauliflower and collards (2006-2011) with detectable residues found on broccoli, kale, and collards. The appropriate PDP data were translated to other cole commodities as follows: broccoli was translated to Chinese broccoli and Chinese mustard cabbage; cabbage was translated to Brussels sprouts, Chinese napa cabbage, and kohlrabi; kale was translated to broccoli rabi, Chinese bok choy cabbage, mustard greens and rape greens. Cooking factors were applied to the cooked food forms in DEEM/Calendex.

Legume Vegetables Succulents and Dried (CG6)

PDP data (2003-2011) were available for green beans (fresh, baby food, frozen and canned) with detectable residues in fresh green beans. RDFs were created for individual food forms.

PDP data (2011-2012) for snap peas, with detectable residues, were used to create an RDF for snap peas and a point estimate for the blended commodity snap pea seed.

PDP data (2003-2012) were available for sweet peas (frozen, canned, and baby food) with no detectable residues. The frozen pea data were used to create RDFs for fresh and frozen peas. The canned pea data were used to create RDFs for canned peas and for baby food. The baby food data were not used because of the very high levels of detection in that dataset (LODs up to 0.15 ppm vs. up to 0.004 ppm for canned peas). Using inflated LODs may miss actual residues and can skew the exposure estimate (using inflated 1/2LODs in the RDF for treated nondetects).

PDP data (2011) with detectable residues for soybeans were used to create an RDF for soybean commodities and to create a point estimate for the blended commodity soybean oil.

For the blended commodity dry bean seed or dry pea, the tolerance for chlorpyrifos on dry beans was used to calculate a point estimate residue. The tolerance is based on nondetectable residues in the dry bean field trials.

Fruiting Vegetable (CG8)

PDP data (2010-2012) exist for both bell pepper and non-bell pepper with detectable residues. Individual RDFs were created from these data for peppers.

Cucurbit Vegetables (CG9)

PDP data (2009-2012) are available for cucumbers and winter squash with detectable residues. The cucumber data were used to create a cucumber RDF. The winter squash data were translated to pumpkin. A cooking factor was applied to cooked pumpkin foods. The winter squash data were also used to create a point estimate residue for the blended commodity pumpkin seed.

Citrus (CG10)

A crop group tolerance exists for chlorpyrifos on citrus (CG10) so all crops in this group were included in the analysis. PDP data exist for oranges (2009-2010), grapefruit (2005-2006), tangerine (2011-2012) and orange juice (2004-2006 and 2010-2012) with some detectable residues found except in 2011-2012 orange juice. Orange data were translated to citron, citrus hybrid, kumquat, lemon (and peel), lime, orange peel, and pummelo. Orange juice data were translated to other juices using adjustment factors as spelled out in DESAC policy: 1.17 for grapefruit juice, 1.11 for lime juice and lemon juice and 1.28 for tangerine juice. The 2004-2006 orange juice data were used as the 2010-2012 dataset had a high LOD value (up to 0.02 ppm vs. 0.004 ppm for 2004-06 dataset). Using inflated LODs may miss actual residues and can skew the exposure estimate (using inflated 1/2LODs in the RDF for treated nondetects). RDFs were generated for all citrus commodities. Drying factors were used for peels.

Pome Fruits (CG11)

There are PDP data for apples [fresh (2009-2010), apple sauce (2006) and baby food (2012) and apple juice (2007-2008)] with detectable residues only in fresh apples. The fresh apple data were used to create RDFs for apple and apple juice and a point estimate for dried apples (including a drying factor). PDP analyzed a total of 740 apple juice samples during the years 2007-8. Of these samples, none contained detectable residue levels. Since there were no detects the estimated residues are based upon the LOD, not upon real residues, yet apple juice is a critical commodity for exposure. Therefore the data (with actual residues) for the 2009-2010 apples, along with a processing factor for juicing, was used for apple juice, which will yield a more realistic estimate of the actual exposure. A peeling factor was applied to apples eaten peeled. Apple sauce and apple baby food RDFs were based on their respective PDP data.

There are also PDP data for pears [fresh (2009-2010), canned (1999-2000), and baby food (2010-2011)]. The data were used to create RDFs for their respective food forms. In the case of pear juice, the fresh pear data were used, with a juicing factor. There are PDP data for pear juice but there was an insufficient number of samples. Fresh pear data were also used for dried along with a drying factor. A peeling factor was used for fresh pears eaten peeled.

Stone Fruit (CG12)

PDP data are available for fresh cherries (2007) with no detects and were used to create RDFs for cherry food commodities including cherry juice and cherry baby food, along with the appropriate juicing, canning and cooking factors.

PDP data for nectarines (2007-2008), with detectable residues, were used for RDFs for nectarine commodities.

PDP peach data [fresh (2006-2008), canned (2003-2004), and baby food (2012)] were used to create RDFs for the respective peach food forms. Detectable residues were found in fresh peaches and, to a lesser extent, peach baby food. Fresh peach data were used for a blended dried peach point estimate residue, which incorporated a drying factor. Cooked fresh peaches included a canning or cooking factor. Canned peach data were translated to peach juice.

There are PDP data for plums (2011-2012) with detectable residues and prunes (2005-2006) with no detectable residues. These data were used to create RDFs for their respective food forms. The prune data were used for prune juice with a factor applied.

Berries (CG13)

PDP data for fresh cranberries (2006) with detectable residues were used for RDFs for cranberry foods, dried cranberry and cranberry juice. A juicing factor was applied.

There are PDP data for grape [fresh (2009-2010), juice (2008) and raisin (2006-2007)] with detectable residues in grape and raisin. The data were used to create RDFs for their respective food forms. In addition, grape juice data were translated to wine and sherry. For kiwifruit the tolerance level was used to create an RDF incorporating %CT. A peeling factor was also applied.

There are PDP data for fresh strawberries (2008-2009) and frozen strawberries (1998-2000), with detectable residues in fresh strawberries. RDFs were generated from the PDP data for the respective food forms. Fresh strawberry data were also used for juice, with a juicing factor applied.

Tree Nuts (CG14)

There are PDP data for almonds (2007-2008) with detectable residues. The data were used to create RDFs for almond, hazelnut, pecan and walnut. The data were also used to calculate a point estimate residue for the blended commodity almond oil which included a processing factor.

Cereal Grains (CG15)

PDP data for corn grain (2007-2008), with detectable residues, were used to create point estimate residues for field corn blended commodities such as meal, bran, flour and starch. A processing (endosperm washing) factor was applied. The corn grain data were also used for popcorn. A point estimate for corn syrup was also calculated based on PDP data for corn syrup (1998-1999) with no detects.

There are also PDP data on sweet corn [fresh (2008-2010) and canned (2001-2002)] with no detects. These data were used to create RDFs for the respective food forms.

The PDP data (2005-2006) for wheat grain, with detectable residues, were used to create RDFs for wheat grain commodities. Processing factors were used for wheat germ and wheat bran. The

wheat grain data were used to calculate a point estimate residue for the blended commodity wheat flour, along with a processing factor. Although PDP analyzed wheat flour samples during the years 2003-2004, none contained detectable residue levels. The use of high LODs from datasets would lead to an overestimate in actual exposure. The wheat grain data provides a more realistic estimate of residues on wheat flour.

Wheat grain PDP data were also translated to sorghum syrup along with a processing factor.

Oilseeds

A point estimate residue for cottonseed oil was calculated based on field trail data for cotton with a processing factor applied. Sunflower field trial residues were used to calculate point estimate residues for sunflower seeds and sunflower oil. A processing factor was applied for oil.

Miscellaneous

PDP data are available for asparagus [fresh (2008-2010) and canned (2003)] with detectable residues and were used to generate RDFs for the respective food forms. A cooking factor was applied to cooked asparagus.

PDP data are available for banana (2012) with one detectable residue. The data were used to create RDFs for banana food forms including baby food. The data were also used to calculate a point estimate residue for blended dried bananas along with a drying factor.

For figs, the point estimate residue was based on the tolerance level for chlorpyrifos on figs.

For peanuts and peanut oil, the residues from the peanut field trials were used to generate point estimate residue values. A processing factor was used for peanut oil. PDP data on peanut butter (2006; no detectable residue) was used to generate point estimate value.

Tolerance level residues were assumed for peppermint and peppermint oil.

Meat, Milk, Eggs

PDP data (2009; no detects) for beef meat were used to calculate a point estimate for beef meat and dried beef. PDP data for beef liver (2001-2002; no detects) were used to calculate point estimates for beef meat byproducts, liver and kidney. The residue values for beef commodities were also applied to goat, sheep, game, and rabbit commodities.

PDP data for pork meat (2005; no detects) were used to calculate a point estimate for pork meat and was also translated to pork meat byproducts, liver and kidney. PDP data for pork fat (2005; one detect) were used to generate an RDF for pork fat.

PDP data for chicken meat (2006; no detects) were used to calculate a point estimate residue for poultry meat and was translated to poultry meat byproducts, liver and kidney. PDP data for chicken fat (2000-2001; no detects) were used to generate an RDF for poultry fat.

A cooking factor was applied to all cooked meat-based food forms in DEEM/Calendex.

The PDP data for eggs (2010-2011; no detects) were used to calculate a point estimate residue.

The PDP data for butter, cream (2012; three detects) were used to create an RDF for all milkfat food forms.

For non-fat milk (non-fat solids, water, sugar) products residues were assumed to be all zero, based upon no chlorpyrifos detections in thousands of samples in three sampling programs: a market basket study performed by DAS, USDA PDP pesticide monitoring samples and in FDA monitoring. In 2004-5 PDP tested 1485 milk samples and had no detects. In 2011 PDP tested 743 milk samples with no detects (LOD of 0.0012 ppm). In 2005 and 2007 PDP tested a total of 1011 samples of heavy cream (about 37% fat) with no detects at an LOD of 1 ppb. In 2003 PDP tested 732 samples of butter (81% fat) with an LOD of 1.6 ppb and had one trace detect at 2.7 ppb. In 2012 there were three detects out of 792 butter/cream samples (LOD of 1.2 ppb). We note that chlorpyrifos is hydrophobic (log Ko/w = 4.7) and so is expected to concentrate in the fatty (butter, heavy cream) portions of milk. Thus there is strong evidence that no residues (or virtually none) occur in lower fat milk products.

Attachment 2. PDP Findings of Residues (2009-2012*) on Crops for Which Chlorpyrifos is Not Registered.

		Number	Number of		Minimum	Maximum	Average	
		of	Samples with		Concentration	Concentration	Concentration	Ave
	COMMODITY	Samples	Measurable	%	Determined	Determined	for Detects	half
YEAR	NAME ¹	Tested	Residues	Detects	(ppm)	(ppm)	(ppm)	LOD
2010-								
2012	Cantaloupe	1482	3	0.2	0.005	0.014	0.008	0.004
2008-								
2010	Catfish	1479	105	7	0.0034	0.04	0.004	0.0005
2009-	~							
2010	Cilantro	739	218	29	0.022	0.67	0.017	0.0006
	~ .		_					
2009	Green onions	558	7	1.3	0.002	0.067	0.02	0.0006
2010								
2010-	T	1407	2	0.1	0.002	0.070	0.074	0.0010
2011	Lettuce	1487	2	0.1	0.002	0.078	0.074	0.0012
2010	Mango	372	1	0.3	0.005	0.005	0.005	0.0015
2010	Mango	572	1	0.5	0.003	0.005	0.003	0.0015
2009	Spinach	744	15	2	0.0035	0.061	0.01	0.0016
2009	Spinacii	/44	15	2	0.0055	0.001	0.01	0.0010
2010-								
2010-2011	Spinach, frozen	389	4	1	0.024	0.031	0.026	0.01
2011	Spinaen, nozen	507	4	1	0.024	0.031	0.020	0.01
2012	Summer squash	186	1	0.5	0.02	0.02	0.02	0.02
2012	Summer squash	100	1	0.5	0.02	0.02	0.02	0.02
2011-								
2011	Tomato, cherry	1466	13	0.9	0.005	0.047	0.011	0.0015
	for catfish	1100	15	0.7	0.005	0.047	0.011	0.0015

Table A2.

*2008-2012 for catfish

¹there are no tolerances for residues of chlorpyrifos on these commodities

Attachment 3

Date: May 1, 2014
Screening Level Estimates of Agricultural Uses of Chlorpyrifos (059101)
Sorted Alphabetically
Reporting Years: 2004-2012

		Average	Percent Crop Treated	
	Сгор	Lbs. A.I.	Average	Maximum
1	Alfalfa	500,000	5	10
2	Almonds	400,000	25	40
3	Apples	300,000	55	65
4	Asparagus	20,000	40	60
5	Beans, Green	3,000	<2.5	5
6	Broccoli	90,000	45	60
7	Brussels Sprouts*	4,000	NC	NC
8	Cabbage	10,000	15	25
9	Canola	40,000	10	10
10	Cantaloupes+	2,000	<2.5	5
11	Cauliflower	20,000	40	60
12	Cherries	70,000	30	45
13	Corn	1,400,000	<2.5	5
14	Corn (Seed Treatment)	<500	<1	<2.5
15	Cotton	90,000	<2.5	<2.5
16	Cotton (Seed Treatment)	1,000	<2.5	5
17	Cucumbers	3,000	<2.5	5
18	Dry Beans/Peas	9,000	<2.5	5
19	Grapefruit	50,000	20	35
20	Grapes	200,000	10	20
21	Hazelnuts	7,000	15	25
22	Lemons	80,000	35	60
23	Lettuce+	4,000	<2.5	<2.5
24	Nectarines	8,000	10	20
25	Onions	60,000	40	50
26	Oranges	500,000	20	35
27	Peaches	60,000	25	40
28	Peanuts	200,000	5	15
29	Pears	20,000	15	30
30	Peas, Green	2,000	<2.5	<2.5
31	Pecans	300,000	30	40
32	Peppers	2,000	<2.5	5
33	Pistachios+	2,000	<2.5	<2.5
34	Plums/Prunes	20,000	10	15

-			1	1
35	Potatoes	3,000	<1	<2.5
36	Pumpkins	2,000	<2.5	5
37	Sorghum	10,000	<1	<2.5
38	Sorghum (Seed Treatment)	<500	<1	<2.5
39	Soybeans	1,500,000	5	10
40	Soybeans (Seed Treatment)	<500	<1	<2.5
41	Squash+	1,000	<2.5	5
42	Strawberries	10,000	20	35
43	Sugar Beets	100,000	10	20
44	Sunflowers	50,000	5	10
45	Sweet Corn	100,000	10	20
46	Tangelos	2,000	10	15
47	Tangerines	7,000	10	20
48	Tobacco	80,000	15	20
49	Tomatoes+	3,000	<2.5	<2.5
50	Walnuts	400,000	45	55
51	Watermelons+	1,000	<2.5	<2.5
52	Wheat	400,000	5	10
53	Wheat (Seed Treatment)	<500	<1	<2.5

All numbers are rounded.

<500: less than 500 pounds of active ingredients.

<2.5: less than 2.5 percent of crop is treated.

<1: less than 1 percent of crop is treated.

* Based on CA DPR data only (80% or more of U.S. acres grown are in California) NC: not calculated, only pounds a.i. available.

+: Crops not known to be listed on active end use product registrations or as Section 18 emergency exemptions when this report was run.

SLUA data sources include:

USDA-NASS (United States Department of Agriculture's National Agricultural Statistics Service)

Private Pesticide Market Research

California DPR (Department of Pesticide Regulation)

These results reflect amalgamated data developed by the Agency and are releasable to the public.

Attachment 4. Acute (and Steady State) Residue Input file

Filename: C:\Users\ddrew\Documents\DEEM_Version_3_16\ResidueFiles\Scenario1\Chlorpyrifos_FoodOnly
noFHE.R08
Chemical: Chlorpyrifos (Parent Only)

60

RfD(Chronic): .00003 mg/kg bw/day NOEL(Chronic): .03 mg/kg bw/day [Note: placeholder only, not usedl RfD(Acute): .00036 mg/kg bw/day NOEL(Acute): .36 mg/kg bw/day [Note: placeholder only, not usedl Date created/last modified: 08-18-2014/10:54:45 Program ver. 3.16, 03-08-d Comment: chlorpyrifos (parent only); food only (no FHE) ------_____ RDL indices and parameters for Monte Carlo Analysis: Index Dist Parameter #1 Param #2 Param #3 Comment # Code ----- -----1 6 Potato_Sweet.rdf 6 Potato_Sweet_BF.rdf 6 Onion_Bulb.rdf 2 3 6 Broccolito chinese.rdf 4 6 Cabbageto_sprouts_napa_kohlrabi.rdf 5 6 Broccoli.rdf 6 6 Cabbage.rdf 7 8 6 Cauliflower.rdf 6 Collards 6 Kale.rdf 9 Collards.rdf 10 11 6 Soybean Grain.rdf 12 6 Bean_Green_Fresh.rdf 13 6 Bean Green Frozen.rdf Bean Green Canned.rdf 6 14 15 6 Bean Green BF.rdf 6 Pea_Snap.rdf 16 17 6 Pea Sweet Frozen.rdf 6 Pea Sweet Canned.rdf 18 Pea_BF.rdf 19 6 20 6 Bean Garbanzo.rdf 6 21 Pepper_Bell.rdf 22 6 Pepper Nonbell.rdf 6 Cucumber.rdf
6 Squash_Winter_Fresh.rdf 23 24 6 Orangeto othercitrus.rdf 25 6 Orangeto_lemon.rdf 26 27 6 Orange_Juiceto_tangerine.rdf 6 Orange Juiceto lemon.rdf 2.8 29 6 Orange Juiceto lime.rdf 30 6 Grapefruit.rdf 6 Orange.rdf 31 32 6 Orange Juice.rdf 6 Tangerine.rdf 33 34 6 Apple Fresh.rdf 6 Apple_Juice.rdf 35 36 6 Apple Sauce.rdf 6 6 37 Pear.rdf 38 Pear Canned.rdf 39 6 Pear BF.rdf 40 6 Pear Juice.rdf 41 6 Cherry.rdf 6 42 Nectarine.rdf 43 6 Peach Fresh.rdf 44 6 Peach_Canned.rdf 45 6 Plum.rdf 46 6 Plum Prune.rdf 6 Apple_Sauce_BF.rdf 47 6 Almond.rdf 6 Almondto_walnut.rdf 48 49 50 6 Peach BF.rdf 6 Corn_Sweet_Fresh.rdf 51 Corn_Sweet_Frozen_Cooked.rdf Corn_Sweet_Canned.rdf 52 6 6 53 54 6 Wheat Grain.rdf Wheat_Flour.rdf Pork_Fat.rdf 55 6 56 6 Milk.rdf 57 6 6 Chicken_Meat.rdf6 Asparagus.rdf 58 59 6 Asparagus_Canned.rdf

61 6	Banana.rdf					
62 6 63 6	Cranberry.rdf					
63 6 64 6	Grape_Fresh.rdf Grape_Juice.rdf					
65 6	Grape Raisin.rdf					
66 6	PeanutButter.rdf					
67 6	Strawberry Fresh.rdf					
68 6	Strawberry_Frozen.rdf					
	Milk_CreamButter.rdf					
70 6	kiwi.rdf					
EPA	Crop Commodity Name	Def Res	∆di ⊑a	ctors	PDIC	ommont
Code	Grp	(ppm)	#1	#2	Pntr	
	-					
0101052000	1A Beet, sugar	0.004000	1.000	1.000		
	1A Beet, sugar-babyfood	0.004000	1.000	1.000		
	1A Beet, sugar, molasses	0.004000				
	1A Beet, sugar, molasses-babyfood	0.004000				
	1AB Radish, roots	1.000000	1.000	1.000	1	Potato
	omment: Potato_Sweet.rdf 1AB Rutabaga	1.000000	1 000	1.000	1	Potato
	omment: Potato Sweet.rdf	1.000000	1.000	1.000	-	100400
	1AB Turnip, roots	1.000000	1.000	1.000	1	Potato
	omment: Potato_Sweet.rdf					
0103366000	1CD Sweet potato					
	210-Cooked; Fresh or N/S; Cool		0 4 5 0		_	
	Tull comments Detete Queet udf	1.000000	0.150	1.000	1	Potato
	Full comment: Potato_Sweet.rdf 211-Cooked; Fresh or N/S; Bake	d				
	211 COOKed, Flesh of N/S, Bake	1.000000	0.150	1.000	1	Potato
	Full comment: Potato Sweet.rdf	1.000000	0.200	1.000	-	200000
	212-Cooked; Fresh or N/S; Boil	Led				
		1.000000	0.150	1.000	1	Potato
	Full comment: Potato_Sweet.rdf					
	213-Cooked; Fresh or N/S; Frie		0 1 5 0	1 000	-	
	Full comment: Potato Sweet.rdf	1.000000	0.150	1.000	T	Potato
	215-Cooked; Fresh or N/S; Boil	led/baked				
		1.000000	0.150	1.000	1	Potato
	Full comment: Potato Sweet.rdf					
	240-Cooked; Canned; Cook Meth					
		1.000000	0.150	1.000	1	Potato
	Full comment: Potato_Sweet.rdf	1 000000	0 1 5 0	1 000	1	Detete
	242-Cooked; Canned; Boiled Full comment: Potato Sweet.rdf	1.000000	0.150	1.000	Ţ	Potato
0103366001	1CD Sweet potato-babyfood					
0100000001	211-Cooked; Fresh or N/S; Bake	ed				
			1.000	1.000	2	Potato
	Full comment: Potato_Sweet_BF.rdf					
	240-Cooked; Canned; Cook Meth					
		1.000000	1.000	1.000	2	Potato
0103406000	Full comment: Potato_Sweet_BF.rdf 1CD Yam, true	1.000000	0 150	1.000	1	Potato
	omment: Potato Sweet.rdf	1.000000	0.130	1.000	T	FOLALO
	2 Radish, tops	1.000000	1.000	1.000	10	Kale.r
	omment: Kale.rdf					
0301165000	3A Garlic, bulb	1.000000	1.000	1.000	3	Onion_
	omment: Onion_Bulb.rdf					
	3A Garlic, bulb-babyfood	1.000000	1.000	1.000	3	Onion_
	omment: Onion_Bulb.rdf 3A Onion, bulb	1.000000	1.000	1.000	3	Onion
	JA Onion, bulb omment: Onion Bulb.rdf	1.000000	T.000	1.000	3	0111011
0301237001	3A Onion, bulb-babyfood	1.000000	1.000	1.000	3	Onion
	omment: Onion Bulb.rdf				-	· · · · -
0301238000	3A Onion, bulb, dried	0.003900	9.000	1.000		
	3A Onion, bulb, dried-babyfood	0.003900		1.000		
	3A Shallot, bulb	1.000000	1.000	1.000	3	Onion_
	omment: Onion_Bulb.rdf					
0501061000	5A Broccoli 110-Uncooked; Fresh or N/S; Co	ook Meth N/9				
	III UNCOURCE, FIESH OF N/S, CC	1.000000	1.000	1.000	6	Brocco
					-	

Full comment: Broccoli.rdf				
210-Cooked; Fresh or N/S; Cook Meth N/S 1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf 211-Cooked; Fresh or N/S; Baked	0.910	2.000	0	210000
1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf 212-Cooked; Fresh or N/S; Boiled				
1.000000 Full comment: Broccoli.rdf	0.940	1.000	6	Brocco
213-Cooked; Fresh or N/S; Fried 1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf	0.940	1.000	0	BIOCCO
220-Cooked; Frozen; Cook Meth N/S 1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf 221-Cooked; Frozen; Baked 1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf 222-Cooked; Frozen; Boiled 1.000000	0.940	1.000	6	Brocco
Full comment: Broccoli.rdf				
232-Cooked; Dried; Boiled 1.000000 Full comment: Broccoli.rdf	0.940	1.000	6	Brocco
242-Cooked; Canned; Boiled 1.000000 Full comment: Broccoli.rdf	0.940	1.000	6	Brocco
0501061001 5A Broccoli-babyfood 1.000000 Full comment: Broccoli.rdf	0.940	1.000	6	Brocco
0501062000 5A Broccoli, Chinese 1.000000	0.940	1.000	4	Brocco
Full comment: Broccolito_chinese.rdf 0501064000 5A Brussels sprouts				
110-Uncooked; Fresh or N/S; Cook Meth N/S 1.000000		1.000	5	
212-Cooked; Fresh or N/S; Boiled			E	
1.000000 222-Cooked; Frozen; Boiled 1.000000		1.000 1.000	5 5	
0501069000 5A Cabbage 110-Uncooked; Fresh or N/S; Cook Meth N/S				
1.000000 Full comment: Cabbage.rdf	1.000	1.000	7	Cabbag
150-Uncooked; Cured etc; Cook Meth N/S	1 000	1 000	7	Q . h h
1.000000 Full comment: Cabbage.rdf	1.000	1.000	7	Cabbag
210-Cooked; Fresh or N/S; Cook Meth N/S 1.000000	0.830	1.000	7	Cabbag
Full comment: Cabbage.rdf 211-Cooked; Fresh or N/S; Baked				
1.000000	0.830	1.000	7	Cabbag
Full comment: Cabbage.rdf 212-Cooked; Fresh or N/S; Boiled				
1.000000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
213-Cooked; Fresh or N/S; Fried	0 0 0 0	1 0 0 0	-	a 11
1.000000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
221-Cooked; Frozen; Baked 1.000000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
230-Cooked; Dried; Cook Meth N/S	0 0 2 0	1 000	7	Calabaa
1.000000 Full comment: Cabbage.rdf	0.830		7	Cabbag
232-Cooked; Dried; Boiled 1.000000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
240-Cooked; Canned; Cook Meth N/S 1.000000	U 830	1.000	7	Cabbaq
Full comment: Cabbage.rdf				-
242-Cooked; Canned; Boiled 1.000000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
245-Cooked; Canned; Boiled/baked 1.000000	0.830	1.000	7	Cabbag
Full comment: Cabbage.rdf 250-Cooked; Cured etc; Cook Meth N/S				
1.000000	0.830	1.000	7	Cabbag
Full comment: Cabbage.rdf				

255-Cooked; Cured etc; Boiled/baked	000 0 020	1 000	7	Cabbar
1.0000 Full comment: Cabbage.rdf	0.830	1.000	7	Cabbag
0501071000 5A Cabbage, Chinese, napa				
110-Uncooked; Fresh or N/S; Cook Meth			_	
1.0000 Full comment: Cabbageto sprouts napa kohlrabi		1.000	5	Cabbag
150-Uncooked; Cured etc; Cook Meth N/S				
1.0000		1.000	5	Cabbag
Full comment: Cabbageto_sprouts_napa_kohlrab 210-Cooked; Fresh or N/S; Cook Meth N/				
210-Cooked; Fresh or N/S; Cook Meth N/ 1.0000		1.000	5	Cabbaq
Full comment: Cabbageto_sprouts_napa_kohlrabi			-	
213-Cooked; Fresh or N/S; Fried				
1.0000 Full comment: Cabbageto sprouts napa kohlrabi		1.000	5	Cabbag
221-Cooked; Frozen; Baked 1.0000		1.000	5	Cabbaq
Full comment: Cabbageto_sprouts_napa_kohlrab	.rdf			2
0501072000 5A Cabbage, Chinese, mustard				
110-Uncooked; Fresh or N/S; Cook Meth 1.0000		1.000	4	Brocco
Full comment: Broccolito chinese.rdf	1.000	1.000	T	BIOCCO
150-Uncooked; Cured etc; Cook Meth N/S				
1.0000	000 1.000	1.000	4	Brocco
Full comment: Broccolito_chinese.rdf 210-Cooked; Fresh or N/S; Cook Meth N/	(q			
210 COOKed, Flesh of N/S, Cook Meth N/ 1.000(1.000	4	Brocco
Full comment: Broccolito_chinese.rdf				
213-Cooked; Fresh or N/S; Fried		1 0 0 0		-
1.0000 Full comment: Broccolito chinese.rdf	0.940	1.000	4	Brocco
221-Cooked; Frozen; Baked 1.0000	0.940	1.000	4	Brocco
Full comment: Broccolito_chinese.rdf				
0501083000 5A Cauliflower				
110-Uncooked; Fresh or N/S; Cook Meth 1.0000		1.000	8	Caulif
Full comment: Cauliflower.rdf	1.000	1.000	0	Cautti
150-Uncooked; Cured etc; Cook Meth N/S				
1.0000	000 1.000	1.000	8	Caulif
Full comment: Cauliflower.rdf 210-Cooked; Fresh or N/S; Cook Meth N/	's			
1.000		1.000	8	Caulif
Full comment: Cauliflower.rdf				
211-Cooked; Fresh or N/S; Baked		1 0 0 0	0	a
1.0000 Full comment: Cauliflower.rdf	0.940	1.000	8	Caulif
212-Cooked; Fresh or N/S; Boiled				
1.0000	0.940	1.000	8	Caulif
Full comment: Cauliflower.rdf				
213-Cooked; Fresh or N/S; Fried 1.0000	00 0.940	1.000	8	Caulif
Full comment: Cauliflower.rdf			-	
221-Cooked; Frozen; Baked 1.0000	0.940	1.000	8	Caulif
Full comment: Cauliflower.rdf 222-Cooked; Frozen; Boiled 1.0000	00 0.940	1.000	8	Caulif
Full comment: Cauliflower.rdf	0.940	1.000	0	Caulli
242-Cooked; Canned; Boiled 1.0000	000 0.940	1.000	8	Caulif
Full comment: Cauliflower.rdf				
250-Cooked; Cured etc; Cook Meth N/S 1.0000	00 0 940	1.000	8	Caulif
Full comment: Cauliflower.rdf	0.940	1.000	0	Cautti
0501196000 5A Kohlrabi 1.0000	0.830	1.000	5	Cabbag
Full comment: Cabbageto_sprouts_napa_kohlrabi.rfd		1 000	1.0	77 - 1 -
0502063000 5B Broccoli raab 1.0000 Full comment: Kale.rdf	0.830	1.000	ΤU	Kale.r
0502070000 5B Cabbage, Chinese, bok choy				
110-Uncooked; Fresh or N/S; Cook Meth				-
Eull commont: Kalo rdf	1.000	1.000	10	Kale.r
Full comment: Kale.rdf 150-Uncooked; Cured etc; Cook Meth N/S	3			
1.0000		1.000	10	Kale.r

Full comment: Kale.rdf 210-Cooked; Fresh or N/S; Cook	Meth N/S				
Full comment: Kale.rdf	1.000000	0.830	1.000	10	Kale.r
213-Cooked; Fresh or N/S; Frie	d 1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 221-Cooked; Frozen; Baked	1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 0502117000 5B Collards					
110-Uncooked; Fresh or N/S; Co	ok Meth N/S 1.000000	1.000	1.000	9	Collar
Full comment: Collards.rdf 212-Cooked; Fresh or N/S; Boil	ed				
Full comment: Collards.rdf	1.000000	0.830	1.000	9	Collar
222-Cooked; Frozen; Boiled Full comment: Collards.rdf	1.000000	0.830	1.000	9	Collar
242-Cooked; Canned; Boiled Full comment: Collards.rdf	1.000000	0.830	1.000	9	Collar
0502194000 5B Kale					
212-Cooked; Fresh or N/S; Boil	ed 1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 222-Cooked; Frozen; Boiled	1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 242-Cooked; Canned; Boiled	1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 0502229000 5B Mustard greens					
110-Uncooked; Fresh or N/S; Co	ok Meth N/S 1.000000	1.000	1.000	10	Kale.r
Full comment: Kale.rdf	1				
212-Cooked; Fresh or N/S; Boil Full comment: Kale.rdf	1.000000	0.830	1.000	10	Kale.r
222-Cooked; Frozen; Boiled Full comment: Kale.rdf	1.000000	0.830	1.000	10	Kale.r
242-Cooked; Canned; Boiled Full comment: Kale.rdf	1.000000	0.830	1.000	10	Kale.r
0502318000 5B Rape greens	1.000000	0.830	1.000	10	Kale.r
Full comment: Kale.rdf 0502389000 5B Turnip, greens	1.000000	1.000	1.000	10	Kale.r
Full comment: Kale.rdf 0600347000 6 Soybean, seed	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0600349000 6 Soybean, soy milk	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0600349001 6 Soybean, soy milk-babyfood or in	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0600350000 6 Soybean, oil	1.000000	0.140	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0600350001 6 Soybean, oil-babyfood	1.000000	0.140	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0601043000 6A Bean, snap, succulent	- h Matha M (O				
110-Uncooked; Fresh or N/S; Co	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 210-Cooked; Fresh or N/S; Cook	Meth N/S 1.000000	1 000	1.000	12	Bean G
Full comment: Bean_Green_Fresh.rdf 211-Cooked; Fresh or N/S; Bake					0
	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 212-Cooked; Fresh or N/S; Boil		1 000	1 000	1 0	Door C
Full comment: Bean_Green_Fresh.rdf	1.000000	T.000	1.000	12	Bean_G
213-Cooked; Fresh or N/S; Frie	d 1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 215-Cooked; Fresh or N/S; Boil					
	1.000000	1.000	1.000	12	Bean_G

Full comment: Bean_Green_Fresh.rdf 220-Cooked; Frozen; Cook Meth 1	N/S				
Full comment: Bean Green Fresh.rdf	1.000000	1.000	1.000	12	Bean_G
221-Cooked; Frozen; Baked Full comment: Bean Green Frozen.rdf	1.000000	1.000	1.000	13	Bean_G
222-Cooked; Frozen; Boiled	1.000000	1.000	1.000	13	Bean_G
Full comment: Bean_Green_Frozen.rdf 232-Cooked; Dried; Boiled	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 240-Cooked; Canned; Cook Meth 1	N/S 1.000000	1.000	1.000	14	Bean G
Full comment: Bean_Green_Canned.rdf					—
242-Cooked; Canned; Boiled Full comment: Bean_Green_Canned.rdf	1.000000	1.000	1.000	14	Bean_G
0601043001 6A Bean, snap, succulent-babyfood Full comment: Bean_Green_BF.rdf	1.000000	1.000	1.000	15	Bean_G
0601257000 6A Pea, edible podded, succulent Full comment: Pea Sweet Frozen.rdf	1.000000	1.000	1.000	17	Pea_Sw
0601349500 6AB Soybean, vegetable	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf 0602031000 6B Bean, broad, succulent	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 0602033000 6B Bean, cowpea, succulent	1.000000	1.000	1.000	20	_ Bean G
Full comment: Bean_Garbanzo.rdf	1.000000	1.000	1.000	20	bean_g
0602037000 6B Bean, lima, succulent 210-Cooked; Fresh or N/S; Cook	Meth N/S				
	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 212-Cooked; Fresh or N/S; Boil	ed				
	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 213-Cooked; Fresh or N/S; Frie	d				
	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 220-Cooked; Frozen; Cook Meth 3	N/S				
	1.000000	1.000	1.000	12	Bean_G
Full comment: Bean_Green_Fresh.rdf 221-Cooked; Frozen; Baked	1.000000	1.000	1.000	13	Bean G
Full comment: Bean_Green_Frozen.rdf 222-Cooked; Frozen; Boiled	1.000000	1.000	1.000	13	_ Bean G
Full comment: Bean_Green_Frozen.rdf		1.000	1.000	13	bean_G
240-Cooked; Canned; Cook Meth	N/S 1.000000	1.000	1.000	14	Bean G
Full comment: Bean_Green_Canned.rdf	1.000000	1.000	1.000	11	Dean_0
242-Cooked; Canned; Boiled Full comment: Bean Green Canned.rdf	1.000000	1.000	1.000	14	Bean_G
0602255000 6B Pea, succulent					
110-Uncooked; Fresh or N/S; Co	ok Meth N/S 1.000000	1.000	1.000	17	Pea Sw
Full comment: Pea_Sweet_Frozen.rdf	Math N/C				-
210-Cooked; Fresh or N/S; Cook	1.000000	1.000	1.000	17	Pea Sw
Full comment: Pea_Sweet_Frozen.rdf	-1				-
211-Cooked; Fresh or N/S; Bake	a 1.000000	1.000	1.000	17	Pea Sw
Full comment: Pea_Sweet_Frozen.rdf	- 1				_
212-Cooked; Fresh or N/S; Boil	ea 1.000000	1.000	1.000	17	Pea Sw
Full comment: Pea_Sweet_Frozen.rdf 213-Cooked; Fresh or N/S; Frie	d				_
215-COOKed, Flesh of N/S, File	1.000000	1.000	1.000	17	Pea Sw
Full comment: Pea_Sweet_Frozen.rdf 221-Cooked; Frozen; Baked	1.000000	1.000	1.000	17	- Pea Sw
Full comment: Pea_Sweet_Frozen.rdf					_
222-Cooked; Frozen; Boiled Full comment: Pea_Sweet_Frozen.rdf	1.000000	1.000	1.000	17	Pea_Sw
232-Cooked; Dried; Boiled	1.000000	1.000	1.000	17	Pea_Sw
Full comment: Pea_Sweet_Frozen.rdf 240-Cooked; Canned; Cook Meth :	N/S				
	1.000000	1.000	1.000	18	Pea_Sw

Full comment: Pea Sweet Canned.rdf					
242-Cooked; Canned; Boiled	1.000000	1.000	1.000	18	Pea Sw
Full comment: Pea Sweet Canned.rdf					
0602255001 6B Pea, succulent-babyfood	1.000000	1.000	1.000	18	Pea_Sw
Full comment: Pea_Sweet_canned.rdf					
0602259000 6B Pea, pigeon, succulent	lad				
212-Cooked; Fresh or N/S; Boil	1.000000	1.000	1.000	18	Pea Sw
Full comment: Pea Sweet Canned.rdf	1.000000	1.000	1.000	10	rea_sw
242-Cooked; Canned; Boiled	1.000000	1.000	1.000	18	Pea Sw
Full comment: Pea Sweet Canned.rdf					-
0603030000 6C Bean, black, seed	0.001250	1.000	1.000		
0603032000 6C Bean, broad, seed	0.001250	1.000	1.000		
0603034000 6C Bean, cowpea, seed	0.001250	1.000	1.000		
0603035000 6C Bean, great northern, seed 0603036000 6C Bean, kidney, seed	0.001250 0.001250	1.000	1.000 1.000		
0603038000 6C Bean, lima, seed	0.001250		1.000		
0603039000 6C Bean, mung, seed	0.001250		1.000		
0603040000 6C Bean, navy, seed	0.001250		1.000		
0603041000 6C Bean, pink, seed	0.001250	1.000	1.000		
0603042000 6C Bean, pinto, seed	0.001250		1.000		
0603098000 6C Chickpea, seed	0.001250		1.000		
0603098001 6C Chickpea, seed-babyfood	0.001250	1.000	1.000		
0603099000 6C Chickpea, flour	0.001250		1.000		
0603182000 6C Guar, seed 0603182001 6C Guar, seed-babyfood	0.001250		1.000		
0603182001 6C Guar, seed-babyfood 0603203000 6C Lentil, seed	0.001250 0.001250		1.000 1.000		
0603256000 6C Pea, dry	0.001250		1.000		
0603256001 6C Pea, dry-babyfood	0.001250		1.000		
0603258000 6C Pea, pigeon, seed	0.001250		1.000		
0603348000 6C Soybean, flour	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf					
0603348001 6C Soybean, flour-babyfood	1.000000	1.000	1.000	11	Soybea
Full comment: Soybean_Grain.rdf	1 000000	1 0 0 0	1 000	0.1	_
0802270000 8B Pepper, bell Full comment: Pepper Bell.rdf	1.000000	1.000	1.000	21	Pepper
0802270001 8B Pepper, bell-babyfood	1.000000	1.000	1.000	21	Pepper
Full comment: Pepper Bell.rdf	1.000000	1.000	1.000		repper
0802271000 8B Pepper, bell, dried	1.000000	1.000	1.000	21	Pepper
Full comment: Pepper_Bell.rdf					
0802271001 8B Pepper, bell, dried-babyfood	1.000000	1.000	1.000	21	Pepper
Full comment: Pepper_Bell.rdf				~ ~	_
0802272000 8BC Pepper, nonbell Full comment: Pepper Nonbell.rdf	1.000000	1.000	1.000	22	Pepper
0802272001 8BC Pepper, nonbell-babyfood	1.000000	1.000	1.000	22	Pepper
Full comment: Pepper Nonbell.rdf	1.000000	1.000	1.000	22	repper
0802273000 8BC Pepper, nonbell, dried	1.000000	1.000	1.000	22	Pepper
Full comment: Pepper_Nonbell.rdf					
0902135000 9B Cucumber	1.000000	1.000	1.000	23	Cucumb
Full comment: Cucumber.rdf					
0902308000 9B Pumpkin	1.000000	0.320	1.000	24	Squash
Full comment: Squash_Winter_Fresh.rdf 0902309000 9B Pumpkin, seed	0.000200	1.000	1.000		
1001106000 10A Citron	1.000000	1.000		25	Orange
Full comment: Orangeto_othercitrus.rdf	1.000000	1.000	1.000	20	orange
1001107000 10A Citrus hybrids	1.000000	1.000	1.000	25	Orange
Full comment: Orangeto_othercitrus.rdf					-
1001240000 10A Orange	1.000000	1.000	1.000	31	Orange
Full comment: Orange.rdf				~ ~	
1001241000 10A Orange, juice Full comment: Orange Juice.rdf	1.000000	1.000	1.000	32	Orange
1001241001 10A Orange, juice-babyfood	1.000000	1.000	1.000	32	Orange
Full comment: Orange Juice-Daby1000	1.000000	1.000	1.000	52	Stange
1001242000 10A Orange, peel	1.000000	15.000	1.000	31	Orange
Full comment: Orange.rdf					2
1001369000 10A Tangerine	1.000000	1.000	1.000	33	Tanger
Full comment: Tangerine.rdf				o –	
1001370000 10A Tangerine, juice	1.000000	1.280	1.000	27	Orange
Full comment: Orange_Juiceto_Tangerine.rfd 1002197000 10B Kumquat	1.000000	1.000	1.000	25	Orange
Full comment: Orangeto othercitrus.rdf	1.000000	T.000	T.000	20	orange

1002199000 10B Lemon	1.000000	1.000	1.000	26	Orange
Full comment: Orangeto_lemon.rdf 1002200000 10B Lemon, juice	1.000000	1.110	1.000	28	Orange
Full comment: Orange_Juiceto_lemon.rdf 1002200001 10B Lemon, juice-babyfood Full comment: Orange Juiceto lemon.rdf	1.000000	1.110	1.000	28	Orange
1002201000 10B Lemon, peel Full comment: Orangeto lemon.rdf	1.000000	15.000	1.000	26	Orange
1002206000 10B Lime	1.000000	1.000	1.000	25	Orange
Full comment: Orangeto_othercitrus.rdf 1002207000 10B Lime, juice Full comment: Orange Juiceto lime.rdf	1.000000	1.110	1.000	29	Orange
1002207001 10B Lime, juice-babyfood Full comment: Orange Juiceto lime.rdf	1.000000	1.110	1.000	29	Orange
1003180000 10C Grapefruit Full comment: Grapefruit.rdf	1.000000	1.000	1.000	30	Grapef
1003181000 10C Grapefruit, juice Full comment: Orange Juice.rdf	1.000000	1.170	1.000	32	Orange
1003307000 10C Pummelo Full comment: Orangeto othercitrus.rdf	1.000000	1.000	1.000	25	Orange
1100007000 11 Apple, fruit with peel Full comment: Apple Fresh.rdf	1.000000	1.000	1.000	34	Apple_
1100008000 11 Apple, peeled fruit Full comment: Apple Fresh.rdf	1.000000	0.150	1.000	34	Apple_
Full comment: Apple_Fresh.rdi 1100008001 11 Apple, peeled fruit-babyfood Full comment: Apple Fresh.rdf	1.000000	0.150	1.000	34	Apple_
1100009000 11 Apple, dried	0.000600	1.200	1.000		
1100009001 11 Apple, dried-babyfood	0.000600	1.200	1.000		
1100010000 11 Apple, juice	1.000000	0.150	1.000	34	Apple
Full comment: Apple_Fresh.rdf 1100010001 11 Apple, juice-babyfood	1.000000	0.150	1.000	34	Apple_
Full comment: Apple_Fresh.rdf 1100011000 11 Apple, sauce	1.000000	1.000	1.000	36	Apple_
Full comment: Apple_Sauce.rdf 1100011001 11 Apple, sauce-babyfood	1.000000	1.000	1.000	47	Apple_
Full comment: Apple_Sauce_BF.rdf					
1100266000 11 Pear					
	ok Meth N/S	1.000	1.000	37	Pear.r
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf	1.000000	1.000	1.000	37	Pear.r
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook	1.000000		1.000	37 37	Pear.r Pear.r
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf	1.000000 Meth N/S 1.000000				
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf	1.000000 Meth N/S 1.000000	0.150			
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf 211-Cooked; Fresh or N/S; Bake	1.000000 Meth N/S 1.000000 d 1.000000 N/S	0.150	1.000	37 37	Pear.r Pear.r
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf 211-Cooked; Fresh or N/S; Bake Full comment: Pear.rdf 240-Cooked; Canned; Cook Meth Full comment: Pear_Canned.rdf	1.000000 Meth N/S 1.000000 d 1.000000 N/S 1.000000	0.150 0.150 1.000	1.000 1.000 1.000	37 37 38	Pear.r Pear.r Pear_C
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf 211-Cooked; Fresh or N/S; Bake Full comment: Pear.rdf 240-Cooked; Canned; Cook Meth	1.000000 Meth N/S 1.000000 d 1.000000 N/S	0.150 0.150 1.000	1.000	37 37 38	Pear.r Pear.r
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf 211-Cooked; Fresh or N/S; Bake Full comment: Pear.rdf 240-Cooked; Canned; Cook Meth Full comment: Pear_Canned.rdf 1100266001 11 Pear-babyfood Full comment: Pear_BF.rdf 1100267000 11 Pear, dried	1.000000 Meth N/S 1.000000 d 1.000000 N/S 1.000000 1.000000 0.000500	0.150 0.150 1.000 1.000 0.930	1.000 1.000 1.000 1.000 1.000	37 37 38 39	Pear.r Pear.r Pear_C Pear_B
1100266000 11 Pear 110-Uncooked; Fresh or N/S; Co Full comment: Pear.rdf 210-Cooked; Fresh or N/S; Cook Full comment: Pear.rdf 211-Cooked; Fresh or N/S; Bake Full comment: Pear.rdf 240-Cooked; Canned; Cook Meth Full comment: Pear_Canned.rdf 1100266001 11 Pear-babyfood Full comment: Pear_BF.rdf 1100267000 11 Pear, dried 1100268000 11 Pear, juice	1.000000 Meth N/S 1.000000 d 1.000000 N/S 1.000000 1.000000	0.150 0.150 1.000 1.000 0.930	1.000 1.000 1.000 1.000	37 37 38 39	Pear.r Pear.r Pear_C
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 d 1.000000 N/S 1.000000 1.000000 0.000500	0.150 0.150 1.000 1.000 0.930 0.150	1.000 1.000 1.000 1.000 1.000 1.000	37 37 38 39 37	Pear.r Pear.r Pear_C Pear_B
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 d 1.000000 1.000000 0.000500 1.000000 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 0.150	1.000 1.000 1.000 1.000 1.000 1.000	37 37 38 39 37	Pear.r Pear_C Pear_B Pear.r
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 d 1.000000 1.000000 0.000500 1.000000 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 0.150	1.000 1.000 1.000 1.000 1.000 1.000	37 37 38 39 37 37	Pear.r Pear_C Pear_B Pear.r
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 d 1.000000 1.000000 0.000500 1.000000 1.000000 0.000500 1.000000 0.000500 1.000000 0.000500	0.150 0.150 1.000 1.000 0.930 0.150 0.150 1.000	1.000 1.000 1.000 1.000 1.000 1.000	37 37 38 39 37 37 41	Pear.r Pear_C Pear_B Pear.r Pear.r Cherry
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 N/S 1.000000 1.000000 0.000500 1.000000 1.000000 0 Meth N/S 1.000000 h N/S 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 0.150 1.000	1.000 1.000 1.000 1.000 1.000 1.000	37 37 38 39 37 37 41	Pear.r Pear_C Pear_B Pear.r Pear.r
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 N/S 1.000000 1.000000 0.000500 1.000000 1.000000 0 Meth N/S 1.000000 h N/S 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	 37 37 38 39 37 37 37 41 41 	Pear.r Pear_C Pear_B Pear.r Pear.r Cherry
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 N/S 1.000000 0.000500 1.000000 1.000000 1.000000 h N/S 1.000000 h N/S 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 1.000 1.000 1.160	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 37 37 38 39 37 37 41 41 41 	Pear.r Pear_C Pear_B Pear.r Pear.r Cherry Cherry Cherry
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 N/S 1.000000 0.000500 1.000000 1.000000 1.000000 h N/S 1.000000 h N/S 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 1.000 1.000 1.160	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 37 37 38 39 37 37 41 41 41 	Pear.r Pear_C Pear_B Pear.r Pear.r Cherry Cherry
<pre>1100266000 11 Pear</pre>	1.000000 Meth N/S 1.000000 N/S 1.000000 1.000000 0.000500 1.000000 1.000000 h N/S 1.000000 h N/S 1.000000 Meth N/S 1.000000	0.150 0.150 1.000 1.000 0.930 0.150 1.000 1.000 1.160 1.160	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 37 37 38 39 37 37 41 41 41 41 	Pear.r Pear_C Pear_B Pear.r Pear.r Cherry Cherry Cherry

Full commont. Charge adf					
Full comment: Cherry.rdf 223-Cooked; Frozen; Fried	1.000000	1.160	1.000	41	Cherry
Full comment: Cherry.rdf	1.000000	1.100	1.000		0110111
240-Cooked; Canned; Cook Me					
Full comment: Cherry.rdf	1.000000	0.590	1.000	41	Cherry
241-Cooked; Canned; Baked	1.000000	0.590	1.000	41	Cherry
Full comment: Cherry.rdf					
1201090001 12A Cherry-babyfood Full comment: Cherry.rdf	1.000000	0.590	1.000	41	Cherry
1201091000 12A Cherry, juice	1.000000	0.300	1.000	41	Cherry
Full comment: Cherry.rdf					1
1201091001 12A Cherry, juice-babyfood	1.000000	0.300	1.000	41	Cherry
Full comment: Cherry.rdf 1202230000 12B Nectarine	1.000000	1.000	1.000	42	Nectar
Full comment: Nectarine.rdf					
1202260000 12B Peach					
110-Uncooked; Fresh or N/S;	Cook Meth N/S 1.000000	1 000	1.000	43	Peach
Full comment: Peach Fresh.rdf	1.000000	1.000	1.000	15	reach_
120-Uncooked; Frozen; Cook I	Meth N/S				
	1.000000	1.000	1.000	43	Peach_
Full comment: Peach_Fresh.rdf 130-Uncooked; Dried; Cook Mo	eth N/S				
150 Sheeoked, Bried, Cook h	1.000000	1.000	1.000	43	Peach
Full comment: Peach_Fresh.rdf					-
210-Cooked; Fresh or N/S; Co		0 500	1 0 0 0	4.0	
Full comment: Peach Fresh.rdf	1.000000	0.500	1.000	43	Peach_
211-Cooked; Fresh or N/S; Ba	aked				
	1.000000	0.500	1.000	43	Peach_
Full comment: Peach_Fresh.rdf					
213-Cooked; Fresh or N/S; F:	1.000000	0 500	1.000	43	Peach
Full comment: Peach Fresh.rdf	1.000000	0.000	1.000	15	reach_
223-Cooked; Frozen; Fried	1.000000	0.500	1.000	43	Peach_
Full comment: Peach_Fresh.rdf		0.500	1.000	43	Peach_
	h N/S				_
Full comment: Peach_Fresh.rdf			1.000	43 43	Peach_ Peach_
Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth	h N/S 1.000000 th N/S	0.500	1.000	43	- Peach_
Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Metl Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Met	h N/S 1.000000	0.500		43	_
<pre>Full comment: Peach_Fresh.rdf</pre>	h N/S 1.000000 th N/S 1.000000	0.500 0.520	1.000	43 44	- Peach_ Peach_
Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Metl Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Met	h N/S 1.000000 th N/S	0.500 0.520	1.000	43 44	- Peach_
<pre>Full comment: Peach_Fresh.rdf</pre>	h N/S 1.000000 th N/S 1.000000 1.000000 0.003800	0.500 0.520 0.520 7.000	1.000 1.000 1.000 1.000	43 44	- Peach_ Peach_
Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried 1202261001 12B Peach, dried	h N/S 1.000000 th N/S 1.000000 1.000000 0.003800 0.003800	0.500 0.520 0.520 7.000 7.000	1.000 1.000 1.000 1.000 1.000	43 44 50	- Peach_ Peach_ Peach_
<pre>Full comment: Peach_Fresh.rdf</pre>	h N/S 1.000000 th N/S 1.000000 1.000000 0.003800	0.500 0.520 0.520 7.000	1.000 1.000 1.000 1.000 1.000	43 44	- Peach_ Peach_
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<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried 1202261001 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000	0.500 0.520 0.520 7.000 7.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	43 44 50 44 44	- Peach_ Peach_ Peach_ Peach_ Peach_
<pre>Full comment: Peach_Fresh.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000	0.500 0.520 0.520 7.000 7.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	43 44 50 44	- Peach_ Peach_ Peach_ Peach_
<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried 1202261001 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000	0.500 0.520 0.520 7.000 7.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000	43 44 50 44 44	- Peach_ Peach_ Peach_ Peach_ Peach_
<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried 1202261001 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285001 12C Plum-babyfood Full comment: Plum.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 43 44 50 44 45 45 	Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r Plum.r
<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried-babyfood 1202262000 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285001 12C Plum-babyfood Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000	43 44 50 44 44 45	Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r
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<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried 1202262000 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285001 12C Plum-babyfood Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh Full comment: Plum.rdf 1203286001 12C Plum, prune, fresh-babyfood Full comment: Plum.rdf 1203286001 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum.rdf 1203287001 12C Plum, prune, dried Full comment: Plum.rdf 1203287001 12C Plum, prune, dried Full comment: Plum_Prune.rdf 1203287001 12C Plum, prune, dried-babyfood Full comment: Plum_Prune.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 43 44 50 44 45 45 45 45 45 46 46 	Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r Plum.r Plum.r Plum.r Plum.r Plum.p Plum_P
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<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262000 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh-babyfood Full comment: Plum.rdf 1203286001 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum_Prune.rdf 1203287001 12C Plum, prune, dried Full comment: Plum_Prune.rdf 120328000 12C Plum, prune, dried-babyfood Full comment: Plum_Prune.rdf 120328000 12C Plum, prune, dried-babyfood Full comment: Plum_Prune.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 43 44 50 44 45 45 45 45 45 46 46 	Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r Plum.r Plum.r Plum.r Plum.r Plum.p Plum_P
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<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh Full comment: Plum.rdf 1203286001 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum_rdf 1203287001 12C Plum, prune, dried Full comment: Plum_Prune.rdf 1203288000 12C Plum, prune, dried Full comment: Plum_Prune.rdf 1203288000 12C Plum, prune, juice Full comment: Plum_Prune.rdf 1203288001 12C Plum, prune, juice Full comment: Plum_Prune.rdf 1203288001 12C Plum, prune, juice Full comment: Plum_Prune.rdf 1203288001 12C Plum, prune, juice Full comment: Plum_Prune.rdf 1304175000 13D Grape Full comment: Grape_Fresh.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.280 0.280 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 43 44 50 44 45 45 45 45 46 46 46 46 63 	Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r Plum.r Plum.r Plum.r Plum_P Plum_P Plum_P Plum_P Plum_P Scape_
<pre>Full comment: Peach_Fresh.rdf 230-Cooked; Dried; Cook Meth Full comment: Peach_Fresh.rdf 240-Cooked; Canned; Cook Meth Full comment: Peach_Canned.rdf 1202260001 12B Peach-babyfood Full comment: Peach_BF.rdf 1202261000 12B Peach, dried-babyfood 1202262000 12B Peach, juice Full comment: Peach_Canned.rdf 1202262001 12B Peach, juice-babyfood Full comment: Peach_Canned.rdf 1203285000 12C Plum Full comment: Plum.rdf 1203285000 12C Plum-babyfood Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh Full comment: Plum.rdf 1203286000 12C Plum, prune, fresh-babyfood Full comment: Plum.rdf 1203286000 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum.rdf 1203287000 12C Plum, prune, dried Full comment: Plum_rdf 1203287000 12C Plum, prune, dried-babyfood Full comment: Plum_Prune.rdf 1203288000 12C Plum, prune, juice Full comment: Plum_Prune.rdf 1203288001 12C Plum, prune, juice-babyfood Full comment: Plum_Prune.rdf</pre>	h N/S 1.000000 th N/S 1.000000 0.003800 0.003800 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000	0.500 0.520 7.000 7.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.280 0.280 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	 43 44 50 44 45 45 45 45 46 46 46 46 	Peach_ Peach_ Peach_ Peach_ Peach_ Peach_ Plum.r Plum.r Plum.r Plum.r Plum.r Plum_P Plum_P Plum_P Plum_P

1304176001 13D Grape, juice-babyfood Full comment: Grape Juice.rdf	1.000000	1.000	1.000	64	Grape_
1304179000 13D Grape, wine and sherry	1.000000	1.000	1.000	64	Grape_
Full comment: Grape_Juice.rdf 1304195000 13D Kiwifruit, fuzzy	2.000000	0.150	1.000	70	kiwi.r
Full comment: kiwi.rdf 1307130000 13G Cranberry	1.000000	1.000	1.000	62	Cranbe
Full comment: Cranberry.rdf 1307130001 13G Cranberry-babyfood	1.000000	1.000	1.000	62	Cranbe
Full comment: Cranberry.rdf 1307131000 13G Cranberry, dried	1.000000	1.000	1.000	62	Cranbe
Full comment: Cranberry.rdf 1307132000 13G Cranberry, juice	1.000000	0.300	1.000	62	Cranbe
Full comment: Cranberry.rdf 1307132001 13G Cranberry, juice-babyfood	1.000000	0.300	1.000	62	Cranbe
Full comment: Cranberry.rdf 1307359000 13G Strawberry					
110-Uncooked; Fresh or N/S; Coo	k Meth N/S 1.000000	1.000	1.000	67	Strawb
Full comment: Strawberry_Fresh.rdf 120-Uncooked; Frozen; Cook Meth	N/S				
Full comment: Strawberry Fresh.rdf	1.000000	1.000	1.000	67	Strawb
211-Cooked; Fresh or N/S; Baked					
Full comment: Strawberry Fresh.rdf	1.000000	1.000	1.000	67	Strawb
223-Cooked; Frozen; Fried Full comment: Strawberry Frozen.rdf	1.000000	1.000	1.000	68	Strawb
230-Cooked; Dried; Cook Meth N/		1 000	1 000	<i>с</i> 7	Church
Full comment: Strawberry_Fresh.rdf	1.000000	1.000	1.000	67	Strawb
240-Cooked; Canned; Cook Meth N	/S 1.000000	1.000	1.000	67	Strawb
Full comment: Strawberry_Fresh.rdf	1.000000	1.000	1.000	07	SLLAWD
1307359001 13G Strawberry-babyfood Full comment: Strawberry Fresh.rfd	1.000000	1.000	1.000	67	Strawb
1307360000 13G Strawberry, juice	1.000000	0.300	1.000	67	Strawb
Full comment: Strawberry_Fresh.rdf 1307360001 13G Strawberry, juice-babyfood	1.000000	0.300	1.000	67	Strawb
Full comment: Strawberry_Fresh.rdf 1400003000 14 Almond	1.000000	1.000	1.000	48	Almond
Full comment: Almond.rdf 1400004000 14 Almond, oil	0.001800	2.000	1.000		
1400155000 14 Hazelnut	1.000000	1.000	1.000	48	Almond
Full comment: Almond.rdf 1400269000 14 Pecan	1.000000	1.000	1.000	48	Almond
Full comment: Almond.rdf 1400391000 14 Walnut	1.000000	1.000	1.000	49	Almond
Full comment: Almondto walnut.rdf	1.000000	1.000	1.000	τJ	ATIIOIIG
1500120000 15 Corn, field, flour	0.000700	0.220	1.000		
1500120001 15 Corn, field, flour-babyfood	0.000700	0.220	1.000		
1500121000 15 Corn, field, meal	0.000700	0.220			
1500121001 15 Corn, field, meal-babyfood	0.000700	0.220			
1500122000 15 Corn, field, bran	0.000700	0.220			
1500123000 15 Corn, field, starch	0.000700	0.220			
1500123001 15 Corn, field, starch-babyfood	0.000700	0.220			
1500124000 15 Corn, field, syrup	0.000500	1.000			
1500124001 15 Corn, field, syrup-babyfood	0.000500	1.000			
1500125000 15 Corn, field, oil	0.000700	4.500			
1500125001 15 Corn, field, oil-babyfood	1.000000	4.500			
1500126000 15 Corn, pop	0.000700	1.000	1.000		
1500127000 15 Corn, sweet					
110-Uncooked; Fresh or N/S; Coo					
	1.000000	1.000	1.000	51	Corn_S
Full comment: Corn_Sweet_Fresh.rdf					
140-Uncooked; Canned; Cook Meth					
	1.000000	1.000	1.000	51	Corn_S
Full comment: Corn_Sweet_Fresh.rdf					-
210-Cooked; Fresh or N/S; Cook	Meth N/S				
	1.000000	1.000	1.000	52	Corn_S
Full comment: Corn_Sweet_Frozen_Cooked	.rdf				-

211-Cooked; Fresh or N/S; Baked	ł				
,,,,,,,,	1.000000	1.000	1.000	52	Corn S
Full comment: Corn_Sweet_Frozen_Cooked	d.rdf				_
212-Cooked; Fresh or N/S; Boile					
	1.000000	1.000	1.000	52	Corn_S
Full comment: Corn_Sweet_Frozen_Cooked 213-Cooked; Fresh or N/S; Fried					
ZIS-COOKEd, Flesh of N/S, Filed	1.000000	1.000	1.000	52	Corn S
Full comment: Corn Sweet Frozen Cooked		1.000	1.000	02	00111_0
220-Cooked; Frozen; Cook Meth N					
	1.000000	1.000	1.000	52	Corn_S
Full comment: Corn_Sweet_Frozen_Cooked					
221-Cooked; Frozen; Baked	1.000000	1.000	1.000	52	Corn_S
Full comment: Corn_Sweet_Frozen_Cooked 222-Cooked; Frozen; Boiled	1.000000	1.000	1.000	52	Corn S
Full comment: Corn Sweet Frozen Cooked		1.000	1.000	52	COTIT_5
232-Cooked; Dried; Boiled	1.000000	1.000	1.000	52	Corn S
Full comment: Corn Sweet Frozen Cooked	d.rdf				_
240-Cooked; Canned; Cook Meth N					
	1.000000	1.000	1.000	53	Corn_S
Full comment: Corn_Sweet_Canned.rdf	1 000000	1 000	1 000	БЭ	G
242-Cooked; Canned; Boiled Full comment: Corn Sweet Canned.rdf	1.000000	1.000	1.000	53	Corn_S
243-Cooked; Canned; Fried	1.000000	1.000	1.000	53	Corn S
Full comment: Corn Sweet Canned.rdf					
1500127001 15 Corn, sweet-babyfood	1.000000	1.000	1.000	53	Corn S
Full comment: Corn_Sweet_Canned.rdf					_
1500345000 15 Sorghum, syrup	0.000400	0.050			
1500381000 15 Triticale, flour	0.003100	0.140			
1500381001 15 Triticale, flour-babyfood 1500401000 15 Wheat, grain	0.003100 1.000000	0.140 1.000	1.000 1.000	54	Wheat
Full comment: Wheat Grain.rdf	1.000000	1.000	1.000	54	wileac_
1500401001 15 Wheat, grain-babyfood	1.000000	1.000	1.000	54	Wheat
Full comment: Wheat Grain.rdf					
1500402000 15 Wheat, flour	0.003100	0.140	1.000		
1500402000 IS Wheat, IIOur					
1500402001 15 Wheat, flour-babyfood	0.003100	0.140			
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ		0.140 2.700	1.000 1.000	54	Wheat_
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf	0.003100 1.000000	2.700	1.000		_
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran	0.003100			54 54	Wheat_ Wheat_
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf	0.003100 1.000000 1.000000	2.700 3.000	1.000 1.000		_
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran	0.003100 1.000000	2.700	1.000 1.000 1.000		_
1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed	0.003100 1.000000 1.000000 0.001200	2.700 3.000 1.000 2.500 2.500	1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.001200 0.003000	2.700 3.000 1.000 2.500 2.500 0.375	1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.001200 0.003000 0.003000	2.700 3.000 1.000 2.500 2.500 0.375 0.375	1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.003000	2.700 3.000 1.000 2.500 2.500 0.375 0.375 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat-babyfood</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.003000 0.000500	2.700 3.000 1.000 2.500 2.500 0.375 0.375 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.003000	2.700 3.000 1.000 2.500 2.500 0.375 0.375 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.003000 0.000500 0.000500	2.700 3.000 1.000 2.500 0.375 0.375 0.375 0.500 0.500 1.920	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128000 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts-babyfood 3100047000 31 Beef, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.000500 0.000500	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 1.920 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365000 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.001400 0.001400 0.000500	2.700 3.000 2.500 2.500 0.375 0.375 0.500 0.500 1.920 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat, dried 3100045000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.001400 0.000500 0.000500 0.000500 0.000500 0.000500 0.000500	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100047001 31 Beef, fat 3100047001 31 Beef, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.000500 0.000500 0.000500 0.000500 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil-babyfood 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, kidney 3100049000 31 Beef, liver 3100049000 31 Beef, liver</pre>	0.003100 1.000000 0.001200 0.001200 0.003000 0.003000 0.00500 0.001400 0.00500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100047001 31 Beef, fat 3100047001 31 Beef, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.000500 0.000500 0.000500 0.000500 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat-babyfood 3100045000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, fat 3100046000 31 Beef, fat 3100046000 31 Beef, fat 3100046000 31 Beef, fat 3100046000 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100049000 31 Beef, fat 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200170000 32 Goat, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat-babyfood 3100045000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100046000 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100049001 31 Beef, fat 3100049001 31 Beef, liver 3100049001 32 Goat, meat 3200170000 32 Goat, meat 320017000 32 Goat, fat 3200172000 32 Goat, kidney</pre>	0.003100 1.000000 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat-babyfood 3100045000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3200169000 32 Goat, meat 320017000 32 Goat, meat 3200171000 32 Goat, kidney 3200173000 32 Goat, kidney 3200173000 32 Goat, liver</pre>	0.003100 1.000000 0.001200 0.001200 0.003000 0.003000 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.	1.000 1.0000 1.0000 1.0000 1.0000 1.0000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100047000 31 Beef, fat 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 320017000 32 Goat, fat 3200172000 32 Goat, kidney 3200173000 32 Goat, liver 3400290000 34 Pork, meat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.000500 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200170000 32 Goat, kidney 3200173000 32 Goat, kidney 3200173000 32 Goat, liver 3400290000 34 Pork, meat 3400290001 34 Pork, meat-babyfood</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil-babyfood 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 310004000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat-babyfood 3100047000 31 Beef, liver 3100047000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 320017000 32 Goat, meat 320017000 32 Goat, fat 320017000 32 Goat, fat 3200172000 32 Goat, liver 340029000 34 Pork, meat 340029000 34 Pork, meat-babyfood</pre>	0.003100 1.000000 1.000000 0.001200 0.001200 0.003000 0.003000 0.000500 0.001400 0.000380 0.000380 0.000380 0.000380	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2003128000 20C Cottonseed, oil 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200170000 32 Goat, kidney 3200173000 32 Goat, kidney 3200173000 32 Goat, liver 3400290000 34 Pork, meat 3400290001 34 Pork, meat-babyfood</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.000500 0.000500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044001 31 Beef, meat, dried 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, meat byproducts 3100046001 31 Beef, fat-babyfood 3100047000 31 Beef, fat-babyfood 3100047000 31 Beef, fat-babyfood 3100047000 31 Beef, fat-babyfood 3100047000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200170000 32 Goat, fat 3200171000 32 Goat, liver 3400290000 34 Pork, meat 340029000 34 Pork, meat 3400291000 34 Pork, meat byproducts</pre>	0.003100 1.000000 1.000000 0.001200 0.001200 0.003000 0.003000 0.00500 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001400 0.001380 0.000380 0.000380 0.000380	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0	1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000		_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002365000 20B Sunflower, seed 2002365000 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat-babyfood 3100045000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100046001 31 Beef, fat 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100040001 31 Beef, fat 3100040001 31 Beef, fat 3100040001 31 Beef, liver 3100049001 31 Beef, liver 3100049001 31 Beef, liver 3100049001 31 Beef, liver 3200170000 32 Goat, meat 3200170000 32 Goat, meat 3200170000 32 Goat, fat 3200171000 32 Goat, kidney 3200173000 32 Goat, liver 3400290000 34 Pork, meat 3400290001 34 Pork, meat byproducts 3400290001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts</pre>	0.003100 1.000000 1.000000 0.001200 0.001200 0.003000 0.000500 0.000500 0.001400 0.000380 0.000380 0.000380 1.000000	2.700 3.000 1.000 2.500 2.500 0.375 0.500 0	1.000 1.000	54	- Wheat_ Pork_F
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365000 20C Cottonseed, oil 2003128000 20C Cottonseed, oil-babyfood 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100046000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, fat 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100047001 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200171000 32 Goat, fat 3200171000 32 Goat, liver 3400290000 34 Pork, meat 3400290001 34 Pork, meat byproducts 3400290001 34 Pork, meat byproducts 3400290001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts 3400293000 34 Pork, fat Full comment: Pork_Fat.rdf 3400293001 34 Pork, fat</pre>	0.003100 1.000000 0.001200 0.001200 0.001200 0.003000 0.003000 0.00500 0.00500 0.001400 0.000380 0.000380 0.000380	2.700 3.000 1.000 2.500 0.375 0.500	1.000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	54	- Wheat_
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365001 20B Sunflower, oil-babyfood 2003128000 20C Cottonseed, oil 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100044000 31 Beef, meat-babyfood 3100045000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 320017000 32 Goat, meat 320017000 32 Goat, fat 320017000 32 Goat, liver 340029000 34 Pork, meat 340029000 34 Pork, meat 340029000 34 Pork, skin 3400292000 34 Pork, skin 3400292000 34 Pork, fat Full comment: Pork_Fat.rdf 3400293001 34 Pork, fat Full comment: Pork_Fat.rdf</pre>	0.003100 1.000000 1.000000 0.001200 0.001200 0.003000 0.003000 0.000500 0.001400 0.000380 0.000380 1.000000 1.000000	2.700 3.000 1.000 2.500 0.375 0.375 0.500 0	1.000 1.000	54	- Wheat_ Pork_F
<pre>1500402001 15 Wheat, flour-babyfood 1500403000 15 Wheat, germ Full comment: Wheat_Grain.rdf 1500404000 15 Wheat, bran Full comment: Wheat_Grain.rdf 2002364000 20B Sunflower, seed 2002365000 20B Sunflower, oil 2002365000 20C Cottonseed, oil 2003128000 20C Cottonseed, oil-babyfood 2003128001 20C Cottonseed, oil-babyfood 3100044000 31 Beef, meat 3100046000 31 Beef, meat, dried 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046000 31 Beef, meat byproducts 3100046001 31 Beef, fat 3100047000 31 Beef, fat 3100047000 31 Beef, fat 3100047001 31 Beef, fat 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 31 Beef, liver 3100049000 32 Goat, meat 3200170000 32 Goat, meat 3200171000 32 Goat, fat 3200171000 32 Goat, liver 3400290000 34 Pork, meat 3400290001 34 Pork, meat byproducts 3400290001 34 Pork, meat byproducts 3400290001 34 Pork, meat byproducts 3400292001 34 Pork, meat byproducts 3400293000 34 Pork, fat Full comment: Pork_Fat.rdf 3400293001 34 Pork, fat</pre>	0.003100 1.000000 1.000000 0.001200 0.001200 0.003000 0.000500 0.000500 0.001400 0.000380 0.000380 0.000380 1.000000	2.700 3.000 1.000 2.500 2.500 0.375 0.500 0	1.000 1.000	54	- Wheat_ Pork_F

3500339000 35	Sheep, meat	0.000500	0.500	1.000		
3500339001 35	Sheep, meat-babyfood	0.001400	0.500	1.000		
3500340000 35	Sheep, meat byproducts	0.001400				
3500341000 35	Sheep, fat	0.000500		1.000		
3500341001 35	Sheep, fat-babyfood	0.000500	0.500	1.000		
3500342000 35	Sheep, kidney	0.001400	0.500	1.000		
3500343000 35	Sheep, liver	0.001400	0.500	1.000		
3600222000 36	Milk, fat	1.000000	1.000	1.000	69	Milk C
	nt: Milk Creambutter.rdf	1.000000	1.000	1.000	0.5	
		1 000000	1 0 0 0	1 000	<u> </u>	Mille C
3600222001 36	Milk, fat-baby food/infant formu	1.000000	1.000	1.000	69	Milk_C
	nt: Milk_Creambutter.rdf					
3800221000 38	Meat, game	0.000500		1.000		
3900312000 39	Rabbit, meat	0.000500	0.500	1.000		
4000093000 40	Chicken, meat	0.000750	0.500	1.000		
4000093001 40	Chicken, meat-babyfood	0.000750	0.500	1.000		
4000094000 40	Chicken, liver	0.000750				
4000095000 40	Chicken, meat byproducts	0.000750				
4000095001 40	Chicken, meat byproducts-babyfoo	0.000750				
4000096000 40	Chicken, fat	0.004900	0.500	1.000		
4000096001 40	Chicken, fat-babyfood	0.004900	0.500	1.000		
4000097000 40	Chicken, skin	0.004900	0.500	1.000		
4000097001 40	Chicken, skin-babyfood	0.004900				
5000382000 50	Turkey, meat	0.000750				
5000382001 50	Turkey, meat-babyfood	0.000750				
5000383000 50	Turkey, liver	0.000750				
5000383001 50	Turkey, liver-babyfood	0.000750	0.500	1.000		
5000384000 50	Turkey, meat byproducts	0.000750	0.500	1.000		
5000384001 50	Turkey, meat byproducts-babyfood	0.000750	0.500	1.000		
5000385000 50	Turkey, fat	0.004900				
5000385001 50	Turkey, fat-babyfood					
		0.004900				
5000386000 50	Turkey, skin	0.004900				
5000386001 50	Turkey, skin-babyfood	0.004900	0.500	1.000		
6000301000 60	Poultry, other, meat	0.000750	0.500	1.000		
6000302000 60	Poultry, other, liver	0.000750	0.500	1.000		
6000303000 60	Poultry, other, meat byproducts	0.000750				
6000304000 60	Poultry, other, fat	0.004900	0.500			
	-					
6000305000 60	Poultry, other, skin	0.004900				
7000145000 70	Egg, whole	0.001500				
7000145001 70	Egg, whole-babyfood	0.001500	0.500	1.000		
7000146000 70	Egg, white	0.001500	0.500	1.000		
7000146001 70	Egg, white (solids)-babyfood	0.001500	0.500	1.000		
7000147000 70	Egg, yolk	0.001500				
7000147001 70	Egg, yolk-babyfood	0.001500	0.500	1.000		
		0.001300	0.500	1.000		
9500019000 O	Asparagus					
	110-Uncooked; Fresh or N/S; Co					
		1.000000	1.000	1.000	59	Aspara
Fu	ll comment: Asparagus.rdf					
	212-Cooked; Fresh or N/S; Boil	ed				
		1.000000	0 940	1 000	59	Aenara
	1] commont. Jonana and	1.000000	0.040	T.000	55	mpara
FU.	11 comment: Asparagus.rdf	al				
	213-Cooked; Fresh or N/S; Frie					-
		1.000000	0.940	1.000	59	Aspara
Fu	ll comment: Asparagus.rdf					
	222-Cooked; Frozen; Boiled	1.000000	0.940	1.000	59	Aspara
Fu	ll comment: Asparagus.rdf					-
	242-Cooked; Canned; Boiled	1.000000	1.000	1.000	60	Aspara
	ll comment: Asparagus Canned.rdf	1.000000	1.000	1.000	00	пэрага
					~ ~	_
9500023000 O	Banana	1.000000	1.000	1.000	61	Banana
Full commen	nt: Banana.rdf					
9500023001 O	Banana-babyfood	1.000000	1.000	1.000	61	Banana
Full commen	nt: Banana.rdf					
9500024000 O	Banana, dried	0.002500	3.900	1.000		
9500024001 O	Banana, dried-babyfood	0.002500	3.900	1.000		
	-					
9500153000 O	Fig	0.010000	1.000	1.000		
9500154000 O	Fig, dried	0.010000	1.000	1.000		
9500177000 O		1.000000	1.000	1.000	63	Grape_
	Grape, leaves	1.000000				
Full commen	Grape, leaves nt: Grape Fresh.rdf	1.000000				
Full comme 9500178000 O	÷ ·	1.000000	1.000	1.000	65	Grape
9500178000 O	nt: Grape_Fresh.rdf Grape, raisin			1.000	65	Grape_
9500178000 O Full commen	nt: Grape_Fresh.rdf Grape, raisin nt: Grape_Raisin.rdf	1.000000	1.000		65	Grape_
9500178000 O Full commen 9500263000 O	nt: Grape_Fresh.rdf Grape, raisin nt: Grape_Raisin.rdf Peanut	1.000000	1.000	1.000	65	Grape_
9500178000 O Full commen	nt: Grape_Fresh.rdf Grape, raisin nt: Grape_Raisin.rdf	1.000000	1.000		65	Grape_

9500265000 O	Peanut, oil	0.001100	2.000	1.000		
9500275000 O	Peppermint	0.800000	1.000	1.000		
9500276000 O	Peppermint, oil	8.000000	1.000	1.000		
9500283000 O	Plantain	1.000000	1.000	1.000	61	Banana
Full commen	nt: Banana.rdf					
9500284000 O	Plantain, dried	0.002500	3.900	1.000		
9500352000 O	Spearmint	0.800000	1.000	1.000		
9500353000 O	Spearmint, oil	8.000000	1.000	1.000		

Attachment 5. Acute (Food Only) Result File

US EPA Ver. 3.18, 03-08-d DEEM-FCID ACUTE Analysis for CHLORPYRIFOS (PARENT ONLY) NHANES 2003-2008 2-Day Residue file: Chlorpyrifos_FoodOnly noFHE.R08 Adjustment factor #2 NOT used. Analysis Date: 09-11-2014/12:29:49 Residue file dated: 08-18-2014/10:54:45 NOEL (Acute) = 1.000000 mg/kg body-wt/day [NOTE: placeholder only, not used] RAC/FF intake summed over 24 hours MC iterations = 1000; MC list in residue file; MC seed = 10; RNG = MS VB Run Comment: "chlorpyrifos (parent only); food only (no FHE)"

Summary calculations--per capita:

	95th Percentile		99th Percentile		99.9th Percentile	
	Exposure	MOE	Exposure	MOE	Exposure	MOE
Total US Population:						
_	0.000031	32594	0.000064	15715	0.000197	5078
All Infants:	0.000050	20178	0.000088	11315	0.000273	3665
Children 1-2:	0.000082	12189	0.000143	6999	0.000423	2362
Children 3-5:		1 6 1 5 1	0.000107			0100
Children 6-12:	0.000062	16151	0.000107	9333	0.000319	3133
	0.000040	25104	0.000072	13834	0.000189	5288
Youth 13-19:	0.000024	42447	0.000042	23857	0.000126	7937
Adults 20-49:	0.000021	47188	0.000042	23575	0.000167	5999
Adults 50-99:						
Female 13-49:	0.000022	46380	0.000044	22962	0.000186	5377
remare 15 15.	0.000021	48163	0.000041	24676	0.000150	6652

Attachment 6. Examples of Steady State (Food Only) Result Files (Showing Day of Highest Exposure)

INFANTS < 1 yr old

```
CALENDEX-FCID Analysis for CPFS SS INFANTS FOODONLY NOFHE
Analysis Date 08-19-2014/08:14:14/0
Exposure analysis for 3 combined weeks: starting on day 3
Exposure amounts adjusted for body weight
Dietary Residue file:
C:\Users\ddrew\Documents\DEEM Version 3 16\ResidueFiles\Scenario1\Chlorpyrifo
s FoodOnly noFHE.R08 Last saved: 8/18/2014 10:54:45 AM
Dietary Adjustment factor #2 NOT used.
Dietary Matching File not used.
No non-dietary (residential) analysis
No PRZM-EXAMS analysis
RfD Oral = 0.00003 mg/kg-BodyWt/day [NOTE: used as placeholder only]
Est'd max exposure: Oral = 0.01 mg/kg-BodyWt/day
MC iterations = 10 MC seed = 10 RNG = Microsoft VB
NHANES Stat Wghts used.
Analyst Comments:
_____
Population parameters: Infants (<1 yr) All Seasons
All Regions Sex: M F-all
All Races
Nursing Status: Nursing and Non-Nursing
Summary calculations (mg/kg-BodyWt/day, per capita):
   Mean
                95th Percentile 99th Percentile 99.9th Percentile
```

Exposure	Exposure	Exposure	Exposure
Dietary Exposure			
0.000015	0.000044	0.000083	0.000186

CHILDREN 1-2 yrs old

```
CALENDEX-FCID Analysis for CPFS SS FOODONLY NOFHE
Analysis Date 08-18-2014/12:31:23/0
Exposure analysis for 3 combined weeks: starting on day 82
Exposure amounts adjusted for body weight
Dietary Residue file:
C:\Users\ddrew\Documents\DEEM Version 3 16\ResidueFiles\Scenario1\Chlorpyrifo
s FoodOnly noFHE.R08 Last saved: 8/18/2014 10:54:45 AM
Dietary Adjustment factor #2 NOT used.
Dietary Matching File not used.
No non-dietary (residential) analysis
No PRZM-EXAMS analysis
RfD Oral = 0.00003 mg/kg-BodyWt/day[Note: used as placeholder only]
Est'd max exposure: Oral = 0.01 mg/kg-BodyWt/day
MC iterations = 10 MC seed = 10 RNG = Microsoft VB
NHANES Stat Wghts used.
Analyst Comments:
```

Population parameters: Children 1-2 All Seasons All Regions Sex: M F-all All Races Nursing Status: Nursing and Non-Nursing Summary calculations (mg/kg-BodyWt/day, per capita):

Mean	95th Percentile	99th Percentile	99.9th Percentile
Exposure	Exposure	Exposure	Exposure
Dietary Exposure			
0.000033	0.000070	0.000118	0.000242

CHILDREN 6-12 yrs old

CALENDEX-FCID Analysis for CPFS SS Y6-12 FOODONLY Analysis Date 10-30-2014/07:34:51/0 Exposure analysis for 3 combined weeks: starting on **day 92** Exposure amounts adjusted for body weight Dietary Residue file: E:\chlorpyrifos\working dietary files\Chlorpyrifos_FoodOnly noFHE.R08 Last saved: 9/2/2014 11:39:36 AM Dietary Adjustment factor #2 NOT used. Dietary Matching File not used. No non-dietary (residential) analysis No PRZM-EXAMS analysis NOEL Oral = 1 mg/kg-BodyWt/day Est'd max exposure: Oral = 0.01 mg/kg-BodyWt/day MC iterations = 10 MC seed = 10 RNG = Microsoft VB NHANES Stat Wghts used. Analyst Comments:food only -no FHE

```
Population parameters: Children 6-12 All Seasons
All Regions Sex: M F-all
All Races
```

Summary calculations (mg/kg-BodyWt/day, per capita):

Mean	95th Percentile	99th Percentile	99.9th Percentile
Exposure	Exposure	Exposure	Exposure
Dietary Exposure			
0.000017	0.000038	0.000059	0.000128

FEMALES 13-49 yrs old

CALENDEX-FCID Analysis for CPFS SS F13 49 FOODONLY NOFHE

Chlorpyrifos

Analysis Date 08-19-2014/10:14:05/0 Exposure analysis for 3 combined weeks: starting on day 32 Exposure amounts adjusted for body weight Dietary Residue file: C:\Users\ddrew\Documents\DEEM Version 3 16\ResidueFiles\Scenario1\Chlorpyrifo s FoodOnly noFHE.R08 Last saved: 8/18/2014 10:54:45 AM Dietary Adjustment factor #2 NOT used. Dietary Matching File not used. No non-dietary (residential) analysis No PRZM-EXAMS analysis RfD Oral = 0.00003 mg/kg-BodyWt/day [Note: used as placeholder only] Est'd max exposure: Oral = 0.01 mg/kg-BodyWt/day MC iterations = 10 MC seed = 10 RNG = Microsoft VB NHANES Stat Wghts used. Analyst Comments: _____ Population parameters: Females (13-49) All Seasons All Regions Sex: F-all All Races Summary calculations (mg/kg-BodyWt/day, per capita): Mean 95th Percentile 99th Percentile 99.9th Percentile Exposure Exposure Exposure Exposure -----_____ _____ _____

Dietary Exposure 0.000008 0.000018 0.000029 0.000075