13544

050660

Chemical:	**Carbamic acid, [2-[[[1-(4-chlorophenyl)-**
PC Code:	**099100**
HED File Code	**11000 Chemistry Reviews**
Memo Date:	**07/29/2002**
File ID:	**DPD284524**
Accession Number:	**412-03-0016**

HED Records Reference Center
09/30/2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361

MEMORANDUM

DATE: July 29, 2002

SUBJECT: Pyraclostrobin Acute and Chronic Dietary Exposure Assessments for the Section 3 Registration on Various Crops. PP#0F6139. PC code 099100. DP Barcode D284524.

FROM: Leung Cheng, Chemist
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THROUGH: Jennifer Tyler, Chemist
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Health Effects Division (7509C)

and

Stephen Dapson, Branch Senior Scientist
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07/31/2002

TO: William Wassell, Risk Assessor
Registration Action Branch 3
Health Effects Division (7509C)

Executive Summary

The purpose of this memorandum is to summarize the results of the dietary risk analysis for the general U.S. population and various population subgroups resulting from exposure to pyraclostrobin through food.

Tier 1 acute and chronic dietary risk analyses were conducted for all supported pyraclostrobin food uses. Dietary risk estimates are provided for the general U.S. population and various population subgroups. The dietary risk analysis concludes that for all included

commodities, the acute risk estimates are below the Agency's level of concern (≤100% aPAD[1]) at the 95th exposure percentile for the general U.S. population (<1% cPAD) and the females 13-50 population subgroup (41% aPAD). This analysis also concludes that the chronic risk estimates are below the Agency's level of concern (≤100% cPAD[1]) for the general U.S. population (27% cPAD) and all population subgroups. The chronic dietary exposure estimate for the highest exposed population subgroup is 74% of the cPAD.

I. Introduction

Exposure to pesticides can occur through food, water, residential and occupational means. Risk assessment incorporates both exposure and toxicity of a given pesticide. The risk is expressed as a percentage of a dose that could be expressed as a daily or a long term dose, to pose no unreasonable adverse effects. This is called the population adjusted dose (PAD), and is expressed as %PAD. References are available on the EPA/pesticides web site which discuss the acute and chronic risk assessments in more detail: "Available Information on Assessing Exposure from Pesticides, A User's Guide", 6/21/2000, web link: http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf ; or see SOP 99.6, 8/20/99.

II. Toxicological Information

On July 31, 2001, the Health Effects Division's (HED) Hazard Identification Assessment Review Committee (HIARC) evaluated the toxicology database of pyraclostrobin, established reference doses (RfDs), and selected the toxicological endpoints for acute and chronic dietary, as well as occupational/residential exposure, risk assessments (HIARC report, G. Dannan, 9/13/2001). The FQPA Safety Factor for the protection of infants and children is reduced to 3x, applicable only to acute dietary exposue for females 13-50 years of age and chronic dietary exposure for all populations (FQPA report, B. Tarplee, 10/10/2001). The doses and toxicological endpoints are summarized in Table 1.

Table 1. Summary of Toxicological Endpoints for Use in Human Health Risk Assessment

EXPOSURE SCENARIO	DOSE (mg/kg/day)	ENDPOINT	STUDY
Acute Dietary (Females 13-50)	NOAEL= 5 UF = 100 FQPA=3x	Developmental toxicity findings of increased resorptions/litter and increased total resorptions (i.e., dams with complete litter loss) at 10 mg/kg/day (LOAEL).	Rabbit Prenatal Developmental Toxicity (MRID 45118326/45437001)
	Acute RfD = 0.05 mg/kg/day **aPAD = 0.017 mg/kg/day**		

[1]aPAD/cPAD = acute/chronic Population Adjusted Dose = $\frac{\text{Acute or Chronic RfD}}{\text{FQPA Safety Factor}}$

Acute Dietary (General Population)	NOAEL= 300 UF = 100 FQPA=1x	The systemic toxicity NOAEL of 300 mg/kg based on decreased body weight gain in males at 1000 mg/kg (LOAEL).	Rat Acute Oral Neurotoxicity (MRID 45118337)
	Acute RfD = 3 mg/kg/day aPAD = 3 mg/kg/day		
Chronic Dietary	NOAEL = 3.4 UF = 100 FQPA=3x	Decreased body weight/gain, kidney tubular casts and atrophy in both sexes; increased incidence of liver necrosis and erosion/ulceration of the glandular stomach and forestomach in males in addition to hemolymphoreticular tumors in males and mammary adenocarcinoma in females at 9.2 mg/kg/day (LOAEL).	Rat Oral Carcinogenicity (MRID 45118331)
	Chronic RfD = 0.034 mg/kg/day cPAD = 0.011 mg/kg/day		

III. Residue Information

Currently no tolerances for residues of pyraclostrobin and its acid metabolite are established under 40 CFR. RAB3 recommended the following tolerances (D272771, L. Cheng, November 28, 2001):

Almond, hulls ..... 1.6 ppm
Aspirated grain fractions ..... 2.5 ppm
Banana ..... 0.04 ppm
Barley, grain ..... 0.4 ppm
Barley, hay ..... 25 ppm
Barley, straw ..... 6 ppm
Bean, dry ..... 0.3 ppm
Beet, sugar, root ..... 0.2 ppm
Beet, sugar, tops ..... 8 ppm
Beet, sugar, dried pulp ..... 1 ppm
Berry group ..... 1.3 ppm
Citrus, dry pulp ..... 5.5 ppm
Citrus, oil ..... 4 ppm
Fruit, citrus, group ..... 0.7 ppm
Fruit, stone, group ..... 0.9 ppm
Grape ..... 2 ppm
Grape, raisin ..... 7 ppm
Grass, forage ..... 10 ppm
Grass, hay ..... 4.5 ppm
Grass, seed screenings ..... 27 ppm

Grass, straw	14 ppm
Nut, tree, group	0.04 ppm
Peanut, nutmeat	0.05 ppm
Peanut, refined oil	0.1 ppm
Pistachio	0.7 ppm
Radish, tops	16 ppm
Rye, grain	0.04 ppm
Rye, straw	0.5 ppm
Strawberry	0.4 ppm
Vegetable, bulb, group	0.9 ppm
Vegetable, cucurbit, group	0.5 ppm
Vegetable, fruiting, group	1.4 ppm
Vegetable, root, except sugar beet, subgroup	0.4 ppm
Vegetable, tuberous and corm, subgroup	0.04 ppm
Wheat, grain	0.2 ppm
Wheat, hay	6 ppm
Wheat, straw	8.5 ppm
Cattle*, fat	0.1 ppm
Cattle*, liver	1.5 ppm
Cattle*, meat	0.1 ppm
Cattle*, meat byproducts, except liver	0.2 ppm
Milk	0.1 ppm

* also to include goats, hogs, horses, and sheep

Recommended tolerances were used in the acute and chronic dietary assessments.

Percent Crop Treated Information:

Percent crop treated data were applied; these values were recommended in a BEAD memo (D278874, A. Halvorson, 4/17/2002).

Processing Information:

DEEM™ default concentration factors were used.

IV. DEEM™ Program and Consumption Information

The pyraclostrobin acute and chronic dietary exposure assessments were conducted using the Dietary Exposure Evaluation Model (DEEM™) software Version 7.73, which incorporates consumption data from USDA's Continuing Surveys of Food Intake by Individuals (CSFII), 1989-1992. The 1989-92 data are based on the reported consumption of more than 10,000 individuals over three consecutive days, and therefore represent more than 30,000 unique "person days" of data. Foods "as consumed" (e.g., apple pie) are linked to raw agricultural commodities and their food forms (e.g., apples-cooked/canned or wheat-flour) by recipe translation files internal to the DEEM software. Consumption data are averaged for the entire US population and

within population subgroups for chronic exposure assessment, but are retained as individual consumption events for acute exposure assessment.

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

For acute exposure assessments, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic (Tier 1 or Tier 2) exposure assessment, or "matched" in multiple random pairings with residue values and then summed in a probabilistic (Tier 3/4) assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (i.e., those who reported eating relevant commodities/food forms) and a per-capita (i.e., those who reported eating the relevant commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for all tiers of analysis.

HED notes that there is a degree of uncertainty in extrapolating exposures for certain population subgroups from the general U.S. population which may not be sufficiently represented in the consumption surveys, (e.g., nursing and non-nursing infants or Hispanic females). Therefore, risks estimated for these population subgroups were included in representative populations having sufficient numbers of survey respondents (e.g., all infants or females, 13-50 years).

V. Results/Discussion

HED's reference level is 100% of the PAD. That is, estimated exposures above this level are of concern, while estimated exposures at or below this level are not of concern. The DEEM analyses estimate the dietary exposure of the U.S. population and 26 population subgroups. The results reported in Tables 2 and 3 are for the U.S. Population (total), all infants (<1 year old), children 1-6, children 7-12, females 13-50, males 13-19, males 20+, and seniors 55+. The results for the other population subgroups are included in the appendices.

Results of Acute Dietary Exposure Analysis

Table 2. Results of Acute Dietary Exposure Analysis at the 95th Percentile of Exposure

Population Subgroup	aPAD (mg/kg/day)	Exposure (mg/kg/day)	% aPAD
Females 13-50 years old	0.017	0.006785	41

Population Subgroup	aPAD (mg/kg/day)	Exposure (mg/kg/day)	% aPAD
U.S. Population (total)	3	0.009363	<1
All Infants (< 1 year)		0.013661	<1
Children 1-6 years		0.022019	<1
Children 7-12 years		0.011355	<1
Males 13-19		0.008302	<1
Males 20+ years		0.006178	<1
Seniors 55+		0.005710	<1

Chronic Dietary Exposure Analysis

Table 3. Results of Chronic Dietary Exposure Analysis

Population Subgroup	cPAD (mg/kg/day)	Exposure (mg/kg/day)	% cPAD
U.S. Population (total)	0.011	0.002958	27
All Infants (< 1 year)		0.003397	31
Children 1-6 years		0.008169	74
Children 7-12 years		0.004546	41
Females 13-50		0.002193	20
Males 13-19		0.002806	26
Males 20+ years		0.002073	19
Seniors 55+		0.002007	18

VI. Conclusions

The Tier 1 acute and chronic dietary risk assessments were conducted for all supported pyraclostrobin food uses. Dietary risk estimates are provided for the general U.S. population and various population subgroups. This analysis concludes that for all supported commodities, the acute risk estimates are below the Agency's level of concern at the 95th exposure percentile for the general U.S. population (<1% cPAD) and the females 13-50 yrs subpopulation (41% aPAD). This analysis also concludes that for all commodities, the chronic risk estimates are below the Agency's level of concern for the general U.S. population (27% cPAD) and all population subgroups. The chronic dietary exposure estimate for the highest exposed population subgroup is 74% of the cPAD.

Table 4. Summary of Dietary Exposure and Risk for Pyraclostrobin

Population Subgroup	Acute Dietary		Chronic Dietary		
	Dietary Exposure (mg/kg/day)	% aPAD	Dietary Exposure (mg/kg/day)	% cPAD	Cancer
U.S. Population (total)	0.009363	<1	0.002958	27	NA
All Infants (< 1 year)	0.013661	<1	0.003397	31	
Children 1-6 years	0.022019	<1	0.008169	74	
Children 7-12 years	0.011355	<1	0.004546	41	
Females 13-50	0.006785	41	0.002193	20	
Males 13-19	0.008302	<1	0.002806	26	
Males 20+ years	0.006178	<1	0.002073	19	
Seniors 55+	0.005710	<1	0.002007	18	

VII. List of Attachments

1. Acute Exposure Analysis
2. Chronic Exposure Analysis
3. Values for Acute and Chronic Analyses
4. BEAD memo dated 4/17/2002

cc:RAB3 Reading F, Cheng
RD/I:DESAC:7/29/2002:SDapson:7/25/2002
7509C:RAB3:LCheng:CM#2:RM810A:3rab/variouscrops.dmr

ATTACHMENT 1

U.S. Environmental Protection Agency Ver. 7.76
DEEM ACUTE Analysis for PYRACLOSTROBIN (1989-92 data)
Residue file: pyraclo4.rs7 Adjustment factor #2 used.
Analysis Date: 07-26-2002/14:03:59 Residue file dated: 07-26-2002/13:52:06/8
NOEL (Acute) = 5.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment: ""

Summary calculations (per capita):

	95th Percentile			99th Percentile			99.9th Percentile	
Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
Females 13+ (preg/not nursing):								
0.005838	34.96	856	0.009896	59.26	505	0.017652	105.70	283
Females 13+ (nursing):								
0.009361	56.05	534	0.017980	107.67	278	0.051107	306.03	97
Females 13-19 (not preg or nursing):								
0.008413	50.38	594	0.015257	91.36	327	0.025127	150.46	198
Females 20+ (not preg or nursing):								
0.005926	35.48	843	0.011555	69.19	432	0.021559	129.09	231
Females 13-50 yrs:								
0.006785	40.63	736	0.013554	81.16	368	0.022957	137.47	217

U.S. Environmental Protection Agency Ver. 7.76
DEEM ACUTE Analysis for PYRACLOSTROBIN (1989-92 data)
Residue file: pyraclo4.rs7 Adjustment factor #2 used.
Analysis Date: 07-26-2002/14:03:59 Residue file dated: 07-26-2002/13:52:06/8
NOEL (Acute) = 5.000000 mg/kg body-wt/day
Acute Reference Dose (aRfD) = 0.016700 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment: ""

Females 13-50 yrs

	Daily Exposure Analysis (mg/kg body-weight/day) per Capita	per User
Mean	0.002193	0.002197
Standard Deviation	0.002582	0.002583
Standard Error of mean	0.000025	0.000025
Margin of Exposure	2,280	2,275
Percent of aRfD	13.13	13.16

Percent of Person-Days that are User-Days = 99.80%

Estimated percentile of user-days falling below calculated exposure in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.000333	1.99	15,018	90.00	0.004656	27.88	1,073
20.00	0.000600	3.59	8,335	95.00	0.006790	40.66	736
30.00	0.000855	5.12	5,846	97.50	0.009100	54.49	549
40.00	0.001106	6.62	4,519	99.00	0.013556	81.17	368
50.00	0.001416	8.48	3,531	99.50	0.015710	94.07	318
60.00	0.001817	10.88	2,751	99.75	0.018305	109.61	273
70.00	0.002380	14.25	2,101	99.90	0.022958	137.47	217
80.00	0.003203	19.18	1,560				

Estimated percentile of per-capita days falling below calculated exposure in mg/kg body-wt/day with Margin of Exposure (MOE) and Percent of aRfD

Perc.	Exposure	% aRfD	MOE	Perc.	Exposure	% aRfD	MOE
10.00	0.000328	1.96	15,257	90.00	0.004653	27.86	1,074
20.00	0.000596	3.57	8,392	95.00	0.006785	40.63	736
30.00	0.000852	5.10	5,871	97.50	0.009092	54.44	549
40.00	0.001102	6.60	4,535	99.00	0.013554	81.16	368
50.00	0.001413	8.46	3,538	99.50	0.015705	94.04	318
60.00	0.001814	10.86	2,756	99.75	0.018303	109.60	273
70.00	0.002375	14.22	2,104	99.90	0.022957	137.47	217
80.00	0.003192	19.11	1,566				

U.S. Environmental Protection Agency Ver. 7.76
DEEM ACUTE Analysis for PYRACLOSTROBIN (1989-92 data)
Residue file: pyraclo4.rs7 Adjustment factor #2 used.
Analysis Date: 07-26-2002/13:59:45 Residue file dated: 07-26-2002/13:52:06/8
NOEL (Acute) = 5.000000 mg/kg body-wt/day
Daily totals for food and foodform consumption used.
Run Comment: ""

Summary calculations (per capita):

	95th Percentile			99th Percentile			99.9th Percentile	
	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE	Exposure	% aRfD	MOE
U.S. Population:	0.009363	0.31	534	0.018908	0.63	264	0.042802	1.43	116
All infants:	0.013661	0.46	366	0.030404	1.01	164	0.052932	1.76	94
Nursing infants (<1 yr old):	0.005551	0.19	900	0.030478	1.02	164	0.052950	1.76	94
Non-nursing infants (<1 yr old):	0.015190	0.51	329	0.026702	0.89	187	0.036320	1.21	137
Children 1-6 yrs:	0.022019	0.73	227	0.042806	1.43	116	0.115859	3.86	43
Children 7-12 yrs:	0.011355	0.38	440	0.020366	0.68	245	0.035011	1.17	142
Males 13-19 yrs:	0.008302	0.28	602	0.013491	0.45	370	0.017578	0.59	284
Males 20+ yrs:	0.006178	0.21	809	0.011017	0.37	453	0.017598	0.59	284
Seniors 55+:	0.005710	0.19	875	0.010036	0.33	498	0.016189	0.54	308
Pacific:	0.009652	0.32	518	0.020575	0.69	243	0.082441	2.75	60

ATTACHMENT 2

U.S. Environmental Protection Agency Ver. 7.76
DEEM Chronic analysis for PYRACLOSTROBIN (1989-92 data)
Residue file name: C:\deem\pyraclostrobin\pyraclo4.rs7
Adjustment factor #2 used.
Analysis Date 07-26-2002/13:54:23 Residue file dated: 07-26-2002/13:52:06/8
Reference dose (RfD, Chronic) = .011 mg/kg bw/day

Total exposure by population subgroup

Population Subgroup	Total Exposure mg/kg body wt/day	Total Exposure Percent of Rfd
U.S. Population (total)	0.002958	26.9%
U.S. Population (spring season)	0.002874	26.1%
U.S. Population (summer season)	0.002993	27.2%
U.S. Population (autumn season)	0.003123	28.4%
U.S. Population (winter season)	0.002828	25.7%
Northeast region	0.003109	28.3%
Midwest region	0.002991	27.2%
Southern region	0.002738	24.9%
Western region	0.003139	28.5%
Hispanics	0.003056	27.8%
Non-hispanic whites	0.002971	27.0%
Non-hispanic blacks	0.002719	24.7%
Non-hisp/non-white/non-black	0.003385	30.8%
All infants (< 1 year)	0.003397	30.9%
Nursing infants	0.001617	14.7%
Non-nursing infants	0.004146	37.7%
Children 1-6 yrs	0.008169	74.3%
Children 7-12 yrs	0.004546	41.3%
Females 13-19 (not preg or nursing)	0.002657	24.2%
Females 20+ (not preg or nursing)	0.002025	18.4%
Females 13-50 yrs	0.002193	19.9%
Females 13+ (preg/not nursing)	0.002409	21.9%
Females 13+ (nursing)	0.003342	30.4%
Males 13-19 yrs	0.002806	25.5%
Males 20+ yrs	0.002073	18.8%
Seniors 55+	0.002007	18.2%
Pacific Region	0.003171	28.8%

ATTACHMENT 3

Filename: C:\deem\pyraclostrobin\pyraclo4.rs7 Chemical: Pyraclostrobin
RfD(Chronic): .011 mg/kg bw/day NOEL(Chronic): 3.4 mg/kg bw/day
RfD(Acute): 3 mg/kg bw/day NOEL(Acute): 5 mg/kg bw/day
Date created/last modified: 07-26-2002/13:52:06/8 Program ver. 7.76

Food Code	Crop Grp	Food Name	Def Res (ppm)	Adj.Factors #1	#2
1	13A	Blackberries	1.300000	1.000	0.240
2	13A	Boysenberries	1.300000	1.000	0.240
3	13A	Dewberries	1.300000	1.000	0.240
4	13A	Loganberries	1.300000	1.000	0.240
5	13A	Raspberries	1.300000	1.000	0.240
6	13A	Youngberries	1.300000	1.000	0.240
7	13B	Blueberries	1.300000	1.000	0.240
10	13B	Currants	1.300000	1.000	0.240
11	13B	Elderberries	1.300000	1.000	0.240
12	13B	Gooseberries	1.300000	1.000	0.240
13	0	Grapes	2.000000	1.000	0.290
14	0	Grapes-raisins	7.000000	4.300	0.290
15	0	Grapes-juice	2.000000	1.000	0.290
16	13B	Huckleberries	1.300000	1.000	0.240
17	0	Strawberries	0.400000	1.000	0.240
20	10	Citrus citron	0.700000	1.000	0.400
22	10	Grapefruit-peeled fruit	0.700000	1.000	0.400
23	10	Grapefruit-juice	0.700000	1.000	0.400
24	10	Kumquats	0.700000	1.000	0.400
26	10	Lemons-peeled fruit	0.700000	1.000	0.400
27	10	Lemons-peel	0.700000	1.000	0.400
28	10	Lemons-juice	0.700000	1.000	0.400
30	10	Limes-peeled fruit	0.700000	1.000	0.400
31	10	Limes-peel	0.700000	1.000	0.400
32	10	Limes-juice	0.700000	1.000	0.400
33	10	Oranges-juice-concentrate	0.700000	3.700	0.400
34	10	Oranges-peeled fruit	0.700000	1.000	0.400
35	10	Oranges-peel	0.700000	1.000	0.400
36	10	Oranges-juice	0.700000	1.000	0.400
37	10	Tangelos	0.700000	1.000	0.400
38	10	Tangerines	0.700000	1.000	0.400
39	10	Tangerines-juice	0.700000	1.000	0.400
40	14	Almonds	0.040000	1.000	0.150
41	14	Brazil nuts	0.040000	1.000	0.150
42	14	Cashews	0.040000	1.000	0.150
43	14	Chestnuts	0.040000	1.000	0.150
44	14	Filberts (hazelnuts)	0.040000	1.000	0.150
45	14	Hickory nuts	0.040000	1.000	0.150
46	14	Macadamia nuts (bush nuts)	0.040000	1.000	0.150
47	14	Pecans	0.040000	1.000	0.150
48	14	Walnuts	0.040000	1.000	0.150
49	14	Butter nuts	0.040000	1.000	0.150
50	0	Pistachio nuts	0.700000	1.000	0.150
51	14	Beechnuts	0.040000	1.000	0.150
59	12	Apricots	0.900000	1.000	0.250
60	12	Apricots-dried	0.900000	6.000	0.250
61	12	Cherries	0.900000	1.000	0.250
62	12	Cherries-dried	0.900000	4.000	0.250
63	12	Cherries-juice	0.900000	1.500	0.250
64	12	Nectarines	0.900000	1.000	0.250
65	12	Peaches	0.900000	1.000	0.250
66	12	Peaches-dried	0.900000	7.000	0.250
67	12	Plums (damsons)	0.900000	1.000	0.250
68	12	Plums-prunes (dried)	0.900000	1.000	0.250
69	12	Plums/prune-juice	0.900000	1.400	0.250
72	0	Bananas	0.040000	1.000	1.000
73	0	Bananas-dried	0.040000	3.900	1.000
94	0	Plantains-ripe	0.040000	1.000	1.000
124	1CD	Ginger	0.040000	1.000	1.000

137	1CD	Turmeric	0.040000	1.000	1.000
139	8	Paprika	1.400000	1.000	1.000
141	9A	Melons-cantaloupes-juice	0.500000	1.000	0.090
142	9A	Melons-cantaloupes-pulp	0.500000	1.000	0.090
143	9A	Casabas	0.500000	1.000	0.090
144	9A	Crenshaws	0.500000	1.000	0.090
145	9A	Melons-honeydew	0.500000	1.000	0.090
146	9A	Melons-persian	0.500000	1.000	0.090
147	9A	Watermelon	0.500000	1.000	0.090
148	9B	Cucumbers	0.500000	1.000	0.090
149	9B	Pumpkin	0.500000	1.000	0.090
150	9B	Squash-summer	0.500000	1.000	0.090
151	9B	Squash-winter	0.500000	1.000	0.090
152	9B	Bitter melon	0.500000	1.000	0.090
154	8	Eggplant	1.400000	1.000	0.170
155	8	Peppers-sweet(garden)	1.400000	1.000	0.170
156	8	Peppers-chilli incl jalapeno	1.400000	1.000	0.170
157	8	Peppers-other	1.400000	1.000	0.170
158	8	Pimientos	1.400000	1.000	0.170
159	8	Tomatoes-whole	1.400000	1.000	0.540
160	8	Tomatoes-juice	1.400000	1.500	0.540
161	8	Tomatoes-puree	1.400000	1.000	0.540
162	8	Tomatoes-paste	1.400000	5.400	0.540
163	8	Tomatoes-catsup	1.400000	2.500	0.540
164	8	Groundcherries	1.400000	1.000	0.540
195	O	Grapes-leaves	2.000000	1.000	0.290
201	1CD	Taro-root	0.040000	1.000	0.560
202	3	Garlic	0.900000	1.000	0.230
203	1CD	Artichokes-jerusalem	0.040000	1.000	0.560
204	3	Leeks	0.900000	1.000	0.230
205	3	Onions-dry-bulb (cipollini)	0.900000	1.000	0.230
206	3	Onions-dehydrated or dried	0.900000	9.000	0.230
207	1C	Potatoes/white-whole	0.040000	1.000	0.330
208	1C	Potatoes/white-unspecified	0.040000	1.000	0.330
209	1C	Potatoes/white-peeled	0.040000	1.000	0.330
210	1C	Potatoes/white-dry	0.040000	1.000	0.330
211	1C	Potatoes/white-peel only	0.040000	1.000	0.330
213	2	Radishes-tops	16.000000	1.000	1.000
217	3	Shallots	0.900000	1.000	0.230
218	1CD	Sweet potatoes (incl yams)	0.040000	1.000	0.560
221	1CD	Yambean tuber (jicama)	0.040000	1.000	0.560
222	1CD	Cassava (yuca blanca)	0.040000	1.000	0.560
224	1CD	Yautia (tannier)	0.040000	1.000	0.560
227	6C	Beans-dry-great northern	0.300000	1.000	0.250
228	6C	Beans-dry-kidney	0.300000	1.000	0.250
229	6C	Beans-dry-lima	0.300000	1.000	0.250
230	6C	Beans-dry-navy (pea)	0.300000	1.000	0.250
231	6C	Beans-dry-other	0.300000	1.000	0.250
232	6C	Beans-dry-pinto	0.300000	1.000	0.250
249	6C	Beans-dry-broadbeans	0.300000	1.000	0.250
251	6C	Beans-dry-pigeon beans	0.300000	1.000	0.250
256	O	Beans-dry-hyacinth	0.300000	1.000	0.250
258	6C	Beans-dry-blackeye peas/cowpea	0.300000	1.000	0.250
259	6C	Beans-dry-garbanzo/chick pea	0.300000	1.000	0.250
262	3	Onions-green	0.900000	1.000	0.230
265	15	Barley	0.400000	1.000	0.010
272	15	Rye-rough	0.040000	1.000	0.010
273	15	Rye-germ	0.040000	1.000	0.010
274	15	Rye-flour	0.040000	1.000	0.010
276	15	Wheat-rough	0.200000	1.000	0.010
277	15	Wheat-germ	0.200000	1.000	0.010
278	15	Wheat-bran	0.200000	1.000	0.010
279	15	Wheat-flour	0.200000	1.000	0.010
282	1A	Sugar-beet	0.200000	1.000	0.250
293	O	Peanuts-oil	0.100000	1.000	0.270
315	O	Grapes-wine and sherry	2.000000	1.000	0.290
318	D	Milk-nonfat solids	0.100000	1.000	1.000
319	D	Milk-fat solids	0.100000	1.000	1.000
320	D	Milk sugar (lactose)	0.100000	1.000	1.000
321	M	Beef-meat byproducts	0.200000	1.000	1.000

323	M	Beef-dried	0.100000	1.920	1.000
324	M	Beef-fat w/o bones	0.100000	1.000	1.000
326	M	Beef-liver	1.500000	1.000	1.000
327	M	Beef-lean (fat/free) w/o bones	0.100000	1.000	1.000
328	M	Goat-meat byproducts	0.200000	1.000	1.000
330	M	Goat-fat w/o bone	0.100000	1.000	1.000
332	M	Goat-liver	1.500000	1.000	1.000
333	M	Goat-lean (fat/free) w/o bone	0.100000	1.000	1.000
334	M	Horsemeat	0.100000	1.000	1.000
336	M	Sheep-meat byproducts	0.200000	1.000	1.000
338	M	Sheep-fat w/o bone	0.100000	1.000	1.000
340	M	Sheep-liver	1.500000	1.000	1.000
341	M	Sheep-lean (fat free) w/o bone	0.100000	1.000	1.000
342	M	Pork-meat byproducts	0.200000	1.000	1.000
344	M	Pork-fat w/o bone	0.100000	1.000	1.000
346	M	Pork-liver	1.500000	1.000	1.000
347	M	Pork-lean (fat free) w/o bone	0.100000	1.000	1.000
378	O	Bananas-juice	0.040000	1.000	1.000
379	1A	Sugar-beet-molasses	0.200000	1.000	0.250
380	13A	Blackberries-juice	1.500000	1.000	0.240
386	9B	Christophine	0.500000	1.000	0.090
392	O	Grapes-juice-concentrate	2.000000	3.000	0.290
397	9B	Okra/chinese (luffa)	0.500000	1.000	0.090
398	D	Milk-based water	0.100000	1.000	1.000
402	12	Peaches-juice	0.900000	1.000	0.250
403	O	Peanuts-butter	0.050000	1.890	0.260
410	12	Apricot juice	0.900000	1.000	0.250
415	9B	Squash-spaghetti	0.500000	1.000	0.090
416	O	Strawberries-juice	0.400000	1.000	0.240
420	10	Tangerines-juice-concentrate	0.700000	3.200	0.400
423	8	Tomatoes-dried	1.400000	14.300	0.540
431	14	Walnut oil	0.040000	1.000	0.150
436	9A	Watermelon-juice	0.500000	1.000	0.090
437	15	Wheat-germ oil	0.200000	1.000	0.010
439	9B	Wintermelon	0.500000	1.000	0.090
441	10	Grapefruit-juice-concentrate	0.700000	3.930	0.400
442	10	Lemons-juice-concentrate	0.700000	5.700	0.400
443	10	Limes-juice-concentrate	0.700000	3.000	0.400
448	10	Grapefruit peel	0.700000	1.000	0.400
480	O	Plantains-green	0.040000	1.000	1.000
481	O	Plantains-dried	0.040000	3.900	1.000
497	9B	Balsam pear	0.500000	1.000	0.090
940	O	Peanuts-hulled	0.050000	1.000	0.270

Pyraclostrobin Acute and Chronic Dietary Exposure Assessments for the Section 3 Reg……DP #284524

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