

US EPA ARCHIVE DOCUMENT



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

JAN 8 1997

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MEMORANDUM

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

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

Through: Elizabeth Doyle, Section Head *E.A. Doyle*  
Dietary Risk Evaluation Section  
SAB/Health Effects Division

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

Action Requested

Provide a dietary exposure analysis to estimate the chronic, carcinogenic, and acute dietary exposure and risk from methidathion 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 long term toxicity study in dogs with an uncertainty factor of 100 that demonstrated elevated hepatic enzymes, gross hepatic lesions, chronic hepatitis, and red blood cell cholinesterase inhibition as endpoints (See RfD Peer Review Report, 11/10/93).

Methidathion is classified as a Group C - possible human carcinogen by the HED Carcinogenicity Peer Review Committee with evidence of carcinogenicity in mice (liver) and negative in the rat. Additional evidence from short-term tests or structure activity relationships were not supportive of a higher classification. Thus, the evidence as a whole was not considered strong enough to warrant a quantitative estimation of human risk.

The endpoint for acute dietary risk assessment is the NOEL of 0.2 mg/kg bwt/day based on decreases in plasma, RBC, and brain ChE seen at the two week measurement.

### Residue Information

Tolerances for methidathion are published in 40 CFR §180.298 (a), (b), and (c). Tolerances for methidathion residues are currently expressed in terms of methidathion per se in plant commodities [§180.298(a and c)] and in terms of the combined residues of methidathion, its oxygen analog, and its sulfoxide metabolites in animals [§180.298(b)]. The available data support the established tolerances in/on pome fruits, artichokes, cottonseed, mandarins, mangoes, olives, peaches, pecans, safflower seed, sorghum, stone fruit, sunflower seed, carambola, kiwifruit, longan, sugar apple, and walnuts; the established tolerances for residues in/on citrus fruits should be increased from 2 ppm to 4 ppm; tolerances on potatoes should be revoked as there are no registered uses on this crop (See RED chapter). Some anticipated residues and percent crop treated assumptions were used in the dietary risk analyses.

Acute Anticipated Residues were estimated using tolerance level residues and survey data from the USDA Pesticide Data Program (PDP) and were supplied by CBRS (See memo, W. Smith, 12/3/96) for the following commodities: orange pulp 0.33 ppm; orange juice 0.26 ppm; orange peel 0.114 ppm; grapefruit pulp 0.33 ppm; grapefruit juice 0.26 ppm; grapefruit peel 0.114 ppm; lemon pulp 0.33 ppm; lemon juice 0.001 ppm; lemon peel 0.114 ppm; lime pulp 0.33 ppm; lime juice 0.001 ppm; lime peel 0.114 ppm; apple juice 0.015 ppm; cottonseed oil 0.05 ppm; safflower oil 0.01 ppm; and sunflower oil 0.01 ppm.

## Results

### Chronic Exposure:

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

Existing tolerances (and a pending tolerance on corn) result in a TMRC which represents 43.8% of the RfD for the U.S. general population. The highest subgroup, Non-Nursing Infants (<1 year old) occupies 160% of the RfD and Children (1-6 years old) occupies 111% of the RfD. (Note: deleting the pending use on corn does not result in acceptable risk levels in these two subgroups). The commodity which contributes most to this risk figure is milk at 130% (See Table 4). Incorporating the recommendations of CBRS (increasing the citrus tolerance from 2-4 ppm, deletion of potatoes, meat, milk, eggs, and poultry and without the pending use on corn) would result in a TMRC of 9.1% of the RfD for the U.S. general population, 11.9% for Non-Nursing Infants (<1 year old), and 22.5% for Children (1-6 years old) (See Table 6).

The analysis for methidathion 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 methidathion. 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 not of concern. It should be noted however that the data refinements used are old (Percent crop treated 9/87

and Anticipated Residues 5/88) and should be updated.

Acute Exposure:

Two acute analyses were performed. Table 7 shows the results of the analysis using all presently registered commodities. Table 8 demonstrates results which would occur following the recommendations of CBRs.

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. The MOE values demonstrate that there is cause for concern regarding the acute dietary exposure from methidathion both for existing and proposed uses:

Presently registered commodities result in the following MOEs: U.S. POP = 14.3; Infants (< 1 year) = 6.6; Children (1-6 years) = 6.6; Females (13+ years) = 20; and Males (13+ years) = 25.

Following the recommendations of CBRs results in the following MOEs: U.S. POP = ~~14.3~~<sup>16.6</sup>; Infants (< 1 year) = 6.6; Children (1-6 years) = 6.6; Females (13+ years) = 25; and Males (13+ years) = 33.3.

All subgroups exceed the Agency's level of concern regarding acute exposure.

Attachments

cc: DRES; Caswell  
378B

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 3788

DATE: 07/02/96

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1Yr feeding- dog NOEL = 0.1500 mg/kg 4.00 ppm LEI = 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD = 0.001500 EPA RfD = 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	300186	P 2.000000	2.000000		100.00	2.000000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	2F1229	P 2.000000	2.000000		10.00	0.200000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	2F1229	P 2.000000	0.050000		10.00	0.005000
02002JA	GRAPEFRUIT-JUICE	21 COOKED-NFS	2F1229	P 2.000000	0.050000		10.00	0.005000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	2F1229	P 2.000000	0.200000		10.00	0.020000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	2F1229	P 2.000000	0.200000		10.00	0.020000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	300186	P 2.000000	2.000000		100.00	2.000000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	5F1555	P 2.000000	2.000000		10.00	0.200000
02004AB	LEMONS-PULP	22 COOKED-FRESH-BAKED	5F1555	P 2.000000	0.050000		10.00	0.005000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	5F1555	P 2.000000	0.050000		10.00	0.005000
02004AA	LEMONS-UNSPEC	31 COOKED-FRESH OR CANNED	5F1555	P 2.000000	2.000000		10.00	0.200000
02004AA	LEMONS-PULP	10 RAW-FRESH OR NFS	5F1555	P 2.000000	2.000000		10.00	2.000000
02004AA	LEMONS-PULP	21 COOKED-NFS	5F1555	P 2.000000	2.000000		10.00	0.200000
02004AA	LEMONS-PEEL	10 RAW-FRESH OR NFS	5F1555	P 2.000000	2.000000		10.00	2.000000
02004AA	LEMONS-JUICE	10 RAW-FRESH OR NFS	5F1555	P 2.000000	0.200000		10.00	0.020000
02004AA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	5F1555	P 2.000000	0.200000		10.00	0.020000
02004AA	LEMONS-JUICE	21 COOKED-NFS	5F1555	P 2.000000	0.200000		10.00	0.020000
02004AA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	5F1555	P 2.000000	0.200000		10.00	0.020000
02005AA	LINES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	300186	P 2.000000	2.000000		100.00	2.000000
02005AA	LINES-UNSPEC	10 RAW-FRESH OR NFS	300186	P 2.000000	2.000000		100.00	2.000000
02005AB	LINES-PULP	21 COOKED-NFS	300186	P 2.000000	2.000000		100.00	2.000000
02005AA	LINES-PEEL	10 RAW-FRESH OR NFS	300186	P 2.000000	2.000000		100.00	2.000000
02005JA	LINES-JUICE	10 RAW-FRESH OR NFS	300186	P 2.000000	2.000000		100.00	2.000000
02005JA	LINES-JUICE	15 RAW-FRESH OR CANNED	300186	P 2.000000	2.000000		100.00	2.000000
02005JA	LINES-JUICE	31 COOKED-FRESH OR CANNED	300186	P 2.000000	2.000000		100.00	2.000000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	2F1229	P 2.000000	2.000000		10.00	0.200000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	2F1229	P 2.000000	0.050000		10.00	0.005000
02006AB	ORANGES-PULP	21 COOKED-NFS	2F1229	P 2.000000	0.050000		10.00	0.005000
02006AA	ORANGES-PEEL	21 COOKED-NFS	2F1229	P 2.000000	2.000000		10.00	0.200000
02006AA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	2F1229	P 2.000000	2.000000		10.00	0.200000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	2F1229	P 2.000000	2.000000		10.00	0.200000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	2F1229	P 2.000000	0.200000		10.00	0.020000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	7E3552	P 6.000000	6.000000		100.00	6.000000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	7E3552	P 6.000000	6.000000		100.00	6.000000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	7E3552	P 6.000000	6.000000		100.00	6.000000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03002AA	BRAZIL NUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03003AA	CASHEWS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 3788

DATE: 07/02/96

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEI= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
03003AA	CASHEWS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03004AA	CHESTNUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	23 COOKED-FRESH-BOILED	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
03013AA	BEECHNUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04003DA	PEARS-DRIED	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	6F1782	P 0.050000	0.050000		10.00	0.005000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASHWELL NUMBER 3788

DATE: 07/02/96

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<b>CHEMICAL</b> Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	<b>STUDY TYPE</b> 1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO- C (HED)	<b>EFFECTS</b> Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC Che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	<b>REFERENCE DOSES</b> ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	<b>DATA GAPS/COMMENTS</b> No data gaps.	<b>STATUS</b> HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 ON IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05002AA	CHERRIES-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	51 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004DA	PEACHES-DRIED	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
06007AA	PRUNE-JUICE	10 RAW-FRESH OR NFS	9E2194	P 0.050000	0.050000		10.00	0.005000
06007AA	PRUNE-JUICE	21 COOKED-NFS	9E2194	P 0.050000	0.050000		10.00	0.005000
06008AA	LOGUATS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	11 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
06018AA	KIVI	10 RAW-FRESH OR NFS	7E3566	P 0.100000	0.100000		100.00	0.100000
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	1E3925	P 0.200000	0.200000		100.00	0.200000
06029AA	CARAMBOLA	00 NOT SPECIFIED	9E3769	P 0.100000	0.100000		100.00	0.100000
06031AA	LONGAN FRUIT	00 NOT SPECIFIED	9E3769	P 0.100000	0.100000		100.00	0.100000
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	7F1987	P 0.050000	0.050000		100.00	0.050000
14013AA	POTATO(MH)-WHOLE	10 RAW-FRESH OR NFS	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(MH)-WHOLE	21 COOKED-NFS	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(MH)-WHOLE	22 COOKED-FRESH-BAKED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AB	POTATO(MH)-UNSP	22 COOKED-FRESH-BAKED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(MH)-PULP	21 COOKED-NFS	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(MH)-PULP	22 COOKED-FRESH-BAKED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(MH)-PULP	23 COOKED-FRESH-BOILED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(MH)-PULP	25 COOKED-FRESH-FRIED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013DA	POTATO(MH)-DRY	10 RAW-FRESH OR NFS	3F1323	P 0.200000	0.200000		10.00	0.020000



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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HEP)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 ON IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	3F1323	P 0.200000	0.200000		10.00	0.020000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	3F1323	P 0.200000	0.200000		10.00	0.020000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	4F1513	P 0.500000	0.500000		40.00	0.200000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	6F3331	A 0.050000	0.050000		100.00	0.050000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	6F3331	A 0.050000	0.050000		100.00	0.050000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	6F3331	A 0.050000	0.050000		100.00	0.050000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	6F3331	A 0.050000	0.050000		100.00	0.050000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	6F3331	A 0.050000	0.050000		100.00	0.050000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	6F3331	A 0.050000	0.050000		100.00	0.050000
24002SA	CORN SUGAR	21 COOKED-NFS	6F3331	A 0.050000	0.050000		100.00	0.050000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	6F3331	A 0.050000	0.050000		100.00	0.050000
24002SA	CORN SUGAR	00 NOT SPECIFIED (NO CONSUMPTION)	6F3331	A 0.050000	0.050000		100.00	0.050000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	4F1512	P 0.200000	0.200000		10.00	0.020000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	4F1512	P 0.200000	0.200000		10.00	0.020000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	0F0892	P 0.200000	0.200000		10.00	0.020000
27003MA	COTTONSEED-MEAL	18 PROCESSED OIL	0F0892	P 0.200000	0.200000		10.00	0.020000
27008AA	SAFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	7E1991	P 0.500000	0.500000		10.00	0.050000
270080A	SAFLOWER-OIL	18 PROCESSED OIL	7E1991	P 0.500000	0.500000		10.00	0.050000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	4F1513	P 0.500000	0.500000		10.00	0.050000
270160A	OLIVE OIL	18 PROCESSED OIL	7F1986	P 0.050000	0.050000		40.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	0F0892	P 0.030000	0.030000		100.00	0.030000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F0892	P 0.030000	0.030000		100.00	0.030000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F0892	P 0.030000	0.030000		100.00	0.030000
500000F	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F0892	P 0.030000	0.030000		100.00	0.030000
500000F	MILK-FAT SOLIDS	21 COOKED-NFS	0F0892	P 0.030000	0.030000		100.00	0.030000
500000F	MILK-FAT SOLIDS	51 COOKED-CANNED	0F0892	P 0.030000	0.030000		100.00	0.030000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	0F0892	P 0.030000	0.030000		100.00	0.030000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F0892	P 0.030000	0.030000		100.00	0.030000
530018A	BEEF-MEAT BYP	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
530018A	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
530018B	BEEF-OTH ORGAN	51 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
530018B	BEEF-OTH ORGAN	21 COOKED-CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001DA	BEEF-DRIED	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000

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<b>CHEMICAL</b> Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	<b>STUDY TYPE</b> 1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	<b>EFFECTS</b> Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC Che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	<b>REFERENCE DOSES</b> ADI UF -->100 Opp Rfd= 0.001500 EPA Rfd= 0.001000	<b>DATA GAPS/COMMENTS</b> No data gaps.	<b>STATUS</b> HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RFD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
530011A	BEEF-LIVER	31 COOKED-FRESH OR CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53002FA	GOAT-FAT	26 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
53002LA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53005FA	SHEEP-FAT	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53005FA	SHEEP-KIDNEY	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-KIDNEY	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-LIVER	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
55000BA	TURKEY-BYP	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55000BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
55008LA	TURKEY ORGAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	Tyr feeding- dog NOEL= 0.1500 mg/kg LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
55008MB	TURKEY+SKIN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55013MA	POULTRY,OTHER	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015A	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0892	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	0F0892	P 0.050000	0.050000		100.00	0.050000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	0F0892	P 0.050000	0.050000		100.00	0.050000

TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS			
			ADI	UF -->100					
Methidathion Cashell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg LEL= 4.00 ppm 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes; gross hepatic lesions; chronic hepatitis; RBC Che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	OPP RfD= 0.001500 EPA RfD= 0.001000		No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.			
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
U.S. POPULATION - 48 STATES			0.005653	0.005670	378.005867	1.113133	0.000658		43.86147
U.S. POPULATION - SPRING SEASON			0.005596	0.005613	374.171467	1.082733	0.000569		37.90367
U.S. POPULATION - SUMMER SEASON			0.005213	0.005230	348.674867	1.137133	0.000595		39.63373
U.S. POPULATION - FALL SEASON			0.005765	0.005782	385.494867	1.136467	0.000730		48.66607
U.S. POPULATION - WINTER SEASON			0.006019	0.006035	402.352933	1.096467	0.000737		49.12713
NORTHEAST REGION			0.007040	0.007052	470.152467	0.790933	0.000676		45.05640
NORTH CENTRAL REGION			0.005614	0.005629	375.259467	1.006200	0.000658		43.85120
SOUTHERN REGION			0.004554	0.004575	304.974600	1.350600	0.000592		39.45193
WESTERN REGION			0.005720	0.005739	382.602467	1.293067	0.000746		49.74560
HISPANICS			0.007531	0.007561	504.051067	1.983467	0.000773		51.51447
NON-HISPANIC WHITES			0.005448	0.005463	364.211667	0.984467	0.000656		43.70807
NON-HISPANIC BLACKS			0.005777	0.005800	386.663867	1.545933	0.000597		39.80487
NON-HISPANIC OTHERS			0.008080	0.008095	539.653267	0.996200	0.000813		54.21253
NURSING INFANTS (< 1 YEAR OLD)			0.005758	0.005774	384.913133	1.057600	0.000628		41.88580
NON-NURSING INFANTS (< 1 YEAR OLD)			0.013155	0.013203	880.232800	3.257067	0.002404		160.25720
FEMALES (13+ YEARS, PREGNANT)			0.004613	0.004624	308.298333	0.779533	0.000448		29.83427
FEMALES 13+ YEARS, NURSING			0.004379	0.004390	292.657667	0.699067	0.000490		32.66267
CHILDREN (1-6 YEARS OLD)			0.015156	0.015200	1013.315200	2.886133	0.001676		111.70160
CHILDREN (7-12 YEARS OLD)			0.008356	0.008388	559.180800	2.086867	0.001062		70.77713
MALES (13-19 YEARS OLD)			0.004785	0.004804	320.295933	1.276067	0.000649		43.26427
MALES (13-19 YEARS OLD, NOT PREG. OR NURSING)			0.004532	0.004548	303.166667	1.039000	0.000556		37.04507
MALES (20 YEARS AND OLDER)			0.003413	0.003424	228.243533	0.697600	0.000438		29.19407
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)			0.004238	0.004247	283.144267	0.608333	0.000413		27.54380

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

TABLE 3

TOLERANCE ASSESSMENT SUMMARY FOR Methidathion  
 USING ANTICIPATED RESIDUES  
 CASWELL #378B

DATE: 07/02/96

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)  
 RESULT IN AN ARC OF: 0.000641 MG/KG/DAY  
 THE EXISTING ARC IS EQUIVALENT TO: 42.748 % OF THE ADI.

NO NEW ANTICIPATED RESIDUES ARE IN THE FILE.

OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE  
 CURRENT NEW PETITION HAVE AN ARC OF: 0.000017 MG/KG/DAY  
 THIS ARC WILL OCCUPY 1.113 % OF THE ADI.

IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE  
 CURRENT NEW PETITION) ARE GRANTED  
 THE RESULTANT ARC WILL BE: 0.000658 MG/KG/DAY  
 THE TOTAL ARC WILL OCCUPY 43.861 % OF THE ADI.

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)  
 RESULT IN AN ARC OF: 0.002355 MG/KG/DAY  
 THE EXISTING ARC IS EQUIVALENT TO: 157.000 % OF THE ADI.

NO NEW ANTICIPATED RESIDUES ARE IN THE FILE.

OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE  
 CURRENT NEW PETITION HAVE AN ARC OF: 0.000049 MG/KG/DAY  
 THIS ARC WILL OCCUPY 3.257 % OF THE ADI.

IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE  
 CURRENT NEW PETITION) ARE GRANTED  
 THE RESULTANT ARC WILL BE: 0.002404 MG/KG/DAY  
 THE TOTAL ARC WILL OCCUPY 160.257 % OF THE ADI.

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298		1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm		Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.		HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.			
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD			
06007AA	MANGOES 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000			
06008AA	LOQUATS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.00500	0.000000	0.000			
06009AA	OLIVES 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000			
06018AA	KIWI 10 RAW-FRESH OR NFS	0.100	P	0.000000	0.000	0.10000	0.000000	0.000			
06025AA	SUGAR APPLES (SMEETOP) 00 NOT SPECIFIED (NO CONSUMPTION)	0.200	P	0.000000	0.000	0.20000	0.000000	0.000			
06029AA	CARAMBOLA 00 NOT SPECIFIED	0.100	P	0.000000	0.000	0.10000	0.000000	0.000			
06031AA	LONGAN FRUIT 00 NOT SPECIFIED	0.100	P	0.000000	0.000	0.10000	0.000000	0.000			
13018AA	ARTICHOKES-GLOBE 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000			
15018AA	SUNFLOWER-SEEDS 10 RAW-FRESH OR NFS	0.500	P	0.000000	0.000	0.20000	0.000000	0.000			
270030A	COTTONSEED-OIL 18 PROCESSED OIL	0.200	P	0.001087	0.072	0.02000	0.000109	0.007			
27003AA	COTTONSEED-MEAL 18 PROCESSED OIL	0.200	P	0.000126	0.008	0.02000	0.000013	0.001			
27008AA	SAFFLOWER-SEED 00 NOT SPECIFIED (NO CONSUMPTION)	0.500	P	0.000000	0.000	0.05000	0.000000	0.000			
270080A	SAFFLOWER-OIL 18 PROCESSED OIL	0.500	P	0.000127	0.008	0.05000	0.000013	0.001			
270110A	SUNFLOWER-OIL 18 PROCESSED OIL	0.500	P	0.000440	0.029	0.20000	0.000176	0.012			
270160A	OLIVE OIL 18 PROCESSED OIL	0.050	P	0.000270	0.018	0.00500	0.000027	0.002			
CROP GROUP TOTALS FOR UNSPECIFIED:				0.002050	0.137	0.000338	0.023				

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
14013AA	POTATOES(WHITE)-WHOLE	0.200	P	0.055357	3.690	0.02000	0.001104	0.074
	10 RAW-FRESH OR NFS					0.02000	0.001274	0.085
	21 COOKED-NFS					0.02000	0.003157	0.210
	22 COOKED-FRESH-BAKED							
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.200	P	0.000000	0.000	0.02000	0.000000	0.000
	22 COOKED-FRESH-BAKED							
14013AC	POTATOES(WHITE)-PEELED	0.200	P	0.158500	10.567	0.02000	0.001894	0.126
	21 COOKED-NFS					0.02000	0.001768	0.118
	22 COOKED-FRESH-BAKED					0.02000	0.011191	0.746
	23 COOKED-FRESH-BOILED					0.02000	0.000997	0.066
	25 COOKED-FRESH-FRIED							
14013DA	POTATOES(WHITE)-DRY	0.200	P	0.065131	4.342	0.02000	0.000341	0.023
	10 RAW-FRESH OR NFS					0.02000	0.006172	0.411
	31 COOKED-FRESH OR CANNED							
14013HA	POTATOES(WHITE)-PEEL ONLY	0.200	P	0.000000	0.000	0.02000	0.000000	0.000
	22 COOKED-FRESH-BAKED							

CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:

02001AA	CITRUS CITRUS	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	0.20000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
02002AB	GRAPEFRUIT-PULP	2.000	P	0.000000	0.000	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00500	0.000000	0.000
	21 COOKED-NFS							
02002JA	GRAPEFRUIT-JUICE	2.000	P	0.464520	30.968	0.02000	0.004645	0.310
	15 RAW-FRESH OR CANNED					0.02000	0.000000	0.000
	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	0.20000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.20000	0.000008	0.001
	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					0.00500	0.000000	0.000
	31 COOKED-FRESH OR CANNED							
02004HA	LEMONS-PEEL	2.000	P	0.000034	0.002	0.20000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.20000	0.000003	0.000
	21 COOKED-NFS							
02004JA	LEMONS-JUICE	2.000	P	0.014654	0.977	0.02000	0.000023	0.002
	10 RAW-FRESH OR NFS							

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No.: 180.298	1yr feeding - dog NOEL = 0.1500 mg/kg 4.00 ppm LEL = 1.3300 mg/kg 40.00 ppm	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD = 0.001500 EPA RfD = 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
02005AA	15 RAW-FRESH OR CANNED	2.000	P	0.000000	0.000	0.02000	0.000000	0.000
	21 COOKED-NFS	2.000	P	0.000000	0.000	0.02000	0.000019	0.001
	31 COOKED-FRESH OR CANNED	2.000	P	0.000000	0.000	0.02000	0.000105	0.007
02005AB	LIMES-UNSPECIFIED	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
02005HA	LIMES-PULP	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	10 RAW-FRESH OR NFS	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	LIMES-PEEL	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	21 COOKED-NFS	2.000	P	0.000211	0.014	2.00000	0.000211	0.014
02005JA	LIMES-JUICE	2.000	P	0.000211	0.014	2.00000	0.000000	0.000
	10 RAW-FRESH OR NFS	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	15 RAW-FRESH OR CANNED	2.000	P	0.000000	0.000	2.00000	0.000000	0.000
	31 COOKED-FRESH OR CANNED	2.000	P	0.077945	5.196	0.00500	0.000181	0.012
02006AA	ORANGES-UNSPECIFIED	2.000	P	0.000000	0.000	0.00500	0.000014	0.001
	00 NOT SPECIFIED (NO CONSUMPTION)	2.000	P	0.000116	0.008	0.20000	0.000000	0.000
02006AB	ORANGES-PULP	2.000	P	0.000116	0.008	0.20000	0.000012	0.001
	10 RAW-FRESH OR NFS	2.000	P	0.000000	0.000	0.20000	0.000000	0.000
	21 COOKED-NFS	2.000	P	0.000000	0.000	0.20000	0.000000	0.000
	22 COOKED-FRESH-BAKED	2.000	P	9.512179	634.145	0.02000	0.049673	3.312
	31 COOKED-FRESH OR CANNED	2.000	P	0.000000	0.000	0.02000	0.045449	3.030
02006JA	ORANGES-JUICE	2.000	P	0.000000	0.000	6.00000	0.000000	0.000
	15 RAW-FRESH OR CANNED	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
	31 COOKED-FRESH OR CANNED	6.000	P	0.013846	0.923	6.00000	0.013846	0.923
02007AA	TANGELLOS	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
	10 RAW-FRESH OR NFS	6.000	P	0.013846	0.923	6.00000	0.013846	0.923
02008AA	TANGERINES	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
	10 RAW-FRESH OR NFS	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
02008JA	TANGERINE-JUICE	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
	15 RAW-FRESH OR CANNED	6.000	P	0.000000	0.000	6.00000	0.000000	0.000
CROP GROUP TOTALS FOR CITRUS FRUITS:					10.083586	672.239	0.114189	7.613
04001AA	APPLES-FRESH	0.050	P	0.142700	9.513	0.00500	0.000283	0.019
	10 RAW-FRESH OR NFS	0.050	P	0.000000	0.000	0.00500	0.001109	0.074
	21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500	0.012818	0.855
	31 COOKED-FRESH OR CANNED	0.050	P	0.000000	0.000	0.00500	0.000060	0.004
04001DA	APPLES-DRIED	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000



CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg LEL= 4.00 ppm 1.3300 mg/kg 40.00 ppm	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC Che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
04001JA	22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED APPLES-JUICE	0.050	P	0.259816	17.321	0.00500 0.00500	0.000000 0.000000	0.000 0.000
04002AA	15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED CRABAPPLES	0.050	P	0.000000	0.000	0.00500 0.00500	0.008567 0.017414	0.571 1.161
04003AA	00 NOT SPECIFIED (NO CONSUMPTION) 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED	0.050	P	0.078903	5.260	0.00500	0.000000	0.000
04003DA	62 COOKED-FRESH OR FROZEN-BAKED PEARS-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500 0.00500	0.000000 0.000000	0.000 0.000
04004AA	00 NOT SPECIFIED (NO CONSUMPTION) QUINCES	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
CROP GROUP TOTALS FOR POME FRUITS:					0.481419	32.095	0.048141	3.209
05001AA	APRICOTS-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.019268	1.285	0.00500 0.00500	0.000218 0.000004	0.015 0.000
05001DA	31 COOKED-FRESH OR CANNED APRICOTS-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED	0.050	P	0.000000	0.000	0.00500	0.001705	0.114
05002AA	CHERRIES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	0.050	P	0.003473	0.232	0.00500 0.00500 0.00500	0.000000 0.000007 0.000178	0.000 0.000 0.012
05002DA	00 NOT SPECIFIED (NO CONSUMPTION) CHERRIES-DRIED	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
05002JA	CHERRIES-JUICE 15 RAW-FRESH OR CANNED 21 COOKED-NFS	0.050	P	0.001966	0.131	0.00500 0.00500	0.000197 0.000000	0.013 0.000
05003AA	NECTARINES 10 RAW-FRESH OR NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
05004AA	PEACHES-FRESH 10 RAW-FRESH OR NFS	0.050	P	0.104337	6.956	0.00500	0.000907	0.060

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC ChE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 Opp RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
05004DA	PEACHES-DRIED	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00500	0.001215	0.081
	21 COOKED-FRESH OR CANNED					0.00500	0.008308	0.554
05005AA	PLUMS(DAWSONS)-FRESH	0.050	P	0.014749	0.983	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00500	0.001437	0.096
05005DA	PLUMS-PRUNES(DRIED)	0.050	P	0.007602	0.507	0.00500	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00500	0.000002	0.000
	21 COOKED-FRESH OR CANNED					0.00500	0.000758	0.051
05005JA	PLUMS-PRUNE-JUICE	0.050	P	0.008505	0.567	0.00500	0.000850	0.057
	10 RAW-FRESH OR NFS					0.00500	0.000000	0.000
	62 COOKED-FRESH OR FROZEN-BAKED							
CROP GROUP TOTALS FOR STONE FRUITS:				0.159900	10.660		0.015990	1.066
24002EA	CORN, GRAIN-ENDOSPERM	0.050	A	0.014124	0.942	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.008917	0.594
	21 COOKED-NFS					0.05000	0.003054	0.204
	22 COOKED-FRESH-BAKED					0.05000	0.002153	0.144
	23 COOKED-FRESH-BOILED							
24002HA	CORN, GRAIN-BRAN	0.050	A	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
24002SA	CORN SUGAR	0.050	A	0.034127	2.275	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.033893	2.260
	21 COOKED-NFS					0.05000	0.000234	0.016
	22 COOKED-FRESH-BAKED							
24006AA	SORGHUM (INCLUDING MILO)	0.200	P	0.000000	0.000	0.02000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
270020A	CORN, GRAIN-OIL	0.050	A	0.000605	0.040	0.05000	0.000605	0.040
	18 PROCESSED OIL							
CROP GROUP TOTALS FOR CEREAL GRAINS:				0.048856	3.257		0.048856	3.257

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC ChE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	THRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
03001AA	ALMONDS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.050	P	0.000107	0.007	0.00500 0.00500 0.00500	0.000000 0.000008 0.000003	0.000 0.001 0.000
03002AA	BRAZIL NUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500 0.00500	0.000000 0.000000	0.000 0.000
03003AA	CASHEWS 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500 0.00500	0.000000 0.000000	0.000 0.000
03004AA	CHESTNUTS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
03005AA	FILBERTS, HAZELNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.050	P	0.000007	0.000	0.00500 0.00500 0.00500	0.000000 0.000000 0.000001	0.000 0.000 0.000
03006AA	HICKORY NUTS 10 RAW-FRESH OR NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
03007AA	MACADAMIA NUTS (BUSH NUTS) 10 RAW-FRESH OR NFS	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
03008AA	PECANS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 62 COOKED-FRESH OR FROZEN-BAKED	0.050	P	0.000018	0.001	0.00500 0.00500 0.00500 0.00500 0.00500	0.000000 0.000000 0.000002 0.000000 0.000000	0.000 0.000 0.000 0.000 0.000
03009AA	WALNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.050	P	0.000146	0.010	0.00500 0.00500 0.00500	0.000000 0.000000 0.000015	0.000 0.000 0.001
03010AA	BUTTER NUTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
03013AA	BEECHNUTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.00500	0.000000	0.000
CROP GROUP TOTALS FOR TREE NUTS:				0.000278	0.019		0.000029	0.002

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEI= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OHP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
530018A	BEEF-MEAT BYPRODUCTS 21 COOKED-NFS	0.050	P	0.000551	0.037	0.05000	0.000551	0.037
530018B	BEEF(ORGAN MEATS)-OTHER 26 COOKED-FRESH-PICKLED, CORNED, OR CURED 21 COOKED-NFS 51 COOKED-CANNED	0.050	P	0.000155	0.010	0.05000	0.000077	0.005
53001DA	BEEF-DRIED 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BROILED 25 COOKED-FRESH-FRIED	0.050	P	0.009564	0.638	0.05000	0.000030	0.002
53001KA	BEEF(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53001LA	BEEF(ORGAN MEATS)-LIVER 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.050	P	0.001562	0.104	0.05000	0.000349	0.023
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BROILED	0.050	P	0.061393	4.093	0.05000	0.000000	0.000
530028A	GOAT-MEAT BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
530028B	GOAT(ORGAN MEATS)-OTHER 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53002FA	GOAT(BONELESS)-FAT 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53002KA	GOAT(ORGAN MEATS)-KIDNEY 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53002LA	GOAT(ORGAN MEATS)-LIVER 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT) 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53003AA	HORSE 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #378B CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

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
53005BA	SHEEP-MEAT BYPRODUCTS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53005BB	SHEEP(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53005FA	SHEEP(BONELESS)-FAT 21 COOKED-NFS	0.050	P	0.000363	0.024	0.05000	0.000363	0.024
53005KA	SHEEP(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53005LA	SHEEP(ORGAN MEATS)-LIVER 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVABLE FAT) 21 COOKED-NFS	0.050	P	0.003152	0.210	0.05000	0.000112	0.007
53006BA	PORK-MEAT BYPRODUCTS 31 COOKED-FRESH OR CANNED 21 COOKED-NFS	0.050	P	0.000287	0.019	0.05000	0.003040	0.203
53006BB	PORK(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.050	P	0.000077	0.005	0.05000	0.000077	0.005
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD) 26 COOKED-FRESH OR NFS 10 RAM-FRESH OR NFS	0.050	P	0.007326	0.488	0.05000	0.000029	0.002
53006KA	PORK(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.006033	0.402
53006LA	PORK(ORGAN MEATS)-LIVER 21 COOKED-NFS	0.050	P	0.000753	0.050	0.05000	0.000557	0.037
53006MA	PORK(BONELESS)-LEAN (W/O REMOVABLE FAT) 21 COOKED-NFS 25 COOKED-FRESH-FRIED 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.050	P	0.022087	1.472	0.05000	0.000318	0.021
CROP GROUP TOTALS FOR RED MEAT:		0.107270		7.151		0.107270		7.151

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEI= 1.3300 mg/kg 40.00 ppm	Elevated hepatic enzymes; gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.
	ONCO: C (HED)				

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
55008BA	TURKEY-BYPRODUCTS 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED					0.05000	0.000000	0.000
55008LA	TURKEY-GIBLETS (LIVER) 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES) 21 COOKED-NFS	0.050	P	0.000596	0.400	0.05000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.05000	0.000596	0.397
	62 COOKED-FRESH OR FROZEN-BAKED					0.05000	0.000040	0.003
55008MB	TURKEY-FLESH(+SKIN,W/O BONES) 21 COOKED-NFS	0.050	P	0.004068	0.271	0.05000	0.004068	0.271
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
55008MC	TURKEY-UNSPECIFIED 21 COOKED-NFS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
55013BA	POLITRY,OTHER-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
55013LA	POLITRY,OTHER-GIBLETS(LIVER) 25 COOKED-FRESH-FRIED	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	POLITRY,OTHER-FLESH (+SKIN,W/O BONES)					0.05000	0.000000	0.000
55015BA	CHICKEN-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
55015LA	CHICKEN-GIBLETS(LIVER) 21 COOKED-NFS	0.050	P	0.000800	0.053	0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED					0.05000	0.000800	0.053
55015MA	CHICKEN-FLESH(W/O SKIN,W/O BONES) 21 COOKED-NFS	0.050	P	0.016417	1.094	0.05000	0.000766	0.051
	22 COOKED-FRESH-BAKED					0.05000	0.000045	0.003
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.05000	0.014542	0.969
	53 COOKED-CANNED-BOILED					0.05000	0.001064	0.071
55015MB	CHICKEN-FLESH(+SKIN,W/O BONES) 21 COOKED-NFS	0.050	P	0.025422	1.695	0.05000	0.022568	1.505
	25 COOKED-FRESH-FRIED					0.05000	0.002854	0.190
CROP GROUP TOTALS FOR POLITRY:					0.052703	3.514	0.052703	3.514

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3500 mg/kg 40.00 ppm	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RFD/PR reviewed 03/25/93 ON IRIS.

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
50000DB	MILK-NON-FAT SOLIDS	0.030	P	1.530751	102.050	0.03000	0.856887	57.126
	10 RAW-FRESH OR NFS					0.03000	0.095412	6.361
	21 COOKED-NFS					0.03000	0.578452	38.563
50000FA	MILK-FAT SOLIDS	0.030	P	0.336557	22.437	0.03000	0.304652	20.310
	10 RAW-FRESH OR NFS					0.03000	0.027122	1.808
	21 COOKED-NFS					0.03000	0.004784	0.319
50000SA	MILK SUGAR (LACTOSE)	0.030	P	0.090914	6.061	0.03000	0.000000	0.000
	21 COOKED-NFS					0.03000	0.090914	6.061
	51 COOKED-CANNED							
55014AA	EGGS-WHOLE	0.050	P	0.023568	1.571	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.019016	1.268
	21 COOKED-NFS					0.05000	0.001425	0.095
	22 COOKED-FRESH-BAKED					0.05000	0.000336	0.022
	23 COOKED-FRESH-BOILED					0.05000	0.002792	0.186
	25 COOKED-FRESH-FRIED							
55014AB	EGGS-WHITE ONLY	0.050	P	0.000206	0.014	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000181	0.012
	22 COOKED-FRESH-BAKED					0.05000	0.000025	0.002
	62 COOKED-FRESH OR FROZEN-BAKED					0.05000	0.000000	0.000
	81 COOKED-FROZEN							
55014AC	EGGS-YOLK ONLY	0.050	P	0.006446	0.430	0.05000	0.002116	0.141
	10 RAW-FRESH OR NFS					0.05000	0.000012	0.001
	21 COOKED-NFS					0.05000	0.000100	0.007
	25 COOKED-FRESH-FRIED					0.05000	0.004218	0.281
	31 COOKED-FRESH OR CANNED							
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				1.988442	132.563		1.988444	132.563

GRAND TOTALS FOR NON-NURSING INFANTS (< 1 YEAR OLD)

13.203492 880.233

2.403858

160.257

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

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TABLE 5

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 3788

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<b>CHEMICAL</b> Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	<b>STUDY TYPE</b> 1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	<b>EFFECTS</b> Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	<b>REFERENCE DOSES</b> ADI UF -->100 Opp RfD= 0.001500 EPA RfD= 0.001000	<b>DATA GAPS/COMMENTS</b> No data gaps.	<b>STATUS</b> HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RFD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	300186	P 4.000000	2.000000		100.00	2.000000
02002AA	GRAPEFRUIT-JUNSP	00 NOT SPECIFIED (NO CONSUMPTION)	2F1229	P 4.000000	2.000000		10.00	0.200000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	2F1229	P 4.000000	0.050000		10.00	0.005000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	2F1229	P 4.000000	0.050000		10.00	0.005000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	2F1229	P 4.000000	0.200000		10.00	0.020000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	2F1229	P 4.000000	0.200000		100.00	2.000000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	300186	P 4.000000	2.000000		10.00	0.200000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	5F1555	P 4.000000	2.000000		10.00	0.200000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	5F1555	P 4.000000	0.050000		10.00	0.005000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	5F1555	P 4.000000	0.050000		10.00	0.005000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	5F1555	P 4.000000	2.000000		10.00	0.200000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	5F1555	P 4.000000	2.000000		10.00	0.200000
02004HA	LEMONS-PEEL	21 COOKED-NFS	5F1555	P 4.000000	2.000000		10.00	0.200000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	5F1555	P 4.000000	0.200000		10.00	0.020000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	5F1555	P 4.000000	0.200000		10.00	0.020000
02004JA	LEMONS-JUICE	21 COOKED-NFS	5F1555	P 4.000000	0.200000		10.00	0.020000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	5F1555	P 4.000000	2.000000		100.00	2.000000
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	300186	P 4.000000	2.000000		100.00	2.000000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	300186	P 4.000000	2.000000		100.00	2.000000
02005HA	LIMES-PEEL	21 COOKED-NFS	300186	P 4.000000	2.000000		100.00	2.000000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	300186	P 4.000000	2.000000		100.00	2.000000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	300186	P 4.000000	2.000000		100.00	2.000000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	300186	P 4.000000	2.000000		100.00	2.000000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	2F1229	P 4.000000	2.000000		10.00	0.200000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	2F1229	P 4.000000	0.050000		10.00	0.005000
02006AB	ORANGES-PULP	21 COOKED-NFS	2F1229	P 4.000000	0.050000		10.00	0.005000
02006HA	ORANGES-PEEL	21 COOKED-FRESH-BAKED	2F1229	P 4.000000	2.000000		10.00	0.200000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	2F1229	P 4.000000	2.000000		10.00	0.200000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	2F1229	P 4.000000	0.200000		10.00	0.020000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	2F1229	P 4.000000	0.200000		10.00	0.020000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	7E3552	P 6.000000	6.000000		100.00	6.000000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	7E3552	P 6.000000	6.000000		100.00	6.000000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	7E3552	P 6.000000	6.000000		100.00	6.000000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03001AA	ALMONDS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03002AA	BRAZIL NUTS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03002AA	BRAZIL NUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03003AA	CASHEWS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000



ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 3788

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HEP)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HEP reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RfD/PR reviewed 03/25/93 ON IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
03003AA	CASHEWS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03004AA	CHESTNUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	23 COOKED-FRESH-BOILED	6F1782	P 0.050000	0.050000		10.00	0.005000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	21 COOKED-NFS	6F1782	P 0.050000	0.050000		10.00	0.005000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	6F1782	P 0.050000	0.050000		10.00	0.005000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
03010AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6F1782	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	51 COOKED-CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04003DA	PEARS-DRIED	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
04003AA	PEARNS-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 3788

DATE: 07/02/96

PAGE: 3

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEI= 1.3300 mg/kg 40.00 ppm ONCO: C (HEP)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC CHE inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OP RfD= 0.001500 EPA RfD= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 UHO reviewed 1992 RfD/PR reviewed 03/25/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05002AA	CHERRIES-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05004DA	PEACHES-DRIED	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	7F1984	P 0.050000	0.050000		10.00	0.005000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	7F1984	P 0.050000	0.050000		10.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	9E2194	P 0.050000	0.050000		10.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	9E2194	P 0.050000	0.050000		10.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED,CORNED,OR CURED	7F1984	P 0.050000	0.050000		10.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	7F1984	P 0.050000	0.050000		10.00	0.005000
06018AA	KIWI	10 RAW-FRESH OR NFS	7E3566	P 0.100000	0.100000		100.00	0.100000
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	1E3925	P 0.200000	0.200000		100.00	0.200000
06029AA	CARAMBOLA	00 NOT SPECIFIED	9E3769	P 0.100000	0.100000		100.00	0.100000
06031AA	LONGAN FRUIT	00 NOT SPECIFIED	9E3769	P 0.100000	0.100000		100.00	0.100000
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	7F1987	P 0.050000	0.050000		100.00	0.050000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	4F1513	P 0.500000	0.500000		40.00	0.500000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	4F1512	P 0.200000	0.200000		10.00	0.200000
27003AA	COTTONSEED-OIL	18 PROCESSED OIL	0F0892	P 0.200000	0.200000		10.00	0.200000
27003MA	COTTONSEED-OIL	18 PROCESSED OIL	0F0892	P 0.200000	0.200000		10.00	0.200000
27008AA	SAFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	7E1991	P 0.500000	0.500000		10.00	0.500000
27008OA	SAFLOWER-OIL	18 PROCESSED OIL	7E1991	P 0.500000	0.500000		10.00	0.500000
27011OA	SUNFLOWER-OIL	18 PROCESSED OIL	4F1513	P 0.500000	0.500000		40.00	0.500000
27016OA	OLIVE OIL	18 PROCESSED OIL	7F1986	P 0.050000	0.050000		10.00	0.005000

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TABLE 6  
TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 07/02/96

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS		
Methidathion Caswell #3788 CAS No. 950-37-8 A.I. CODE: 100301 CFR No. 180.298	1yr feeding- dog NOEL= 0.1500 mg/kg 4.00 ppm LEL= 1.3300 mg/kg 40.00 ppm ONCO: C (HED)	Elevated hepatic enzymes gross hepatic lesions; chronic hepatitis; RBC Che inhibition. Evidence of carcinogenicity mice (liver); negative in rat.	ADI UF -->100 OPP Rfd= 0.001500 EPA Rfd= 0.001000	No data gaps.	HED reviewed 10/30/87 EPA verified 01/21/88 WHO reviewed 1992 RFD/PR reviewed 03/25/93 ON IRIS.		
<b>POPULATION SUBGROUP</b>			<b>TOTAL TMRC (MG/KG BODY WEIGHT/DAY)</b>	<b>NEW TMRC AS PERCENT OF RFD</b>	<b>DIFFERENCE AS PERCENT OF RFD</b>	<b>EFFECT OF ANTICIPATED RESIDUES ARC</b>	<b>XRFD</b>
U.S. POPULATION - 48 STATES			0.005653	378.005867	1.113133	0.000137	9.10740
U.S. POPULATION - SPRING SEASON			0.005596	374.171467	1.082733	0.000071	4.75300
U.S. POPULATION - SUMMER SEASON			0.005213	348.674867	1.137133	0.000078	5.21067
U.S. POPULATION - FALL SEASON			0.005765	385.494867	1.136467	0.000190	12.69860
U.S. POPULATION - WINTER SEASON			0.006019	402.352933	1.096467	0.000205	13.64693
NORTHEAST REGION			0.007040	470.152467	0.790933	0.000148	9.85727
NORTH CENTRAL REGION			0.005614	375.259467	1.006200	0.000124	8.25093
SOUTHERN REGION			0.004554	304.974600	1.350600	0.000109	7.25820
WESTERN REGION			0.005720	382.602467	1.293067	0.000186	12.38580
HISPANICS			0.007531	504.051067	1.983467	0.000108	7.19020
NON-HISPANIC WHITES			0.005448	364.211667	0.984467	0.000142	9.49520
NON-HISPANIC BLACKS			0.005777	386.663867	1.545933	0.000097	6.48287
NON-HISPANIC OTHERS			0.008080	539.653267	0.996200	0.000238	15.87240
NURSING INFANTS (< 1 YEAR OLD)			0.005758	384.913133	1.057600	0.000091	6.03960
NON-NURSING INFANTS (< 1 YEAR OLD)			0.013155	880.232800	3.257067	0.000179	11.91267
FEMALES (13+ YEARS, PREGNANT)			0.004613	308.298333	0.779533	0.000079	5.27100
FEMALES 13+ YEARS, NURSING			0.004379	292.657667	0.699067	0.000040	2.67800
CHILDREN (1-6 YEARS OLD)			0.015156	1013.315200	2.886133	0.000338	22.55633
CHILDREN (7-12 YEARS OLD)			0.008356	559.180800	2.088867	0.000207	13.80060
MALES (13-19 YEARS OLD)			0.004785	320.295933	1.276067	0.000079	5.25033
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)			0.004532	303.166667	1.039000	0.000113	7.55493
MALES (20 YEARS AND OLDER)			0.003413	228.243533	0.697600	0.000089	5.95520
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)			0.004238	283.144267	0.608333	0.000114	7.60487

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

TABLE 7

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:44 Tuesday, December 10, 1996 47  
 \*\*\*\*\*  
 \*NAME: METHADATHION STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.\*  
 \*CASWELL NO: 3788 CFR NO: CFR180.298 A 00000.0010 000004.000 000100 Chronic Dog Systemic Blank 0000000581\*  
 \*CAS NO: 00950-37-8 SHAUGHNESSY NO: 100301 B  
 \*STATUS CODES: C  
 \*RDV INFO: The LD value used in this analysis is 0.01 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 MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
TOLERANCES:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0.00
ANTICIPATED RESIDUES:	100 21 7 3 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.001486	14.86
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 INFANTS(<1 YEAR)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
TOLERANCES:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0.00
ANTICIPATED RESIDUES:	100 69 32 16 11 7 4 3 2 2 1 1 0 0 0 0 0 0 0 0	0.003987	39.87
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 CHILDREN(1-6 YRS)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
TOLERANCES:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0.00
ANTICIPATED RESIDUES:	100 57 31 18 10 6 3 2 2 1 1 0 0 0 0 0 0 0 0 0	0.003740	37.40
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		

DETAILED ACUTE ANALYSIS INCLUDING ARI'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:44 Tuesday, December 10, 1996 48

\*\*\*\*\*  
 \*NAME: METHIDATHION STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.\*  
 \*CASSELL NO: 378B CFR NO: CFR180.298 A 00000.0010 000004.000 000100 Chronic Dog Systemic Blank 0000000581\*  
 \*CAS NO: 00950-37-8 SHAUGHNESSY NO: 100301 B C  
 \*STATUS CODES: C  
 \*RDV INFO: The LD value used in this analysis is 0.01 MG/KG of BODY WEIGHT/DAY  
 \*FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications\*  
 \*\*\*\*\*  
 -FEMALES(13+ YRS)

ESTIMATES BASED ON		PERSON DAYS THAT ARE USER-DAYS		MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV	
TOLERANCES:	0.00	0.00	0.00000	0.00	0.00	
ANTICIPATED RESIDUES:	99.82	0.001065	10.65			
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	0	.2	.4	.6	.8	1
TOLERANCES:	0	0	0	0	0	0
ANTICIPATED RESIDUES:	100	14	2	1	1	0
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	0	.2	.4	.6	.8	1
TOLERANCES:	0	0	0	0	0	0
ANTICIPATED RESIDUES:	100	14	2	1	1	0

-----  
 OMALES(13+ YRS)  
 -----  
 ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON		PERSON DAYS THAT ARE USER-DAYS		MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV	
TOLERANCES:	0.00	0.00000	0.00	0.00	0.00	
ANTICIPATED RESIDUES:	99.92	0.001056	10.56			
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	0	.2	.4	.6	.8	1
TOLERANCES:	0	0	0	0	0	0
ANTICIPATED RESIDUES:	100	12	2	1	0	0
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	0	.2	.4	.6	.8	1
TOLERANCES:	0	0	0	0	0	0
ANTICIPATED RESIDUES:	100	12	2	1	0	0

General U.S. Population  
 Exposure = RDV x X  
 = 0.01 x 1.4  
 High End Exposure = 0.014  
 MOE = Noel + Exposure  
 = 0.2 mg/kg/day + 0.014 mg/kg/day  
 MOE = 14.3

Infants (< 1 year)

Exposure =  $RDV \times X$   
=  $0.01 \times 3$   
High End Exposure = 0.03

MOE =  $Noel + Exposure$   
=  $0.2 \text{ mg/kg/day} + 0.03 \text{ mg/kg/day}$   
MOE = 6.6

Children (1-6 years)

Exposure =  $RDV \times X$   
=  $0.01 \times 3$   
High End Exposure = 0.03

MOE =  $Noel + Exposure$   
=  $0.2 \text{ mg/kg/day} + 0.03 \text{ mg/kg/day}$   
MOE = 6.6

Females (13+ years)

Exposure =  $RDV \times X$   
=  $0.01 \times 1$   
High End Exposure = 0.01

MOE =  $Noel + Exposure$   
=  $0.2 \text{ mg/kg/day} + 0.01 \text{ mg/kg/day}$   
MOE = 20

Males (13+ years)

Exposure =  $RDV \times X$   
=  $0.01 \times .8$   
High End Exposure = 0.008

MOE =  $Noel + Exposure$   
=  $0.2 \text{ mg/kg/day} + 0.008 \text{ mg/kg/day}$   
MOE = 25

378B	02001AA22	2.0000	CITRUS
CITROM			
378B	02002AA00	2.0000	
GRAPEFRUIT-UNSP			
378B	02002AB10	0.3300	
GRAPEFRUIT-PULP			
378B	02002AB21	0.3300	
GRAPEFRUIT-PULP			
378B	02002JA15	0.2600	
GRAPEFRUIT-JUICE			
378B	02002JA31	0.2600	
GRAPEFRUIT-JUICE			
378B	02003AA10	2.0000	KUMQUATS
378B	02004AA10	2.0000	
LEMONS-UNSPEC			
378B	02004AA22	2.0000	
LEMONS-UNSPEC			
378B	02004AB10	0.3300	LEMONS-PULP
378B	02004AB31	0.3300	LEMONS-PULP
378B	02004HA10	0.1140	LEMONS-PEEL
378B	02004HA21	0.1140	LEMONS-PEEL
378B	02004JA10	0.0010	LEMONS-JUICE
378B	02004JA15	0.0010	LEMONS-JUICE
378B	02004JA21	0.1100	LEMONS-JUICE
378B	02004JA31	0.1100	LEMONS-JUICE
378B	02005AA00	2.0000	LIMES-UNSPEC
378B	02005AB10	0.3300	LIMES-PULP
378B	02005HA21	0.1140	LIMES-PEEL
378B	02005JA10	2.0000	LIMES-JUICE
378B	02005JA15	0.0010	LIMES-JUICE
378B	02005JA31	0.0010	LIMES-JUICE
378B	02006AA00	2.0000	
ORANGES-UNSPEC			
378B	02006AB10	0.3300	ORANGES-PULP
378B	02006AB21	0.3300	ORANGES-PULP
378B	02006HA21	0.1140	ORANGES-PEEL
378B	02006HA22	0.1140	ORANGES-PEEL
378B	02006HA31	0.1140	ORANGES-PEEL
378B	02006JA15	0.2600	
ORANGES-JUICE			
378B	02006JA31	0.2600	
ORANGES-JUICE			
378B	02007AA10	6.0000	TANGELOS
378B	02008AA10	6.0000	TANGERINES
378B	02008JA15	6.0000	
TANGERINE-JUICE			
378B	03001AA10	0.0500	ALMONDS
378B	03001AA21	0.0500	ALMONDS
378B	03001AA22	0.0500	ALMONDS
378B	03002AA10	0.0500	BRAZIL NUTS
378B	03002AA21	0.0500	BRAZIL NUTS
378B	03003AA10	0.0500	CASHEWS
378B	03003AA21	0.0500	CASHEWS
378B	03004AA21	0.0500	CHESTNUTS
378B	03005AA10	0.0500	FILBERTS
378B	03005AA21	0.0500	FILBERTS
378B	03005AA22	0.0500	FILBERTS
378B	03006AA10	0.0500	HICKORY NUTS
378B	03007AA10	0.0500	MACADAMIA
NUTS			
378B	03008AA10	0.0500	PECANS
378B	03008AA21	0.0500	PECANS
378B	03008AA22	0.0500	PECANS
378B	03008AA23	0.0500	PECANS
378B	03008AA62	0.0500	PECANS
378B	03009AA10	0.0500	WALNUTS
378B	03009AA21	0.0500	WALNUTS
378B	03009AA22	0.0500	WALNUTS
378B	03010AA00	0.0500	BUTTER NUTS
378B	03013AA00	0.0500	BEECHNUTS
378B	04001AA10	0.0500	APPLES-FRESH

378B	04001AA21	0.0500	APPLES-FRESH
378B	04001AA31	0.0500	APPLES-FRESH
378B	04001AA62	0.0500	APPLES-FRESH
378B	04001DA10	0.0500	APPLES-DRIED
378B	04001DA22	0.0500	APPLES-DRIED
378B	04001DA62	0.0500	APPLES-DRIED
378B	04001JA15	0.0150	APPLES-JUICE
378B	04001JA31	0.0150	APPLES-JUICE
378B	04002AA00	0.0500	CRABAPPLES
378B	04003AA10	0.0500	PEARS-FRESH
378B	04003AA31	0.0500	PEARS-FRESH
378B	04003AA51	0.0500	PEARS-FRESH
378B	04003AA62	0.0500	PEARS-FRESH
378B	04003DA10	0.0500	PEARS-DRIED
378B	04003DA21	0.0500	PEARS-DRIED
378B	04004AA00	0.0500	QUINCES
378B	05001AA10	0.0500	
APRICOTS-FRESH			
378B	05001AA21	0.0500	
APRICOTS-FRESH			
378B	05001AA31	0.0500	
APRICOTS-FRESH			
378B	05001DA10	0.0500	
APRICOTS-DRIED			
378B	05001DA22	0.0500	
APRICOTS-DRIED			
378B	05002AA10	0.0500	
CHERRIES-FRESH			
378B	05002AA21	0.0500	
CHERRIES-FRESH			
378B	05002AA31	0.0500	
CHERRIES-FRESH			
378B	05002AA62	0.0500	
CHERRIES-FRESH			
378B	05002DA00	0.0500	
CHERRIES-DRIED			
378B	05002JA15	0.0500	
CHERRIES-JUICE			
378B	05002JA21	0.0500	
CHERRIES-JUICE			
378B	05003AA10	0.0500	NECTARINES
378B	05004AA10	0.0500	
PEACHES-FRESH			
378B	05004AA21	0.0500	
PEACHES-FRESH			
378B	05004AA31	0.0500	
PEACHES-FRESH			
378B	05004AA51	0.0500	
PEACHES-FRESH			
378B	05004DA10	0.0500	
PEACHES-DRIED			
378B	05004DA21	0.0500	
PEACHES-DRIED			
378B	05005AA10	0.0500	PLUMS-FRESH
378B	05005AA31	0.0500	PLUMS-FRESH
378B	05005DA10	0.0500	PLUMS-PRUNES
378B	05005DA21	0.0500	PLUMS-PRUNES
378B	05005DA31	0.0500	PLUMS-PRUNES
378B	05005JA10	0.0500	PRUNE-JUICE
378B	05005JA62	0.0500	PRUNE-JUICE
378B	06007AA10	0.0500	MANGOES
378B	06007AA21	0.0500	MANGOES
378B	06008AA00	0.0500	LOQUATS
378B	06009AA10	0.0500	OLIVES
378B	06009AA11	0.0500	OLIVES
378B	06009AA21	0.0500	OLIVES
378B	06018AA10	0.1000	KIWI
378B	06025AA00	0.2000	SUGAR APPLES
378B	06029AA00	0.1000	CARAMBOLA
378B	06031AA00	0.1000	LONGAN FRUIT
378B	13018AA21	0.0500	

ARTICHOKE-GLOBE		
378B 14013AA10	0.2000	
POTATO(WH)-WHOLE		
378B 14013AA21	0.2000	
POTATO(WH)-WHOLE		
378B 14013AA22	0.2000	
POTATO(WH)-WHOLE		
378B 14013AB22	0.2000	
POTATO(WH)-UNSPEC		
378B 14013AC21	0.2000	
POTATO(WH)-PULP		
378B 14013AC22	0.2000	
POTATO(WH)-PULP		
378B 14013AC23	0.2000	
POTATO(WH)-PULP		
378B 14013AC25	0.2000	
POTATO(WH)-PULP		
378B 14013DA10	0.2000	
POTATO(WH)-DRY		
378B 14013DA31	0.2000	
POTATO(WH)-DRY		
378B 14013HA22	0.2000	
POTATO(WH)-PEEL		
378B 15018AA10	0.5000	
SUNFLOWER-SEEDS		
378B 24006AA00	0.2000	SORGHUM
378B 27003OA18	0.0500	
COTTONSEED-OIL		
378B 27003WA18	0.2000	
COTTONSEED-MEAL		
378B 27008AA00	0.5000	
SAFFLOWER-SEED		
378B 27008OA18	0.0100	
SAFFLOWER-OIL		
378B 27011OA18	0.0100	
SUNFLOWER-OIL		
378B 27016OA18	0.0500	OLIVE OIL
378B 50000DB10	0.0300	MILK-NON-FAT
SOL		
378B 50000DB21	0.0300	MILK-NON-FAT
SOL		
378B 50000DB51	0.0300	MILK-NON-FAT
SOL		
378B 50000FA10	0.0300	MILK-FAT
SOLIDS		
378B 50000FA21	0.0300	MILK-FAT
SOLIDS		
378B 50000FA51	0.0300	MILK-FAT
SOLIDS		
378B 50000SA21	0.0300	MILK SUG
(LACT)		
378B 50000SA51	0.0300	MILK SUG
(LACT)		
378B 53001BA21	0.0500	BEEF-MEAT
BYP		
378B 53001BA26	0.0500	BEEF-MEAT
BYP		
378B 53001BB21	0.0500	BEEF-OTH
ORGAN		
378B 53001BB51	0.0500	BEEF-OTH
ORGAN		
378B 53001DA21	0.0500	BEEF-DRIED
378B 53001FA10	0.0500	BEEF-FAT
378B 53001FA21	0.0500	BEEF-FAT
378B 53001FA22	0.0500	BEEF-FAT
378B 53001FA23	0.0500	BEEF-FAT
378B 53001FA24	0.0500	BEEF-FAT
378B 53001FA25	0.0500	BEEF-FAT
378B 53001KA21	0.0500	BEEF-KIDNEY
378B 53001LA25	0.0500	BEEF-LIVER
378B 53001LA31	0.0500	BEEF-LIVER

378B 53001MA10	0.0500	BEEF-LEAN
378B 53001MA21	0.0500	BEEF-LEAN
378B 53001MA22	0.0500	BEEF-LEAN
378B 53001MA23	0.0500	BEEF-LEAN
378B 53001MA24	0.0500	BEEF-LEAN
378B 53002BA00	0.0500	GOAT-MEAT
BYP		
378B 53002BB00	0.0500	GOAT-OTH
ORGAN		
378B 53002FA23	0.0500	GOAT-FAT
378B 53002FA25	0.0500	GOAT-FAT
378B 53002KA00	0.0500	GOAT-KIDNEY
378B 53002LA00	0.0500	GOAT-LIVER
378B 53002MA23	0.0500	GOAT-LEAN
378B 53002MA25	0.0500	GOAT-LEAN
378B 53003AA00	0.0500	HORSE
378B 53005BA21	0.0500	SHEEP-MEAT
BYP		
378B 53005BB21	0.0500	SHEEP-OTH
ORGAN		
378B 53005FA21	0.0500	SHEEP-FAT
378B 53005KA21	0.0500	SHEEP-KIDNEY
378B 53005LA00	0.0500	SHEEP-LIVER
378B 53005MA21	0.0500	SHEEP-LEAN
378B 53005MA31	0.0500	SHEEP-LEAN
378B 53006BA21	0.0500	PORK-MEAT
BYP		
378B 53006BB21	0.0500	PORK-OTH
ORGAN		
378B 53006BB26	0.0500	PORK-OTH
ORGAN		
378B 53006FA10	0.0500	PORK-FAT
378B 53006FA21	0.0500	PORK-FAT
378B 53006FA23	0.0500	PORK-FAT
378B 53006FA25	0.0500	PORK-FAT
378B 53006FA26	0.0500	PORK-FAT
378B 53006KA21	0.0500	PORK-KIDNEY
378B 53006LA21	0.0500	PORK-LIVER
378B 53006LA25	0.0500	PORK-LIVER
378B 53006MA21	0.0500	PORK-LEAN
378B 53006MA25	0.0500	PORK-LEAN
378B 53006MA26	0.0500	PORK-LEAN
378B 55008BA21	0.0500	TURKEY-BYP
378B 55008BA26	0.0500	TURKEY-BYP
378B 55008LA21	0.0500	TURKEY ORGAN
378B 55008LA25	0.0500	TURKEY ORGAN
378B 55008MA21	0.0500	TURKEY W/O
SKIN		
378B 55008MA31	0.0500	TURKEY W/O
SKIN		
378B 55008MA62	0.0500	TURKEY W/O
SKIN		
378B 55008MB21	0.0500	TURKEY+SKIN
378B 55008MB25	0.0500	TURKEY+SKIN
378B 55008MC21	0.0500	
TURKEY-UNSPEC		
378B 55013BA00	0.0500	
POULTRY, OTH-BYP		
378B 55013LA25	0.0500	
POULTRY, ORGAN		
378B 55013MA21	0.0500	
POULTRY, OTHER		
378B 55014AA10	0.0500	EGGS-WHOLE
378B 55014AA21	0.0500	EGGS-WHOLE
378B 55014AA22	0.0500	EGGS-WHOLE
378B 55014AA23	0.0500	EGGS-WHOLE
378B 55014AA25	0.0500	EGGS-WHOLE
378B 55014AB10	0.0500	EGGS-WHITE
ONLY		
378B 55014AB21	0.0500	EGGS-WHITE
ONLY		



378B ONLY	55014AB22	0.0500	EGGS-WHITE
378B ONLY	55014AB62	0.0500	EGGS-WHITE
378B ONLY	55014AB81	0.0500	EGGS-WHITE
378B ONLY	55014AC10	0.0500	EGGS-YOLK
378B ONLY	55014AC21	0.0500	EGGS-YOLK
378B ONLY	55014AC25	0.0500	EGGS-YOLK
378B ONLY	55014AC31	0.0500	EGGS-YOLK
378B	55015BA00	0.0500	CHICKEN-BYP
378B	55015LA21	0.0500	CHICKEN-ORGAN
378B	55015LA25	0.0500	CHICKEN-ORGAN
378B	55015LA26	0.0500	CHICKEN-ORGAN
378B SKIN	55015MA21	0.0500	CHICKEN-W/O
378B SKIN	55015MA22	0.0500	CHICKEN-W/O
378B SKIN	55015MA25	0.0500	CHICKEN-W/O
378B SKIN	55015MA31	0.0500	CHICKEN-W/O
378B SKIN	55015MA53	0.0500	CHICKEN-W/O
378B	55015MB21	0.0500	CHICKEN+SKIN
378B	55015MB25	0.0500	CHICKEN+SKIN

TABLE 8  
RED

DETAILED ACUTE ANALYSIS INCLUDING A.R.'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:05 Tuesday, December 10, 1996 27  
 \*NAME: METHIDATHION STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.\*  
 \*CASSELL NO: 3788 CFR NO: CFR180.298 A 00000.0010 000004.000 000100 Chronic Dog Systemic Blank 0000000581\*  
 \*CAS NO: 00950-37-8 SHAUGHNESSY NO: 100301 B  
 \*STATUS CODES: C  
 \*RDV INFO: The LD value used in this analysis is 0.01 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 MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV	0	1	2	3	4	5	10	15	20
0	0.00	0.000000	0	0	0	0	0	0	0	0	0
11	98.46	0.000775	11	4	2	1	1	0	0	0	0
4			4	2	1	1	0	0	0	0	0
2			2	1	1	0	0	0	0	0	0
1			1	0	0	0	0	0	0	0	0
0			0	0	0	0	0	0	0	0	0

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

01NFANTS(<1 YEAR)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV	0	1	2	3	4	5	10	15	20
0	0.00	0.000000	0	0	0	0	0	0	0	0	0
24	71.75	0.002252	24	18	13	9	5	3	2	1	1
18			18	13	9	5	3	2	1	1	0
13			13	9	5	3	2	1	1	0	0
9			9	5	3	2	1	1	0	0	0
5			5	3	2	1	1	0	0	0	0
3			3	2	1	1	0	0	0	0	0
2			2	1	1	0	0	0	0	0	0
1			1	1	0	0	0	0	0	0	0
0			0	0	0	0	0	0	0	0	0

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

0CHILDREN(1-6 YRS)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV	0	1	2	3	4	5	10	15	20
0	0.00	0.000000	0	0	0	0	0	0	0	0	0
31	99.20	0.002059	31	20	10	6	3	2	2	1	1
20			20	10	6	3	2	2	1	1	0
10			10	6	3	2	2	1	1	0	0
6			6	3	2	2	1	1	0	0	0
3			3	2	2	1	1	0	0	0	0
2			2	2	1	1	0	0	0	0	0
1			1	1	1	0	0	0	0	0	0
0			0	0	0	0	0	0	0	0	0

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

DETAILED ACUTE ANALYSIS INCLUDING A.R.'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 09:05 Tuesday, December 10, 1996 28

\*\*\*\*\*  
 \*NAME: METHIDATHION  
 \*CASWELL NO: 3788 CFR NO: CFR180.298 A 00000.0010 000004.000 000100 Chronic Dog SPECIES EFF. LEV. CORE GRADE DOC. NO.\*  
 \*CAS NO: 00950-37-8 SHAUGHNESSY NO: 100301 B  
 \*STATUS CODES: C  
 \*RDV INFO: The LD value used in this analysis is 0.01 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

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	8	0.000597	5.97

ESTIMATES BASED ON TOLERANCES: 0.00  
 ANTICIPATED RESIDUES: 98.43  
 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: 0  
 ANTICIPATED RESIDUES: 0

OMALES(13+ YRS)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

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	5	0.000481	4.81

ESTIMATES BASED ON TOLERANCES: 0.00  
 ANTICIPATED RESIDUES: 99.10  
 ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

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

TOLERANCES: 0  
 ANTICIPATED RESIDUES: 0

General U.S. Population

Exposure = RDV x X  
 = 0.01 x 1.2  
 High End Exposure = 0.12

MOE = Noel + Exposure / RDV  
 = 0.2 mg/kg/day + 0.12 mg/kg/day / 0.01  
 = 1.6 / 0.01  
 = 160

Infants (< 1 year)

Exposure = RDV x X

= 0.01 x 3

High End Exposure = 0.03

MOE = Noel + Exposure

= 0.2 mg/kg/day + 0.03 mg/kg/day

MOE = 6.6

Children (1-6 years)

Exposure = RDV x X

= 0.01 x 3

High End Exposure = 0.03

MOE = Noel + Exposure

= 0.2 mg/kg/day + 0.03 mg/kg/day

MOE = 6.6

Females (13+ years)

Exposure = RDV x X

= 0.01 x .8

High End Exposure = 0.008

MOE = Noel + Exposure

= 0.2 mg/kg/day + 0.008 mg/kg/day

MOE = 25

Males (13+ years)

Exposure = RDV x X

= 0.01 x .6

High End Exposure = 0.006

MOE = Noel + Exposure

= 0.2 mg/kg/day + 0.006 mg/kg/day

MOE = 33.3

378B 02001AA22 4.0000 CITRUS  
 CITRUS 0000000  
 378B 02002AA00 4.0000  
 GRAPEFRUIT-UNSP 0000000  
 378B 02002AB10 0.3300  
 GRAPEFRUIT-PULP 0000000  
 378B 02002AB21 0.3300  
 GRAPEFRUIT-PULP 0000000  
 378B 02002JA15 0.2600  
 GRAPEFRUIT-JUICE 0000000  
 378B 02002JA31 0.2600  
 GRAPEFRUIT-JUICE 0000000  
 378B 02003AA10 4.0000 KUMQUATS  
 0000000  
 378B 02004AA10 4.0000  
 LEMONS-UNSPEC 0000000  
 378B 02004AA22 4.0000  
 LEMONS-UNSPEC 0000000  
 378B 02004AB10 0.3300 LEMONS-PULP  
 0000000  
 378B 02004AB31 0.3300 LEMONS-PULP  
 0000000  
 378B 02004HA10 0.1140 LEMONS-PEEL  
 0000000  
 378B 02004HA21 0.1140 LEMONS-PEEL  
 0000000  
 378B 02004JA10 0.0010 LEMONS-JUICE  
 0000000  
 378B 02004JA15 0.0010 LEMONS-JUICE  
 0000000  
 378B 02004JA21 0.0010 LEMONS-JUICE  
 0000000  
 378B 02004JA31 0.0100 LEMONS-JUICE  
 0000000  
 378B 02005AA00 4.0000 LIMES-UNSPEC  
 0000000  
 378B 02005AB10 0.3300 LIMES-PULP  
 0000000  
 378B 02005HA21 0.1140 LIMES-PEEL  
 0000000  
 378B 02005JA10 0.0010 LIMES-JUICE  
 0000000  
 378B 02005JA15 0.0100 LIMES-JUICE  
 0000000  
 378B 02005JA31 0.0100 LIMES-JUICE  
 0000000  
 378B 02006AA00 4.0000  
 ORANGES-UNSPEC 0000000  
 378B 02006AB10 0.3300 ORANGES-PULP  
 0000000  
 378B 02006AB21 0.3300 ORANGES-PULP  
 0000000  
 378B 02006HA21 0.1140 ORANGES-PEEL  
 0000000  
 378B 02006HA22 0.1140 ORANGES-PEEL  
 0000000  
 378B 02006HA31 0.1140 ORANGES-PEEL  
 0000000  
 378B 02006JA15 0.2600  
 ORANGES-JUICE 0000000  
 378B 02006JA31 0.2600  
 ORANGES-JUICE 0000000  
 378B 02007AA10 6.0000 TANGELOS  
 0000000  
 378B 02008AA10 6.0000 TANGERINES  
 0000000  
 378B 02008JA15 6.0000  
 TANGERINE-JUICE 0000000  
 378B 03001AA10 0.0500 ALMONDS  
 0000000  
 378B 03001AA21 0.0500 ALMONDS

0000000  
 378B 03001AA22 0.0500 ALMONDS  
 0000000  
 378B 03002AA10 0.0500 BRAZIL NUTS  
 0000000  
 378B 03002AA21 0.0500 BRAZIL NUTS  
 0000000  
 378B 03003AA10 0.0500 CASHEWS  
 0000000  
 378B 03003AA21 0.0500 CASHEWS  
 0000000  
 378B 03004AA21 0.0500 CHESTNUTS  
 0000000  
 378B 03005AA10 0.0500 FILBERTS  
 0000000  
 378B 03005AA21 0.0500 FILBERTS  
 0000000  
 378B 03005AA22 0.0500 FILBERTS  
 0000000  
 378B 03006AA10 0.0500 HICKORY NUTS  
 0000000  
 378B 03007AA10 0.0500 MACADAMIA  
 NUTS 0000000  
 378B 03008AA10 0.0500 PECANS  
 0000000  
 378B 03008AA21 0.0500 PECANS  
 0000000  
 378B 03008AA22 0.0500 PECANS  
 0000000  
 378B 03008AA23 0.0500 PECANS  
 0000000  
 378B 03008AA62 0.0500 PECANS  
 0000000  
 378B 03009AA10 0.0500 WALNUTS  
 0000000  
 378B 03009AA21 0.0500 WALNUTS  
 0000000  
 378B 03009AA22 0.0500 WALNUTS  
 0000000  
 378B 03010AA00 0.0500 BUTTER NUTS  
 0000000  
 378B 03013AA00 0.0500 BEECHNUTS  
 0000000  
 378B 04001AA10 0.0500 APPLES-FRESH  
 0000000  
 378B 04001AA21 0.0500 APPLES-FRESH  
 0000000  
 378B 04001AA31 0.0500 APPLES-FRESH  
 0000000  
 378B 04001AA62 0.0500 APPLES-FRESH  
 0000000  
 378B 04001DA10 0.0500 APPLES-DRIED  
 0000000  
 378B 04001DA22 0.0500 APPLES-DRIED  
 0000000  
 378B 04001DA62 0.0500 APPLES-DRIED  
 0000000  
 378B 04001JA15 0.0150 APPLES-JUICE  
 0000000  
 378B 04001JA31 0.0150 APPLES-JUICE  
 0000000  
 378B 04002AA00 0.0500 CRABAPPLES  
 0000000  
 378B 04003AA10 0.0500 PEARS-FRESH  
 0000000  
 378B 04003AA31 0.0500 PEARS-FRESH  
 0000000  
 378B 04003AA51 0.0500 PEARS-FRESH  
 0000000  
 378B 04003AA62 0.0500 PEARS-FRESH  
 0000000

3788 04003DA10 0.0500 PEARS-DRIED  
 0000000  
 3788 04003DA21 0.0500 PEARS-DRIED  
 0000000  
 3788 04004AA00 0.0500 QUINCES  
 0000000  
 3788 05001AA10 0.0500  
 APRICOTS-FRESH 0000000  
 3788 05001AA21 0.0500  
 APRICOTS-FRESH 0000000  
 3788 05001AA31 0.0500  
 APRICOTS-FRESH 0000000  
 3788 05001DA10 0.0500  
 APRICOTS-DRIED 0000000  
 3788 05001DA22 0.0500  
 APRICOTS-DRIED 0000000  
 3788 05002AA10 0.0500  
 CHERRIES-FRESH 0000000  
 3788 05002AA21 0.0500  
 CHERRIES-FRESH 0000000  
 3788 05002AA31 0.0500  
 CHERRIES-FRESH 0000000  
 3788 05002AA62 0.0500  
 CHERRIES-FRESH 0000000  
 3788 05002DA00 0.0500  
 CHERRIES-DRIED 0000000  
 3788 05002JA15 0.0500  
 CHERRIES-JUICE 0000000  
 3788 05002JA21 0.0500  
 CHERRIES-JUICE 0000000  
 3788 05003AA10 0.0500 NECTARINES  
 0000000  
 3788 05004AA10 0.0500  
 PEACHES-FRESH 0000000  
 3788 05004AA21 0.0500  
 PEACHES-FRESH 0000000  
 3788 05004AA31 0.0500  
 PEACHES-FRESH 0000000  
 3788 05004AA51 0.0500  
 PEACHES-FRESH 0000000  
 3788 05004DA10 0.0500  
 PEACHES-DRIED 0000000  
 3788 05004DA21 0.0500  
 PEACHES-DRIED 0000000  
 3788 05005AA10 0.0500 PLUMS-FRESH  
 0000000  
 3788 05005AA31 0.0500 PLUMS-FRESH  
 0000000  
 3788 05005DA10 0.0500 PLUMS-PRUNES  
 0000000  
 3788 05005DA21 0.0500 PLUMS-PRUNES  
 0000000  
 3788 05005DA31 0.0500 PLUMS-PRUNES  
 0000000  
 3788 05005JA10 0.0500 PRUNE-JUICE  
 0000000  
 3788 05005JA62 0.0500 PRUNE-JUICE  
 0000000  
 3788 06007AA10 0.0500 MANGOES  
 0000000  
 3788 06007AA21 0.0500 MANGOES  
 0000000  
 3788 06008AA00 0.0500 LOQUATS  
 0000000  
 3788 06009AA10 0.0500 OLIVES  
 0000000  
 3788 06009AA11 0.0500 OLIVES  
 0000000  
 3788 06009AA21 0.0500 OLIVES  
 0000000  
 3788 06018AA10 0.1000 KIWI

0000000  
 3788 06025AA00 0.2000 SUGAR APPLES  
 0000000  
 3788 06029AA00 0.1000 CARAMBOLA  
 0000000  
 3788 06031AA00 0.1000 LONGAN FRUIT  
 0000000  
 3788 15018AA10 0.5000  
 SUNFLOWER-SEEDS 0000000  
 3788 24006AA00 0.2000 SORGHUM  
 0000000  
 3788 27003OA18 0.0500  
 COTTONSEED-OIL 0000000  
 3788 27003WA18 0.2000  
 COTTONSEED-MEAL 0000000  
 3788 27008AA00 0.5000  
 SAFFLOWER-SEED 0000000  
 3788 27008QA18 0.0100  
 SAFFLOWER-OIL 0000000  
 3788 27011OA18 0.0100  
 SUNFLOWER-OIL 0000000  
 3788 27016QA18 0.0500 OLIVE OIL  
 0000000