

US EPA ARCHIVE DOCUMENT



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

4-25-97

APR 25 1997

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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Azinphos-Methyl in
Support of the Reregistration Eligibility Decision.

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

Through: Bill Burnam, Chief
Dietary Risk Evaluation Section
SAB/Health Effects Division

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 azinphos-methyl for uses which are being supported through reregistration.

Discussion

Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.0015 mg/kg bwt/day, based on a NOEL of 0.15 mg/kg bwt/day from a one year chronic toxicity study in dogs with an uncertainty factor of 100 (See TES Document, 2/27/97).

Azinphos-methyl is classified as a Group E - not likely carcinogen (See TES Document, 2/27/97).

The endpoint for acute dietary risk assessment is the neurotoxicity NOEL of 1.0 mg/kg bwt/day based on neurobehavioral effects and plasma, RBC and brain ChE inhibition at 3 mg/kg (LOEL) in female rats (See TES Document, 2/27/97).

Residue Information

Tolerances for azinphos-methyl are published in 40 CFR §180.154 (a) and (b). Food/feed additive tolerances have been established for residues of azinphos-methyl in soybean oil [40 CFR §185.2225] and dried citrus pulp and sugarcane bagasse [40 CFR §185.2225]. The available data support the established tolerances on all published commodities except for walnuts. For reregistration purposes, the following tolerances should be reassessed and decreased: almonds, from 0.3 ppm to 0.2 ppm; grapes from 5.0 ppm to 4 ppm; potatoes, from 0.3 ppm to 0.2 ppm; and cranberries from 2 ppm to 0.5 ppm. The following tolerances should be increased: caneberries from 2 ppm to 8 ppm; and peaches from 2 ppm to 4 ppm. The following tolerances should be revoked: apricots, artichokes, barley, beans dry, beans snap, brussels sprout, cattle, celery, eggplant, goats, horses, kiwi, nectarines, oats, black-eyed peas, peppers, sheep, soybeans, spinach, wheat and milk (See Memo, F. Fort, 2/30/97).

Anticipated residue (AR) data and percent crop treated information was used for some commodities.

Results

Chronic Exposure:

A summary of the residue information considered 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. 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 3, and 4.

Existing tolerances result in an ARC which represents 13% of the RfD for the U.S. general population. The highest subgroup, Non-Nursing Infants (<1 year old) occupies 53.5% of the RfD and Children (1-6 years old) occupies 33% of the RfD.

Incorporating the recommendations of CBRS (See Residue Information) results in an ARC of 147% of the RfD for the U.S. general population, 641.7% for Non-Nursing Infants (<1 year old) and 336.2% for Children (1-6 years old) (See Table 4). The commodities which contribute most to this risk are peaches at 556.5 % RfD and grapes at 63.2% RfD (See Table 5).

The chronic analysis for azinphos-methyl 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 azinphos-methyl. 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 as it exceeds the Agency's acceptable level of risk.

Acute Exposure:

Two acute analyses were performed. Table 6 shows the results of the analysis using all presently registered commodities. 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 Azinphos-methyl 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 ($NOEL/exposure = MOE$). Generally, acute dietary margins of exposure greater than 100 tend to cause no dietary concern when results are compared to animal-derived data.

Presently registered commodities result in the following MOEs: U.S. Population = 7; Infants (<1 year) = 3; Children (1-6 years old) = 3; Females (13+ years) = 12; and Males (13+ years) = 17. Following the recommendations of CBRS (See Residue Information) results in the following MOEs: U.S. Population = 8; Infants (<1 year) = 3; Children (1-6 years old) = 5; Females (13+ years) = 17; and Males (13+ years) = 17.

The results of this analysis indicate that azinphos-methyl in the diet represents a serious risk concern for acute exposure both for existing and proposed uses.

Attachments cc: DRES; Caswell 374

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 374

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M.F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TASI RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	0.008110		100.00	0.008110
01002AA	BLACKBERRIES	21 COOKED-NFS	336	P 2.000000	0.008110		100.00	0.008110
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	336	P 2.000000	0.008110		100.00	0.008110
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	0.008110		100.00	0.008110
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	336	P 2.000000	0.008110		100.00	0.008110
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	0.008110		100.00	0.008110
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	336	P 2.000000	0.008110		100.00	0.008110
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	336	P 2.000000	0.008110		100.00	0.008110
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	336	P 2.000000	0.008110		100.00	0.008110
01006AA	RASPBERRIES	70 RAW-FROZEN	336	P 2.000000	0.008110		100.00	0.008110
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	21 COOKED-NFS	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F0539	P 5.000000	0.002870		100.00	0.002870
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	314	P 2.000000	0.021740		100.00	0.021740
01010AA	CRANBERRIES	21 COOKED-NFS	314	P 2.000000	0.021740		100.00	0.021740
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.021740		100.00	0.021740
01010AA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	314	P 2.000000	0.021740C		100.00	0.021740
01010AA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.021740C		100.00	0.021740
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6E1818	P 5.000000	0.008110		100.00	0.008110
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	249	P 5.000000	0.000560		100.00	0.000560
01014AA	GRAPES-FRESH	21 COOKED-NFS	249	P 5.000000	0.000560		100.00	0.000560
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	249	P 5.000000	0.000560		100.00	0.000560
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	249	P 5.000000	0.002130C		100.00	0.002130
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	249	P 5.000000	0.002130C		100.00	0.002130
01014AA	GRAPES-JUICE	10 RAW-FRESH OR NFS	249	P 5.000000	0.000560C		100.00	0.000560
01014AA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	249	P 5.000000	0.000560C		100.00	0.000560
01014AA	GRAPES-JUICE	21 COOKED-NFS	249	P 5.000000	0.000560C		100.00	0.000560
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	207	P 2.000000	0.000910		100.00	0.000910
01016AA	STRAWBERRIES	21 COOKED-NFS	207	P 2.000000	0.000910		100.00	0.000910
01016AA	STRAWBERRIES	70 RAW-FROZEN	207	P 2.000000	0.000910		100.00	0.000910
02001AA	CITRUS CITRUS	22 COOKED-FRESH-BAKED	355	P 2.000000	2.000000		100.00	2.000000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.004360		100.00	0.004360
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.004360		100.00	0.004360
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	355	P 2.000000	0.004360		100.00	0.004360
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.004360		100.00	0.004360
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.004360		100.00	0.004360
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	355	P 2.000000	2.000000		100.00	2.000000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000

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PAGE: 2

DATE: 04/17/97

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Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185-2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAŞ RUN (ppm)
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	355	P 2.000000	0.005000		100.00	0.005000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	355	P 2.000000	0.006000		100.00	0.006000
02004HA	LEMONS-PEEL	21 COOKED-NFS	355	P 2.000000	0.006000		100.00	0.006000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	21 COOKED-NFS	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.005000		100.00	0.005000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02005HA	LIMES-PEEL	21 COOKED-NFS	355	P 2.000000	0.006000		100.00	0.006000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.00250		100.00	0.00250
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.00250		100.00	0.00250
02006HA	ORANGES-PEEL	21 COOKED-NFS	355	P 2.000000	0.00300		100.00	0.00300
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	355	P 2.000000	0.00300		100.00	0.00300
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.00300		100.00	0.00300
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.00250C		100.00	0.00250
02007AA	TANGELOS	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.00250		100.00	0.00250
02008AA	TANGERINES	10 RAW-FRESH OR NFS	355	P 2.000000	0.00250		100.00	0.00250
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.00250		100.00	0.00250
03001AA	ALMONDS	10 RAW-FRESH OR NFS	7F0582	P 0.300000	0.040000		30.00	0.012000
03001AA	ALMONDS	21 COOKED-NFS	7F0582	P 0.300000	0.040000		30.00	0.012000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	7F0582	P 0.300000	0.040000		30.00	0.012000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03005AA	FILBERTS	21 COOKED-NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	21 COOKED-NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	23 COOKED-FRESH-BOILED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.200000		20.00	0.040000
03009AA	WALNUTS	21 COOKED-NFS	0F0869	P 0.300000	0.200000		20.00	0.040000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		20.00	0.040000

6

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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	8E2125	P 0.300000	0.300000		100.00	0.300000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	21 COOKED-NFS	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.003250		100.00	0.003250
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.019500C		100.00	0.019500
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	115	P 2.000000	0.019500C		100.00	0.019500
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.019500C		100.00	0.019500
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	115	P 2.000000	0.003250C		100.00	0.003250
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003250C		100.00	0.003250
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	2.000000		100.00	2.000000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.004460		100.00	0.004460
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.004460		100.00	0.004460
04003AA	PEARS-FRESH	51 COOKED-CANNED	115	P 2.000000	0.004460		100.00	0.004460
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.004460		100.00	0.004460
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.026750C		100.00	0.026750
04003DA	PEARS-DRIED	21 COOKED-NFS	115	P 2.000000	0.026750C		100.00	0.026750
04004AA	APRICOTS	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	2.000000		100.00	2.000000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.007090		100.00	0.007090
05001AA	APRICOTS-FRESH	21 COOKED-NFS	115	P 2.000000	0.007090		100.00	0.007090
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.007090		100.00	0.007090
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.008510		100.00	0.008510
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	115	P 2.000000	0.008510		100.00	0.008510
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	21 COOKED-NFS	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.003630		100.00	0.003630
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	0.004360C		100.00	0.004360
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	115	P 2.000000	0.003630C		100.00	0.003630
05002JA	CHERRIES-JUICE	21 COOKED-NFS	115	P 2.000000	0.003630C		100.00	0.003630
05003AA	NECTARINES	10 RAW-FRESH OR NFS	115	P 2.000000	0.002970		100.00	0.002970
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.002810		100.00	0.002810
05004AA	PEACHES-FRESH	21 COOKED-NFS	115	P 2.000000	0.002810		100.00	0.002810
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.002810		100.00	0.002810
05004AA	PEACHES-FRESH	51 COOKED-CANNED	115	P 2.000000	0.002810		100.00	0.002810
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.003400C		100.00	0.003400
05004DA	PEACHES-DRIED	21 COOKED-NFS	115	P 2.000000	0.003400C		100.00	0.003400
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.001800		100.00	0.001800
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.001800		100.00	0.001800
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	115	P 2.000000	0.002160C		100.00	0.002160

7

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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
05005DA	PLUMS-PRUNES	21 COOKED-NFS	115	P 2.000000	0.002160C		100.00	0.002160
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.002160C		100.00	0.002160
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	115	P 2.000000	0.002160C		100.00	0.002160
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.002160C		100.00	0.002160
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	8E3618	P 0.100000	0.100000		100.00	0.100000
06015AA	POMEGRANATES	21 COOKED-NFS	8E3618	P 0.100000	0.100000		100.00	0.100000
06018AA	KIWI	10 RAW-FRESH OR NFS	8E2111	P 10.000000	10.000000		100.00	10.000000
08048DA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 0.300000	0.005260		100.00	0.005260
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10003AA	CASABAS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10007AA	PERSTON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260
10008AA	WATERMELON	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10008AA	WATERMELON	21 COOKED-NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000200		100.00	0.000200
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F0539	P 2.000000	0.000200		100.00	0.000200
10010AA	CUCUMBERS	21 COOKED-NFS	7F0539	P 2.000000	0.000200		100.00	0.000200
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	7F0539	P 0.300000	0.000260		100.00	0.000260
11001AA	EGGPLANT	21 COOKED-NFS	7F0539	P 0.300000	0.000260		100.00	0.000260
11003AA	PEPPERS, SWEET	25 COOKED-FRESH-FRIED	7F0539	P 0.300000	0.000260		100.00	0.000260
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11003AB	CHILI PEPPERS	21 COOKED-NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11003AD	PEPPERS-OTHER	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 0.300000	0.005260		100.00	0.005260
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11003AD	PEPPERS-OTHER	21 COOKED-NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11004AA	PIMIENTOS	51 COOKED-CANNED	7F0539	P 0.300000	0.005430		100.00	0.005430
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11004AA	PIMIENTOS	21 COOKED-NFS	7F0539	P 0.300000	0.005430		100.00	0.005430
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250		100.00	0.001250
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250		100.00	0.001250
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	314	P 2.000000	0.001250		100.00	0.001250
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250		100.00	0.001250
11005JA	TOMATOES-JUICE	21 COOKED-NFS	314	P 2.000000	0.001250		100.00	0.001250
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250C		100.00	0.001250

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog MOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm OMCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte Che inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAŞ RUN (ppm)
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250C		100.00	0.001250
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
13002AA	CELERY	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000250		100.00	0.000250
13002AA	CELERY	21 COOKED-NFS	7F0539	P 2.000000	0.000250		100.00	0.000250
13005AA	BROCCOLI	21 COOKED-NFS	207	P 2.000000	0.000080		100.00	0.000080
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.000080		100.00	0.000080
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	207	P 2.000000	0.000080		100.00	0.000080
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	355	P 2.000000	2.000000		100.00	2.000000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	355	P 2.000000	2.000000		100.00	2.000000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	207	P 2.000000	0.000730		100.00	0.000730
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	207	P 2.000000	0.000730		100.00	0.000730
13007AA	CABBAGE	21 COOKED-NFS	207	P 2.000000	0.000730		100.00	0.000730
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	207	P 2.000000	0.000060		100.00	0.000060
13008AA	CAULIFLOWER	21 COOKED-NFS	207	P 2.000000	0.000060		100.00	0.000060
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	207	P 2.000000	0.000730		100.00	0.000730
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	207	P 2.000000	0.000730		100.00	0.000730
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	2.000000		100.00	2.000000
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	314	P 2.000000	0.120000		100.00	0.120000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	9E2233	P 5.000000	5.000000		5.00	0.250000
13022AA	PARSLEY	21 COOKED-NFS	9E2233	P 5.000000	5.000000		5.00	0.250000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	9E2233	P 5.000000	5.000000		100.00	0.000250
13024AA	SPINACH	10 RAW-FRESH OR NFS	314	P 2.000000	0.000250		100.00	0.000250
13024AA	SPINACH	21 COOKED-NFS	314	P 2.000000	0.000250		100.00	0.000250
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.000250		100.00	0.000250
14007AA	GARLIC	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
14007AA	GARLIC	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	207	P 2.000000	0.005000		100.00	0.005000
14010AA	LEEK	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.005000		100.00	0.005000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	0F0869	P 2.000000	0.000450		100.00	0.000450
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.000450		100.00	0.000450

CHEMICAL Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	STUDY TYPE 1yr feeding dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	EFFECTS Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	REFERENCE DOSES ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	DATA GAPS/COMMENTS No data gaps. Reg. Std. Sept, 1986.	STATUS HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
14013AB	POTATO(WH)-UNSPEC	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	0F0869	P 0.300000	0.000450		100.00	0.000450
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	0F0869	P 0.300000	0.000450		100.00	0.000450
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.000450C		100.00	0.000450
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.000450C		100.00	0.000450
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.000450		100.00	0.000450
14017AA	SHALLOTS	207	207	P 2.000000	0.005000		100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9E2233	P 2.000000	2.000000		5.00	0.100000
15001AA	BEANS-DRY-GRT NO	00 NOT SPECIFIED (NO CONSUMPTION)	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.005000		100.00	0.005000
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	314	P 2.000000	0.000100		100.00	0.000100
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15013AA	MUNG BEANS	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	0F0869	P 0.300000	0.005000		100.00	0.005000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	0F0869	P 0.200000	0.200000		1.00	0.002000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	0F0869	P 0.300000	0.005000		100.00	0.005000
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15032AA	BEANS-DRY	21 COOKED-NFS	0F0869	P 0.300000	0.005000		100.00	0.005000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	207	P 2.000000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-NFS	7F0582	P 0.200000	0.080000		1.00	0.000800
24003AA	OATS	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24003AA	OATS	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24003AA	OATS	23 COOKED-FRESH-BOILED	7F0582	P 0.200000	0.200000		1.00	0.002000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	7F0582	P 0.200000	0.200000		1.00	0.002000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 374

PAGE: 7

DATE: 04/17/97

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	AD1 UF -->100 OPP RfD= 0.001500 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
24005WA	RYE-FLOUR	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24005WA	RYE-FLOUR	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007HA	WHEAT-BRAN	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007WA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007WA	WHEAT-FLOUR	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24007WA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24007WA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	7F0582	P 0.200000	0.200000		1.00	0.002000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
25003SA	CANE SUGAR	21 COOKED-NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	5F0442	P 0.300000	0.200000		35.00	0.070000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	115	P 0.500000	0.500000		10.00	0.050000
27003WA	COTTONSEED-MEAL	18 PROCESSED OIL	115	P 0.500000	0.500000		10.00	0.050000
270100A	SOYBEANS-OIL	21 COOKED-NFS	NOPET#	P 1.000000	1.000000		1.00	0.010000
28023AA	SOYBEANS-UNSPEC	18 PROCESSED OIL	0F0869	P 0.200000	0.200000		1.00	0.002000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	0F0869	P 0.200000	0.200000		1.00	0.002000
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	0F0869	P 0.200000	0.200000		1.00	0.002000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte Che inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
280234C	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	0F0869	P 0.200000	0.200000		1.00	0.002000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	249	P 5.000000	0.000560		100.00	0.000560
43058AA	WINE AND SHERRY	21 COOKED-NFS	249	P 5.000000	0.000560		100.00	0.000560
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	0F0869	P 0.040000	0.010000		100.00	0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F0869	P 0.040000	0.010000		100.00	0.010000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F0869	P 0.040000	0.010000		100.00	0.010000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F0869	P 0.040000	0.010000		100.00	0.010000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F0869	P 0.040000	0.010000		100.00	0.010000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F0869	P 0.040000	0.010000		100.00	0.010000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	0F0869	P 0.040000	0.010000		100.00	0.010000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F0869	P 0.040000	0.010000		100.00	0.010000
530018A	BEEF-HEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	NOPET#	P 0.100000	0.001000		100.00	0.001000
530018A	BEEF-HEAT BYP	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
530018B	BEEF-OTH ORGAN	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
530018B	BEEF-OTH ORGAN	51 COOKED-CANNED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	NOPET#	P 0.100000	0.001000		100.00	0.001000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	5E1546	P 0.100000	0.001000		100.00	0.001000
53003BA	SHEEP-MEAT BYP	21 COOKED-NFS	NOPET#	P 0.100000	0.001000		100.00	0.001000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm OMCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAG RUN (ppm)
53005BB	SHEEP-OTH ORGAN	21 COOKED-WFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53005FA	SHEEP-FAT	21 COOKED-WFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53005KA	SHEEP-KIDNEY	21 COOKED-WFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	NOPET#	P 0.100000	0.001000		100.00	0.001000
53005MA	SHEEP-LEAN	21 COOKED-WFS	NOPET#	P 0.100000	0.001000		100.00	0.001000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	NOPET#	P 0.100000	0.001000		100.00	0.001000

TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azirphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M ⁺ Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tum- ors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	ARC	%RFD
	CURRENT TMRC*	NEW TMRC**						
U.S. POPULATION - 48 STATES	0.015930	0.015930	1062.025133	0.000533	0.000195	13.01640		
U.S. POPULATION - SPRING SEASON	0.015343	0.015343	1022.853467	0.000000	0.000182	12.13633		
U.S. POPULATION - SUMMER SEASON	0.016176	0.016176	1078.412600	0.001467	0.000187	12.45693		
U.S. POPULATION - FALL SEASON	0.016068	0.016068	1071.228867	0.000733	0.000202	13.46187		
U.S. POPULATION - WINTER SEASON	0.016119	0.016119	1074.626267	0.000000	0.000204	13.58213		
NORTHEAST REGION	0.018316	0.018316	1221.086267	0.000000	0.000197	13.11500		
NORTH CENTRAL REGION	0.015764	0.015764	1050.921267	0.000000	0.000203	13.50500		
SOUTHERN REGION	0.013224	0.013224	881.631533	0.000000	0.000175	11.63600		
WESTERN REGION	0.017626	0.017626	1175.098467	0.003067	0.000209	13.96653		
HISPANICS	0.018013	0.018013	1200.872067	0.000000	0.000206	13.74820		
NON-HISPANIC WHITES	0.016099	0.016099	1073.248467	0.000667	0.000197	13.12333		
NON-HISPANIC BLACKS	0.013549	0.013549	903.258333	0.000000	0.000167	11.14900		
NON-HISPANIC OTHERS	0.018357	0.018357	1223.798667	0.000000	0.000190	12.68480		
NURSING INFANTS (< 1 YEAR OLD)	0.026450	0.026450	1763.351733	0.000000	0.000194	12.92767		
NON-NURSING INFANTS (< 1 YEAR OLD)	0.049884	0.049884	3325.601867	0.000000	0.000803	53.50733		
FEMALES (13+ YEARS, PREGNANT)	0.012523	0.012523	834.895600	0.000000	0.000153	10.22533		
FEMALES 13+ YEARS, NURSING CHILDREN (1-6 YEARS OLD)	0.014531	0.014531	968.760933	0.000000	0.000162	10.78220		
CHILDREN (7-12 YEARS OLD)	0.039043	0.039043	2602.869733	0.000000	0.000495	32.98147		
CHILDREN (13-19 YEARS OLD)	0.022977	0.022977	1531.797800	0.000000	0.000329	21.94500		
MALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.013509	0.013509	900.583000	0.001667	0.000205	13.68393		
MALES (20 YEARS AND OLDER)	0.012413	0.012413	827.564533	0.006267	0.000172	11.46473		
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.010755	0.010755	717.031533	0.000000	0.000121	8.06513		
	0.011813	0.011813	787.507600	0.000000	0.000114	7.63320		

*Current TMRC does not include new or pending tolerances.

**New TMRC includes new, pending, and published tolerances.

14

TABLE 3

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm OMCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	8.000000		100.00	8.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	336	P 2.000000	8.000000		100.00	8.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	336	P 2.000000	8.000000		100.00	8.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	8.000000		100.00	8.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	336	P 2.000000	8.000000		100.00	8.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	336	P 2.000000	8.000000		100.00	8.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	336	P 2.000000	8.000000		100.00	8.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	336	P 2.000000	8.000000		100.00	8.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	336	P 2.000000	8.000000		100.00	8.000000
01006AA	RASPBERRIES	70 RAW-FROZEN	336	P 2.000000	8.000000		100.00	8.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	21 COOKED-NFS	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7F0539	P 5.000000	0.002870		100.00	0.002870
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F0539	P 5.000000	0.002870		100.00	0.002870
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	314	P 2.000000	0.500000		100.00	0.500000
01010AA	CRANBERRIES	21 COOKED-NFS	314	P 2.000000	0.500000		100.00	0.500000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.500000		100.00	0.500000
01010AA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	314	P 2.000000	0.500000C		100.00	0.500000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.500000C		100.00	0.500000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	249	P 5.000000	4.000000		100.00	4.000000
01014AA	GRAPES-FRESH	21 COOKED-NFS	249	P 5.000000	4.000000		100.00	4.000000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	249	P 5.000000	4.000000C		100.00	4.000000
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	249	P 5.000000	4.000000C		100.00	4.000000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	249	P 5.000000	4.000000C		100.00	4.000000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	249	P 5.000000	4.000000C		100.00	4.000000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	249	P 5.000000	4.000000C		100.00	4.000000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	249	P 5.000000	4.000000C		100.00	4.000000
01014JA	GRAPES-JUICE	21 COOKED-NFS	249	P 5.000000	4.000000C		100.00	4.000000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	207	P 2.000000	0.000910		100.00	0.000910
01016AA	STRAWBERRIES	21 COOKED-NFS	207	P 2.000000	0.000910		100.00	0.000910
01016AA	STRAWBERRIES	70 RAW-FROZEN	207	P 2.000000	0.000910		100.00	0.000910
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	355	P 2.000000	2.000000		100.00	2.000000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.004360		100.00	0.004360
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.004360		100.00	0.004360
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	355	P 2.000000	0.004360		100.00	0.004360
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.004360		100.00	0.004360
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.004360		100.00	0.004360
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	355	P 2.000000	2.000000		100.00	2.000000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	355	P 2.000000	0.005000		100.00	0.005000

15

CHEMICAL Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	STUDY TYPE 1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	EFFECTS Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	REFERENCE DOSES ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	DATA GAPS/COMMENTS No data gaps. Reg. Std. Sept, 1986.	STATUS HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	355	P 2.000000	0.006000		100.00	0.006000
02004HA	LEMONS-PEEL	21 COOKED-NFS	355	P 2.000000	0.006000		100.00	0.006000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	21 COOKED-NFS	355	P 2.000000	0.005000		100.00	0.005000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.005000		100.00	0.005000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02005HA	LIMES-PEEL	21 COOKED-NFS	355	P 2.000000	0.006000		100.00	0.006000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	355	P 2.000000	0.005000		100.00	0.005000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.005000		100.00	0.005000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	355	P 2.000000	0.00250		100.00	0.00250
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	355	P 2.000000	0.00250		100.00	0.00250
02006AB	ORANGES-PULP	21 COOKED-NFS	355	P 2.000000	0.00250		100.00	0.00250
02006HA	ORANGES-PEEL	21 COOKED-NFS	355	P 2.000000	0.00300		100.00	0.00300
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	355	P 2.000000	0.00300		100.00	0.00300
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.00300		100.00	0.00300
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.00300		100.00	0.00300
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	355	P 2.000000	0.00250C		100.00	0.00250
02007AA	TANGELOS	10 RAW-FRESH OR NFS	355	P 2.000000	0.00250		100.00	0.00250
02008AA	TANGERINES	10 RAW-FRESH OR NFS	355	P 2.000000	0.00250		100.00	0.00250
02008JA	TANGERTINE- JUICE	15 RAW-FRESH OR CANNED	355	P 2.000000	0.00250		100.00	0.00250
03001AA	ALMONDS	10 RAW-FRESH OR NFS	7F0582	P 0.300000	0.200000		30.00	0.060000
03001AA	ALMONDS	21 COOKED-NFS	7F0582	P 0.300000	0.200000		30.00	0.060000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	7F0582	P 0.300000	0.200000		30.00	0.060000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03005AA	FILBERTS	21 COOKED-NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	21 COOKED-NFS	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	23 COOKED-FRESH-BOILED	0F0869	P 0.300000	0.300000		100.00	0.300000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	0F0869	P 0.300000	0.300000		100.00	0.300000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.200000		20.00	0.040000
03009AA	WALNUTS	21 COOKED-NFS	0F0869	P 0.300000	0.200000		20.00	0.040000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		20.00	0.040000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	8E2125	P 0.300000	0.300000		100.00	0.300000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TA\$ RUN (ppm)
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	21 COOKED-NFS	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003250		100.00	0.003250
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.003250		100.00	0.003250
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.019500C		100.00	0.019500
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	115	P 2.000000	0.019500C		100.00	0.019500
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.019500C		100.00	0.019500
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	115	P 2.000000	0.003250C		100.00	0.003250
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003250C		100.00	0.003250
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	2.000000		100.00	2.000000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.004460		100.00	0.004460
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.004460		100.00	0.004460
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.004460		100.00	0.004460
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	0.004460		100.00	0.004460
04003DA	PEARS-DRIED	21 COOKED-NFS	115	P 2.000000	0.026750C		100.00	0.026750
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	2.000000		100.00	2.000000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	21 COOKED-NFS	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.003630		100.00	0.003630
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.003630		100.00	0.003630
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	115	P 2.000000	0.004360C		100.00	0.004360
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	115	P 2.000000	0.003630C		100.00	0.003630
05002JA	CHERRIES-JUICE	21 COOKED-NFS	115	P 2.000000	0.003630C		100.00	0.003630
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	4.000000		100.00	4.000000
05004AA	PEACHES-FRESH	21 COOKED-NFS	115	P 2.000000	4.000000		100.00	4.000000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	4.000000		100.00	4.000000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	115	P 2.000000	4.000000		100.00	4.000000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	115	P 2.000000	4.000000C		100.00	4.000000
05004DA	PEACHES-DRIED	21 COOKED-NFS	115	P 2.000000	4.000000C		100.00	4.000000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	115	P 2.000000	0.001800		100.00	0.001800
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.001800		100.00	0.001800
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	115	P 2.000000	0.002160C		100.00	0.002160
05005DA	PLUMS-PRUNES	21 COOKED-NFS	115	P 2.000000	0.002160C		100.00	0.002160
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	115	P 2.000000	0.002160C		100.00	0.002160
05005DA	PLUMS-PRUNES	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.002160C		100.00	0.002160
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	115	P 2.000000	0.002160C		100.00	0.002160
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	115	P 2.000000	0.002160C		100.00	0.002160
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	8E3618	P 0.100000	0.100000		100.00	0.100000
06015AA	POMEGRANATES	21 COOKED-NFS	8E3618	P 0.100000	0.100000		100.00	0.100000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 374

DATE: 04/17/97

PAGE: 4

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm OMCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte-ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAŞ RUN (ppm)
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10003AA	CASABAS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10004AA	CRENSHAWS	06 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10007AA	PERSEYON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	7F0539	P 2.000000	0.000260		100.00	0.000260
10008AA	WATERMELON	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10008AA	WATERMELON	21 COOKED-NFS	7F0539	P 2.000000	0.000260		100.00	0.000260
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	7F0539	P 2.000000	0.000200		100.00	0.000200
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F0539	P 2.000000	0.000200		100.00	0.000200
10010AA	CUCUMBERS	21 COOKED-NFS	7F0539	P 2.000000	0.000200		100.00	0.000200
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250		100.00	0.001250
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	314	P 2.000000	0.001250		100.00	0.001250
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250		100.00	0.001250
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250		100.00	0.001250
11005JA	TOMATOES-JUICE	21 COOKED-NFS	314	P 2.000000	0.001250		100.00	0.001250
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	314	P 2.000000	0.001250C		100.00	0.001250
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	314	P 2.000000	0.001250C		100.00	0.001250
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	314	P 2.000000	0.001250C		100.00	0.001250
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	314	P 2.000000	0.001250C		100.00	0.001250
13005AA	BROCCOLI	21 COOKED-NFS	207	P 2.000000	0.000080		100.00	0.000080
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.000080		100.00	0.000080
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	207	P 2.000000	0.000080		100.00	0.000080
13007AA	CABBAGE	10 RAW-FRESH OR NFS	207	P 2.000000	0.000730		100.00	0.000730
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	207	P 2.000000	0.000730		100.00	0.000730
13007AA	CABBAGE	21 COOKED-NFS	207	P 2.000000	0.000060		100.00	0.000060
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	207	P 2.000000	0.000060		100.00	0.000060
13008AA	CAULIFLOWER	21 COOKED-NFS	207	P 2.000000	0.000060		100.00	0.000060
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	207	P 2.000000	0.000730		100.00	0.000730
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	207	P 2.000000	0.000730		100.00	0.000730
13022AA	PARSLEY	10 RAW-FRESH OR NFS	9E2233	P 5.000000	5.000000		5.00	0.250000
13022AA	PARSLEY	21 COOKED-NFS	9E2233	P 5.000000	5.000000		5.00	0.250000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	9E2233	P 5.000000	5.000000		5.00	0.250000
14007AA	GARLIC	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
14007AA	GARLIC	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RfD= 0.0015 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAG RUN (ppm)
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	207	P 2.000000	0.005000		100.00	0.005000
14010AA	LEEKs	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.005000		100.00	0.005000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	207	P 2.000000	0.005000		100.00	0.005000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	207	P 2.000000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	0F0869	P 0.300000	0.200000		100.00	0.200000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	0F0869	P 0.300000	0.200000		100.00	0.200000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	0F0869	P 0.300000	0.200000		100.00	0.200000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	207	P 2.000000	0.005000		100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9E2233	P 2.000000	2.000000		5.00	0.100000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	207	P 2.000000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-NFS	207	P 2.000000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	207	P 2.000000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	7F0582	P 0.200000	0.200000		1.00	0.002000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		1.00	0.002000
24005WA	RYE-FLOUR	21 COOKED-NFS	7F0582	P 0.200000	0.200000		1.00	0.002000
24005WA	RYE-FLOUR	22 COOKED-FRESH-BAKED	7F0582	P 0.200000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	21 COOKED-NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	5F0442	P 0.300000	0.200000		35.00	0.070000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	5F0442	P 0.300000	0.200000		35.00	0.070000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	115	P 0.500000	0.500000		10.00	0.050000
27003WA	COTTONSEED-HEAL	18 PROCESSED OIL	115	P 0.500000	0.500000		100.00	0.050000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	249	P 5.000000	4.000000		100.00	4.000000
43058AA	WINE AND SHERRY	21 COOKED-NFS	249	P 5.000000	4.000000		100.00	4.000000

9

TABLE 4

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte Che inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**		ARC	ZARFD
U.S. POPULATION - 48 STATES	0.015930	0.015930	0.000533	0.002204	146.91947
U.S. POPULATION - SPRING SEASON	0.015343	0.015343	0.000000	0.002087	139.15373
U.S. POPULATION - SUMMER SEASON	0.016176	0.016176	0.001467	0.002740	182.66433
U.S. POPULATION - FALL SEASON	0.016068	0.016068	0.000733	0.001944	129.60993
U.S. POPULATION - WINTER SEASON	0.016119	0.016119	0.000000	0.001976	131.74947
NORTHEAST REGION	0.018316	0.018316	0.000000	0.002497	166.43873
NORTH CENTRAL REGION	0.015764	0.015764	0.000000	0.002187	145.82413
SOUTHERN REGION	0.013224	0.013224	0.000000	0.001656	110.40187
WESTERN REGION	0.017626	0.017626	0.003067	0.002687	179.14167
HISPANICS	0.018013	0.018013	0.000000	0.001957	130.44733
NON-HISPANIC WHITES	0.016099	0.016099	0.000667	0.002303	153.50647
NON-HISPANIC BLACKS	0.013549	0.013549	0.000000	0.001619	107.91120
NON-HISPANIC OTHERS	0.018357	0.018357	0.000000	0.001530	101.99433
NURSING INFANTS (< 1 YEAR OLD)	0.026450	0.026450	0.000000	0.005562	370.79473
NON-NURSING INFANTS (< 1 YEAR OLD)	0.049884	0.049884	0.000000	0.009626	641.71667
FEMALES (13+ YEARS, PREGNANT)	0.012523	0.012523	0.000000	0.001623	108.19727
FEMALES 13+ YEARS, NURSING CHILDREN (1-6 YEARS OLD)	0.014531	0.014531	0.000000	0.002407	160.48000
CHILDREN (7-12 YEARS OLD)	0.039043	0.039043	0.000000	0.005044	336.23547
MALES (13-19 YEARS OLD)	0.022977	0.022977	0.000000	0.002982	198.78253
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.013509	0.013509	0.001667	0.001366	91.06413
MALES (20 YEARS AND OLDER)	0.012413	0.012413	0.006267	0.001389	92.59633
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.010755	0.010755	0.000000	0.001573	104.83387
	0.011813	0.011813	0.000000	0.001730	115.30880

*Current TMRC does not include new or pending tolerances.

**New TMRC includes new, pending, and published tolerances.

TABLE 5

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
03011AA	PISTACHIO NUTS 10 RAW-FRESH OR NFS	0.300	P	0.000000	0.000	0.30000	0.000000	0.000
06015AA	POMEGRANATES 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000
25003SA	CANE SUGAR 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.300	P	0.256471	17.098	0.07000	0.002394	0.160
25003SB	SUGAR-MOLASSES 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.300	P	0.002095	0.140	0.07000	0.000000	0.000
27003OA	COTTONSEED-OIL 18 PROCESSED OIL	0.500	P	0.002718	0.181	0.07000	0.000000	0.000
27003WA	COTTONSEED-NEAL 18 PROCESSED OIL	0.500	P	0.000315	0.021	0.07000	0.000381	0.025
43058AA	WINE AND SHERRY 10 RAW-FRESH OR NFS 21 COOKED-NFS	5.000	P	0.000000	0.000	0.07000	0.000108	0.007
CROP GROUP TOTALS FOR UNSPECIFIED:					17.440		0.060635	4.042
14013AA	POTATOES(WHITE)-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.300	P	0.083036	5.536	0.20000	0.011044	0.736
14013AB	POTATOES(WHITE)-UNSPECIFIED 22 COOKED-FRESH-BAKED 22 COOKED-FRESH-BAKED	0.300	P	0.000000	0.000	0.20000	0.012740	0.849
14013AC	POTATOES(WHITE)-PEELED 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.300	P	0.237750	15.850	0.20000	0.031573	2.105
14013DA	POTATOES(WHITE)-DRY 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.300	P	0.097697	6.513	0.20000	0.000000	0.000
14013HA	POTATOES(WHITE)-PEEL ONLY 22 COOKED-FRESH-BAKED	0.300	P	0.000000	0.000	0.20000	0.018938	1.263
						0.20000	0.017684	1.179
						0.20000	0.111905	7.460
						0.20000	0.009972	0.665
						0.20000	0.000525	0.035
						0.20000	0.009496	0.633
						0.20000	0.000000	0.000

21

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 2

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
14030AA	PARSLEY ROOTS 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000000	0.000	0.10000	0.000000	0.000
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:								
				0.418483	27.899		0.223877	14.925
14007AA	GARLIC 10 RAW-FRESH OR NFS 21 COOKED-NFS 32 COOKED-FRESH OR CANNED-BAKED	2.000	P *	0.000603	0.040	0.00500	0.000000	0.000
14010AA	LEEKs 31 COOKED-FRESH OR CANNED	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
14011AA	ONIONS-DRY-BULB (DIPOLLINI) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	2.000	P	0.080669	5.378	0.00500	0.000000	0.000
14011DA	ONIONS-DEHYDRATED OR DRIED 12 RAW-FRESH-DRIED	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
14017AA	SHALLOTS 00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
16004AA	ONIONS-GREEN 10 RAW-FRESH OR NFS 21 COOKED-NFS 25 COOKED-FRESH-FRIED	2.000	P	0.000201	0.013	0.00500	0.000000	0.000
CROP GROUP TOTALS FOR BULB VEGETABLES:								
				0.081473	5.432		0.000203	0.014
13022AA	PARSLEY 10 RAW-FRESH OR NFS 21 COOKED-NFS 53 COOKED-CANNED-BOILED	5.000	P	0.007388	0.493	0.25000	0.000003	0.000
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):								
				0.007388	0.493	0.25000	0.000351	0.023
						0.25000	0.000015	0.001
							0.000369	0.025
13005AA	BROCCOLI 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 63 COOKED-FRESH OR FROZEN-BOILED	2.000	P	0.052590	3.506	0.00008	0.000001	0.000
13007AA	CABBAGE-GREEN AND RED 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED, CORNED, OR CURED	2.000	P	0.038183	2.546	0.00073	0.000000	0.000
						0.00073	0.000000	0.000

22

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 06/17/97

PAGE: 3

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azaphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm OMCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte Che inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPH)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPH)	ARC (UG/KG/DAY)	%RFD
13008AA	21 COOKED-NFS CAULIFLOWER	2.000	P	0.003545	0.236	0.00073	0.000014	0.001
13010AA	21 COOKED-NFS CABBAGE-CHINESE/CELERY, INC. BOK CHOY	2.000	P	0.000000	0.000	0.00006	0.000000	0.000
11005JA	21 COOKED-NFS TOMATOES-JUICE	2.000	P	0.000000	0.000	0.00073	0.000000	0.000
11005RA	21 COOKED-NFS TOMATOES-PUREE	2.000	P	0.691669	46.111	0.00073	0.000000	0.000
11005TA	21 COOKED-NFS TOMATOES-PASTE	2.000	P	0.325771	21.718	0.00125	0.000020	0.001
11005UA	21 COOKED-NFS TOMATOES-CATSUP	2.000	P	0.018827	1.255	0.00125	0.000004	0.001
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:					6.288	0.000016		0.001
11005AA	21 COOKED-NFS TOMATOES-WHOLE	2.000	P	0.906373	60.425	0.00125	0.000005	0.000
11005JA	21 COOKED-NFS TOMATOES-JUICE	2.000	P	0.000000	0.000	0.00125	0.000113	0.008
11005RA	21 COOKED-NFS TOMATOES-PUREE	2.000	P	0.691669	46.111	0.00125	0.000449	0.030
11005TA	21 COOKED-NFS TOMATOES-PASTE	2.000	P	0.325771	21.718	0.00125	0.000000	0.000
11005UA	21 COOKED-NFS TOMATOES-CATSUP	2.000	P	0.018827	1.255	0.00125	0.000004	0.001
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITTS):					129.509	0.000741		0.049
10002AA	00 NOT SPECIFIED (NO CONSUMPTION) CANTALOUPE-UNSPECIFIED	2.000	P	0.000000	0.000	0.00026	0.000000	0.000
10002AB	00 NOT SPECIFIED (NO CONSUMPTION) CANTALOUPE-PULP	2.000	P	0.015180	1.012	0.00026	0.000002	0.000
10003AA	21 COOKED-NFS CASABAS	2.000	P	0.000000	0.000	0.00026	0.000000	0.000
10004AA	00 NOT SPECIFIED (NO CONSUMPTION) CRENSHAW	2.000	P	0.000000	0.000	0.00026	0.000000	0.000

23

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225		1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RFD= 0.001500 EPA RFD= 0.0000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
10005AA	HONEYDEW MELONS	2.000	P	0.010400	0.693	0.00026	0.000001	0.000
	10 RAW-FRESH OR NFS							
10007AA	PERSON MELONS	2.000	P	0.000000	0.000	0.00026	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
10008AA	WATERMELON	2.000	P	0.031301	2.087	0.00026	0.000004	0.000
	10 RAW-FRESH OR NFS							
	21 COOKED-NFS							
10010AA	CUCUMBERS	2.000	P	0.051069	3.405	0.00020	0.000005	0.000
	10 RAW-FRESH OR NFS							
	11 RAW-FRESH-PICKLED, CORNED, OR CURED							
	21 COOKED-NFS							
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITTS):					0.107950	7.197	0.000012	0.001

02001AA	CITRUS CITRON	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	22 COOKED-FRESH-BAKED							
02002AA	GRAPEFRUIT-UNSPECIFIED	2.000	P	0.000000	0.000	0.00436	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
02002AB	GRAPEFRUIT-PULP	2.000	P	0.000000	0.000	0.00436	0.000000	0.000
	10 RAW-FRESH OR NFS							
	21 COOKED-NFS							
02002JA	GRAPEFRUIT-JUICE	2.000	P	0.464520	30.968	0.00436	0.001013	0.068
	15 RAW-FRESH OR CANNED							
	31 COOKED-FRESH OR CANNED							
02003AA	KUMQUATS	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	10 RAW-FRESH OR NFS							
02004AA	LEMONS-UNSPECIFIED	2.000	P	0.000081	0.005	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS							
	22 COOKED-FRESH-BAKED							
02004AB	LEMONS-PULP	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS							
	31 COOKED-FRESH OR CANNED							
02004HA	LEMONS-PEEL	2.000	P	0.000034	0.002	0.00600	0.000000	0.000
	10 RAW-FRESH OR NFS							
	21 COOKED-NFS							
02004JA	LEMONS-JUICE	2.000	P	0.014654	0.977	0.00500	0.000006	0.000
	10 RAW-FRESH OR NFS							
	15 RAW-FRESH OR CANNED							
	21 COOKED-NFS							
	31 COOKED-FRESH OR CANNED							
02005AA	LIMES-UNSPECIFIED	2.000	P	0.000000	0.000	0.00500	0.000005	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							

24

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225		1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (Rfd/PR Committee)	Diarrhea in M; Erythrocyte CHE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 Rfd/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		THRC TYPE (UG/KG/DAY)	XRFD	ANTICIPATED RESIDUE (PPM)		XRFD
		PPM	%			PPM	%	
02005AB	LIMES-PULP	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS							
02005HA	LIMES-PEEL	2.000	P	0.000000	0.000	0.00600	0.000000	0.000
	21 COOKED-NFS							
02005JA	LIMES-JUICE	2.000	P	0.000211	0.014	0.00500	0.000001	0.000
	10 RAW-FRESH OR NFS					0.00500	0.000000	0.000
	15 RAW-FRESH OR CANNED					0.00500	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.00500	0.000000	0.000
02006AA	ORANGES-UNSPECIFIED	2.000	P	0.000000	0.000	0.00025	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
02006AB	ORANGES-PULP	2.000	P	0.077945	5.196	0.00025	0.000009	0.001
	10 RAW-FRESH OR NFS					0.00025	0.000001	0.000
	21 COOKED-NFS							
02006HA	ORANGES-PEEL	2.000	P	0.000116	0.008	0.00030	0.000000	0.000
	21 COOKED-NFS					0.00030	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00030	0.000000	0.000
02006JA	ORANGES-JUICE	2.000	P	9.512179	634.145	0.00025	0.000345	0.023
	15 RAW-FRESH OR CANNED					0.00025	0.000316	0.021
	31 COOKED-FRESH OR CANNED							
02007AA	TANGELOS	2.000	P	0.000000	0.000	0.00025	0.000000	0.000
	10 RAW-FRESH OR NFS							
02008AA	TANGERINES	2.000	P	0.004615	0.308	0.00025	0.000001	0.000
	10 RAW-FRESH OR NFS							
02008JA	TANGERINE-JUICE	2.000	P	0.000000	0.000	0.00025	0.000000	0.000
	15 RAW-FRESH OR CANNED							
CROP GROUP TOTALS FOR CITRUS FRUITS:					10.074355	671.624	0.001723	0.115
04001AA	APPLES-FRESH	2.000	P	5.707992	380.533	0.00325	0.000184	0.012
	10 RAW-FRESH OR NFS					0.00325	0.000721	0.048
	21 COOKED-NFS					0.00325	0.008332	0.555
	31 COOKED-FRESH OR CANNED					0.00325	0.000039	0.003
	62 COOKED-FRESH OR FROZEN-BAKED							
04001DA	APPLES-DRIED	2.000	P	0.000000	0.000	0.01950	0.000000	0.000
	10 RAW-FRESH OR NFS					0.01950	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.01950	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED							
04001JA	APPLES-JUICE	2.000	P	10.392626	692.842	0.00325	0.003712	0.247
	15 RAW-FRESH OR CANNED					0.00325	0.007546	0.503
	31 COOKED-FRESH OR CANNED							

25

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
04002AA	CRABAPPLES	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
04003AA	00 NOT SPECIFIED (NO CONSUMPTION)							
	10 RAW-FRESH OR NFS					0.00446	0.000306	0.020
	31 COOKED-FRESH OR CANNED				210.408	0.00446	0.000720	0.048
	51 COOKED-CANNED					0.00446	0.006012	0.401
	62 COOKED-FRESH OR FROZEN-BAKED					0.00446	0.000000	0.000
04003DA	PEARS-DRIED	2.000	P	0.000000	0.000			
	10 RAW-FRESH OR NFS					0.02675	0.000000	0.000
	21 COOKED-NFS					0.02675	0.000000	0.000
04004AA	QUINCES	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
CROP GROUP TOTALS FOR POME FRUITS:					19.256736	1283.782	0.027572	1.838

05002AA	CHERRIES-FRESH	2.000	P	0.138929	9.262	0.00363	0.000005	0.000
	10 RAW-FRESH OR NFS					0.00363	0.000129	0.009
	21 COOKED-NFS					0.00363	0.000118	0.008
	31 COOKED-FRESH OR CANNED					0.00363	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED							
05002DA	CHERRIES-DRIED	2.000	P	0.000000	0.000	0.00436	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
05002JA	CHERRIES-JUICE	2.000	P	0.078633	5.242	0.00363	0.000095	0.006
	15 RAW-FRESH OR CANNED					0.00363	0.000000	0.000
	21 COOKED-NFS							
05004AA	PEACHES-FRESH	2.000	P	4.173478	278.232	4.00000	0.725986	48.399
	10 RAW-FRESH OR NFS					4.00000	0.002806	0.187
	21 COOKED-NFS					4.00000	0.971862	64.791
	31 COOKED-FRESH OR CANNED					4.00000	6.646301	443.087
	51 COOKED-CANNED							
05004DA	PEACHES-DRIED	2.000	P	0.000000	0.000	4.00000	0.000000	0.000
	10 RAW-FRESH OR NFS					4.00000	0.000000	0.000
	21 COOKED-NFS							
05005AA	PLUMS(DAMSONS)-FRESH	2.000	P	0.589976	39.332	0.00180	0.000014	0.001
	10 RAW-FRESH OR NFS					0.00180	0.000517	0.034
	31 COOKED-FRESH OR CANNED							
05005DA	PLUMS-PRUNES(DRIED)	2.000	P	0.304091	20.273	0.00216	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00216	0.000000	0.000
	21 COOKED-NFS					0.00216	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.00216	0.000109	0.007
05005JA	PLUMS, PRUNE-JUICE	2.000	P	0.340200	22.680	0.00216	0.000262	0.017
	10 RAW-FRESH OR NFS							

26

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 7

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225	1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tumors); negative in mouse.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
CROP GROUP TOTALS FOR STONE FRUITS:								
	62 COOKED-FRESH OR FROZEN-BAKED			5.625307	375.020	0.00216	8.348204	556.547
01002AA	BLACKBERRIES	2.000	P	0.001403	0.094	8.00000	0.000000	0.000
	10 RAW-FRESH OR NFS					8.00000	0.005613	0.374
	21 COOKED-NFS					8.00000	0.000000	0.000
01003AA	BOYSENBERRIES	2.000	P	0.000000	0.000	8.00000	0.000000	0.000
	10 RAW-FRESH OR NFS					8.00000	0.000000	0.000
01005AA	LOGANBERRIES	2.000	P	0.000000	0.000	8.00000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					8.00000	0.000000	0.000
01006AA	RASPBERRIES	2.000	P	0.000000	0.000	8.00000	0.000000	0.000
	10 RAW-FRESH OR NFS					8.00000	0.000000	0.000
	15 RAW-FRESH OR CANNED					8.00000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					8.00000	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED					8.00000	0.000000	0.000
	70 RAW-FROZEN					8.00000	0.000000	0.000
01009AA	BLUEBERRIES	5.000	P	0.402743	26.850	0.00287	0.000043	0.003
	10 RAW-FRESH OR NFS					0.00287	0.000187	0.012
	21 COOKED-NFS					0.00287	0.000002	0.000
	22 COOKED-FRESH-BAKED					0.00287	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED					0.00287	0.000000	0.000
01010AA	CRANBERRIES	2.000	P	0.031506	2.100	0.50000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.50000	0.000000	0.000
	21 COOKED-NFS					0.50000	0.007877	0.525
	31 COOKED-FRESH OR CANNED					0.50000	0.000000	0.000
01010JA	CRANBERRIES-JUICE	2.000	P	0.000000	0.000	0.50000	0.000000	0.000
	15 RAW-FRESH OR CANNED					0.50000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.50000	0.000000	0.000
01014AA	GRAPES-FRESH	5.000	P	0.123681	8.245	4.00000	0.014607	0.974
	10 RAW-FRESH OR NFS					4.00000	0.000000	0.000
	21 COOKED-NFS					4.00000	0.084338	5.623
	31 COOKED-FRESH OR CANNED					4.00000	0.000000	0.000
01014DA	GRAPES-RAISINS	5.000	P	0.089096	5.940	4.00000	0.000000	0.000
	10 RAW-FRESH OR NFS					4.00000	0.000000	0.000
	21 COOKED-NFS					4.00000	0.016576	1.105
	22 COOKED-FRESH-BAKED					4.00000	0.000000	0.000
01014JA	GRAPES-JUICE	5.000	P	1.249106	83.274	4.00000	0.131754	8.784
	10 RAW-FRESH OR NFS					4.00000	0.651333	43.422
	15 RAW-FRESH OR CANNED							

2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 04/17/97

PAGE: 8

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
01016AA	21 COOKED-NFS STRAWBERRIES	2.000	P	0.054528	3.635	4.00000	0.049650	3.310
	10 RAW-FRESH OR NFS					0.00091	0.000014	0.001
	21 COOKED-NFS					0.00091	0.000001	0.000
	70 RAW-FROZEN					0.00091	0.000010	0.001
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:					130.138		0.962005	64.134
24005AA	RYE-ROUGH	0.200	P	0.000000	0.000	0.00200	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00200	0.000000	0.000
24005GA	RYE-GERM	0.200	P	0.000000	0.000	0.00200	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00200	0.000000	0.000
24005WA	RYE-FLOUR	0.200	P	0.000044	0.003	0.00200	0.000000	0.000
	21 COOKED-NFS					0.00200	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00200	0.000000	0.000
CROP GROUP TOTALS FOR CEREAL GRAINS:					0.003		0.000000	0.000
03001AA	ALMONDS	0.300	P	0.000641	0.043	0.06000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.06000	0.000096	0.006
	21 COOKED-NFS					0.06000	0.000032	0.002
	22 COOKED-FRESH-BAKED					0.30000	0.000000	0.000
03005AA	FILBERTS, HAZELNUTS	0.300	P	0.000040	0.003	0.30000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.30000	0.000000	0.000
	21 COOKED-NFS					0.30000	0.000040	0.003
	22 COOKED-FRESH-BAKED					0.30000	0.000000	0.000
03008AA	PECANS	0.300	P	0.000108	0.007	0.30000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.30000	0.000000	0.000
	21 COOKED-NFS					0.30000	0.000108	0.007
	22 COOKED-FRESH-BAKED					0.30000	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.30000	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED					0.30000	0.000000	0.000
03009AA	WALNUTS	0.300	P	0.000874	0.058	0.04000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.04000	0.000000	0.000
	21 COOKED-NFS					0.04000	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.04000	0.000117	0.008
CROP GROUP TOTALS FOR TREE NUTS:					0.111		0.000393	0.026

28

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Azinphos-methyl (Guthion) Caswell #374 CAS No. 86-50-0 A.I. CODE: 058001 CFR No. 180.154 185.2225		1yr feeding- dog NOEL= 0.1500 mg/kg 5.00 ppm LEL= 0.6900 mg/kg 25.00 ppm ONCO: E (RfD/PR Committee)	Diarrhea in M; Erythrocyte ChE inhibition in M&F. Equivocal evidence of carcinogenicity in rats (pancreas & adrenal tum-ors); negative in mouse.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.000000	No data gaps. Reg. Std. Sept, 1986.	HED reviewed 06/30/86 EPA deferred 08/05/86 WHO reviewed 1991 RfD/PR reviewed 09/16/93

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE (UG/KG/DAY)	THRC	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
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GRAND TOTALS FOR NON-NURSING INFANTS (< 1 YEAR OLD)

39.824019 2654.935

9.625750 641.717

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

TABLE 6

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 07:53 Friday, April 18, 1997 67

 NAME: GUTHION (AZINPHOSMETHYL) STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 CASWELL NO: 374 CFR NO: CFR180.154 A 00000.0013 000005.000 000100 Chronic Rat Enzymatic Blank 0000000547
 *CAS NO: 00086-50-0 SHAUGHNESSY NO: 058001 B
 *STATUS CODES: C
 *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*

-----U.S. POP.--48 STATES-----

ESTIMATED % OF POTENTIAL

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0.00	0.00
100	99.82	15.62

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

X	0	1	2	3	4	5	10	15	20
ESTIMATED %	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8

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
100	24	8

TOLERANCES:
 ANTICIPATED RESIDUES:

-----OINFANTS(<1 YEAR)-----

ESTIMATED % OF POTENTIAL

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0.00	0.00
100	93.48	45.78

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

X	0	1	2	3	4	5	10	15	20
ESTIMATED %	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8

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
100	60	43

TOLERANCES:
 ANTICIPATED RESIDUES:

-----OCHILDREN(1-6 YRS)-----

ESTIMATED % OF POTENTIAL

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0.00	0.00
100	99.97	37.64

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

X	0	1	2	3	4	5	10	15	20
ESTIMATED %	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8

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
100	58	36

TOLERANCES:
 ANTICIPATED RESIDUES:

10 DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 07:53 Friday, April 18, 1997 68

 NAME: GUTHION (AZINPHOSMETHYL) STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 CASWELL NO: 374 CFR NO: CFR180.154 A 00000.0013 000005.000 000100 Chronic Rat Enzymatic Blank 0000000547
 *CAS NO: 00086-50-0 SHAUGHNESSY NO: 058001 B
 *STATUS CODES: C
 *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		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY									
PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV									
0.00	0.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99.86	0.011795	11.79	11.79	11.79	11.79	11.79	11.79	11.79	11.79	11.79	11.79
0.2	.4	.6	.8	1.2	1.4	1.6	1.8	2	3	4	5
0	0	0	0	0	0	0	0	0	0	0	0
100	18	3	1	0	0	0	0	0	0	0	0

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

0

TOLERANCES:

ANTICIPATED RESIDUES:

0

OMALES(13+ 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									
0.00	0.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99.94	0.011085	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09	11.09
0.2	.4	.6	.8	1.2	1.4	1.6	1.8	2	3	4	5
0	0	0	0	0	0	0	0	0	0	0	0
100	15	2	0	0	0	0	0	0	0	0	0

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:
 ANTICIPATED RESIDUES:

General U.S. Population
 Exposure = RDV x X
 = 0.1 x 1.4
 High End Exposure = 0.14
 MOE = Noel + Exposure
 = 1.0 mg/kg/day + 0.14 mg/kg/day
 MOE = 7

Infants (< 1 year)

Exposure = RDV x X
= 0.1 x 3
High End Exposure = 0.3

MOE = Noel + Exposure
= 1.0 mg/kg/day + 0.3 mg/kg/day
MOE = 3

Children (1-6 years)

Exposure = RDV x X
= 0.1 x 3
High End Exposure = 0.3

MOE = Noel + Exposure
= 1.0 mg/kg/day + 0.3 mg/kg/day
MOE = 3

Females (13+ Years):

Exposure = RDV x X
= 0.1 x .8
High End Exposure = 0.08

MOE = Noel + Exposure
= 1.0 mg/kg/day + 0.08 mg/kg/day
MOE = 12.5

Males (13+ Years):

Exposure = RDV x X
= 0.1 x .6
High End Exposure = 0.06

MOE = Noel + Exposure
= 1.0 mg/kg/day + 0.06 mg/kg/day
MOE = 17

374 01002AA10 2.0000 BLACKBERRIES
 374 01002AA21 2.0000 BLACKBERRIES
 374 01002AA62 2.0000 BLACKBERRIES
 374 01003AA10 2.0000
 BOYSENBERRIES
 374 01005AA00 2.0000 LOGANBERRIES
 374 01006AA10 2.0000 RASPBERRIES
 374 01006AA15 2.0000 RASPBERRIES
 374 01006AA31 2.0000 RASPBERRIES
 374 01006AA62 2.0000 RASPBERRIES
 374 01006AA70 2.0000 RASPBERRIES
 374 01009AA10 5.0000 BLUEBERRIES
 374 01009AA21 5.0000 BLUEBERRIES
 374 01009AA22 5.0000 BLUEBERRIES
 374 01009AA62 5.0000 BLUEBERRIES
 374 01010AA10 2.0000 CRANBERRIES
 374 01010AA21 2.0000 CRANBERRIES
 374 01010AA31 2.0000 CRANBERRIES
 374 01010JA15 2.0000
 CRANBERRY- JUICE
 374 01010JA31 2.0000
 CRANBERRY- JUICE
 374 01013AA62 5.0000 GOOSEBERRIES
 374 01014AA10 5.0000 GRAPES-FRESH
 374 01014AA21 5.0000 GRAPES-FRESH
 374 01014AA31 5.0000 GRAPES-FRESH
 374 01014DA10 5.0000
 GRAPES-RAISINS
 374 01014DA21 5.0000
 GRAPES-RAISINS
 374 01014DA22 5.0000
 GRAPES-RAISINS
 374 01014JA10 5.0000 GRAPES- JUICE
 374 01014JA15 5.0000 GRAPES- JUICE
 374 01014JA21 5.0000 GRAPES- JUICE
 374 01016AA10 2.0000 STRAWBERRIES
 374 01016AA21 2.0000 STRAWBERRIES
 374 01016AA70 2.0000 STRAWBERRIES
 374 02001AA22 2.0000 CITRUS
 CITRON
 374 02002AA00 2.0000
 GRAPEFRUIT-UNSP
 374 02002AB10 2.0000
 GRAPEFRUIT-PULP
 374 02002AB21 2.0000
 GRAPEFRUIT-PULP
 374 02002JA15 2.0000
 GRAPEFRUIT- JUICE
 374 02002JA31 2.0000
 GRAPEFRUIT- JUICE
 374 02003AA10 2.0000 KUMQUATS
 374 02004AA10 2.0000
 LEMONS-UNSPEC
 374 02004AA22 2.0000
 LEMONS-UNSPEC
 374 02004AB10 2.0000 LEMONS-PULP
 374 02004AB31 2.0000 LEMONS-PULP
 374 02004HA10 2.0000 LEMONS-PEEL
 374 02004HA21 2.0000 LEMONS-PEEL
 374 02004JA10 2.0000 LEMONS- JUICE
 374 02004JA15 2.0000 LEMONS- JUICE
 374 02004JA21 2.0000 LEMONS- JUICE
 374 02004JA31 2.0000 LEMONS- JUICE
 374 02005AA00 2.0000 LIMES-UNSPEC
 374 02005AB10 2.0000 LIMES-PULP
 374 02005HA21 2.0000 LIMES-PEEL
 374 02005JA10 2.0000 LIMES- JUICE
 374 02005JA15 2.0000 LIMES- JUICE
 374 02005JA31 2.0000 LIMES- JUICE
 374 02006AA00 2.0000
 ORANGES-UNSPEC

374 02006AB10 2.0000 ORANGES-PULP
 374 02006AB21 2.0000 ORANGES-PULP
 374 02006HA21 2.0000 ORANGES-PEEL
 374 02006HA22 2.0000 ORANGES-PEEL
 374 02006HA31 2.0000 ORANGES-PEEL
 374 02006JA15 2.0000
 ORANGES- JUICE
 374 02006JA31 2.0000
 ORANGES- JUICE
 374 02007AA10 2.0000 TANGELOS
 374 02008AA10 2.0000 TANGERINES
 374 02008JA15 2.0000
 TANGERINE- JUICE
 374 03001AA10 0.3000 ALMONDS
 374 03001AA21 0.3000 ALMONDS
 374 03001AA22 0.3000 ALMONDS
 374 03005AA10 0.3000 FILBERTS
 374 03005AA21 0.3000 FILBERTS
 374 03005AA22 0.3000 FILBERTS
 374 03008AA10 0.3000 PECANS
 374 03008AA21 0.3000 PECANS
 374 03008AA22 0.3000 PECANS
 374 03008AA23 0.3000 PECANS
 374 03008AA62 0.3000 PECANS
 374 03009AA10 0.3000 WALNUTS
 374 03009AA21 0.3000 WALNUTS
 374 03009AA22 0.3000 WALNUTS
 374 03011AA10 0.3000 PISTACHIO
 NUTS
 374 04001AA10 2.0000 APPLES-FRESH
 374 04001AA21 2.0000 APPLES-FRESH
 374 04001AA31 2.0000 APPLES-FRESH
 374 04001AA62 2.0000 APPLES-FRESH
 374 04001DA10 2.0000 APPLES-DRIED
 374 04001DA22 2.0000 APPLES-DRIED
 374 04001DA62 2.0000 APPLES-DRIED
 374 04001JA15 2.0000 APPLES- JUICE
 374 04001JA31 2.0000 APPLES- JUICE
 374 04002AA00 2.0000 CRABAPPLES
 374 04003AA10 2.0000 PEARS-FRESH
 374 04003AA31 2.0000 PEARS-FRESH
 374 04003AA62 2.0000 PEARS-FRESH
 374 04003DA10 2.0000 PEARS-DRIED
 374 04003DA21 2.0000 PEARS-DRIED
 374 04004AA00 2.0000 QUINCES
 374 05001AA10 2.0000
 APRICOTS-FRESH
 374 05001AA21 2.0000
 APRICOTS-FRESH
 374 05001AA31 2.0000
 APRICOTS-FRESH
 374 05001DA10 2.0000
 APRICOTS-DRIED
 374 05001DA22 2.0000
 APRICOTS-DRIED
 374 05002AA10 2.0000
 CHERRIES-FRESH
 374 05002AA21 2.0000
 CHERRIES-FRESH
 374 05002AA31 2.0000
 CHERRIES-FRESH
 374 05002AA62 2.0000
 CHERRIES-FRESH
 374 05002DA00 2.0000
 CHERRIES-DRIED
 374 05002JA15 2.0000
 CHERRIES- JUICE
 374 05002JA21 2.0000
 CHERRIES- JUICE
 374 05003AA10 2.0000 NECTARINES

374 05004AA10 2.0000
 PEACHES-FRESH
 374 05004AA21 2.0000
 PEACHES-FRESH
 374 05004AA31 2.0000
 PEACHES-FRESH
 374 05004AA51 2.0000
 PEACHES-FRESH
 374 05004DA10 2.0000
 PEACHES-DRIED
 374 05004DA21 2.0000
 PEACHES-DRIED
 374 05005AA10 2.0000 PLUMS-FRESH
 374 05005AA31 2.0000 PLUMS-FRESH
 374 05005DA10 2.0000 PLUMS-PRUNES
 374 05005DA21 2.0000 PLUMS-PRUNES
 374 05005DA31 2.0000 PLUMS-PRUNES
 374 05005JA10 2.0000 PRUNE-JUICE
 374 05005JA62 2.0000 PRUNE-JUICE
 374 06015AA10 0.1000 POMEGRANATES
 374 06015AA21 0.1000 POMEGRANATES
 374 06018AA10 10.0000 KIWI
 374 08048DA00 0.3000 PAPRIKA
 374 10002AA00 2.0000
 CANTALOUPE-UNSP
 374 10002AB10 2.0000
 CANTALOUPE-PULP
 374 10002AB21 2.0000
 CANTALOUPE-PULP
 374 10003AA10 2.0000 CASABAS
 374 10004AA00 2.0000 CRENSHAW
 374 10005AA10 2.0000 HONEYDEW
 MELONS
 374 10007AA00 2.0000 PERSION
 MELONS
 374 10008AA10 2.0000 WATERMELON
 374 10008AA21 2.0000 WATERMELON
 374 10010AA10 2.0000 CUCUMBERS
 374 10010AA11 2.0000 CUCUMBERS
 374 10010AA21 2.0000 CUCUMBERS
 374 11001AA10 0.3000 EGGPLANT
 374 11001AA21 0.3000 EGGPLANT
 374 11001AA25 0.3000 EGGPLANT
 374 11003AA10 0.3000
 PEPPERS, SWEET
 374 11003AA21 0.3000
 PEPPERS, SWEET
 374 11003AB00 0.3000 CHILI
 PEPPERS
 374 11003AD10 0.3000
 PEPPERS-OTHER
 374 11003AD21 0.3000
 PEPPERS-OTHER
 374 11003AD51 0.3000
 PEPPERS-OTHER
 374 11004AA10 0.3000 PIMIENTOS
 374 11004AA21 0.3000 PIMIENTOS
 374 11004AA31 0.3000 PIMIENTOS
 374 11005AA10 2.0000
 TOMATOES-WHOLE
 374 11005AA21 2.0000
 TOMATOES-WHOLE
 374 11005AA31 2.0000
 TOMATOES-WHOLE
 374 11005JA10 2.0000
 TOMATOES-JUICE
 374 11005JA21 2.0000
 TOMATOES-JUICE
 374 11005RA10 2.0000
 TOMATOES-PUREE
 374 11005RA21 2.0000

TOMATOES-PUREE
 374 11005RA31 2.0000
 TOMATOES-PUREE
 374 11005RA32 2.0000
 TOMATOES-PUREE
 374 11005RA51 2.0000
 TOMATOES-PUREE
 374 11005TA21 2.0000
 TOMATOES-PASTE
 374 11005TA22 2.0000
 TOMATOES-PASTE
 374 11005TA31 2.0000
 TOMATOES-PASTE
 374 11005UA21 2.0000
 TOMATOES-CATSUP
 374 13002AA10 2.0000 CELERY
 374 13002AA21 2.0000 CELERY
 374 13005AA21 2.0000 BROCCOLI
 374 13005AA31 2.0000 BROCCOLI
 374 13005AA63 2.0000 BROCCOLI
 374 13006AA21 2.0000 BRUSSEL
 SPROUTS
 374 13006AA23 2.0000 BRUSSEL
 SPROUTS
 374 13007AA10 2.0000 CABBAGE
 374 13007AA11 2.0000 CABBAGE
 374 13007AA21 2.0000 CABBAGE
 374 13008AA10 2.0000 CAULI-FLOWER
 374 13008AA21 2.0000 CAULI-FLOWER
 374 13010AA10 2.0000
 CABBAGE-CHINESE
 374 13010AA21 2.0000
 CABBAGE-CHINESE
 374 13016AA00 2.0000 FENNEL
 374 13018AA21 2.0000
 ARTICHOKE-GLOBE
 374 13022AA10 5.0000 PARSLEY
 374 13022AA21 5.0000 PARSLEY
 374 13022AA53 5.0000 PARSLEY
 374 13024AA10 2.0000 SPINACH
 374 13024AA21 2.0000 SPINACH
 374 13024AA31 2.0000 SPINACH
 374 14007AA10 2.0000 GARLIC
 374 14007AA21 2.0000 GARLIC
 374 14007AA32 2.0000 GARLIC
 374 14010AA31 2.0000 LEEKS
 374 14011AA10 2.0000
 ONIONS-DRY-BULB
 374 14011AA21 2.0000
 ONIONS-DRY-BULB
 374 14011AA22 2.0000
 ONIONS-DRY-BULB
 374 14011AA31 2.0000
 ONIONS-DRY-BULB
 374 14011DA12 2.0000 ONIONS-DRIED
 374 14013AA10 0.3000
 POTATO(WH)-WHOLE
 374 14013AA21 0.3000
 POTATO(WH)-WHOLE
 374 14013AA22 0.3000
 POTATO(WH)-WHOLE
 374 14013AB22 0.3000
 POTATO(WH)-UNSP
 374 14013AC21 0.3000
 POTATO(WH)-PULP
 374 14013AC22 0.3000
 POTATO(WH)-PULP
 374 14013AC23 0.3000
 POTATO(WH)-PULP
 374 14013AC25 0.3000
 POTATO(WH)-PULP

T-C

374 14013DA10 0.3000
 POTATO(WH)-DRY
 374 14013DA31 0.3000
 POTATO(WH)-DRY
 374 14013HA22 0.3000
 POTATO(WH)-PEEL
 374 14017AA00 2.0000 SHALLOTS
 374 14030AA00 2.0000 PARSLEY
 ROOTS
 374 15001AA00 0.3000
 BEANS-DRY-GRT NO
 374 15001AB21 0.3000
 BEANS-DRY-KIDNEY
 374 15001AB31 0.3000
 BEANS-DRY-KIDNEY
 374 15001AC21 0.3000
 BEANS-DRY-LIMA
 374 15001AD21 0.3000
 BEANS-DRY-NAVY
 374 15001AD31 0.3000
 BEANS-DRY-NAVY
 374 15001AE21 0.3000
 BEANS-DRY-OTHER
 374 15001AE25 0.3000
 BEANS-DRY-OTHER
 374 15001AE31 0.3000
 BEANS-DRY-OTHER
 374 15001AF21 0.3000
 BEANS-DRY-PINTO-
 374 15003AA21 2.0000
 BEANS-SUCC-GREEN
 374 15013AA10 0.3000 MUNG BEANS
 374 15013AA21 0.3000 MUNG BEANS
 374 15022AA00 0.3000
 BEANS-DRY-BROAD
 374 15023AA21 0.3000
 BEANS-DRY-PIGEON
 374 15027AA21 0.3000 BEANS-UNSPEC
 374 15029AA00 0.2000
 SOYBEAN-SPROUTED
 374 15030AA00 0.3000
 BEANS-DRY-HYAC
 374 15031AA21 0.3000 BLKEYE
 PEAS-DRY
 374 15032AA21 0.3000 BEANS-DRY
 374 15032AA31 0.3000 BEANS-DRY
 374 16004AA10 2.0000 ONIONS-GREEN
 374 16004AA21 2.0000 ONIONS-GREEN
 374 16004AA25 2.0000 ONIONS-GREEN
 374 24001AA21 0.2000 BARLEY
 374 24003AA21 0.2000 OATS
 374 24003AA22 0.2000 OATS
 374 24003AA23 0.2000 OATS
 374 24005AA00 0.2000 RYE-ROUGH
 374 24005GA22 0.2000 RYE-GERM
 374 24005WA21 0.2000 RYE-FLOUR
 374 24005WA22 0.2000 RYE-FLOUR
 374 24007AA10 0.2000 WHEAT-ROUGH
 374 24007AA21 0.2000 WHEAT-ROUGH
 374 24007AA22 0.2000 WHEAT-ROUGH
 374 24007AA23 0.2000 WHEAT-ROUGH
 374 24007GA10 0.2000 WHEAT-GERM
 374 24007GA22 0.2000 WHEAT-GERM
 374 24007HA10 0.2000 WHEAT-BRAN
 374 24007HA21 0.2000 WHEAT-BRAN
 374 24007HA22 0.2000 WHEAT-BRAN
 374 24007WA10 0.2000 WHEAT-FLOUR
 374 24007WA21 0.2000 WHEAT-FLOUR
 374 24007WA22 0.2000 WHEAT-FLOUR
 374 24007WA25 0.2000 WHEAT-FLOUR
 374 25003SA10 0.3000 CANE SUGAR

374 25003SA21 0.3000 CANE SUGAR
 374 25003SA22 0.3000 CANE SUGAR
 374 25003SA31 0.3000 CANE SUGAR
 374 25003SB10 0.3000
 SUGAR-MOLASSES
 374 25003SB21 0.3000
 SUGAR-MOLASSES
 374 25003SB22 0.3000
 SUGAR-MOLASSES
 374 25003SB31 0.3000
 SUGAR-MOLASSES
 374 27003OA18 0.5000
 COTTONSEED-OIL
 374 27003WA18 0.5000
 COTTONSEED-MEAL
 374 27010OA18 1.0000CSOYBEANS-OIL
 374 28023AA21 0.2000
 SOYBEANS-UNSPEC
 374 28023AB10 0.2000 SOYBEANS-DRY
 374 28023AB21 0.2000 SOYBEANS-DRY
 374 28023AB23 0.2000 SOYBEANS-DRY
 374 28023AB25 0.2000 SOYBEANS-DRY
 374 28023AB31 0.2000 SOYBEANS-DRY
 374 28023WA21 0.2000 SOY-FL, FULL
 FAT
 374 28023WA22 0.2000 SOY-FL, FULL
 FAT
 374 28023WA31 0.2000 SOY-FL, FULL
 FAT
 374 28023WB21 0.2000 SOY-FL, LOW
 FAT
 374 28023WC10 0.2000 SOY-FL,DEFAT
 374 28023WC21 0.2000 SOY-FL,DEFAT
 374 28023WC22 0.2000 SOY-FL,DEFAT
 374 28023WC51 0.2000 SOY-FL,DEFAT
 374 28023WC53 0.2000 SOY-FL,DEFAT
 374 43058AA10 5.0000 WINE AND
 SHERRY
 374 43058AA21 5.0000 WINE AND
 SHERRY
 374 50000DB10 0.0400 MILK-NON-FAT
 SOL
 374 50000DB21 0.0400 MILK-NON-FAT
 SOL
 374 50000DB51 0.0400 MILK-NON-FAT
 SOL
 374 50000FA10 0.0400 MILK-FAT
 SOLIDS
 374 50000FA21 0.0400 MILK-FAT
 SOLIDS
 374 50000FA51 0.0400 MILK-FAT
 SOLIDS
 374 50000SA21 0.0400 MILK SUG
 (LACT)
 374 50000SA51 0.0400 MILK SUG
 (LACT)
 374 53001BA21 0.1000 BEEF-MEAT
 BYP
 374 53001BA26 0.1000 BEEF-MEAT
 BYP
 374 53001BB21 0.1000 BEEF-OTH
 ORGAN
 374 53001BB51 0.1000 BEEF-OTH
 ORGAN
 374 53001DA21 0.1000 BEEF-DRIED
 374 53001FA10 0.1000 BEEF-FAT
 374 53001FA21 0.1000 BEEF-FAT
 374 53001FA22 0.1000 BEEF-FAT
 374 53001FA23 0.1000 BEEF-FAT
 374 53001FA24 0.1000 BEEF-FAT
 374 53001FA25 0.1000 BEEF-FAT

374	53001KA21	0.1000	BEEF-KIDNEY
374	53001LA25	0.1000	BEEF-LIVER
374	53001LA31	0.1000	BEEF-LIVER
374	53001MA10	0.1000	BEEF-LEAN
374	53001MA21	0.1000	BEEF-LEAN
374	53001MA22	0.1000	BEEF-LEAN
374	53001MA23	0.1000	BEEF-LEAN
374	53001MA24	0.1000	BEEF-LEAN
374	53002BA00	0.1000	GOAT-MEAT
BYP			
374	53002BB00	0.1000	GOAT-OTH
ORGAN			
374	53002FA23	0.1000	GOAT-FAT
374	53002FA25	0.1000	GOAT-FAT
374	53002KA00	0.1000	GOAT-KIDNEY
374	53002LA00	0.1000	GOAT-LIVER
374	53002MA23	0.1000	GOAT-LEAN
374	53002MA25	0.1000	GOAT-LEAN
374	53003AA00	0.1000	HORSE
374	53005BA21	0.1000	SHEEP-MEAT
BYP			
374	53005BB21	0.1000	SHEEP-OTH
ORGAN			
374	53005FA21	0.1000	SHEEP-FAT
374	53005KA21	0.1000	SHEEP-KIDNEY
374	53005LA00	0.1000	SHEEP-LIVER
374	53005MA21	0.1000	SHEEP-LEAN
374	53005MA31	0.1000	SHEEP-LEAN

TABLE 7
RED

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 08:57 Friday, April 18, 1997 42

 NAME: GUTHION (AZINPHOSMETHYL) STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 CASWELL NO: 374 CFR NO: CFR180.154 A 00000.0013 000005.000 000100 Chronic Rat Enzymatic Blank 0000000547
 *CAS NO: 00086-50-0 SHAUGHNESSY NO: 058001 B
 *STATUS CODES: C
 *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

 -U.S. POP.--48 STATES

ESTIMATED % OF POTENTIAL

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
100	21	0.013671	13.67

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

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:
 ANTICIPATED RESIDUES:

INFANTS(<1 YEAR)

ESTIMATED % OF POTENTIAL

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
100	66	0.051129	51.13

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

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:
 ANTICIPATED RESIDUES:

OCHILDREN(1-6 YRS)

ESTIMATED % OF POTENTIAL

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
100	52	0.033306	33.31

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

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:
 ANTICIPATED RESIDUES:

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 08:57 Friday, April 18, 1997 43

 NAME: GUTHION (AZINPHOSMETHYL) STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 CASHELL NO: 374 CFR NO: CFR180.154 A 00000.0013 000005.000 000100 Chronic Rat Enzymatic Blank 0000000547
 *CAS NO: 00086-50-0 SHAUGHNESSY NO: 058001 B
 *STATUS CODES: C
 *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	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
0	16	0.010317	10.32

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:
 ANTICIPATED RESIDUES:

OMALES(13+ YRS)

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
0	12	0.009433	9.43

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:
 ANTICIPATED RESIDUES:

General U.S. Population
 Exposure = RDV x X
 = 0.1 x 1.2
 High End Exposure = 0.12
 MOE = Noel + Exposure
 = 1.0 mg/kg/day + 0.12 mg/kg/day
 MOE = 8

Infants (< 1 year)

Exposure = RDV x X

= 0.1 x 3

High End Exposure = 0.3

MOE = Noel + Exposure

= 1.0 mg/kg/day + 0.3 mg/kg/day

MOE = 3

Children (1-6 years)

Exposure = RDV x X

= 0.1 x 2

High End Exposure = 0.2

MOE = Noel + Exposure

= 1.0 mg/kg/day + 0.2 mg/kg/day

MOE = 5

Females (13+ Years):

Exposure = RDV x X

= 0.1 x .6

High End Exposure = 0.06

MOE = Noel + Exposure

= 1.0 mg/kg/day + 0.06 mg/kg/day

MOE = 17

Males (13+ Years):

Exposure = RDV x X

= 0.1 x .6

High End Exposure = 0.06

MOE = Noel + Exposure

= 1.0 mg/kg/day + 0.06 mg/kg/day

MOE = 17

374	01002AA10	8.0000	BLACKBERRIES
374	01002AA21	8.0000	BLACKBERRIES
374	01002AA62	8.0000	BLACKBERRIES
374	01003AA10	8.0000	BOYSENBERRIES
374	01005AA00	8.0000	LOGANBERRIES
374	01006AA15	8.0000	RASPBERRIES
374	01006AA31	8.0000	RASPBERRIES
374	01006AA62	8.0000	RASPBERRIES
374	01006AA70	8.0000	RASPBERRIES
374	01009AA21	5.0000	BLUEBERRIES
374	01009AA22	5.0000	BLUEBERRIES
374	01009AA62	5.0000	BLUEBERRIES
374	01010AA10	0.5000	CRANBERRIES
374	01010AA21	0.5000	CRANBERRIES
374	01010AA31	0.5000	CRANBERRIES
374	01010JA15	0.5000	CRANBERRY-JUICE
374	01010JA31	0.5000	CRANBERRY-JUICE
374	01014AA10	4.0000	GRAPES-FRESH
374	01014AA21	4.0000	GRAPES-FRESH
374	01014AA31	4.0000	GRAPES-FRESH
374	01014DA10	4.0000	GRAPES-RAISINS
374	01014DA21	4.0000	GRAPES-RAISINS
374	01014DA22	4.0000	GRAPES-RAISINS
374	01014JA10	4.0000	GRAPES-RAISINS
374	01014JA21	4.0000	GRAPES-JUICE
374	01016AA10	2.0000	STRAWBERRIES
374	01016AA21	2.0000	STRAWBERRIES
374	01016AA70	2.0000	STRAWBERRIES
374	02001AA22	2.0000	CITRUS CITRON
374	02002AA00	2.0000	GRAPEFRUIT-UNSP
374	02002AB10	2.0000	GRAPEFRUIT-PULP
374	02002AB21	2.0000	GRAPEFRUIT-PULP
374	02002JA15	2.0000	GRAPEFRUIT-JUICE
374	02002JA31	2.0000	GRAPEFRUIT-JUICE
374	02003AA10	2.0000	KUMQUATS
374	02004AA10	2.0000	LEMONS-UNSPEC
374	02004AA22	2.0000	LEMONS-UNSPEC
374	02004AB10	2.0000	LEMONS-PULP
374	02004AB31	2.0000	LEMONS-PULP
374	02004HA10	2.0000	LEMONS-PEEL
374	02004HA21	2.0000	LEMONS-PEEL
374	02004JA10	2.0000	LEMONS-JUICE
374	02004JA15	2.0000	LEMONS-JUICE
374	02004JA21	2.0000	LEMONS-JUICE
374	02004JA31	2.0000	LEMONS-JUICE
374	02005AA00	2.0000	LIMES-UNSPEC
374	02005AB10	2.0000	LIMES-PULP
374	02005HA21	2.0000	LIMES-PEEL
374	02005JA10	2.0000	LIMES-JUICE
374	02005JA15	2.0000	LIMES-JUICE
374	02005JA31	2.0000	LIMES-JUICE
374	02006AA00	2.0000	ORANGES-UNSPEC
374	02006AB10	2.0000	ORANGES-PULP
374	02006AB21	2.0000	ORANGES-PEEL
374	02006HA21	2.0000	ORANGES-PEEL
374	02006HA22	2.0000	ORANGES-PEEL
374	02006HA31	2.0000	ORANGES-PEEL
374	02006JA15	2.0000	ORANGES-JUICE
374	02006JA31	2.0000	ORANGES-JUICE
374	02007AA10	2.0000	TANGELOS
374	02008AA10	2.0000	TANGERINES
374	02008JA15	2.0000	TANGERINE-JUICE
374	03001AA10	0.2000	ALMONDS
374	03001AA21	0.2000	ALMONDS
374	03001AA22	0.2000	ALMONDS
374	03005AA10	0.3000	FILBERTS
374	03005AA21	0.3000	FILBERTS
374	03005AA22	0.3000	FILBERTS
374	03008AA10	0.3000	PECANS
374	03008AA21	0.3000	PECANS
374	03008AA22	0.3000	PECANS
374	03008AA23	0.3000	PECANS
374	03008AA62	0.3000	PECANS
374	03009AA10	0.3000	WALNUTS
374	03009AA21	0.3000	WALNUTS
374	03009AA22	0.3000	WALNUTS
374	03011AA10	0.3000	PISTACHIO NUTS
374	04001AA10	2.0000	APPLES-FRESH
374	04001AA21	2.0000	APPLES-FRESH
374	04001AA31	2.0000	APPLES-FRESH
374	04001AA62	2.0000	APPLES-FRESH
374	04001DA10	2.0000	APPLES-DRIED
374	04001DA22	2.0000	APPLES-DRIED
374	04001DA62	2.0000	APPLES-DRIED
374	04001JA15	2.0000	APPLES-JUICE
374	04001JA31	2.0000	APPLES-JUICE
374	04002AA00	2.0000	CRABAPPLES
374	04003AA10	2.0000	PEARS-FRESH
374	04003AA31	2.0000	PEARS-FRESH
374	04003AA51	2.0000	PEARS-FRESH
374	04003AA62	2.0000	PEARS-FRESH
374	04003DA10	2.0000	PEARS-DRIED
374	04003DA21	2.0000	PEARS-DRIED
374	04004AA00	2.0000	QUINCES
374	05002AA10	2.0000	CHERRIES-FRESH
374	05002AA21	2.0000	CHERRIES-FRESH
374	05002AA31	2.0000	CHERRIES-FRESH
374	05002AA62	2.0000	CHERRIES-FRESH
374	05002DA00	2.0000	CHERRIES-DRIED
374	05002JA15	2.0000	CHERRIES-JUICE
374	05002JA21	2.0000	CHERRIES-JUICE

374	05004AA10	4.0000	PEACHES-FRESH	13022AA10	5.0000	PARSLEY
374	05004AA21	4.0000	PEACHES-FRESH	13022AA21	5.0000	PARSLEY
374	05004AA31	4.0000	PEACHES-FRESH	13022AA53	5.0000	PARSLEY
374	05004AA51	4.0000	PEACHES-FRESH	14007AA10	2.0000	GARLIC
374	05004DA10	4.0000	PEACHES-DRIED	14007AA21	2.0000	GARLIC
374	05004DA21	4.0000	PEACHES-DRIED	14007AA32	2.0000	GARLIC
374	05005AA10	2.0000	PLUMS-FRESH	14010AA31	2.0000	LEEKS
374	05005AA31	2.0000	PLUMS-FRESH	14011AA10	2.0000	ONIONS-DRY-BULB
374	05005DA10	2.0000	PLUMS-PRUNES	14011AA21	2.0000	ONIONS-DRY-BULB
374	05005DA21	2.0000	PLUMS-PRUNES	14011AA22	2.0000	ONIONS-DRY-BULB
374	05005DA31	2.0000	PLUMS-PRUNES	14011AA31	2.0000	ONIONS-DRY-BULB
374	05005JA10	2.0000	PRUNE-JUICE	14011DA12	2.0000	ONIONS-DRIED
374	05005JA62	2.0000	PRUNE-JUICE	14013AA10	0.2000	POTATO(WH)-WHOLE
374	06015AA10	0.1000	POMEGRANATES	14013AA21	0.2000	POTATO(WH)-WHOLE
374	06015AA21	0.1000	POMEGRANATES	14013AA22	0.2000	POTATO(WH)-WHOLE
374	10002AA00	2.0000	CANTALOUPE-UNSP	14013AB22	0.2000	POTATO(WH)-UNSP
374	10002AB10	2.0000	CANTALOUPE-PULP	14013AC21	0.2000	POTATO(WH)-PULP
374	10002AB21	2.0000	CANTALOUPE-PULP	14013AC22	0.2000	POTATO(WH)-PULP
374	10003AA10	2.0000	CASABAS	14013AC23	0.2000	POTATO(WH)-PULP
374	10004AA00	2.0000	CRENSHAW	14013AC25	0.2000	POTATO(WH)-PULP
374	10005AA10	2.0000	HONEYDEW MELONS	14013DA10	0.2000	POTATO(WH)-DRY
374	10007AA00	2.0000	PERSION MELONS	14013DA31	0.2000	POTATO(WH)-DRY
374	10008AA10	2.0000	WATERMELON	14013HA22	0.2000	POTATO(WH)-PEEL
374	10008AA21	2.0000	WATERMELON	14017AA00	2.0000	SHALLOTS
374	10010AA10	2.0000	CUCUMBERS	14030AA00	2.0000	PARSLEY ROOTS
374	10010AA11	2.0000	CUCUMBERS	16004AA10	2.0000	ONIONS-GREEN
374	10010AA21	2.0000	CUCUMBERS	16004AA21	2.0000	ONIONS-GREEN
374	11005AA10	2.0000	TOMATOES-WHOLE	16004AA25	2.0000	ONIONS-GREEN
374	11005AA21	2.0000	TOMATOES-WHOLE	24005AA00	0.2000	RYE-ROUGH
374	11005AA31	2.0000	TOMATOES-WHOLE	24005GA22	0.2000	RYE-GERM
374	11005JA10	2.0000	TOMATOES-JUICE	24005WA21	0.2000	RYE-FLOUR
374	11005JA21	2.0000	TOMATOES-JUICE	24005WA22	0.2000	RYE-FLOUR
374	11005RA10	2.0000	TOMATOES-PUREE	25003SA10	0.3000	CANE SUGAR
374	11005RA21	2.0000	TOMATOES-PUREE	25003SA21	0.3000	CANE SUGAR
374	11005RA31	2.0000	TOMATOES-PUREE	25003SA21	0.3000	CANE SUGAR
374	11005RA32	2.0000	TOMATOES-PUREE	25003SA31	0.3000	CANE SUGAR
374	11005RA51	2.0000	TOMATOES-PUREE	25003SB10	0.3000	SUGAR-MOLASSES
374	11005TA21	2.0000	TOMATOES-PASTE	25003SB21	0.3000	SUGAR-MOLASSES
374	11005TA22	2.0000	TOMATOES-PASTE	25003SB22	0.3000	SUGAR-MOLASSES
374	11005TA31	2.0000	TOMATOES-PASTE	25003SB31	0.3000	SUGAR-MOLASSES
374	11005UR21	2.0000	TOMATOES-CATSUP	27003OA18	0.5000	COTTONSEED-OIL
374	13005AA21	2.0000	BROCCOLI	27003WA18	0.5000	COTTONSEED-MEAL
374	13005AA31	2.0000	BROCCOLI	43058AA10	4.0000	WINE AND SHERRY
374	13005AA63	2.0000	BROCCOLI	43058AA21	4.0000	WINE AND SHERRY
374	13007AA10	2.0000	CABBAGE			
374	13007AA11	2.0000	CABBAGE			
374	13007AA21	2.0000	CABBAGE			
374	13008AA10	2.0000	CAULIFLOWER			
374	13008AA21	2.0000	CAULIFLOWER			
374	13010AA10	2.0000	CABBAGE-CHINESE			
374	13010AA21	2.0000	CABBAGE-CHINESE			
374	13016AA00	2.0000	FENNEL			