

US EPA ARCHIVE DOCUMENT

103801

10-16-96



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

OCT 16 1996

OCT 16 1996

OFFICE OF
PREVENTION, PESTICIDES, AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Oxamyl in Support of the Reregistration Eligibility Decision.

FROM: Brian Steinwand *BS*
Dietary Risk Evaluation Section
Science Analysis Branch/HED (7509C)

Through: Elizabeth Doyle, Section Head *EA Doyle*
Dietary Risk Evaluation Section
SAB/Health Effects Division *WDM*

TO: Mike Metzger, Chief
Risk Characterization Analysis Branch
Health Effects Division (7509C)

Action Requested

Provide a dietary exposure analysis to estimate the chronic and acute dietary exposure and risk from oxamyl for uses which are being supported through reregistration.

Discussion

Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.0002 mg/kg bwt/day, based on a NOEL of 0.2 mg/kg bwt/day from a rat developmental toxicity study with an uncertainty factor of 1000 (an extra UF of 10 was used to account for no neurotoxicity data and no NOEL in the 1 year dog study) that demonstrated decreased fetal body weight as an endpoint (See RfD Peer Review Report, 8/15/96). Oxamyl is classified as a Group E - no evidence of carcinogenicity in rats or mice by the HED RFDC, and thus, there are no carcinogenicity concerns with this chemical.

The endpoint for acute dietary risk assessment is the NOEL of 0.5 mg/kg bwt/day based on cholinergic signs (tremors) observed in dams at 0.8 mg/kg/day (LOEL).

Residue Information

Tolerances for oxamyl are published in 40 CFR §180.303 and 180.4575. Adequate data are available to reassess the established tolerances for oxamyl residues in/on the following commodities: bananas (including plantains), cantaloupe, celery, citrus fruits, cottonseed, cucumbers, eggplant, ginger, honeydews, dry bulb onions (including garlic) peanuts, pears, peppermint, peppers (bell and non-bell), pineapples, potatoes, pumpkins, spearmint, summer squash, sweet potatoes, tomatoes, watermelon, winter squash and yams. CBRS recommends that the established tolerances for residues in/on celery should be increased from 3 ppm to 10 ppm, and onions from 0.1 ppm to 0.2 ppm, while the following tolerances should be lowered: soybeans from 0.2 ppm to 0.1 ppm; peanuts from 0.2 ppm to 0.1 ppm; sweet peppers from 3 ppm to 2 ppm; pumpkins from 2 ppm to 0.2 ppm; and winter squash from 2 ppm to 0.2 ppm (See RED chapter). Some anticipated residues and percent crop treated refinements were used in the dietary risk analyses.

CBRS has included anticipated residues (ARs) to be used by DRES in its dietary exposure analysis which were developed from both BEAD estimates of percent crop treated and USDA Pesticide Data Program (PDP) data. The proposed increase in tolerances for celery and onions is due to a change in use patterns. The ARs provided by CBRS reflect the reassessed tolerance values. Thus, for the purposes of refining the DRES registration value, tolerance level values and percent crop treated information were used on the commodities celery and dry bulb onions.

Per recommendations of CBRS, the concentration factors were turned off for the following commodities: apples (dried, juice), bananas (dried), grapefruit (juice), lemons (juice), limes (juice), onions (dried), oranges (juice), pears (dried), pineapple (dried, juice), potatoes (dried), tangerine (juice), and tomatoes (catsup, juice, paste, puree) and soybeans (sprouted).

Results

A summary of the residue information included in this analysis is attached as Table 1. A DRES chronic exposure analysis was performed using tolerance level residues and 100 percent crop treated information to estimate the Theoretical Maximum Residue Contribution (TMRC) for the general population and 22 subgroups. Percent crop treated data and anticipated residue data were used to calculate the Anticipated Residue Concentration (ARC) for those same population subgroups for certain commodities. Summaries of the TMRCs, ARCs and their representations as percentages of the Reference Dose (RfD) are included as Table 2 and 3. A summary of the residue information and the associated ARCs using the recommended tolerance increases and or decreases and RAC revocations are attached as Table 4, 5, and 6.

Existing tolerances result in an ARC which represents 713% of the RfD for the U.S. general population. The highest subgroups, Children (1-6 years old) occupies 1405% of the RfD and Children (7-10 years old) occupies 1056% of the RfD. The commodities which contribute most to this risk figure are tomatoes at 1040%, oranges at 94% and apples at 103% (See Table 3). Incorporating the recommendations of CBRS would result in an ARC of 451% of the RfD for the U.S. general population, 821% for Children (1-6 years old), and 625% for Non-Nursing Infants (<1 year old) (See Table 5). The commodities which contribute most to this risk figure are tomatoes at 515%, and apples at 83% (See Table 6).

The analysis for oxamyl is not a worst case estimate of dietary exposure with all residues at tolerance level and 100 percent of the commodities assumed to be treated with oxamyl. Some refinements such as percent crop treated data and anticipated residues have been incorporated. Based on the risk estimates calculated in this analysis, it appears that chronic dietary risk from the uses recommended through reregistration, is of concern.

Acute Exposure:

Table 7 demonstrates results which would occur following the recommendations of CBRS.

The DRES detailed acute analysis estimates the distribution of single-day exposures for the overall U.S. population and certain subgroups. The analysis evaluates individual food consumption as reported by respondents in the USDA 1977-78 Nationwide Food Consumption Survey (NFCS) and accumulates exposure to the chemical for each commodity. Each analysis assumes uniform distribution of Oxamyl in the commodity supply.

The Margin of Exposure (MOE) is a measure of how close the high end exposure comes to the NOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure ($\text{NOEL/exposure} = \text{MOE}$). Generally, acute dietary margins of exposure greater than 100 tend to cause no dietary concern when results are compared to animal-derived data. However, in this instance, in order to calculate the MOE, an extra safety factor of 10 was used in addition to the 100 (i.e., $\text{MOE} = 1000$) due to the lack of acute and subchronic neurotoxicity data (data gaps) as well as the severity of effects (tremors and ChE inhibition) seen in dams at the 0.8 mg/kg/day dose (See Toxicology Endpoint Selection Document, 10/15/96).

The MOE values (See Table 7) demonstrate that there is cause for concern regarding the acute dietary exposure from oxamyl regarding the proposed uses. All subgroups exceed the Agency's level of concern regarding acute exposure and before any reregistration actions occur, data refinements should be performed to give a more accurate acute dietary risk exposure.

Attachments

cc: DRES; Caswell 561A

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 561A

PAGE: 1

DATE: 09/27/96

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No: 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 3.000000	0.030000		100.00	0.030000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004HA	LEMONS-PEEL	21 COOKED-NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004JA	LEMONS-JUICE	21 COOKED-NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005AA	LEMONS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005HA	LIMES-PEEL	21 COOKED-NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006AB	ORANGES-PULP	21 COOKED-NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	NOPET#	P 3.000000	0.030000		100.00	0.030000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	NOPET#	P 3.000000	0.030000		100.00	0.030000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	7E1954	P 2.000000	0.076000		100.00	0.076000
04001AA	APPLES-FRESH	21 COOKED-NFS	7E1954	P 2.000000	0.076000		100.00	0.076000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	7E1954	P 2.000000	0.076000		100.00	0.076000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7E1954	P 2.000000	0.076000		100.00	0.076000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	7E1954	P 2.000000	0.076000		100.00	0.076000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	7E1954	P 2.000000	0.076000		100.00	0.076000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 561A

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 Opp Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	7E1954	P 2.000000	0.076000		100.00	0.076000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	7E1954	P 2.000000	0.076000		100.00	0.076000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	7E1954	P 2.000000	0.076000		100.00	0.076000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	51 COOKED-CANNED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	1F2448	P 2.000000	0.040000		100.00	0.040000
04003DA	PEARS-DRIED	21 COOKED-NFS	1F2448	P 2.000000	0.040000		100.00	0.040000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	31 COOKED-NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	21 COOKED-FRESH OR CANNED	3E2833	P 0.300000	0.076000		100.00	0.076000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	7F2000	P 1.000000	0.010000		100.00	0.010000
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	7F2000	P 1.000000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	7F2000	P 1.000000	0.010000		100.00	0.010000
06016AA	PLANTAINS	21 COOKED-NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3E2833	P 0.300000	0.076000		100.00	0.076000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	3E2833	P 0.300000	0.076000		100.00	0.076000
07006AA	CHICORY	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	0F2288	P 2.000000	0.720000		100.00	0.720000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.720000		100.00	0.720000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	0F2288	P 2.000000	0.720000		100.00	0.720000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.400000		100.00	0.400000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.060000		100.00	0.060000
10008AA	WATERMELON	21 COOKED-NFS	0F2288	P 2.000000	0.060000		100.00	0.060000
10010AA	CUCUMBERS	11 RAW-FRESH OR NFS	0F2288	P 2.000000	0.280000		100.00	0.280000
10010AA	CUCUMBERS	10 RAW-FRESH-PICKLED, CORNED, OR CURED	0F2288	P 2.000000	0.280000		100.00	0.280000
10010AA	CUCUMBERS	21 COOKED-NFS	0F2288	P 2.000000	0.280000		100.00	0.280000
10010AA	CUCUMBERS	21 COOKED-NFS	3E2912	P 0.200000	0.004000		100.00	0.004000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	3E2912	P 0.200000	0.004000		100.00	0.004000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	3E2912	P 0.200000	0.004000		100.00	0.004000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.360000		100.00	0.360000

6

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate)	Develop tox- rat	Decreased fetal body weight	PAD1 UF -->1000	Chronic feeding- dog	WHO reviewed 1985
Caswell #561A	NOEL= 0.2000 mg/kg		OPP RfD= 0.000200	(Study is supplementary)	HED reviewed 10/24/86
CAS No. 23135-22-0	0.00 ppm		EPA RfD= 0.025000	Extra UF of 10 used to	EPA verified 12/09/86
A.I. CODE: 103801	LEL= 0.5000 mg/kg	No evidence of carcinogenicity in rats or mice.		account for no neurotox	RFD/PR reviewed 08/15/96
CFR No. 180.303	ONCO: E/Not likely (RFDC)			data and no NOEL in 1yr	On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
10013AA	SQUASH-SUMMER	21 COOKED-NFS	0F2288	P 2.000000	0.360000		100.00	0.360000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	0F2288	P 0.200000	0.036000		100.00	0.036000
10014AA	SQUASH-WINTER	21 COOKED-NFS	0F2288	P 0.200000	0.036000		100.00	0.036000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	0F2288	P 0.200000	0.036000		100.00	0.036000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	1E2566	P 2.000000	0.660000		100.00	0.660000
11001AA	EGGPLANT	21 COOKED-NFS	1E2566	P 2.000000	0.660000		100.00	0.660000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	1E2566	P 2.000000	0.660000		100.00	0.660000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	9F2266	P 2.000000	0.720000		100.00	0.720000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	9F2266	P 2.000000	0.720000		100.00	0.720000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	4E3048	P 5.000000	5.000000		100.00	5.000000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	4E3048	P 2.000000	0.720000		100.00	0.720000
11004AA	PIMIENTOS	21 COOKED-NFS	4E3048	P 2.000000	0.720000		100.00	0.720000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	4E3048	P 2.000000	0.720000		100.00	0.720000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005RA	TOMATOES-PUREE	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005TA	TOMATOES-PASTE	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
13002AA	CELERY	10 RAW-FRESH OR NFS	5F1650	P 10.000000	0.160000		100.00	0.160000
13002AA	CELERY	21 COOKED-NFS	5F1650	P 10.000000	0.160000		100.00	0.160000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 3.000000	3.000000		100.00	3.000000
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
14003AA	CARROTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	21 COOKED-NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	7F1937	P 0.100000	0.002000		100.00	0.002000

7

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	51 COOKED-CANNED	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	21 COOKED-NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	7F1937	P 0.100000	0.002000		100.00	0.002000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.100000		100.00	0.100000
14010AA	LEeks	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	7F1937	P 0.200000	0.010000		100.00	0.010000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	7F1937	P 0.200000	0.010000		100.00	0.010000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AB	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14016AA	SALSIFY	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	21 COOKED-NFS	7F1937	P 0.100000	0.001000		100.00	0.001000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.001000		100.00	0.001000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	7F1937	P 0.100000	0.001000		100.00	0.001000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14021AA	PARSNIPS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.100000		100.00	0.100000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	9F2238	P 0.100000	0.001000		100.00	0.001000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	9F2238	P 0.100000	0.001000		100.00	0.001000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2238	P 0.100000	0.001000		100.00	0.001000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	0F2366	P 0.100000	0.200000C		100.00	0.200000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000

8

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 561A

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotoxic data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
16004AA	ONIONS-GREEN	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	22 COOKED-FRESH-BAKED	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	7F1907	P 0.200000	0.030000		100.00	0.030000
27003WA	COTTONSEED-MEAL	18 PROCESSED OIL	9F2238	P 0.100000	0.001000		100.00	0.001000
270070A	PEANUTS-OIL	18 PROCESSED OIL	0F2366	P 0.100000	0.001000		100.00	0.001000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	0F2366	P 0.100000	0.001000		100.00	0.001000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000

TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Oxamyl (Vydate)	Develop tox- rat	0.2000 mg/kg	Decreased fetal body weight	PADI	UF -->1000	Chronic feeding- dog	WHO reviewed 1985			
Caswell #561A	NOEL=	0.00 ppm		OPP RfD=	0.000200	(Study is supplementary)	HED reviewed 10/24/86			
CAS No. 23135-22-0	LEL=	0.5000 mg/kg	No evidence of carcinogenicity in rats or mice.	EPA RfD=	0.025000	Extra UF of 10 used to account for no neurotoxic data and no NOEL in 1yr dog study.	EPA verified 12/09/86			
A.I. CODE: 103801	ONCO: E/Not Likely (RfDC)	0.00 ppm					RfD/PR reviewed 08/15/96			
CFR No. 180.303							On IRIS.			

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES		%RFD
	CURRENT TMRC*	NEW TMRC**			ARC	ARC	
U.S. POPULATION - 48 STATES	0.013281	0.013281	6640.638000	0.000000	0.001426		713.12200
U.S. POPULATION - SPRING SEASON	0.012852	0.012852	6426.245500	0.000000	0.001336		667.91150
U.S. POPULATION - SUMMER SEASON	0.013025	0.013025	6512.329000	0.000000	0.001524		762.05850
U.S. POPULATION - FALL SEASON	0.013445	0.013445	6722.371500	0.000000	0.001381		690.45400
U.S. POPULATION - WINTER SEASON	0.013691	0.013691	6845.538500	0.000000	0.001377		688.61000
NORTHEAST REGION	0.015952	0.015952	7976.048000	0.000000	0.001463		731.51800
NORTH CENTRAL REGION	0.013061	0.013061	6530.377000	0.000000	0.001428		713.84250
SOUTHERN REGION	0.010779	0.010779	5389.649500	0.000000	0.001228		614.16100
WESTERN REGION	0.014184	0.014184	7092.204000	0.000000	0.001597		798.34300
HISPANICS	0.016576	0.016576	8288.147500	0.000000	0.001677		838.53050
NON-HISPANIC WHITES	0.013184	0.013184	6592.166500	0.000000	0.001450		725.05350
NON-HISPANIC BLACKS	0.011696	0.011696	5848.089000	0.000000	0.000984		492.07250
NON-HISPANIC OTHERS	0.017050	0.017050	8525.151000	0.000000	0.001369		684.69350
NURSING INFANTS (< 1 YEAR OLD)	0.023438	0.023438	11719.035000	0.000000	0.000883		441.61300
NON-NURSING INFANTS (< 1 YEAR OLD)	0.038762	0.038762	19380.757500	0.000000	0.001736		868.16050
FEMALES (13+ YEARS, PREGNANT)	0.010760	0.010760	5380.044000	0.000000	0.001209		604.35150
FEMALES 13+ YEARS, NURSING	0.011062	0.011062	5531.038000	0.000000	0.001266		632.78400
CHILDREN (1-6 YEARS OLD)	0.033535	0.033535	16767.537500	0.000000	0.002811		1405.30250
CHILDREN (7-12 YEARS OLD)	0.019190	0.019190	9595.004500	0.000000	0.002114		1056.86200
MALES (13-19 YEARS OLD)	0.011288	0.011288	5643.908000	0.000000	0.001449		724.70900
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.010534	0.010534	5267.160500	0.000000	0.001243		621.33450
MALES (20 YEARS AND OLDER)	0.008480	0.008480	4239.824500	0.000000	0.001093		546.48900
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)	0.009915	0.009915	4957.680000	0.000000	0.001087		543.46850

*Current TMRC does not include new or pending tolerances.
 **New TMRC includes new, pending, and published tolerances.

10

TABLE 3

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96	On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
06002AA	BANANAS-UNSPECIFIED	0.300	P	0.002432	1.216	0.07600	0.000616	0.308
	22 COOKED-FRESH-BAKED							
06002AB	BANANAS-FRESH	0.300	P	0.214999	107.500	0.07600	0.048362	24.181
	10 RAW-FRESH OR NFS					0.07600	0.001040	0.520
	21 COOKED-NFS					0.07600	0.005064	2.532
	31 COOKED-FRESH OR CANNED							
06002DA	BANANAS-DRIED	0.300	P	0.001353	0.677	0.07600	0.000300	0.150
	10 RAW-FRESH OR NFS					0.07600	0.000043	0.022
	21 COOKED-NFS							
06013AA	PINEAPPLE-FRESH,PULP	1.000	P	0.053679	26.840	0.01000	0.000133	0.067
	10 RAW-FRESH OR NFS					0.01000	0.000010	0.005
	21 COOKED-NFS					0.01000	0.000393	0.197
	31 COOKED-FRESH OR CANNED							
06013DA	PINEAPPLE-DRIED	1.000	P	0.000347	0.174	0.01000	0.000003	0.002
	10 RAW-FRESH OR NFS							
06013JA	PINEAPPLE-FRESH,JUICE	1.000	P	0.245037	122.519	0.01000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.01000	0.001119	0.560
	15 RAW-FRESH OR CANNED					0.01000	0.000012	0.006
	21 COOKED-NFS					0.01000	0.001319	0.660
	31 COOKED-FRESH OR CANNED							
06016AA	PLANTAINS	0.300	P	0.000652	0.326	0.07600	0.000000	0.000
	21 COOKED-NFS					0.07600	0.000093	0.047
	23 COOKED-FRESH-BOILED					0.07600	0.000072	0.036
	25 COOKED-FRESH-FRIED							
07006AA	CHICORY	0.100	P	0.000003	0.002	0.10000	0.000003	0.002
	21 COOKED-NFS							
13016AA	FENNEL	3.000	P	0.000000	0.000	3.00000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
270030A	COTTONSEED-OIL	0.200	P	0.007271	3.636	0.03000	0.001091	0.546
	18 PROCESSED OIL							
27003WA	COTTONSEED-MEAL	0.200	P	0.000102	0.051	0.03000	0.000015	0.008
	18 PROCESSED OIL							
CROP GROUP TOTALS FOR UNSPECIFIED:				0.525875	262.938	0.059688		29.844

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg CAS 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not Likely (RFDC)	Decreased fetal body weight	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.						

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)		%RFD
		0.100	P			0.10000	ARC (UG/KG/DAY)	
14001AA	BEETS-ROOTS 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100	P	0.002228	1.114	0.10000	0.000000	0.000
14003AA	CARROTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 23 COOKED-FRESH-BOILED 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED	0.100	P	0.033323	16.662	0.10000	0.000271	0.136
14009AA	ARTICHOKES-JERUSALEM 00 NOT SPECIFIED (NO CONSUMPTION)	0.100	P	0.000000	0.000	0.00200	0.000120	0.060
14013AA	POTATOES(WHITE)-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100	P	0.057998	28.999	0.00200	0.000222	0.111
14013AB	POTATOES(WHITE)-UNSPECIFIED 22 COOKED-FRESH-BAKED	0.100	P	0.000019	0.010	0.00300	0.000033	0.017
14013AC	POTATOES(WHITE)-PEELED 22 COOKED-FRESH-BAKED 21 COOKED-NFS	0.100	P	0.164854	82.427	0.00300	0.000720	0.360
14013DA	POTATOES(WHITE)-DRY 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.100	P	0.002212	1.106	0.00300	0.000001	0.001
14013HA	POTATOES(WHITE)-PEEL ONLY 22 COOKED-FRESH-BAKED	0.100	P	0.000000	0.000	0.00300	0.000464	0.232
14014AA	RADISHES-ROOTS 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.100	P	0.000005	0.003	0.00300	0.000234	0.117
14015AA	RUTABAGAS-ROOTS 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100	P	0.001073	0.537	0.00300	0.002608	1.304
14016AA	SALSIFY(OYSTER PLANT) 21 COOKED-NFS	0.100	P	0.000000	0.000	0.00300	0.001640	0.820
14018AA	SWEETPOTATOES (INCLUDING YAMS) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED	0.100	P	0.006668	3.334	0.00300	0.000035	0.018
14019AA	TURNIPS-ROOTS 10 RAW-FRESH OR NFS	0.100	P	0.000935	0.468	0.00300	0.000032	0.016

12

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
14021AA	PARSNIPS	0.100	P	0.000000	0.000	0.10000	0.000880	0.440
14030AA	PARSLEY ROOTS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
25002SA	BEEET SUGAR	0.100	P	0.081838	40.919	0.10000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.10000	0.007349	3.675
	10 RAW-FRESH OR NFS					0.10000	0.018177	9.089
	21 COOKED-NFS					0.10000	0.015410	7.705
	22 COOKED-FRESH-BAKED					0.10000	0.040903	20.452
	31 COOKED-FRESH OR CANNED					0.10000	0.093566	46.783
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES: 175.577								

14007AA	GARLIC	0.100	P	0.000161	0.081	0.00200	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00200	0.000002	0.001
	21 COOKED-NFS					0.00200	0.000001	0.001
14010AA	LEEKES	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.10000	0.000134	0.067
14011AA	ONIONS-DRY-BULB (CIPOLLINI)	0.200	P	0.017906	8.953	0.01000	0.001280	0.640
	10 RAW-FRESH OR NFS					0.01000	0.000220	0.110
	21 COOKED-NFS					0.01000	0.000157	0.079
	22 COOKED-FRESH-BAKED					0.01000	0.000014	0.007
	31 COOKED-FRESH OR CANNED					0.01000	0.000000	0.000
14011DA	ONIONS-DEHYDRATED OR DRIED	0.200	P	0.000144	0.072	0.01000	0.000000	0.000
	12 RAW-FRESH-DRIED					0.01000	0.000000	0.000
14017AA	SHALLOTS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.10000	0.000131	0.066
16004AA	ONIONS-GREEN	0.100	P	0.000150	0.075	0.10000	0.000010	0.005
	10 RAW-FRESH OR NFS					0.10000	0.000009	0.005
	21 COOKED-NFS					0.10000	0.000009	0.005
	25 COOKED-FRESH-FRIED					0.10000	0.001958	0.979
CROP GROUP TOTALS FOR BULB VEGETABLES: 0.018361 9.181								

3

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 4

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate)	Develop tox- rat	Decreased fetal body weight	PADI UF -->1000	Chronic feeding- dog	WHO reviewed 1985	
Caswell #561A	NOEL= 0.2000 mg/kg	weight	OPP Rfd= 0.000200	(Study is supplementary)	HED reviewed 10/24/86	
CAS No. 23135-22-0	0.00 ppm		EPA Rfd= 0.025000	Extra UF of 10 used to	EPA verified 12/09/86	
A.I. CODE: 103801	LEL= 0.5000 mg/kg	No evidence of carcinog- enicity in rats or mice.		account for no neurotox	Rfd/PR reviewed 08/15/96	
CFR No. 180.303	0.00 ppm			data and no NOEL in 1yr		
	ONCO: E/Not likely (RFDC)			dog study.	On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE (UG/KG/DAY)	TMRC	REFERENCE DOSES %RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
13002AA	CELERY	10.000	P	0.239787	119.894	0.16000	0.009529	4.765
	10 RAW-FRESH OR NFS					0.16000	0.003260	1.630
	21 COOKED-NFS							
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):								
				0.239787	119.894		0.012789	6.395
15006AA	PEANUTS-WHOLE	0.100	P	0.045383	22.692	0.00100	0.000002	0.001
	10 RAW-FRESH OR NFS					0.00100	0.000212	0.106
	21 COOKED-NFS					0.00100	0.000013	0.007
	22 COOKED-FRESH-BAKED							
15029AA	SOYBEANS-SPROUTED SEEDS	0.100	P	0.000000	0.000	0.20000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
270070A	PEANUTS-OIL	0.100	P	0.001668	0.834	0.00100	0.000008	0.004
	18 PROCESSED OIL							
270100A	SOYBEANS-OIL	0.100	P	0.119472	59.736	0.00100	0.000597	0.299
	18 PROCESSED OIL							
28023AA	SOYBEANS-UNSPECIFIED	0.100	P	0.000122	0.061	0.00100	0.000001	0.001
	21 COOKED-NFS							
28023AB	SOYBEANS-MATURE, SEEDS DRY	0.100	P	0.000149	0.075	0.00100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00100	0.000000	0.000
	21 COOKED-NFS					0.00100	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.00100	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.00100	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.00100	0.000000	0.000
28023WA	SOYBEANS-FLOUR, FULL FAT	0.100	P	0.001383	0.692	0.00100	0.000001	0.001
	21 COOKED-NFS					0.00100	0.000004	0.002
	22 COOKED-FRESH-BAKED					0.00100	0.000001	0.001
	31 COOKED-FRESH OR CANNED							
28023WB	SOYBEANS-FLOUR, LOW FAT	0.100	P	0.000237	0.119	0.00100	0.000001	0.001
	21 COOKED-NFS							
28023WC	SOYBEANS-FLOUR, DEFATTED	0.100	P	0.005873	2.937	0.00100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00100	0.000001	0.001
	21 COOKED-NFS					0.00100	0.000011	0.006
	22 COOKED-FRESH-BAKED					0.00100	0.000006	0.003
	51 COOKED-CANNED					0.00100	0.000010	0.005
	53 COOKED-CANNED-BOILED							
CROP GROUP TOTALS FOR LEGUME VEGETABLES:								
				0.174287	87.144		0.000868	0.434

14

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 5

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No: 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
11001AA	EGGPLANT 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.004256	2.128	0.66000	0.000000	0.000
11003AA	PEPPERS, SWEET, GARDEN 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.102649	51.325	0.66000	0.001405	0.703
11003AB	CHILLI PEPPERS 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000000	0.000	0.72000	0.006750	3.375
11003AD	PEPPERS-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS 51 COOKED-CANNED	5.000	P	0.026931	13.466	0.72000	0.017886	8.943
11004AA	PIMIENTOS 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	0.014743	7.372	5.00000	0.000000	0.000
11005AA	TOMATOES-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	1.600497	800.249	5.00000	0.000999	0.500
11005JA	TOMATOES-JUICE 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.118895	59.448	5.00000	0.025404	12.702
11005RA	TOMATOES-PUREE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	2.289650	1144.825	5.00000	0.000526	0.263
11005TA	TOMATOES-PASTE 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	2.000	P	1.061709	530.855	0.72000	0.000624	0.312
11005UA	TOMATOES-CATSUP 21 COOKED-NFS	2.000	P	0.546346	273.173	0.72000	0.000954	0.477
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):				5.765676	2882.838	0.72000	0.000545	0.273
						0.74000	0.172813	86.407
						0.74000	0.324017	162.009
						0.74000	0.095353	47.677
						0.74000	0.000000	0.000
						0.74000	0.043991	21.996
						0.74000	0.000255	0.128
						0.74000	0.429629	214.815
						0.74000	0.106554	53.277
						0.74000	0.085952	42.976
						0.74000	0.224780	112.390
						0.74000	0.293763	146.882
						0.74000	0.026978	13.489
						0.74000	0.072091	36.046
						0.74000	0.202148	101.074
							2.133417	1066.709

15

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.						

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE		
						(PPM)	(UG/KG/DAY)	
10002AA	CANTALOUPE-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000000	0.000	0.72000	0.000000	0.000
10002AB	CANTALOUPE-PULP 10 RAW-FRESH OR NFS	2.000	P	0.081328	40.664	0.72000	0.029278	14.639
10005AA	HONEYDEW MELONS 21 COOKED-NFS	2.000	P	0.066064	33.032	0.72000	0.000000	0.000
10008AA	WATERMELON 10 RAW-FRESH OR NFS	2.000	P	0.281220	140.610	0.40000	0.013213	6.607
10010AA	CUCUMBERS 10 RAW-FRESH OR NFS	2.000	P	0.200716	100.358	0.06000	0.008425	4.213
10011AA	PUMPKIN 21 COOKED-NFS	0.200	P	0.012325	6.163	0.06000	0.000012	0.006
10013AA	SQUASH-SUMMER 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	2.000	P	0.075623	37.812	0.28000	0.013558	6.779
10014AA	SQUASH-WINTER 21 COOKED-NFS	0.200	P	0.073006	36.503	0.28000	0.013663	6.832
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITS):						0.28000	0.000879	0.440
						0.36000	0.000803	0.402
						0.36000	0.012809	6.405
						0.03600	0.000000	0.000
						0.03600	0.000005	0.003
						0.03600	0.000020	0.010
						0.03600	0.000000	0.000
						0.03600	0.001119	0.560
						0.03600	0.000195	0.098
						0.093979	0.000000	46.990
02001AA	CITRUS CITRON 22 COOKED-FRESH-BAKED	3.000	P	0.000437	0.219	0.03000	0.000004	0.002
02002AA	GRAPEFRUIT-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
02002AB	GRAPEFRUIT-PULP 10 RAW-FRESH OR NFS	3.000	P	0.130959	65.480	0.03000	0.001310	0.655
02002JA	GRAPEFRUIT-JUICE 21 COOKED-NFS	3.000	P	0.420992	210.496	0.03000	0.000000	0.000
02003AA	KUMQUATS 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	3.000	P	0.000000	0.000	0.03000	0.003709	1.855
02004AA	LEMONS-UNSPECIFIED 10 RAW-FRESH OR NFS	3.000	P	0.011819	5.910	0.03000	0.000501	0.251
02004AA	LEMONS-UNSPECIFIED 10 RAW-FRESH OR NFS	3.000	P	0.011819	5.910	0.03000	0.000000	0.000
02004AA	LEMONS-UNSPECIFIED 10 RAW-FRESH OR NFS	3.000	P	0.011819	5.910	0.03000	0.000109	0.055

16

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate)	Develop tox- rat	Decreased fetal body weight	PADI UF -->1000	Chronic feeding- dog	WHO reviewed 1985	
Caswell #561A	NOEL= 0.2000 mg/kg		OPP Rfd= 0.000200	(Study is supplementary)	HED reviewed 10/24/86	
CAS No. 23135-22-0	0.00 ppm		EPA Rfd= 0.025000	Extra UF of 10 used to	EPA verified 12/09/86	
A.I. CODE: 103801	LEL= 0.5000 mg/kg	No evidence of carcinogenicity in rats or mice.		account for no neurotox data and no NOEL in 1yr	Rfd/PR reviewed 08/15/96	
CFR No. 180.303	ONCO: E/Not likely (RFDC)			dog study.	On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
02004AB	22 COOKED-FRESH-BAKED LEMONS-PULP	3.000	P	0.000468	0.234	0.03000	0.000009	0.005
	10 RAW-FRESH OR NFS					0.03000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.03000	0.000005	0.003
02004HA	LEMONS-PEEL	3.000	P	0.000124	0.062	0.03000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.03000	0.000001	0.001
	21 COOKED-NFS					0.03000	0.000252	0.126
02004JA	LEMONS-JUICE	3.000	P	0.147334	73.667	0.03000	0.000104	0.052
	10 RAW-FRESH OR NFS					0.03000	0.000450	0.225
	15 RAW-FRESH OR CANNED					0.03000	0.000667	0.334
	21 COOKED-NFS					0.03000	0.000000	0.000
02005AA	LIMES-UNSPECIFIED	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.03000	0.000000	0.000
02005AB	LIMES-PULP	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.03000	0.000000	0.000
02005HA	LIMES-PEEL	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.03000	0.000000	0.000
02005JA	LIMES-JUICE	3.000	P	0.019556	9.778	0.03000	0.000003	0.002
	10 RAW-FRESH OR NFS					0.03000	0.000186	0.093
	15 RAW-FRESH OR CANNED					0.03000	0.000007	0.004
	31 COOKED-FRESH OR CANNED					0.03000	0.000000	0.000
02006AA	ORANGES-UNSPECIFIED	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.03000	0.011402	5.701
02006AB	ORANGES-PULP	3.000	P	1.140602	570.301	0.03000	0.000004	0.002
	10 RAW-FRESH OR NFS					0.03000	0.000000	0.000
	21 COOKED-NFS					0.03000	0.000000	0.000
02006HA	ORANGES-PEEL	3.000	P	0.001040	0.520	0.03000	0.000000	0.000
	21 COOKED-NFS					0.03000	0.000008	0.004
	22 COOKED-FRESH-BAKED					0.03000	0.000002	0.001
	31 COOKED-FRESH OR CANNED					0.03000	0.171105	85.553
02006JA	ORANGES-JUICE	3.000	P	17.739961	8869.981	0.03000	0.006295	3.148
	15 RAW-FRESH OR CANNED					0.03000	0.000216	0.108
	31 COOKED-FRESH OR CANNED					0.03000	0.000676	0.338
02007AA	TANGELOS	3.000	P	0.021630	10.815	0.03000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.03000	0.000676	0.338
02008AA	TANGERINES	3.000	P	0.067597	33.799	0.03000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.03000	0.000000	0.000
02008JA	TANGERINE-JUICE	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
	15 RAW-FRESH OR CANNED					0.03000	0.000000	0.000
CROP GROUP TOTALS FOR CITRUS FRUITS:					19.702519	9851.260	0.197025	98.513

12

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFD)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF --> 1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On TRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	2.000	P	2.455424	1227.712	0.07600	0.066406	33.203
04001DA	APPLES-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	2.000	P	0.005456	2.728	0.07600	0.000561	0.281
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	2.000	P	2.982009	1491.005	0.07600	0.000000	12.124
04003AA	PEARS-FRESH 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED 62 COOKED-FRESH OR FROZEN-BAKED	2.000	P	0.524246	262.123	0.04000	0.004335	1.046
04003DA	PEARS-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.000000	0.000	0.07600	0.100292	0.092
					5.967135	2983.568	0.217315	108.658
CROP GROUP TOTALS FOR POME FRUITS:								
28080AA	PEPPERMINT 00 NOT SPECIFIED (NO CONSUMPTION)	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
280800A	PEPPERMINT-OIL 00 NOT SPECIFIED (NO CONSUMPTION)	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
28081AA	SPEARMINT 00 NOT SPECIFIED (NO CONSUMPTION)	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
280810A	SPEARMINT-OIL 00 NOT SPECIFIED (NO CONSUMPTION)	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
					0.000000	0.000000	0.000000	0.000
CROP GROUP TOTALS FOR HERBS AND SPICES:								
					33.555075	16767.538	2.810605	1405.303

GRAND TOTALS FOR CHILDREN (1-6 YEARS OLD)

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE

18

TABLE 4

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 561A DATE: 09/27/96 PAGE: 1

FOOD CODE	FOOD	STUDY TYPE		EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
		Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.5000 mg/kg ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.		PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.		
FOOD CODE	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	
02001AA	CITRUS CITRON	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02002AA	GRAPEFRUIT-UNSP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02002AB	GRAPEFRUIT-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02002AB	GRAPEFRUIT-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02002JA	GRAPEFRUIT-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02002JA	GRAPEFRUIT-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02003AA	KUMQUATS	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004AA	LEMONS-UNSPEC	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004AA	LEMONS-UNSPEC	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004AB	LEMONS-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004AB	LEMONS-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004HA	LEMONS-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004HA	LEMONS-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004JA	LEMONS-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004JA	LEMONS-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02004JA	LEMONS-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005AA	LIMES-UNSPEC	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005AB	LIMES-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005HA	LIMES-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005JA	LIMES-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005JA	LIMES-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02005JA	LIMES-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006AA	ORANGES-UNSPEC	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006AB	ORANGES-PULP	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006HA	ORANGES-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006HA	ORANGES-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006HA	ORANGES-PEEL	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006JA	ORANGES-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02006JA	ORANGES-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02007AA	TANGELOS	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02008AA	TANGERINES	NOPET#	P 3.000000	0.030000		100.00	0.030000	
02008JA	TANGERINE-JUICE	NOPET#	P 3.000000	0.030000		100.00	0.030000	
04001AA	APPLES-FRESH	7E1954	P 2.000000	0.076000		100.00	0.076000	
04001AA	APPLES-FRESH	7E1954	P 2.000000	0.076000		100.00	0.076000	
04001AA	APPLES-FRESH	7E1954	P 2.000000	0.076000		100.00	0.076000	
04001DA	APPLES-DRIED	7E1954	P 2.000000	0.076000		100.00	0.076000	
04001DA	APPLES-DRIED	7E1954	P 2.000000	0.076000		100.00	0.076000	
04001DA	APPLES-DRIED	7E1954	P 2.000000	0.076000		100.00	0.076000	

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Oxamyl (Vydate)	Develop tox- rat	Decreased fetal body weight	0.2000	1000	Chronic feeding- dog (Study is supplementary)	WHO reviewed 1985
Caswell #561A	NOEL=	0.00 ppm	0.000200		Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	HED reviewed 10/24/86
CAS No. 23135-22-0	LEL=	0.5000 mg/kg	0.025000			EPA verified 12/09/86
A.I. CODE: 103801	ONCO: E/Not likely (RFDC)	No evidence of carcinogenicity in rats or mice.				Rfd/PR reviewed 08/15/96
CFR No. 180.303						On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	7E1954	P 2.000000	0.076000C		100.00	0.076000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	7E1954	P 2.000000	0.076000C		100.00	0.076000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	7E1954	P 2.000000	0.076000C		100.00	0.076000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	51 COOKED-CANNED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1F2448	P 2.000000	0.040000		100.00	0.040000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	1F2448	P 2.000000	0.040000C		100.00	0.040000
04003DA	PEARS-DRIED	21 COOKED-NFS	1F2448	P 2.000000	0.040000C		100.00	0.040000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3E2833	P 0.300000	0.076000		100.00	0.076000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3E2833	P 0.300000	0.076000C		100.00	0.076000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3E2833	P 0.300000	0.076000C		100.00	0.076000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	7F2000	P 1.000000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	7F2000	P 1.000000	0.010000		100.00	0.010000
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000C		100.00	0.010000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	7F2000	P 1.000000	0.010000C		100.00	0.010000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	7F2000	P 1.000000	0.010000C		100.00	0.010000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	7F2000	P 1.000000	0.010000C		100.00	0.010000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	7F2000	P 1.000000	0.010000C		100.00	0.010000
06016AA	PLANTAINS	21 COOKED-NFS	3E2833	P 0.300000	0.076000		100.00	0.076000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3E2833	P 0.300000	0.076000		100.00	0.076000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	3E2833	P 0.300000	0.076000		100.00	0.076000
07006AA	CHICORY	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	0F2288	P 2.000000	0.720000		100.00	0.720000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.720000		100.00	0.720000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	0F2288	P 2.000000	0.720000		100.00	0.720000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.400000		100.00	0.400000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.060000		100.00	0.060000
10008AA	WATERMELON	21 COOKED-NFS	0F2288	P 2.000000	0.060000		100.00	0.060000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.280000		100.00	0.280000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	0F2288	P 2.000000	0.280000		100.00	0.280000
10010AA	CUCUMBERS	21 COOKED-NFS	0F2288	P 2.000000	0.280000		100.00	0.280000
10011AA	PUMPKIN	21 COOKED-NFS	3E2912	P 0.200000	0.004000		100.00	0.004000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	3E2912	P 0.200000	0.004000		100.00	0.004000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	3E2912	P 0.200000	0.004000		100.00	0.004000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	0F2288	P 2.000000	0.360000		100.00	0.360000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Oxamyl (Vydete) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	0.000200	1000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotoxic data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
10013AA	SQUASH-SUMMER	21 COOKED-NFS	0F2288	P 2.000000	0.360000		100.00	0.360000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	0F2288	P 0.200000	0.036000		100.00	0.036000
10014AA	SQUASH-WINTER	21 COOKED-NFS	0F2288	P 0.200000	0.036000		100.00	0.036000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	0F2288	P 0.200000	0.036000		100.00	0.036000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	1E2566	P 2.000000	0.660000		100.00	0.660000
11001AA	EGGPLANT	21 COOKED-NFS	1E2566	P 2.000000	0.660000		100.00	0.660000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	1E2566	P 2.000000	0.660000		100.00	0.660000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	9F2266	P 2.000000	0.720000		100.00	0.720000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	9F2266	P 2.000000	0.720000		100.00	0.720000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	4E3048	P 5.000000	5.000000		100.00	5.000000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	4E3048	P 5.000000	5.000000		100.00	5.000000
11004AA	PIMENTOS	10 RAW-FRESH OR NFS	4E3048	P 2.000000	0.720000		100.00	0.720000
11004AA	PIMENTOS	21 COOKED-NFS	4E3048	P 2.000000	0.720000		100.00	0.720000
11004AA	PIMENTOS	31 COOKED-FRESH OR CANNED	4E3048	P 2.000000	0.720000		100.00	0.720000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	6F1695	P 2.000000	0.740000		100.00	0.740000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000		100.00	0.740000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005RA	TOMATOES-PUREE	21 COOKED-NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005TA	TOMATOES-PASTE	51 COOKED-CANNED	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005TA	TOMATOES-PASTE	21 COOKED-NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	6F1695	P 2.000000	0.740000C		100.00	0.740000
11005TA	TOMATOES-PASTE	51 COOKED-NFS	6F1695	P 2.000000	0.740000C		100.00	0.740000
13002AA	CELERY	10 RAW-FRESH OR NFS	5F1650	P 10.000000	0.160000		100.00	0.160000
13002AA	CELERY	21 COOKED-NFS	5F1650	P 10.000000	0.160000		100.00	0.160000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 3.000000	3.000000		100.00	3.000000
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1937	P 0.100000	0.100000		100.00	0.100000
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
14003AA	CARROTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	21 COOKED-NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	7F1937	P 0.100000	0.002000		100.00	0.002000

21

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 561A

DATE: 09/27/96

PAGE: 4

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Oxamyl (Vydate)	Develop tox- rat	Decreased fetal body weight	0.2000 mg/kg	-->1000	Chronic feeding- dog (Study is supplementary)	WHO reviewed 10/24/86
Caswell #561A	NOEL=	0.00 ppm	0.00 ppm	0.000200	Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	HED reviewed 12/09/86
CAS No. 23135-22-0	LEL=	0.5000 mg/kg	0.00 ppm	EPA RfD= 0.025000		EPA verified 08/15/96
A.I. CODE: 103801	ONCO: E/Not likely (RFDC)	No evidence of carcinogenicity in rats or mice.				On IRIS.
CFR No. 180.303						

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.002000		100.00	0.002000
14003AA	CARROTS	51 COOKED-CANNED	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	21 COOKED-NFS	7F1937	P 0.100000	0.002000		100.00	0.002000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	7F1937	P 0.100000	0.002000		100.00	0.002000
14009AA	ARTICHOKES- JER	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.100000		100.00	0.100000
14010AA	LEEK	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	7F1937	P 0.200000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	7F1937	P 0.200000	0.010000		100.00	0.010000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	7F1937	P 0.200000	0.010000C		100.00	0.010000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6F1695	P 0.100000	0.003000		100.00	0.003000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6F1695	P 0.100000	0.003000C		100.00	0.003000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.003000C		100.00	0.003000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	7F1937	P 0.100000	0.100000		100.00	0.100000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14016AA	SALSIFY	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	21 COOKED-NFS	7F1937	P 0.100000	0.001000		100.00	0.001000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.001000		100.00	0.001000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	7F1937	P 0.100000	0.001000		100.00	0.001000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14021AA	PARSNIPS	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1937	P 0.100000	0.100000		100.00	0.100000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	9F2238	P 0.100000	0.001000		100.00	0.001000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	9F2238	P 0.100000	0.001000		100.00	0.001000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2238	P 0.100000	0.001000		100.00	0.001000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	0F2366	P 0.100000	0.200000C		100.00	0.200000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000

22

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.5000 mg/kg ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
16004AA	ONIONS-GREEN	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	10 RAW-FRESH OR NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	21 COOKED-NFS	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	22 COOKED-FRESH-BAKED	7F1937	P 0.100000	0.100000		100.00	0.100000
25002SA	BEEF SUGAR	31 COOKED-FRESH OR CANNED	7F1937	P 0.100000	0.100000		100.00	0.100000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	7F1907	P 0.200000	0.030000		100.00	0.030000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	7F1907	P 0.200000	0.030000		100.00	0.030000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9F2238	P 0.100000	0.001000		100.00	0.001000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	0F2366	P 0.100000	0.001000		100.00	0.001000
28023WC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	0F2366	P 0.100000	0.001000		100.00	0.001000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	3E2860	P 10.000000	0.960000		100.00	0.960000

23

TABLE 5
TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

PAGE: 1

DATE: 09/27/96

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.5000 mg/kg ONCO: E/Not Likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotoxic data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.

TOTAL TMRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP	CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES ARC	%RFD
U.S. POPULATION - 48 STATES	0.013281	0.013281	6640.638000	0.000000	0.000902	451.24850
U.S. POPULATION - SPRING SEASON	0.012852	0.012852	6426.245500	0.000000	0.000845	422.50850
U.S. POPULATION - SUMMER SEASON	0.013025	0.013025	6512.329000	0.000000	0.001057	528.35300
U.S. POPULATION - FALL SEASON	0.013445	0.013445	6722.371500	0.000000	0.000807	403.51050
U.S. POPULATION - WINTER SEASON	0.013691	0.013691	6845.538500	0.000000	0.000814	407.18600
NORTHEAST REGION	0.015952	0.015952	7976.048000	0.000000	0.000926	463.12350
NORTH CENTRAL REGION	0.013061	0.013061	6530.577000	0.000000	0.000849	424.55000
SOUTHERN REGION	0.010779	0.010779	5389.649500	0.000000	0.000769	384.36450
WESTERN REGION	0.014184	0.014184	7092.204000	0.000000	0.001060	529.75100
HISPANICS	0.016576	0.016576	8288.147500	0.000000	0.001089	544.68800
NON-HISPANIC WHITES	0.013184	0.013184	6592.166500	0.000000	0.000907	453.55550
NON-HISPANIC BLACKS	0.011696	0.011696	5848.089000	0.000000	0.000606	303.04950
NON-HISPANIC OTHERS	0.017050	0.017050	8525.151000	0.000000	0.000922	461.22250
NURSING INFANTS (< 1 YEAR OLD)	0.023438	0.023438	11719.035000	0.000000	0.000700	350.09300
NON-NURSING INFANTS (< 1 YEAR OLD)	0.038762	0.038762	19380.757500	0.000000	0.001250	625.24650
FEMALES (13+ YEARS, PREGNANT)	0.010760	0.010760	5380.044000	0.000000	0.000734	367.13950
FEMALES 13+ YEARS, NURSING	0.011062	0.011062	5531.038000	0.000000	0.000813	406.58450
CHILDREN (1-6 YEARS OLD)	0.033535	0.033535	16767.537500	0.000000	0.001643	821.47050
CHILDREN (7-12 YEARS OLD)	0.019190	0.019190	9595.004500	0.000000	0.001203	601.51000
MALES (13-19 YEARS OLD)	0.011288	0.011288	5643.908000	0.000000	0.000836	417.86300
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.010534	0.010534	5267.160500	0.000000	0.000751	375.66550
MALES (20 YEARS AND OLDER)	0.008480	0.008480	4239.824500	0.000000	0.000710	354.77150
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.009915	0.009915	4957.680000	0.000000	0.000743	371.62250

*Current TMRC does not include new or pending tolerances.
**New TMRC includes new, pending, and published tolerances.

24

TABLE 6

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
OxamyI (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not Likely (RFDC)	Decreased fetal body weight	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
06002AA	BANANAS-UNSPECIFIED	0.300	P	0.002432	1.216	0.07600	0.000616	0.308
	22 COOKED-FRESH-BAKED							
06002AB	BANANAS-FRESH	0.300	P	0.214999	107.500	0.07600	0.048362	24.181
	10 RAW-FRESH OR NFS					0.07600	0.001040	0.520
	21 COOKED-NFS					0.07600	0.005064	2.532
06002DA	BANANAS-DRIED	0.300	P	0.001353	0.677	0.07600	0.000077	0.039
	10 RAW-FRESH OR NFS					0.07600	0.000011	0.006
	21 COOKED-NFS					0.01000	0.000133	0.067
06013AA	PINEAPPLE-FRESH,PULP	1.000	P	0.053679	26.840	0.01000	0.000010	0.005
	10 RAW-FRESH OR NFS					0.01000	0.000393	0.197
	21 COOKED-NFS					0.01000	0.000001	0.001
06013DA	PINEAPPLE-DRIED	1.000	P	0.000347	0.174	0.01000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.01000	0.000658	0.329
06013JA	PINEAPPLE-FRESH, JUICE	1.000	P	0.245037	122.519	0.01000	0.000007	0.004
	10 RAW-FRESH OR NFS					0.01000	0.000776	0.388
	21 COOKED-NFS					0.07600	0.000000	0.000
06016AA	PLANTAINS	0.300	P	0.000652	0.326	0.07600	0.000093	0.047
	21 COOKED-NFS					0.07600	0.000072	0.036
	23 COOKED-FRESH-BOILED					0.10000	0.000003	0.002
	25 COOKED-FRESH-FRIED					3.00000	0.000000	0.000
07006AA	CHICORY	0.100	P	0.000003	0.002	0.03000	0.001091	0.546
	21 COOKED-NFS					0.03000	0.000015	0.008
13016AA	FENNEL	3.000	P	0.000000	0.000	0.07600	0.000000	0.000
270030A	COTTONSEED-OIL	0.200	P	0.007271	3.636	0.03000	0.000000	0.000
	18 PROCESSED OIL,					0.03000	0.000000	0.000
27003WA	COTTONSEED-MEAL	0.200	P	0.000102	0.051	0.03000	0.000015	0.008
	18 PROCESSED OIL					0.03000	0.000015	0.008
CROP GROUP TOTALS FOR UNSPECIFIED:					262.938	0.525875	0.058422	29.211

25

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 2

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (REDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotoxic data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
14001AA	BEETS-ROOTS	0.100	P	0.002228	1.114	0.10000	0.00000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.001698	0.849
	21 COOKED-NFS					0.10000	0.000271	0.136
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.10000	0.000258	0.129
	31 COOKED-FRESH OR CANNED							
14003AA	CARROTS	0.100	P	0.033323	16.662	0.00200	0.000120	0.060
	10 RAW-FRESH OR NFS					0.00200	0.000222	0.111
	21 COOKED-NFS					0.00200	0.000033	0.017
	23 COOKED-FRESH-BOILED					0.00200	0.000133	0.067
	31 COOKED-FRESH OR CANNED					0.00200	0.000159	0.080
	51 COOKED-CANNED							
14009AA	ARTICHOKES-JERUSALEM	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
14013AA	POTATOES(WHITE)-WHOLE	0.100	P	0.057998	28.999	0.00300	0.000239	0.120
	10 RAW-FRESH OR NFS					0.00300	0.000781	0.391
	21 COOKED-NFS					0.00300	0.000720	0.360
	22 COOKED-FRESH-BAKED							
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.100	P	0.000019	0.010	0.00300	0.000001	0.001
	22 COOKED-FRESH-BAKED					0.00300	0.000464	0.232
	23 COOKED-FRESH-BOILED					0.00300	0.000234	0.117
	25 COOKED-FRESH-FRIED					0.00300	0.002608	1.304
	35 COOKED-FRESH-FRIED					0.00300	0.001640	0.820
14013AC	POTATOES(WHITE)-PEELED	0.100	P	0.164854	82.427	0.00300	0.000005	0.003
	21 COOKED-NFS					0.00300	0.000005	0.003
	22 COOKED-FRESH-BAKED							
14013DA	POTATOES(WHITE)-DRY	0.100	P	0.002212	1.106	0.00300	0.000000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.000000	0.003
	31 COOKED-FRESH OR CANNED					0.10000	0.001073	0.537
14013HA	POTATOES(WHITE)-PEEL ONLY	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.10000	0.000005	0.003
14014AA	RADISHES-ROOTS	0.100	P	0.001073	0.537	0.10000	0.000000	0.003
	10 RAW-FRESH OR NFS							
14015AA	RUTABAGAS-ROOTS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.001073	0.537
	21 COOKED-NFS							
14016AA	SALSIFY(OYSTER PLANT)	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
	21 COOKED-NFS					0.00100	0.000052	0.026
14018AA	SWEETPOTATOES (INCLUDING YAMS)	0.100	P	0.006668	3.334	0.00100	0.000010	0.005
	21 COOKED-NFS					0.00100	0.000004	0.002
	31 COOKED-FRESH OR CANNED							
	51 COOKED-CANNED							
14019AA	TURNIPS-ROOTS	0.100	P	0.000935	0.468	0.10000	0.000055	0.028
	10 RAW-FRESH OR NFS							

26

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 3

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
14021AA	21 COOKED-NFS PARSNIPS	0.100	P	0.000000	0.000	0.10000	0.000880	0.440
14030AA	21 COOKED-NFS PARSLEY ROOTS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
25002SA	00 NOT SPECIFIED (NO CONSUMPTION) BEET SUGAR 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.100	P	0.081838	40.919	0.10000	0.000000	0.000
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:						0.351153	175.577	46.755

14007AA	GARLIC 10 RAW-FRESH OR NFS 21 COOKED-NFS 32 COOKED-FRESH OR CANNED-BAKED	0.100	P	0.000161	0.081	0.00200	0.000000	0.000
14010AA	LEEKs 31 COOKED-FRESH OR CANNED	0.100	P	0.000000	0.000	0.00200	0.000002	0.001
14011AA	ONIONS-DRY-BULB (CIPOLLINI) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.200	P	0.017906	8.953	0.00200	0.000001	0.001
14011DA	ONIONS-DEHYDRATED OR DRIED 12 RAW-FRESH-DRIED	0.200	P	0.000144	0.072	0.10000	0.000000	0.000
14017AA	SHALLOTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.100	P	0.000000	0.000	0.01000	0.000134	0.067
16004AA	ONIONS-GREEN 10 RAW-FRESH OR NFS 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.100	P	0.000150	0.075	0.01000	0.001280	0.640
CROP GROUP TOTALS FOR BULB VEGETABLES:						0.018361	9.181	0.973

27

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 4

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Cashell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.5000 mg/kg ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP Rfd= 0.000200 EPA Rfd= 0.025000	Chronic feeding- dog (study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 Rfd/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
13002AA	CELERY	10.000	P	0.239787	119.894	0.16000	0.009529	4.765
	10 RAW-FRESH OR NFS					0.16000	0.003260	1.630
	21 COOKED-NFS							
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE): 0.239787 119.894 0.012789 6.395								

15006AA	PEANUTS-WHOLE	0.100	P	0.045383	22.692	0.00100	0.000002	0.001
	10 RAW-FRESH OR NFS					0.00100	0.000212	0.106
	21 COOKED-NFS					0.00100	0.000013	0.007
15029AA	SOYBEANS-SPROUTED SEEDS	0.100	P	0.000000	0.000	0.20000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
270070A	PEANUTS-OIL	0.100	P	0.001668	0.834	0.00100	0.000008	0.004
	18 PROCESSED OIL							
270100A	SOYBEANS-OIL	0.100	P	0.119472	59.736	0.00100	0.000597	0.299
	18 PROCESSED OIL							
28023AA	SOYBEANS-UNSPECIFIED	0.100	P	0.000122	0.061	0.00100	0.000001	0.001
	21 COOKED-NFS							
28023AB	SOYBEANS-MATURE, SEEDS DRY	0.100	P	0.000149	0.075	0.00100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00100	0.000000	0.000
	21 COOKED-NFS					0.00100	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.00100	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.00100	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.00100	0.000000	0.000
28023WA	SOYBEANS-FLOUR, FULL FAT	0.100	P	0.001383	0.692	0.00100	0.000001	0.001
	21 COOKED-NFS					0.00100	0.000004	0.002
	22 COOKED-FRESH-BAKED					0.00100	0.000001	0.001
28023WB	SOYBEANS-FLOUR, LOW FAT	0.100	P	0.000237	0.119	0.00100	0.000001	0.001
	31 COOKED-FRESH OR CANNED							
	21 COOKED-NFS							
28023WC	SOYBEANS-FLOUR, DEFATTED	0.100	P	0.005873	2.937	0.00100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00100	0.000001	0.001
	21 COOKED-NFS					0.00100	0.000011	0.006
	22 COOKED-FRESH-BAKED					0.00100	0.000006	0.003
	51 COOKED-CANNED					0.00100	0.000010	0.005
	53 COOKED-CANNED-BOILED							
CROP GROUP TOTALS FOR LEGUME VEGETABLES: 0.174287 87.144 0.000868 0.434								

28

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 5

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.5000 mg/kg ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
11001AA	EGGPLANT 10 RAW-FRESH OR NFS 21 COOKED-NFS 25 COOKED-FRESH-FRIED	2.000	P	0.004256	2.128	0.66000	0.000000	0.000
11003AA	PEPPERS, SWEET, GARDEN 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.102649	51.325	0.66000	0.000000	0.000
11003AB	CHILI PEPPERS 00 NOT SPECIFIED (NO CONSUMPTION)	5.000	P	0.000000	0.000	0.72000	0.006750	3.375
11003AD	PEPPERS-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS 51 COOKED-CANNED	5.000	P	0.026931	13.466	0.72000	0.017886	8.943
11004AA	PIMIENTOS 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	0.014743	7.372	5.00000	0.000999	0.500
11005AA	TOMATOES-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	1.600497	800.249	5.00000	0.025404	12.702
11005JA	TOMATOES-JUICE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	0.118895	59.448	5.00000	0.000526	0.263
11005RA	TOMATOES-PUREE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	2.000	P	2.289650	1144.825	0.72000	0.000624	0.312
11005TA	TOMATOES-PASTE 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	2.000	P	1.061709	530.855	0.72000	0.000954	0.477
11005UA	TOMATOES-CATSUP 21 COOKED-NFS	2.000	P	0.546346	273.173	0.72000	0.000545	0.273
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):					2882.838	0.74000	0.172813	86.407
						0.74000	0.324017	162.009
						0.74000	0.095353	47.677
						0.74000	0.000000	0.000
						0.74000	0.029327	14.664
						0.74000	0.000077	0.039
						0.74000	0.130191	65.096
						0.74000	0.032289	16.145
						0.74000	0.026046	13.023
						0.74000	0.068115	34.058
						0.74000	0.054401	27.201
						0.74000	0.004996	2.498
						0.74000	0.013350	6.675
						0.74000	0.080859	40.430
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):					2882.838	1.086927	543.464	

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No.: 180.303		Develop tox- rat NOEL= 0.2000 mg/kg LEL= 0.00 ppm 0.5000 mg/kg 0.00 ppm		Decreased fetal body weight		PAD1 UF -->1000 OPP RFD= 0.000200 EPA RFD= 0.025000		Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.		WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.	
ONCO: E/Not Likely (RfDC)		No evidence of carcinogenicity in rats or mice.									

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
10002AA	CANTALOUPE-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000000	0.000	0.72000	0.000000	0.000
10002AB	CANTALOUPE-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.081328	40.664	0.72000	0.029278 0.000000	14.639 0.000
10005AA	HONEYDEW MELONS 10 RAW-FRESH OR NFS	2.000	P	0.066064	33.032	0.40000	0.013213	6.607
10008AA	WATERMELON 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.281220	140.610	0.06000	0.008425 0.000012	4.213 0.006
10010AA	CUCUMBERS 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED,CORNED,OR CURED 21 COOKED-NFS	2.000	P	0.200716	100.358	0.28000	0.013558 0.013663 0.000879	6.779 6.832 0.440
10011AA	PUMPKIN 21 COOKED-NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	0.200	P	0.012325	6.163	0.00400	0.000000 0.00400 0.000005 0.00400	0.000 0.003 0.010
10013AA	SQUASH-SUMMER 10 RAW-FRESH OR NFS 21 COOKED-NFS	2.000	P	0.075623	37.812	0.36000	0.000803 0.012809	0.402 6.405
10014AA	SQUASH-WINTER 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.200	P	0.073006	36.503	0.03600	0.000000 0.001119 0.000195	0.000 0.560 0.098
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITS):					395.141	0.790282	0.093979	46.990
02001AA	CITRUS CITRUS 22 COOKED-FRESH-BAKED	3.000	P	0.000437	0.219	0.03000	0.000004	0.002
02002AA	GRAPEFRUIT-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
02002AB	GRAPEFRUIT-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	3.000	P	0.130959	65.480	0.03000	0.001310 0.000000	0.655 0.000
02002JA	GRAPEFRUIT-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	3.000	P	0.420992	210.496	0.03000	0.001766 0.000239	0.883 0.120
02003AA	KUMQUATS 10 RAW-FRESH OR NFS	3.000	P	0.000000	0.000	0.03000	0.000000	0.000
02004AA	LEMONS-UNSPECIFIED 10 RAW-FRESH OR NFS	3.000	P	0.011819	5.910	0.03000	0.000109	0.055

30

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 7

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxamyl (Vydate) Caswell #561A CAS No. 23135-22-0 A.I. CODE: 103801 CFR No. 180.303	Develop tox- rat NOEL= 0.2000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: E/Not likely (RFDC)	Decreased fetal body weight No evidence of carcinogenicity in rats or mice.	PADI UF -->1000 OPP RfD= 0.000200 EPA RfD= 0.025000	Chronic feeding- dog (Study is supplementary) Extra UF of 10 used to account for no neurotox data and no NOEL in 1yr dog study.	WHO reviewed 1985 HED reviewed 10/24/86 EPA verified 12/09/86 RfD/PR reviewed 08/15/96 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE		TMRC	%RFD	ANTICIPATED		%RFD
		(PPM)	TYPE			RESIDUE (PPM)	ARC (UG/KG/DAY)	
02004AB	22 COOKED-FRESH-BAKED LEMONS-PULP	3.000	P	0.000468	0.234	0.03000	0.000009	0.005
02004HA	10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED LEMONS-PEEL	3.000	P	0.000124	0.062	0.03000	0.000005	0.000
02004JA	10 RAW-FRESH OR NFS 21 COOKED-NFS LEMONS-JUICE	3.000	P	0.147334	73.667	0.03000	0.000001	0.000
02005AA	10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 21 COOKED-NFS 31 COOKED-FRESH OR CANNED LIMES-UNSPECIFIED	3.000	P	0.000000	0.000	0.03000	0.000126	0.063
02005AB	00 NOT SPECIFIED (NO CONSUMPTION)	3.000	P	0.000000	0.000	0.03000	0.000025	0.026
02005HA	10 RAW-FRESH OR NFS 21 COOKED-NFS	3.000	P	0.000000	0.000	0.03000	0.000225	0.113
02005JA	10 RAW-FRESH OR NFS 21 COOKED-NFS	3.000	P	0.019556	9.778	0.03000	0.000334	0.167
02006AA	15 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED ORANGES-UNSPECIFIED	3.000	P	0.000000	0.000	0.03000	0.000001	0.001
02006AB	00 NOT SPECIFIED (NO CONSUMPTION)	3.000	P	1.140602	570.301	0.03000	0.000093	0.047
02006HA	10 RAW-FRESH OR NFS 21 COOKED-NFS	3.000	P	0.001040	0.520	0.03000	0.000003	0.002
02006JA	21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED ORANGES-JUICE	3.000	P	17.739961	8869.981	0.03000	0.000000	0.000
02007AA	15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED TANGELOS	3.000	P	0.021630	10.815	0.03000	0.011402	5.701
02008AA	10 RAW-FRESH OR NFS 10 RAW-FRESH OR NFS	3.000	P	0.067597	33.799	0.03000	0.000004	0.002
02008JA	10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED TANGERINE-JUICE	3.000	P	0.000000	0.000	0.03000	0.000008	0.004
						0.03000	0.000002	0.001
						0.03000	0.095058	47.529
						0.03000	0.003497	1.749
						0.03000	0.000216	0.108
						0.03000	0.000676	0.338
						0.03000	0.000000	0.000
CROP GROUP TOTALS FOR CITRUS FRUITS:				19.702519	9851.260		0.115140	57.570

31

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/27/96

PAGE: 8

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Oxamyl (Vydate)	Develop tox- rat	0.2000 mg/kg	Decreased fetal body weight	PADI UF -->1000	Chronic feeding- dog	WHO reviewed 1985					
Caswell #561A	NOEL=	0.00 ppm		'OPP Rfd= 0.000200	(Study is supplementary)	HED reviewed 10/24/86					
CAS No. 23135-22-0	LEL=	0.5000 mg/kg		EPA Rfd= 0.025000	Extra UF of 10 used to	EPA verified 12/09/86					
A.I. CODE: 103801	ONCO: E/Not likely (RFDC)	0.00 ppm	No evidence of carcinogenicity in rats or mice.		account for no neurotox data and no NOEL in 1yr dog study.	Rfd/PR reviewed 08/15/96					
CFR No. 180.303						On IRIS.					

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
04001AA	APPLES-FRESH	2.000	P	2.455424	1227.712	0.07600	0.066406	33.203
	10 RAW-FRESH OR NFS					0.07600	0.000561	0.281
	21 COOKED-NFS					0.07600	0.024248	12.124
	31 COOKED-FRESH OR CANNED					0.07600	0.002091	1.046
	62 COOKED-FRESH OR FROZEN-BAKED							
04001DA	APPLES-DRIED	2.000	P	0.005456	2.728	0.07600	0.000023	0.012
	10 RAW-FRESH OR NFS					0.07600	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.07600	0.000003	0.002
	62 COOKED-FRESH OR FROZEN-BAKED							
04001JA	APPLES-JUICE	2.000	P	2.982009	1491.005	0.07600	0.066861	33.431
	15 RAW-FRESH OR CANNED					0.07600	0.008683	4.342
	31 COOKED-FRESH OR CANNED							
04003AA	PEARS-FRESH	2.000	P	0.524246	262.123	0.04000	0.004335	2.168
	10 RAW-FRESH OR NFS					0.04000	0.004569	2.285
	31 COOKED-FRESH OR CANNED					0.04000	0.001581	0.791
	51 COOKED-CANNED					0.04000	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED							
04003DA	PEARS-DRIED	2.000	P	0.000000	0.000	0.04000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.04000	0.000000	0.000
	21 COOKED-NFS							
CROP GROUP TOTALS FOR POME FRUITS:					2983.568		0.179361	89.681
28080AA	PEPPERMINT	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
280800A	PEPPERMINT-OIL	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
28081AA	SPEARMINT	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
280810A	SPEARMINT-OIL	10.000	P	0.000000	0.000	0.96000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
CROP GROUP TOTALS FOR HERBS AND SPICES:					0.000000		0.000000	0.000

GRAND TOTALS FOR CHILDREN (1-6 YEARS OLD)

33.535075 16767.538

1.642941

821.471

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE

32

TABLE 7

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:06 Friday, September 27, 1996 42

 *NAME: OXAMYL
 CASHELL NO: 625A CFR NO: CFR180.303 A 00000.0250 000050.000 000100 Chronic SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 CAS NO: 23135-22-0 SHAUGHNESSY NO: 103801 B 000100.000 000100.000 Rat Systemic Minimum 0000001719
 STATUS CODES: C 000075.000 Onco Mouse Systemic Minimum 0000001716
 RDV INFO: The LD value used in this analysis is 0.1 Mg/KG of BODY WEIGHT/DAY Systemic Minimum 0000000612
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications

-U.S. POP.--48 STATES

ESTIMATED % OF POTENTIAL		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY																
PERSON DAYS THAT ARE USER-DAYS		MG/KG BODY WEIGHT/DAY					AS PERCENT OF RDV											
0	0	0.00	0.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
0	22	99.69	0.013677	13.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTICIPATED RESIDUES:		100	22	7	3	2	1	1	0	0	0	0	0	0	0	0	0	0

0 INFANTS(<1 YEAR)

ESTIMATED % OF POTENTIAL		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY																
PERSON DAYS THAT ARE USER-DAYS		MG/KG BODY WEIGHT/DAY					AS PERCENT OF RDV											
0	0	0.00	0.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	47	92.53	0.037708	37.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTICIPATED RESIDUES:		100	47	34	24	17	11	8	5	3	2	1	0	0	0	0	0	0

0 CHILDREN(1-6 YRS)

ESTIMATED % OF POTENTIAL		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY																
PERSON DAYS THAT ARE USER-DAYS		MG/KG BODY WEIGHT/DAY					AS PERCENT OF RDV											
0	0	0.00	0.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	48	99.93	0.033746	33.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTICIPATED RESIDUES:		100	48	32	21	12	7	4	3	2	1	1	0	0	0	0	0	0

1 DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:06 Friday, September 27, 1996 43

 *NAME: OXANYL
 CASWELL NO: 625A CFR NO: CFR180.303 A 00000.0250 000050.000 000100 Chronic Rat Systemic Minimum 0000001719
 CAS NO: 23135-22-0 SHAUGHNESSY NO: 103801 B 000100.000 000100.000 000100 Chronic Dog Systemic Minimum 0000001716
 STATUS CODES: C 000075.000 Onco Mouse Systemic Minimum 0000000612
 *RDV INFO: The LD value used in this analysis is 0.1 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 ***** AR DATA: No User Modifications*

 -FEMALES(13+ YRS)

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	NOEL	RDV	SF	STUDY TYPE	SPECIES	EFF. LEV.	CORE GRADE	DOC. NO.*
0	0	0	0	0	000100	Chronic	Rat	Systemic	Minimum
0	0	0	0	0	000100	Chronic	Dog	Systemic	Minimum
0	0	0	0	0	000075	Onco	Mouse	Systemic	Minimum

MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0.000000	0.00
0.010454	10.45

ESTIMATES BASED ON TOLERANCES:

0 ANTICIPATED RESIDUES:

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	1	2	3	4	5	10	15	20								
0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20

TOLERANCES: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 ANTICIPATED RESIDUES: 100 18 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0

 -MALES(13+ YRS)

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	NOEL	RDV	SF	STUDY TYPE	SPECIES	EFF. LEV.	CORE GRADE	DOC. NO.*
0	0	0	0	0	000100	Chronic	Rat	Systemic	Minimum
0	0	0	0	0	000100	Chronic	Dog	Systemic	Minimum
0	0	0	0	0	000075	Onco	Mouse	Systemic	Minimum

MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0.000000	0.00
0.009367	9.37

ESTIMATES BASED ON TOLERANCES:

0 ANTICIPATED RESIDUES:

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	1	2	3	4	5	10	15	20								
0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20

TOLERANCES: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 ANTICIPATED RESIDUES: 100 14 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0

General U.S. Population
 Exposure = RDV x X
 = 0.1 x 1.4
 High End Exposure = 0.14
 MOE = Noel + Exposure
 = 0.5 mg/kg/day + 0.14 mg/kg/day
 MOE = 3.5

Infants (< 1 year)

Exposure = RDV x X
= 0.1 x 3

High End Exposure = 0.3

MOE = Noel + Exposure

= 0.5 mg/kg/day + 0.3 mg/kg/day

MOE = 1.6

Children (1-6 years)

Exposure = RDV x X
= 0.1 x 3

High End Exposure = 0.3

MOE = Noel + Exposure

= 0.5 mg/kg/day + 0.3 mg/kg/day

MOE = 1.6

Females (13+ Years):

Exposure = RDV x X
= 0.1 x .8

High End Exposure = 0.08

MOE = Noel + Exposure

= 0.5 mg/kg/day + 0.08 mg/kg/day

MOE = 6.25

Males (13+ Years):

Exposure = RDV x X
= 0.1 x .8

High End Exposure = 0.08

MOE = Noel + Exposure

= 0.5 mg/kg/day + 0.08 mg/kg/day

MOE = 6.25

625A	06002AB21	0.3000	BANANAS-FRESH
625A	06002AB31	0.3000	BANANAS-FRESH
625A	06002DA10	0.3000	BANANAS-DRIED
625A	06002DA21	0.3000	BANANAS-DRIED
625A	06013AA10	1.0000	PINEAPPLE-PULP
625A	06013AA21	1.0000	PINEAPPLE-PULP
625A	06013AA31	1.0000	PINEAPPLE-PULP
625A	06013AA10	1.0000	PINEAPPLE-DRIED
625A	06013JA10	1.0000	PINEAPPLE-JUICE
625A	06013JA15	1.0000	PINEAPPLE-JUICE
625A	06013JA21	1.0000	PINEAPPLE-JUICE
625A	06013JA31	1.0000	PINEAPPLE-JUICE
625A	06016AA21	0.3000	PLANTAINS
625A	06016AA23	0.3000	PLANTAINS
625A	06016AA25	0.3000	PLANTAINS
625A	07006AA21	0.1000	CHICORY
625A	10002AA00	2.0000	CANTALOUPES-UNSP
625A	10002AB10	2.0000	CANTALOUPES-PULP
625A	10002AB21	2.0000	CANTALOUPES-PULP
625A	10005AA10	2.0000	HONEYDEW MELONS
625A	10008AA10	2.0000	WATERMELON
625A	10008AA21	2.0000	WATERMELON
625A	10010AA10	2.0000	CUCUMBERS
625A	10010AA11	2.0000	CUCUMBERS
625A	10010AA21	2.0000	CUCUMBERS
625A	10011AA21	0.2000	PUMPKIN
625A	10011AA22	0.2000	PUMPKIN
625A	10011AA62	0.2000	PUMPKIN
625A	10013AA10	0.2000	SQUASH-SUMMER
625A	10013AA21	2.0000	SQUASH-SUMMER
625A	10014AA10	0.2000	SQUASH-WINTER
625A	10014AA21	0.2000	SQUASH-WINTER
625A	10014AA31	0.2000	SQUASH-WINTER
625A	11001AA10	2.0000	EGGPLANT
625A	11001AA21	2.0000	EGGPLANT
625A	11001AA25	2.0000	EGGPLANT
625A	11003AA10	2.0000	PEPPERS,SWEET
625A	11003AA21	2.0000	PEPPERS,SWEET
625A	11003AB00	5.0000	CHILI PEPPERS
625A	11003AD10	5.0000	PEPPERS-OTHER
625A	11003AD21	5.0000	PEPPERS-OTHER
625A	11003AD51	5.0000	PEPPERS-OTHER
625A	11004AA10	5.0000	PIMIENTOS
625A	11004AA21	5.0000	PIMIENTOS
625A	11004AA31	5.0000	PIMIENTOS
625A	11005AA10	2.0000	TOMATOES-WHOLE
625A	11005AA21	2.0000	TOMATOES-WHOLE
625A	11005AA31	2.0000	TOMATOES-WHOLE
625A	11005JA10	2.0000	TOMATOES-JUICE
625A	11005JA21	2.0000	TOMATOES-JUICE
625A	11005RA10	2.0000	TOMATOES-PUREE
625A	11005RA21	2.0000	TOMATOES-PUREE

625A	02001AA22	3.0000	CITRUS CITRON
625A	02002AA00	3.0000	GRAPEFRUIT-UNSP
625A	02002AB10	3.0000	GRAPEFRUIT-PULP
625A	02002AB21	3.0000	GRAPEFRUIT-PULP
625A	02002JA15	3.0000	GRAPEFRUIT-JUICE
625A	02002JA31	3.0000	GRAPEFRUIT-JUICE
625A	02003AA10	3.0000	KUMQUATS
625A	02004AA10	3.0000	LEMONS-UNSPEC
625A	02004AA22	3.0000	LEMONS-UNSPEC
625A	02004AB10	3.0000	LEMONS-PULP
625A	02004AB31	3.0000	LEMONS-PULP
625A	02004HA10	3.0000	LEMONS-PEEL
625A	02004HA21	3.0000	LEMONS-PEEL
625A	02004JA10	3.0000	LEMONS-JUICE
625A	02004JA15	3.0000	LEMONS-JUICE
625A	02004JA21	3.0000	LEMONS-JUICE
625A	02004JA31	3.0000	LEMONS-JUICE
625A	02005AA00	3.0000	LIMES-UNSPEC
625A	02005AB10	3.0000	LIMES-PULP
625A	02005HA21	3.0000	LIMES-PEEL
625A	02005JA10	3.0000	LIMES-JUICE
625A	02005JA15	3.0000	LIMES-JUICE
625A	02005JA31	3.0000	LIMES-JUICE
625A	02006AA00	3.0000	ORANGES-UNSPEC
625A	02006AB10	3.0000	ORANGES-PULP
625A	02006AB21	3.0000	ORANGES-PULP
625A	02006HA21	3.0000	ORANGES-PEEL
625A	02006HA22	3.0000	ORANGES-PEEL
625A	02006HA31	3.0000	ORANGES-PEEL
625A	02006JA15	3.0000	ORANGES-JUICE
625A	02006JA31	3.0000	ORANGES-JUICE
625A	02007AA10	3.0000	TANGELOS
625A	02008AA10	3.0000	TANGERINES
625A	02008JA15	3.0000	TANGERINE-JUICE
625A	04001AA10	2.0000	APPLES-FRESH
625A	04001AA21	2.0000	APPLES-FRESH
625A	04001AA31	2.0000	APPLES-FRESH
625A	04001AA62	2.0000	APPLES-FRESH
625A	04001DA10	2.0000	APPLES-DRIED
625A	04001DA22	2.0000	APPLES-DRIED
625A	04001DA62	2.0000	APPLES-DRIED
625A	04001JA15	2.0000	APPLES-JUICE
625A	04001JA31	2.0000	APPLES-JUICE
625A	04003AA10	2.0000	PEARS-FRESH
625A	04003AA31	2.0000	PEARS-FRESH
625A	04003AA51	2.0000	PEARS-FRESH
625A	04003AA62	2.0000	PEARS-FRESH
625A	04003DA10	2.0000	PEARS-DRIED
625A	04003DA21	2.0000	PEARS-DRIED
625A	06002AA22	0.3000	BANANAS-UNSPEC
625A	06002AB10	0.3000	BANANAS-FRESH

625A	02001AA22	3.0000	CITRUS CITRUS
625A	02002AA00	3.0000	GRAPEFRUIT-UNSP
625A	02002AB10	3.0000	GRAPEFRUIT-PULP
625A	02002AB21	3.0000	GRAPEFRUIT-PULP
625A	02002JA15	3.0000	GRAPEFRUIT-JUICE
625A	02002JA31	3.0000	GRAPEFRUIT-JUICE
625A	02003AA10	3.0000	KUMQUATS
625A	02004AA10	3.0000	LEMONS-UNSPEC
625A	02004AA22	3.0000	LEMONS-UNSPEC
625A	02004AB10	3.0000	LEMONS-PULP
625A	02004AB31	3.0000	LEMONS-PULP
625A	02004HA10	3.0000	LEMONS-PEEL
625A	02004HA21	3.0000	LEMONS-PEEL
625A	02004JA10	3.0000	LEMONS-JUICE
625A	02004JA15	3.0000	LEMONS-JUICE
625A	02004JA21	3.0000	LEMONS-JUICE
625A	02004JA31	3.0000	LEMONS-JUICE
625A	02005AA00	3.0000	LIMES-UNSPEC
625A	02005AB10	3.0000	LIMES-PULP
625A	02005HA21	3.0000	LIMES-PEEL
625A	02005JA10	3.0000	LIMES-JUICE
625A	02005JA15	3.0000	LIMES-JUICE
625A	02005JA31	3.0000	LIMES-JUICE
625A	02006AA00	3.0000	ORANGES-UNSPEC
625A	02006AB10	3.0000	ORANGES-PULP
625A	02006AB21	3.0000	ORANGES-PULP
625A	02006HA21	3.0000	ORANGES-PEEL
625A	02006HA22	3.0000	ORANGES-PEEL
625A	02006HA31	3.0000	ORANGES-PEEL
625A	02006JA15	3.0000	ORANGES-JUICE
625A	02006JA31	3.0000	ORANGES-JUICE
625A	02007AA10	3.0000	TANGELOS
625A	02008AA10	3.0000	TANGERINES
625A	02008JA15	3.0000	TANGERINE-JUICE
625A	04001AA10	2.0000	APPLES-FRESH
625A	04001AA21	2.0000	APPLES-FRESH
625A	04001AA31	2.0000	APPLES-FRESH
625A	04001AA62	2.0000	APPLES-FRESH
625A	04001DA10	2.0000	APPLES-DRIED
625A	04001DA22	2.0000	APPLES-DRIED
625A	04001DA62	2.0000	APPLES-DRIED
625A	04001JA15	2.0000	APPLES-JUICE
625A	04001JA31	2.0000	APPLES-JUICE
625A	04003AA10	2.0000	PEARS-FRESH
625A	04003AA31	2.0000	PEARS-FRESH
625A	04003AA51	2.0000	PEARS-FRESH
625A	04003AA62	2.0000	PEARS-FRESH
625A	04003DA10	2.0000	PEARS-DRIED
625A	04003DA21	2.0000	PEARS-DRIED
625A	06002AA22	0.3000	BANANAS-UNSPEC
625A	06002AB10	0.3000	BANANAS-FRESH
625A	06002AB21	0.3000	BANANAS-FRESH
625A	06002DA21	0.3000	BANANAS-DRIED
625A	06013AA10	1.0000	PINEAPPLE-PULP
625A	06013AA21	1.0000	PINEAPPLE-PULP
625A	06013AA31	1.0000	PINEAPPLE-PULP
625A	06013DA10	1.0000	PINEAPPLE-DRIED
625A	06013JA10	1.0000	PINEAPPLE-JUICE
625A	06013JA15	1.0000	PINEAPPLE-JUICE
625A	06013JA21	1.0000	PINEAPPLE-JUICE
625A	06013JA31	1.0000	PINEAPPLE-JUICE
625A	06016AA21	0.3000	PLANTAINS
625A	06016AA23	0.3000	PLANTAINS
625A	06016AA25	0.3000	PLANTAINS
625A	07006AA21	0.1000	CHICORY
625A	10002AA00	2.0000	CANTALOUPE-UNSP
625A	10002AB10	2.0000	CANTALOUPE-PULP
625A	10002AB21	2.0000	CANTALOUPE-PULP
625A	10005AA10	2.0000	HONEYDEW MELONS
625A	10008AA10	2.0000	WATERMELON
625A	10008AA21	2.0000	WATERMELON
625A	10010AA10	2.0000	CUCUMBERS
625A	10010AA11	2.0000	CUCUMBERS
625A	10010AA21	2.0000	CUCUMBERS
625A	10011AA21	0.2000	PUMPKIN
625A	10011AA22	0.2000	PUMPKIN
625A	10011AA62	0.2000	PUMPKIN
625A	10013AA10	0.2000	SQUASH-SUMMER
625A	10013AA21	2.0000	SQUASH-SUMMER
625A	10014AA10	0.2000	SQUASH-WINTER
625A	10014AA21	0.2000	SQUASH-WINTER
625A	10014AA31	0.2000	SQUASH-WINTER
625A	11001AA10	2.0000	EGGPLANT
625A	11001AA21	2.0000	EGGPLANT
625A	11001AA25	2.0000	EGGPLANT
625A	11003AA10	2.0000	PEPPERS,SWEET
625A	11003AA21	2.0000	PEPPERS,SWEET
625A	11003AB00	5.0000	CHILI PEPPERS
625A	11003AD10	5.0000	PEPPERS-OTHER
625A	11003AD21	5.0000	PEPPERS-OTHER
625A	11003AD51	5.0000	PEPPERS-OTHER
625A	11004AA10	5.0000	PIMIENTOS
625A	11004AA21	5.0000	PIMIENTOS
625A	11004AA31	5.0000	PIMIENTOS
625A	11005AA10	2.0000	TOMATOES-WHOLE
625A	11005AA21	2.0000	TOMATOES-WHOLE
625A	11005AA31	2.0000	TOMATOES-WHOLE
625A	11005JA10	2.0000	TOMATOES-JUICE
625A	11005JA21	2.0000	TOMATOES-JUICE
625A	11005RA10	2.0000	TOMATOES-PUREE
625A	11005RA21	2.0000	TOMATOES-PUREE

625A	11005RA31	2.0000	TOMATOES-PUREE
625A	11005RA32	2.0000	TOMATOES-PUREE
625A	11005RA51	2.0000	TOMATOES-PUREE
625A	11005TA21	2.0000	TOMATOES-PASTE
625A	11005TA22	2.0000	TOMATOES-PASTE
625A	11005TA31	2.0000	TOMATOES-PASTE
625A	11005UA21	2.0000	TOMATOES-CATSUP
625A	13002AA10	10.0000	CELERY
625A	13002AA21	10.0000	CELERY
625A	13016AA00	3.0000	FENNEL
625A	14001AA10	0.1000	BEETS-ROOTS
625A	14001AA21	0.1000	BEETS-ROOTS
625A	14001AA26	0.1000	BEETS-ROOTS
625A	14001AA31	0.1000	BEETS-ROOTS
625A	14003AA10	0.1000	CARROTS
625A	14003AA21	0.1000	CARROTS
625A	14003AA23	0.1000	CARROTS
625A	14003AA31	0.1000	CARROTS
625A	14003AA51	0.1000	CARROTS
625A	14007AA10	0.1000	GARLIC
625A	14007AA21	0.1000	GARLIC
625A	14007AA32	0.1000	GARLIC
625A	14009AA00	0.1000	ARTICHOKES-JER
625A	14010AA31	0.1000	LEEK
625A	14011AA10	0.2000	ONIONS-DRY-BULB
625A	14011AA21	0.2000	ONIONS-DRY-BULB
625A	14011AA22	0.2000	ONIONS-DRY-BULB
625A	14011AA31	0.2000	ONIONS-DRY-BULB
625A	14011DA12	0.2000	ONIONS-DRYED
625A	14013AA10	0.1000	POTATO(WH)-WHOLE
625A	14013AA21	0.1000	POTATO(WH)-WHOLE
625A	14013AA22	0.1000	POTATO(WH)-WHOLE
625A	14013AB22	0.1000	POTATO(WH)-UNSP
625A	14013AC21	0.1000	POTATO(WH)-PULP
625A	14013AC22	0.1000	POTATO(WH)-PULP
625A	14013AC23	0.1000	POTATO(WH)-PULP
625A	14013AC25	0.1000	POTATO(WH)-PULP
625A	14013DA10	0.1000	POTATO(WH)-DRY
625A	14013DA31	0.1000	POTATO(WH)-DRY
625A	14013HA22	0.1000	POTATO(WH)-PEEL
625A	14014AA10	0.1000	RADISHES-ROOTS
625A	14015AA10	0.1000	RUTABAGAS-ROOTS
625A	14015AA21	0.1000	RUTABAGAS-ROOTS
625A	14016AA21	0.1000	SALSIFY
625A	14017AA00	0.1000	SHALLOTS
625A	14018AA21	0.1000	SWEETPOTATOES
625A	14018AA31	0.1000	SWEETPOTATOES
625A	14018AA51	0.1000	SWEETPOTATOES
625A	14019AA10	0.1000	TURNIPS-ROOTS
625A	14019AA21	0.1000	TURNIPS-ROOTS
625A	14021AA21	0.1000	PARSNIPS
625A	14030AA00	0.1000	PARSLEY ROOTS

625A	15006AA10	0.1000	PEANUTS-WHOLE
625A	15006AA21	0.1000	PEANUTS-WHOLE
625A	15006AA22	0.1000	PEANUTS-WHOLE
625A	15029AA00	0.2000	SOYBEAN-SPROUTED
625A	16004AA10	0.1000	ONIONS-GREEN
625A	16004AA21	0.1000	ONIONS-GREEN
625A	16004AA25	0.1000	ONIONS-GREEN
625A	25002SA10	0.1000	BEET SUGAR
625A	25002SA21	0.1000	BEET SUGAR
625A	25002SA22	0.1000	BEET SUGAR
625A	25002SA31	0.1000	BEET SUGAR
625A	27003AA18	0.2000	COTTONSEED-OIL
625A	27003AA18	0.2000	COTTONSEED-MEAL
625A	27007AA18	0.2000	PEANUTS-OIL
625A	27010AA18	0.1000	SOYBEANS-OIL
625A	28023AA21	0.1000	SOYBEANS-UNSPEC
625A	28023AB10	0.1000	SOYBEANS-DRY
625A	28023AB21	0.1000	SOYBEANS-DRY
625A	28023AB23	0.1000	SOYBEANS-DRY
625A	28023AB25	0.1000	SOYBEANS-DRY
625A	28023AB31	0.1000	SOYBEANS-DRY
625A	28023AA21	0.1000	SOY-FL, FULL FAT
625A	28023AA22	0.1000	SOY-FL, FULL FAT
625A	28023AA31	0.1000	SOY-FL, FULL FAT
625A	28023AB21	0.1000	SOY-FL, LOW FAT
625A	28023AC10	0.1000	SOY-FL,DEFAT
625A	28023AC21	0.1000	SOY-FL,DEFAT
625A	28023AC22	0.1000	SOY-FL,DEFAT
625A	28023AC51	0.1000	SOY-FL,DEFAT
625A	28023AC53	0.1000	SOY-FL,DEFAT
625A	28080AA00	10.0000	PEPPERMINT
625A	28080AA00	10.0000	PEPPERMINT-OIL
625A	28081AA00	10.0000	PEPPERMINT
625A	28081AA00	10.0000	SPEARMINT-OIL