



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

Herndon

JAN 28 1995

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Acute Dietary and Chronic Exposure
Analysis for a Permanent Tolerance
of Avermectin B₁ in/on Pears
(PP# 9F3787)

FROM: Teung F. Chin, Ph.D., Biologist
Dietary Risk Evaluation Section
Science Analysis Branch/ HED

TO: A. Heyward/G. LaRocca, Team 14
Insecticide-Rodenticide Branch
Registration Division (7505C)

THROUGH: Elizabeth A. Doyle, Ph.D., Section Head
DRES/SAB
Health Effects Division

Teung F. Chin

E. A. Doyle

Action Requested

The Insecticide-Rodenticide Branch has requested a Dietary Risk Evaluation System (DRES) analysis be performed for residues of the insecticide/miticide Avermectin B₁ and its delta-8,9-isomer in/on pears at a proposed permanent tolerance of 0.02 ppm. (11/16/94 HED Review; CBTS# 14348; G.J. Herndon to A. Heyward/G. LaRocca).

Discussion

Toxicological Information:

For **chronic exposure**, a Reference Dose (RfD) of 0.0004 mg/kg/day has been assigned to Avermectin B₁ based on a No Observed Effect Level (NOEL) of 0.12 mg/kg/day in a two-generation rat reproduction study in which decreased viability of pups (decreased litter size and increased pup deaths) was observed. An Uncertainty Factor of 300 was employed rather than 100. The Peer Review Committee noted that "the greater uncertainty factor is supported by the severity of the effects (pup death) and steep dose-response" (7/8/93 HED Memo: "Developmental and Reproductive Toxicity Peer review of Avermectin"; R. Gardner to J. Ellenberger).



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Avermectin"; R. Gardner to J. Ellenberger).

For **acute exposure**, a NOEL of 0.06 mg/kg bwt/day was utilized. Avermectin B₁ is a developmental toxicant in mice. The appropriate Margin of Exposure is 100. (7/8/93 HED Memo: "Developmental and Reproductive Toxicity Peer review of Avermectin"; R. Gardner to J. Ellenberger).

DRES is not aware of any carcinogenic concerns for Avermectin B₁.

Percent Crop Treated - No percent crop treated information was utilized for the DRES acute exposure analysis since none was provided. It was assumed that 100 percent of the pear crop would be treated with Avermectin B₁.

Anticipated Residues (AR) - Anticipated residue (AR) data was provided by CBTS for both the DRES acute and chronic analyses (12/21/94 HED memo: CBTS# 14388; G. J. Herndon to A. Heyward/G. LaRocca). A list of the ARs are in Table 1. For the acute analysis, the ARC was identical to the proposed permanent tolerance of 0.02 ppm on pears for the acute analysis. For dried pears, an anticipated residue value of 0.088 ppm was employed (11/16/94 HED Review; CBTS# 14348; G.J. Herndon to A. Heyward/G. LaRocca). This DRES run also incorporates anticipated residue values for head lettuce (PP# 4F4373).

Results

1. Chronic Exposure:

The DRES chronic exposure analysis utilized anticipated residue level residues and treatment of 100% for each crop to estimate the Theoretical Maximum Residue Contribution (TMRC) and Anticipated Residue Contribution (ARC) of Avermectin B₁ from the diet to the general U.S. population and 22 population subgroups. The summary results of this analysis are attached as Table 2.

Percent of RfD Based on TMRC and Anticipated Residues

General U.S. Population

The calculated TMRC using all current tolerances for Avermectin B₁ for the general U.S. population is 1.58×10^{-4} mg/kg bwt/day which is 39% of the RfD. The portion of residues contributed by pears would be 2.45×10^{-6} mg/kg bwt/day, occupying 0.6% of the RfD for the general U.S. population (Table 2). The use of anticipated residues results in a lower contribution to the RfD; the calculated anticipated residue concentration (ARC) is 9.9×10^{-7} mg/kg bwt/day accounting for 0.2% of the RfD.

Non-Nursing Infants (< 1 Year)

Based on TMRC, the most highly exposed subgroups are non-nursing infants (< 1 year) and children (1-6 years). Non-nursing

infants (< 1 year) would have a TMRC of 4.96×10^{-4} mg/kg bwt/day or 124% of the RfD. However, based on anticipated residues, the ARC for non-nursing infants (< 1 year) is 8.4×10^{-5} mg/kg bwt/day accounting for 21% of the RfD.

Children (1-6 Years)

Based on TMRC, children (1-6 years) would have 3.77×10^{-4} mg/kg bwt/day, or 94% of the RfD. Based on anticipated residues, for children (1-6 years), the ARC for non-nursing infants (< 1 year) is 5.2×10^{-5} mg/kg bwt/day accounting for 13% of the RfD.

Comments - Chronic Dietary Risk

The DRES analysis indicated that the RfD for chronic exposure will not be exceeded by the establishment of a permanent tolerance of 0.05 ppm for residues of the insecticide/miticide Avermectin B₁ and its delta-8,9-isomer in/on head lettuce.

2.* Acute Exposure: The DRES detailed acute analysis estimates the distribution of single-day exposures for the overall U.S. population and certain subgroups. The analysis evaluates individual food consumption as reported by respondents in the USDA 1977-78 Nationwide Food Consumption Survey (NFCS) and accumulates exposure to the chemical for each commodity. Each analysis assumes uniform distribution of Avermectin B₁ in the commodity supply. Since the toxicological endpoint to which exposure is being compared in this analysis is developmental toxicity, females (13+ yrs), is the subpopulation of particular interest.

The Margin of Exposure (MOE) is a measure of how close the high end exposure comes to the NOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure ($\text{NOEL} / \text{exposure} = \text{MOE}$). When the data is derived from studies involving laboratory animals, the Agency is generally not concerned unless the MOE is below 100.

Comments - Acute Dietary Risk

The DRES analysis indicates that the $\text{MOE} = 200$ for the high end consumers of females (13+ years). Therefore, negligible acute dietary risk is expected if a permanent tolerance of 0.02 ppm for residues of the insecticide/miticide Avermectin B₁ and its delta-8,9-isomer in/on for pears is established. A table of the distribution of exposures used in this analysis is attached as Table 3. The calculations for the MOE are also included on Table 3.

Attachments

cc: DRES, IRB, RCAB, Tox I, CBTS, Caswell # 063AB

TABLE 1: Published, Pending & Proposed Tolerances and Anticipated Residues for Avermectin B₁

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 063AB

DATE: 01/23/95

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Avermectin B1 Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449	2gen reprod- rat NOEL= 0.1200 mg/kg LEL= 0.4000 mg/kg 0.00 ppm ONCO: Negative- 2 species.	Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	ADI UF -->300 OPP RfD= 0.0004/00 EPA RfD= 0.0004/00	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.	HED complete 07/11/86 HED reassess 06/12/87 HED reassess 03/30/89 EPA verified 04/20/89 WHO reviewed 1992 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)
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0F3880	A 0.020000	0.020000		100.00	0.020000
01016AA	STRAWBERRIES	21 COOKED-NFS	0F3880	A 0.020000	0.020000		100.00	0.020000
01016AA	STRAWBERRIES	70 RAW-FROZEN	0F3880	A 0.020000	0.020000		100.00	0.020000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	8F3592	P 0.020000	0.000850	PROCESSING	100.00	0.000850
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED	8F3592	P 0.020000	0.000850	PROCESSING	100.00	0.000850
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.000500	PROCESSING	100.00	0.000500
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	8F3592	P 0.020000	0.000500	PROCESSING	100.00	0.000500
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	8F3592	P 0.020000	0.000850C	PROCESSING	100.00	0.000850
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	8F3592	P 0.020000	0.004000	PROCESSING	100.00	0.004000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.002500	PROCESSING	100.00	0.002500
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.002500	PROCESSING	100.00	0.002500
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	8F3592	P 0.020000	0.002500	PROCESSING	100.00	0.002500
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.000500	PROCESSING	100.00	0.000500
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	8F3592	P 0.020000	0.000500	PROCESSING	100.00	0.000500
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	8F3592	P 0.100000	0.002500	PROCESSING	100.00	0.002500
02004HA	LEMONS-PEEL	21 COOKED-NFS	8F3592	P 0.100000	0.002500C	PROCESSING	100.00	0.002500
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02004JA	LEMONS-JUICE	21 COOKED-NFS	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED	8F3592	P 0.020000	0.002500	PROCESSING	100.00	0.002500
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.000500	PROCESSING	100.00	0.000500
02005HA	LIMES-PEEL	21 COOKED-NFS	8F3592	P 0.100000	0.002500C	PROCESSING	100.00	0.002500
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	8F3592	P 0.020000	0.010000	PROCESSING	100.00	0.010000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED	8F3592	P 0.020000	0.002000	PROCESSING	100.00	0.002000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.002000	PROCESSING	100.00	0.002000
02006AB	ORANGES-PULP	21 COOKED-NFS	8F3592	P 0.100000	0.010000	PROCESSING	100.00	0.010000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	8F3592	P 0.100000	0.010000	PROCESSING	100.00	0.010000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	8F3592	P 0.100000	0.010000	PROCESSING	100.00	0.010000
02006HA	ORANGES-PEEL	15 RAW-FRESH OR CANNED	8F3592	P 0.020000	0.001000C	PROCESSING	100.00	0.001000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	8F3592	P 0.020000	0.001000C	PROCESSING	100.00	0.001000
02006JA	ORANGES-JUICE	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.001000	PROCESSING	100.00	0.001000
02007AA	TANGELLOS	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.001000	PROCESSING	100.00	0.001000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	8F3592	P 0.020000	0.000250C	PROCESSING	100.00	0.000250
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	9F3787	N 0.020000	0.008000		100.00	0.008000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	9F3787	N 0.020000	0.008000		100.00	0.008000
04003AA	PEARS-FRESH	51 COOKED-CANNED	9F3787	N 0.020000	0.008000		100.00	0.008000

P = Published N = Proposed (New)

A = Pending

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Avermectin B1 Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449	2gen reprod- rat NOEL= 0.1200 mg/kg 0.00 ppm LEL= 0.4000 mg/kg 0.00 ppm ONCO: Negative- 2 species.	Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	ADI UF --->300 OPP RfD= 0.0004/00 EPA RfD= 0.0004/00	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.	HED complete 07/11/86 HED reassess 06/12/87 HED reassess 03/30/89 EPA verified 04/20/89 WHO reviewed 1992 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)
040035AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	9F3787	N 0.020000	0.008000		100.00	0.008000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	9F3787	N 0.020000	0.035000		100.00	0.035000
04003DA	PEARS-DRIED	21 COOKED-NFS	9F3787	N 0.020000	0.035000		100.00	0.035000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	1E3943	P 0.010000	0.002000	IMPORT TOL	100.00	0.002000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	1E3943	P 0.010000	0.002000	IMPORT TOL	100.00	0.002000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	1E3943	P 0.010000	0.002000	IMPORT TOL	100.00	0.002000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	9F3703	A 0.010000	0.000420C		100.00	0.000420
11005JA	TOMATOES-JUICE	21 COOKED-NFS	9F3703	A 0.010000	0.000420C		100.00	0.000420
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	9F3703	A 0.010000	0.000800C		100.00	0.000800
11005RA	TOMATOES-PUREE	21 COOKED-NFS	9F3703	A 0.010000	0.000800C		100.00	0.000800
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	9F3703	A 0.010000	0.000800C		100.00	0.000800
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	9F3703	A 0.010000	0.000800C		100.00	0.000800
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	9F3703	A 0.010000	0.000800C		100.00	0.000800
11005TA	TOMATOES-PASTE	21 COOKED-NFS	9F3703	A 0.010000	0.002400C		100.00	0.002400
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	9F3703	A 0.010000	0.002400C		100.00	0.002400
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	9F3703	A 0.010000	0.002400C		100.00	0.002400
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	9F3703	A 0.010000	0.002200C		100.00	0.002200
13002AA	CELERY	10 RAW-FRESH OR NFS	8F3649	A 0.050000	0.011000		100.00	0.011000
13002AA	CELERY	21 COOKED-NFS	8F3649	A 0.050000	0.011000		100.00	0.011000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	8F3649	A 0.050000	0.009000		100.00	0.009000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	4F4373	A 0.050000	0.009000		100.00	0.009000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	4F4373	A 0.050000	0.009000		100.00	0.009000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	4F4373	A 0.050000	0.009000		100.00	0.009000
27003DA	COTTONSEED-OIL	18 PROCESSED OIL	7F3500	P 0.005000	0.000200		100.00	0.000200
27003DA	COTTONSEED-MEAL	18 PROCESSED OIL	7F3500	P 0.005000	0.000500		100.00	0.000500
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	8F3592	P 0.005000	0.001000		100.00	0.001000
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	8F3592	P 0.005000	0.001000		100.00	0.001000
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	8F3592	P 0.005000	0.001000		100.00	0.001000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	8F3592	P 0.005000	0.001000		100.00	0.001000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	8F3592	P 0.005000	0.001000		100.00	0.001000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	8F3592	P 0.005000	0.001000		100.00	0.001000
50000SA	MILK-SUG (LACT)	21 COOKED-NFS	8F3592	P 0.005000	0.000250		100.00	0.000250
50000SA	MILK-SUG (LACT)	51 COOKED-CANNED	8F3592	P 0.005000	0.000250		100.00	0.000250
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	8F3592	P 0.020000	0.008000		100.00	0.008000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,....	8F3592	P 0.020000	0.008000		100.00	0.008000
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	8F3592	P 0.020000	0.008000		100.00	0.008000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	8F3592	P 0.020000	0.008000		100.00	0.008000
53001DA	BEEF-DRIED	21 COOKED-NFS	8F3592	P 0.020000	0.006000		100.00	0.006000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	8F3592	P 0.020000	0.006000		100.00	0.006000
53001FA	BEEF-FAT	21 COOKED-NFS	8F3592	P 0.020000	0.006000		100.00	0.006000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 063AB

DATE: 01/23/95

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Avermectin B1 Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449		2gen repro- rat NOEL= 0.1200 mg/kg LEL= 0.4000 mg/kg 0.00 ppm		Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.		ADI UF -->300 OPP RfD= 0.000400 EPA RfD= 0.000400		No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.		HED complete 07/11/86 HED reassess 06/12/87 EPA reassess 03/30/89 EPA verified 04/20/89 WHO reviewed 1992 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)
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	exp. 4/96	8F3592	P 0.020000	0.006000	100.00	0.006000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	exp. 4/96	8F3592	P 0.020000	0.006000	100.00	0.006000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	exp. 4/96	8F3592	P 0.020000	0.006000	100.00	0.006000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	exp. 4/96	8F3592	P 0.020000	0.006000	100.00	0.006000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	exp. 4/96	8F3592	P 0.020000	0.008000	100.00	0.008000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	exp. 4/96	8F3592	P 0.020000	0.008000	100.00	0.008000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	exp. 4/96	8F3592	P 0.020000	0.008000	100.00	0.008000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	exp. 4/96	8F3592	P 0.020000	0.002000	100.00	0.002000
53001MA	BEEF-LEAN	21 COOKED-NFS	exp. 4/96	8F3592	P 0.020000	0.002000	100.00	0.002000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	exp. 4/96	8F3592	P 0.020000	0.002000	100.00	0.002000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	exp. 4/96	8F3592	P 0.020000	0.002000	100.00	0.002000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	exp. 4/96	8F3592	P 0.020000	0.002000	100.00	0.002000

TABLE 2: CHRONIC DIETARY RISK ANALYSIS for AVERMECTIN B₁ in/on PEARS

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/23/95

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
			ADI	UF		HED complete	
Avermectin B ₁ Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449	2gen reprod- rat NOEL= 0.1200 mg/kg 0.00 ppm LEL= 0.4000 mg/kg 0.00 ppm ONCO: Negative- 2 species.	Incr retinal folds in meanings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	OPP RfD= 0.000400 EPA RfD= 0.000400	--300	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. House teratogen.	HED reassess 06/12/87 EPA reassess 03/30/89 EPA verified 04/20/89 WHO last reviewed 1992 On IRIS.	
TOTAL TMRC (MG/KG BODY WEIGHT/DAY)							
POPULATION SUBGROUP	CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES ARC	%RFD	
U.S. POPULATION - 48 STATES	0.000138	0.000158	39.478750	5.086000	0.000023	5.65600 ✓	
U.S. POPULATION - SPRING SEASON	0.000134	0.000155	38.774000	5.363750	0.000023	5.64700	
U.S. POPULATION - SUMMER SEASON	0.000135	0.000156	38.913250	5.071000	0.000023	5.62800	
U.S. POPULATION - FALL SEASON	0.000140	0.000160	39.970000	4.899500	0.000023	5.66475	
U.S. POPULATION - WINTER SEASON	0.000141	0.000161	40.250750	4.999000	0.000023	5.68000	
NORTHEAST REGION	0.000154	0.000176	43.899750	5.442000	0.000024	5.97400	
NORTH CENTRAL REGION	0.000140	0.000161	40.158000	5.193750	0.000023	5.81375	
SOUTHERN REGION	0.000134	0.000134	33.400000	3.869250	0.000019	4.83150	
WESTERN REGION	0.000146	0.000172	43.053500	6.547750	0.000026	6.42750	
HISPANICS	0.000178	0.000200	50.118250	5.552500	0.000028	6.92075	
NON-HISPANIC WHITES	0.000136	0.000157	39.337000	5.403750	0.000023	5.72750	
NON-HISPANIC BLACKS	0.000127	0.000138	34.443500	2.708750	0.000018	4.50725	
NON-HISPANIC OTHERS	0.000167	0.000190	47.461750	5.827250	0.000026	6.44150	
NURSING INFANTS (< 1 YEAR OLD)	0.000134	0.000162	40.470500	7.085250	0.000028	7.06325	
NON-NURSING INFANTS (< 1 YEAR OLD)	0.000461	0.000496	123.952000	8.709000	0.000084	21.07875 ✓	
FEMALES (13+ YEARS, PREGNANT)	0.000104	0.000122	30.450250	4.406750	0.000017	4.17425	
FEMALES 13+ YEARS, NURSING	0.000115	0.000140	34.949250	6.225250	0.000021	5.31850	
CHILDREN (1-6 YEARS OLD)	0.000352	0.000377	94.185250	6.284500	0.000052	13.04900 ✓	
CHILDREN (7-12 YEARS OLD)	0.000216	0.000241	60.140500	6.140500	0.000035	8.79650	
MALES (13-19 YEARS OLD)	0.000138	0.000155	38.849250	4.288000	0.000023	5.81225	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000115	0.000132	33.111000	4.360000	0.000019	4.76950	
MALES (20 YEARS AND OLDER)	0.000090	0.000107	26.803750	4.398750	0.000016	3.93375	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.000090	0.000111	27.669500	5.122250	0.000015	3.79400	

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

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/23/95

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Avermectin B1 Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449		2gen reprod- rat NOEL= 0.1200 mg/kg 0.00 ppm LEL= 0.4000 mg/kg 0.00 ppm ONCO: Negative- 2 species.		Incr retinal folds in weanlings; decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.		ADI UF -->300 OPP RfD= 0.000400 EPA RfD= 0.000400		No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.		HED complete 07/11/86 HED reassess 06/12/87 HED reassess 03/30/89 EPA verified 04/20/89 WHO last reviewed 1992 On IRIS.	
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES											
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD			
270030A	COTTONSEED-OIL	0.005	P	0.000102	0.026	0.00020	0.000004	0.001			
270030A	18 PROCESSED OIL	exp. 4/96									
270030A	COTTONSEED-MEAL	0.005	P	0.000001	0.000	0.00050	0.000000	0.000			
270030A	18 PROCESSED OIL	exp. 4/96									
CROP GROUP TOTALS FOR UNSPECIFIED:					0.000103	0.026	0.000004		0.001		
13002AA	CELERY	0.050	A	0.003048	0.762	0.01100	0.000526	0.132			
13002AA	10 RAW-FRESH OR NFS					0.01100	0.000145	0.036			
13016AA	FENNEL	0.050	A	0.000011	0.003	0.01100	0.000002	0.001			
13020AA	00 NOT SPECIFIED (NO CONSUMPTION)										
13020AA	LETTUCE-UNSPECIFIED	0.050	A	0.000460	0.115	0.00900	0.000083	0.021			
13020AA	10 RAW-FRESH OR NFS										
13045AA	LETTUCE-HEAD VARIETIES	0.050	A	0.010614	2.654	0.00900	0.001874	0.469			
13045AA	10 RAW-FRESH OR NFS					0.00900	0.000036	0.009			
13045AA	21 COOKED-NFS										
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):					0.014133	3.533	0.002666		0.867		
11005AA	TOMATOES-WHOLE	0.010	P	0.004920	1.230	0.00200	0.000502	0.126			
11005AA	10 RAW-FRESH OR NFS					0.00200	0.000387	0.097			
11005AA	21 COOKED-NFS					0.00200	0.000094	0.024			
11005JA	TOMATOES-JUICE	0.010	A	0.000551	0.138	0.00042	0.000001	0.000			
11005JA	10 RAW-FRESH OR NFS					0.00042	0.000022	0.006			
11005RA	TOMATOES-PUREE	0.010	A	0.001702	0.426	0.00080	0.000000	0.000			
11005RA	10 RAW-FRESH OR NFS					0.00080	0.000077	0.019			
11005RA	21 COOKED-NFS					0.00080	0.000013	0.003			
11005RA	31 COOKED-FRESH OR CANNED					0.00080	0.000018	0.005			
11005RA	32 COOKED-FRESH OR CANNED-BAKED					0.00080	0.000029	0.007			
11005TA	TOMATOES-PASTE	0.010	A	0.000395	0.099	0.00240	0.000067	0.017			
11005TA	21 COOKED-NFS					0.00240	0.000013	0.003			
11005TA	31 COOKED-FRESH OR CANNED					0.00240	0.000015	0.004			
11005UA	TOMATOES-CATSUP	0.010	A	0.000420	0.105	0.00220	0.000092	0.023			
11005UA	21 COOKED-NFS										
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITIS):					0.007988	1.997	0.001330		0.333		

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Avermectin B1	Caswell #063AB	2gen reprod- rat	NOEL= 0.1200 mg/kg	Incr retinal folds in weanlings, deer viability & lactation indices; deer pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	ADI UF -->300	OPP RfD= 0.000400	EPA RfD= 0.000400	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen?	HED complete 07/11/86	HED reassess 06/12/87	HED reassess 03/30/89
	CAS No. 65195-55-3		0.00 ppm								
	A.I. CODE: 122804		0.4000 mg/kg								
	CFR No. 180.449		0.00 ppm								
		ONCO: Negative- 2 species.									HED reassess 04/20/89
											WHO last reviewed 1992
											On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
02001AA	CITRUS CITRON	0.020	P	0.000003	0.001	0.00085	0.000000	0.000
	22 COOKED-FRESH-BAKED	exp. 4/96						
02002AA	GRAPEFRUIT-UNSPECIFIED	0.020	P	0.000000	0.000	0.00085	0.000000	0.000
	00 NOT SPECIFIED	exp. 4/96						
02002AB	GRAPEFRUIT-PULP	0.020	P	0.001369	0.342	0.00050	0.000034	0.009
	10 RAW-FRESH OR NFS	exp. 4/96				0.00050	0.000000	0.000
	21 COOKED-NFS	exp. 4/96						
02002JA	GRAPEFRUIT-JUICE	0.020	P	0.003249	0.812	0.00085	0.000064	0.016
	15 RAW-FRESH OR CANNED	exp. 4/96				0.00085	0.000002	0.001
	31 COOKED-FRESH OR CANNED	exp. 4/96						
02003AA	KUMQUATS	0.020	P	0.000002	0.001	0.00400	0.000000	0.000
	10 RAW-FRESH OR NFS	exp. 4/96				0.00250	0.000005	0.001
02004AA	LEMONS-UNSPECIFIED	0.020	P	0.000041	0.010	0.00250	0.000000	0.000
	10 RAW-FRESH OR NFS	exp. 4/96						
	22 COOKED-FRESH-BAKED	exp. 4/96						
02004AB	LEMONS-PULP	0.020	P	0.000004	0.001	0.00050	0.000000	0.000
	10 RAW-FRESH OR NFS	exp. 4/96				0.00050	0.000000	0.000
	31 COOKED-FRESH OR CANNED	exp. 4/96						
02004HA	LEMONS-PEEL	0.100	P	0.000026	0.007	0.00250	0.000001	0.000
	10 RAW-FRESH OR NFS	exp. 4/96				0.00250	0.000000	0.000
	21 COOKED-NFS	exp. 4/96						
02004JA	LEMONS-JUICE	0.020	P	0.000758	0.190	0.00025	0.000001	0.000
	10 RAW-FRESH OR NFS	exp. 4/96				0.00025	0.000001	0.000
	15 RAW-FRESH OR CANNED	exp. 4/96				0.00025	0.000002	0.001
	21 COOKED-NFS	exp. 4/96						
	31 COOKED-FRESH OR CANNED	exp. 4/96				0.00025	0.000001	0.000
02005AA	LIMES-UNSPECIFIED	0.020	P	0.000000	0.000	0.00250	0.000000	0.000
	00 NOT SPECIFIED	exp. 4/96						
02005AB	LIMES-PULP	0.020	P	0.000002	0.001	0.00050	0.000000	0.000
	10 RAW-FRESH OR NFS	exp. 4/96						
02005HA	LIMES-PEEL	0.100	P	0.000000	0.000	0.00250	0.000000	0.000
	21 COOKED-NFS	exp. 4/96						
02005JA	LIMES-JUICE	0.020	P	0.000132	0.033	0.00025	0.000001	0.000
	10 RAW-FRESH OR NFS	exp. 4/96				0.00025	0.000000	0.000
	15 RAW-FRESH OR CANNED	exp. 4/96				0.00025	0.000000	0.000
	31 COOKED-FRESH OR CANNED	exp. 4/96				0.00025	0.000000	0.000
02006AA	ORANGES-UNSPECIFIED	0.020	P	0.000000	0.000	0.01000	0.000000	0.000
	00 NOT SPECIFIED	exp. 4/96						
02006AB	ORANGES-PULP	0.020	P	0.003007	0.752	0.00200	0.000300	0.075
	10 RAW-FRESH OR NFS	exp. 4/96				0.00200	0.000001	0.000
	21 COOKED-NFS	exp. 4/96						

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/23/95

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Avermectin B1	Caswell #063AB	2gen reprod- rat	NOEL= 0.1200 mg/kg	Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	ADI UF -->300	OPP RfD= 0.000400	EPA RfD= 0.000400	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.	HED complete 07/11/86	HED reassess 06/12/87	HED reassess 03/30/89
	CAS No. 65195-55-3		0.00 ppm								
	A.I. CODE: 122804		0.4000 mg/kg								
	CIR No. 180.449		0.00 ppm								
		ONCO: Negative- 2 species.									

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
CROP GROUP TOTALS FOR CITRUS FRUITS:								
02006HA	ORANGES-PEEL	0.100	P	0.000014	0.004	0.01000	0.000000	0.000
	21 COOKED-NFS	exp. 4/96				0.01000	0.000001	0.000
	22 COOKED-FRESH-BAKED	exp. 4/96				0.01000	0.000000	0.000
	31 COOKED-FRESH OR CANNED	exp. 4/96				0.01000	0.000000	0.000
02006JA	ORANGES-JUICE	0.020	P	0.039410	9.853	0.00100	0.001059	0.265
	15 RAW-FRESH OR CANNED	exp. 4/96				0.00100	0.000036	0.009
	31 COOKED-FRESH OR CANNED	exp. 4/96				0.00100	0.000003	0.001
02007AA	TANGELLOS	0.020	P	0.000051	0.013	0.00100	0.000003	0.001
	10 RAW-FRESH OR NFS	exp. 4/96				0.00100	0.000009	0.002
02008AA	TANGERINES	0.020	P	0.000177	0.044	0.00100	0.000009	0.002
	10 RAW-FRESH OR NFS	exp. 4/96				0.00100	0.000000	0.000
02008JA	TANGERINE-JUICE	0.020	P	0.000003	0.001	0.00025	0.000000	0.000
	15 RAW-FRESH OR CANNED	exp. 4/96				0.00025	0.000000	0.000
CROP GROUP TOTALS FOR CITRUS FRUITS:								
		0.048248		12.062		0.001521		0.380
CROP GROUP TOTALS FOR POME FRUITS:								
04003AA	PEARS-FRESH	0.020	N	0.002449	0.612	0.00800	0.000422	0.106
	10 RAW-FRESH OR NFS					0.00800	0.000373	0.093
	31 COOKED-FRESH OR CANNED					0.00800	0.000183	0.046
	51 COOKED-CANNED					0.00800	0.000002	0.001
	62 COOKED-FRESH OR FROZEN-BAKED					0.03500	0.000006	0.002
04003DA	PEARS-DRIED	0.020	N	0.000000	0.000	0.03500	0.000001	0.000
	10 RAW-FRESH OR NFS					0.03500	0.000001	0.000
	21 COOKED-NFS					0.03500	0.000001	0.000
CROP GROUP TOTALS FOR POME FRUITS:								
		0.002449		0.612		0.000987		0.247
CROP GROUP TOTALS FOR STRAWBERRIES:								
01016AA	STRAWBERRIES	0.020	A	0.000000	0.000	0.02000	0.000484	0.121
	10 RAW-FRESH OR NFS					0.02000	0.000099	0.025
	21 COOKED-NFS					0.02000	0.000111	0.028
	70 RAW-FROZEN					0.02000	0.000111	0.028
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:								
		0.000000		0.000		0.000694		0.174
CROP GROUP TOTALS FOR BEEF-MEAT BYPRODUCTS:								
53001BA	BEEF-MEAT BYPRODUCTS	0.020	P	0.000353	0.088	0.00800	0.000131	0.033
	21 COOKED-NFS	exp. 4/96				0.00800	0.000010	0.003
	26 COOKED-FRESH-PICKLED,...	exp. 4/96				0.00800	0.000010	0.003
53001BB	BEEF(ORGAN MEATS)-OTHER	0.020	P	0.000121	0.030	0.00800	0.000041	0.010
	21 COOKED-NFS	exp. 4/96				0.00800	0.000007	0.002
	51 COOKED-CANNED	exp. 4/96				0.00800	0.000007	0.002
53001DA	BEEF-DRIED	0.020	P	0.000051	0.013	0.00200	0.000005	0.001
	21 COOKED-NFS	exp. 4/96				0.00200	0.000005	0.001

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Avermectin B1 Caswell #063AB CAS No. 65195-55-3 A.I. CODE: 122804 CFR No. 180.449		2gen reprod- rat NOEL= 0.1200 mg/kg 0.00 ppm LEL= 0.4000 mg/kg 0.00 ppm		ONCO: Negative- 2 species. Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.		ADI UF -->300 OPP RfD= 0.000400 EPA RfD= 0.000400		No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.		HED complete 07/11/86 HED reassess 06/12/87 HED reassess 03/30/89 EPA verified 04/20/89 WHO last reviewed 1992 On IRIS.	

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.020	P	0.007442	1.861	0.00600	0.000009	0.002
	10 RAW-FRESH OR NFS	exp. 4/96				0.00600	0.000890	0.223
	21 COOKED-NFS	exp. 4/96				0.00600	0.000150	0.038
	22 COOKED-FRESH-BAKED	exp. 4/96				0.00600	0.000200	0.050
	23 COOKED-FRESH-BOILED	exp. 4/96				0.00600	0.000854	0.214
	24 COOKED-FRESH-BROILED	exp. 4/96				0.00600	0.000130	0.033
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.020	P	0.000010	0.003	0.00200	0.000001	0.000
	21 COOKED-NFS	exp. 4/96				0.00800	0.000163	0.041
53001LA	BEEF(ORGAN MEATS)-LIVER	0.020	P	0.000414	0.104	0.00800	0.000002	0.001
	25 COOKED-FRESH-FRIED	exp. 4/96				0.00200	0.000000	0.000
	31 COOKED-FRESH OR CANNED	exp. 4/96				0.00200	0.001384	0.346
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.020	P	0.023240	5.810	0.00200	0.000095	0.024
	10 RAW-FRESH OR NFS	exp. 4/96				0.00200	0.000147	0.037
	21 COOKED-NFS	exp. 4/96				0.00200	0.000697	0.174
	22 COOKED-FRESH-BAKED	exp. 4/96						
	23 COOKED-FRESH-BOILED	exp. 4/96						
	24 COOKED-FRESH-BROILED	exp. 4/96						
CROP GROUP TOTALS FOR RED MEAT:				0.031631	7.908		0.004916	1.229
50000DB	MILK-NON-FAT SOLIDS	0.005	P	0.035564	8.891	0.00100	0.005704	1.426
	10 RAW-FRESH OR NFS	exp. 4/96				0.00100	0.001156	0.289
	21 COOKED-NFS	exp. 4/96				0.00100	0.000253	0.063
50000FA	MILK-FAT SOLIDS	0.005	P	0.016918	4.230	0.00100	0.002664	0.666
	10 RAW-FRESH OR NFS	exp. 4/96				0.00100	0.000710	0.178
	21 COOKED-NFS	exp. 4/96				0.00100	0.000010	0.003
50000SA	MILK SUGAR (LACTOSE)	0.005	P	0.000187	0.047	0.00025	0.000000	0.000
	21 COOKED-NFS	exp. 4/96				0.00025	0.000009	0.002
	51 COOKED-CANNED	exp. 4/96						
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				0.052669	13.167		0.010506	2.627

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/23/95

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
Avermectin B1	2gen reprod- rat	Incr retinal folds in weanlings, decr viability & lactation indices; decr pup body wt; incr of dead pups at birth. No evidence of oncogenicity.	ADI UF -->300 OPP RfD= 0.0004/00 EPA RfD= 0.0004/00	No data gaps. UF of 300 due pup deaths in critical study & maternal developmental toxicity in teratology studies. Mouse teratogen.	HED complete 07/11/86 HED reassess 06/12/87 HED reassess 03/30/89 EPA verified 04/20/89 WHO last reviewed 1992 On IRIS.		
Caswell #063AB	NOEL= 0.1200 mg/kg						
CAS No. 65195-55-3	LEL= 0.4000 mg/kg						
A.I. CODE: 122804	0.00 ppm						
CFR No. 180.449	ONCO: Negative- 2 species.						

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
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GRAND TOTALS FOR U.S. POPULATION - 48 STATES

0.157221

39.305

0.022624

5.656

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

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TOLERANCE ASSESSMENT SUMMARY FOR Avermectin B1
USING ANTICIPATED RESIDUES
CASWELL #063AB

DATE: 01/23/95

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000018	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	4.483	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.247	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000019	MG/KG/DAY
THE NEW ARC WILL OCCUPY	4.729	% OF THE ADI.
OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE		
CURRENT NEW PETITION HAVE AN ARC OF:	0.000004	MG/KG/DAY
THIS ARC WILL OCCUPY	0.927	% OF THE ADI.
IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE		
CURRENT NEW PETITION) ARE GRANTED		
THE RESULTANT ARC WILL BE:	0.000023	MG/KG/DAY
THE TOTAL ARC WILL OCCUPY	5.656	% OF THE ADI.

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18:38 Saturday, January 21, 1995

A vertical strip of 15 small, square, black-and-white images, each showing a different pattern of asterisks arranged in a grid-like fashion, likely representing a sequence of data points or a specific pattern in a larger context.

51 COOKED-CANNED
50000SA MILK SUGAR (LACTOSE)
21 COOKED-NFS
51 COOKED-CANNED

MENU CATEGORY 5: MILK: FAT SOLIDS

3.51	0.0040	0.029497
0.01	0.0010	0.000104
0.56	0.0010	0.006914

50000FA MILK-FAT SOLIDS

DETAILED ACUTE ANALYSIS INCLUDING AR/S: ALL STATISTICS BASED ON USER'S DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 3

NAME: AVERMECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
*CASWELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B C
*STATUS CODES:
*RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

AR DATA: No User Modifications

: FOOD FORM CONTRIBUTION
: TO EXPOSURE
: (UG/KG BODY WT PER DAY)

POPULATION = U.S. POP.-48 STATES

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA : VALUE : (PPM)	: AR DATA : VALUE : (PPM)	: DAILY : MAXIMUM ANTICIPATED : RESIDUE : (INCL. AR)
10	RAW-FRESH OR NFS	81.63	0.0040	0.0040	0.013168
21	COOKED-NFS	90.30	0.0040	0.0040	0.003183
51	COOKED-CANNED	3.51	0.0040	0.0040	0.001174

MENU CATEGORY 6: GRAINS(EXCL. RICE), SOYBEANS, VEG. OILS

270030A	COTTONSEED-OIL	96.70	0.0006	0.0006	0.000013
18	PROCESSED OIL				
270030A	COTTONSEED-MEAL	1.13	0.0050	0.0050	0.000052
18	PROCESSED OIL				

MENU CATEGORY 8: TOMATOES

11005AA	TOMATOES-WHOLE	24.82	0.0100	0.0100	0.010095
10	RAW-FRESH OR NFS	12.52	0.0100	0.0100	0.015736
21	COOKED-NFS	7.28	0.0100	0.0100	0.006600
11005JA	TOMATOES-JUICE	0.07	0.0021 C	0.0021 C	0.005662
10	RAW-FRESH OR NFS	1.73	0.0021 C	0.0021 C	0.006628
21	COOKED-NFS				
11005RA	TOMATOES-PUREE	0.04	0.0040 C	0.0040 C	0.000551
10	RAW-FRESH OR NFS	6.61	0.0040 C	0.0040 C	0.005820
21	COOKED-NFS	3.60	0.0040 C	0.0040 C	0.001821
31	COOKED-FRESH OR CANNED	3.73	0.0040 C	0.0040 C	0.002397
51	COOKED-FRESH OR CANNED-BAKED	1.38	0.0040 C	0.0040 C	0.010607

51 COOKED-CANNED 3.51 : 0.0040 : 0.029497
 50000SA MILK SUGAR (LACTOSE) : : :
 21 COOKED-NFS 0.01 : 0.0010 : 0.000104
 51 COOKED-CANNED 0.56 : 0.0010 : 0.006914

MENU CATEGORY 5: MILK: FAT SOLIDS

50000FA MILK-FAT SOLIDS

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 3

 NAME: AVERNECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CASSELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic *
 *CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B C *
 *STATUS CODES: *
 *RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications

 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = U.S. POP.--48 STATES

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : : DAYS AS PERCENT OF : : POTENTIAL PERSON DAYS :	: TOLERANCE DATA : : VALUE : : (PPM) TYPE :	: AR DATA : : VALUE : : (PPM) REF. : : (EXCL. AR) :	: DAILY : : MAXIMUM : : RESIDUE : : (INCL. AR) :	: DAILY : : ANTICIPATED : : RESIDUE : : (INCL. AR) :
10 RAW-FRESH OR NFS		81.63		0.0040		0.013168
21 COOKED-NFS		90.30		0.0040		0.003183
51 COOKED-CANNED		3.51		0.0040		0.001174
MENU CATEGORY 6: GRAINS(EXCL. RICE), SOYBEANS, VEG. OILS						
270030A COTTONSEED-OIL		96.70		0.0006		0.000013
18 PROCESSED OIL						
270030A COTTONSEED-MEAL				0.0050		0.000052
18 PROCESSED OIL		1.13				
MENU CATEGORY 8: TOMATOES						
11005AA TOMATOES-WHOLE		24.82		0.0100		0.010095
10 RAW-FRESH OR NFS		12.52		0.0100		0.015736
21 COOKED-NFS		7.28		0.0100		0.006600
31 COOKED-FRESH OR CANNED						
11005JA TOMATOES-JUICE		0.07		0.0021 C		0.005662
10 RAW-FRESH OR NFS		1.73		0.0021 C		0.006628
21 COOKED-NFS						
11005RA TOMATOES-PUREE		0.04		0.0040 C		0.000551
10 RAW-FRESH OR NFS		6.61		0.0040 C		0.005820
21 COOKED-NFS		3.60		0.0040 C		0.001821
31 COOKED-FRESH OR CANNED		3.73		0.0040 C		0.002397
32 COOKED-FRESH OR CANNED-BAKED		1.38		0.0040 C		0.010607
51 COOKED-CANNED						

110051A TOMATOES-PASTE

21 COOKED-NFS
22 COOKED-FRESH-BAKED
31 COOKED-FRESH OR CANNED

11005UA TOMATOES-CAISUP

21 COOKED-NFS

13002AA CELERY

10 RAW-FRESH OR NFS
21 COOKED-NFS

13016AA FENNEL

00 NOT SPECIFIED (NO CONSUMPTION)

13045AA LETTUCE-HEAD VARIETIES

10 RAW-FRESH OR NFS

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

*NAME: AVERNECTIN

*CASSELL NO: 063AB CFR NO: CFR A 00000.0012

*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B C

*STATUS CODES:

*RDV INFO: The LD value used in this analysis is .0001 Mg/Kg of BODY WEIGHT/DAY

*FILE INFO: No Tolerance Data Are Used--Without User Modifications.

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY, MENU PATTERN = 1

AR DATA: No User Modifications*

CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

FOOD FORM CONTRIBUTION
TO EXPOSURE
(UG/KG BODY WT PER DAY)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA VALUE (PPM) TYPE	AR DATA VALUE (PPM) REF.	DAILY MAXIMUM RESIDUE (INCL. AR)	DAILY ANTICIPATED RESIDUE
21	COOKED-NFS	3.36	0.0500			0.006023

MENU CATEGORY 10: FRUITS

01016AA STRAWBERRIES

10 RAW-FRESH OR NFS
21 COOKED-NFS
70 RAW-FROZEN

02001AA CITRUS CITRON

22 COOKED-FRESH-BAKED

02002AA GRAPEFRUIT-UNSPECIFIED

00 NOT SPECIFIED (NO CONSUMPTION)

02002AB GRAPEFRUIT-PULP

10 RAW-FRESH OR NFS

21 COOKED-NFS

02002JA GRAPEFRUIT-JUICE

15 RAW-FRESH OR CANNED

31 COOKED-FRESH OR CANNED

2.10	0.0200	0.023168
12.05	0.0200	0.000845
0.81	0.0200	0.013968
0.20	0.0170	0.001253
0.00	0.0170	0.000000
2.61	0.0100	0.026498
0.01	0.0100	0.010263
2.04	0.0170 C	0.062782
0.10	0.0170 C	0.044933

02003AA KUMQUATS	10 RAW-FRESH OR NFS	0.00	:	:	0.0240	:	:	0.045561
02004AA LEMONS-UNSPECIFIED	10 RAW-FRESH OR NFS	0.64	:	:	0.0500	:	:	0.015059
22 COOKED-FRESH-BAKED		0.21	:	:	0.0500	:	:	0.001837
02004AB LEMONS-PULP	10 RAW-FRESH OR NFS	0.03	:	:	0.0100	:	:	0.004639
31 COOKED-FRESH OR CANNED		0.32	:	:	0.0100	:	:	0.000300
02004HA LEMONS-PEEL	10 RAW-FRESH OR NFS	0.17	:	:	0.0500	:	:	0.007147
21 COOKED-NFS		0.96	:	:	0.0500	:	:	0.000121
02004JA LEMONS-JUICE	10 RAW-FRESH OR NFS	4.77	:	:	0.0050 C	:	:	0.000439
15 RAW-FRESH OR CANNED		0.67	:	:	0.0050 C	:	:	0.002069
21 COOKED-NFS		12.29	:	:	0.0050 C	:	:	0.000263
31 COOKED-FRESH OR CANNED		2.39	:	:	0.0050 C	:	:	0.001223
02005AA LIMES-UNSPECIFIED	00 NOT SPECIFIED (NO CONSUMPTION)	0.00	:	:	0.0500	:	:	0.000000
02005AB LIMES-PULP	10 RAW-FRESH OR NFS	0.02	:	:	0.0100	:	:	0.004049
02005HA LIMES-PEEL	21 COOKED-NFS	0.00	:	:	0.0500	:	:	0.000068
02005JA LIMES-JUICE	10 RAW-FRESH OR NFS	0.22	:	:	0.0050 C	:	:	0.005273
DETAILED ACUTE ANALYSIS INCLUDING AR/S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 5								

*NAME: AVERMECTIN	STUDY	RDV	MOEL	SF	STUDY TYPE	SPECIES	EFF. LEV.	CORE GRADE
CASWELL NO: 063AB	CFR NO: CFR	A	00000.0012	000100	Reproductn	Rat	Systemic	DOC. NO.
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804	B							
*STATUS CODES:								
*RDV INFO: The LD value used in this analysis is .0001	MG/KG of BODY WEIGHT/DAY							
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.								

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1								
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)								
POPULATION = U.S. POP.--48 STATES								
FOOD	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER	:	:	: TOLERANCE DATA	: AR DATA	:	:
CODE		: DAYS AS PERCENT OF	:	:	: VALUE	: VALUE	:	:
		: POTENTIAL PERSON DAYS	:	:	: SORC (PPM) TYPE	: (PPM) REF.	:	:
			:	:		: (EXCL. AR)	:	:
			:	:		: (INCL. AR)	:	:
15 RAW-FRESH OR CANNED		0.04	:	:	0.0050 C	:	:	0.008024
31 COOKED-FRESH OR CANNED		0.04	:	:	0.0050 C	:	:	0.001323
02006AA ORANGES-UNSPECIFIED		0.00	:	:	0.0500	:	:	0.000000
00 NOT SPECIFIED (NO CONSUMPTION)			:	:		:	:	
02006AB ORANGES-PULP		5.15	:	:	0.0100	:	:	0.029265
10 RAW-FRESH OR NFS		0.35	:	:	0.0100	:	:	0.001084
21 COOKED-NFS		0.10	:	:	0.0500	:	:	0.000271
02006HA ORANGES-PEEL		1.68	:	:	0.0500	:	:	0.000289
21 COOKED-NFS			:	:		:	:	
22 COOKED-FRESH-BAKED			:	:		:	:	

AR DATA: No User Modifications*

: FOOD FORM CONTRIBUTION
: TO EXPOSURE
: (UG/KG BODY WT PER DAY)

31	COOKED-FRESH OR CANNED	0.32	:	0.0500	:	0.000585
02006JA	ORANGES- JUICE	:	:	:	:	:
15	RAW-FRESH OR CANNED	23.14	:	0.0050 C	:	0.022956
31	COOKED-FRESH OR CANNED	1.65	:	0.0050 C	:	0.010873
02007AA	TANGELLOS	:	:	:	:	:
10	RAW-FRESH OR NFS	0.10	:	0.0200	:	0.051961
02008AA	TANGERINES	:	:	:	:	:
10	RAW-FRESH OR NFS	0.50	:	0.0200	:	0.035021
02008JA	TANGERINE- JUICE	:	:	:	:	:
15	RAW-FRESH OR CANNED	0.00	:	0.0050 C	:	0.009833
04003AA	PEARS-FRESH	:	:	:	:	:
10	RAW-FRESH OR NFS	1.66	:	0.0200	:	0.064049
31	COOKED-FRESH OR CANNED	3.45	:	0.0200	:	0.027363
51	COOKED-CANNED	0.24	:	0.0200	:	0.190700
62	COOKED-FRESH OR FROZEN-BAKED	0.02	:	0.0200	:	0.027022
04003DA	PEARS-DRIED	:	:	:	:	:
10	RAW-FRESH OR NFS	0.01	:	0.0880	:	0.194990
21	COOKED-NFS	0.00	:	0.0880	:	0.232308
ALL STATISTICS BASED ON USDEPT. DAILY CONSUMPTION						
18-78, Saturday, January 21, 1995, 6						

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

*NAME: AVERNECTIN
*CASHELL NO: 063AB CFR NO: CFR A 00000.0012
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B
*STATUS CODES: C
*RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 11
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

AR DATA: No User Modifications*

POPULATION = INFANTS(<1 YEAR)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA : VALUE : (PPM)	: AR DATA : VALUE : (PPM)	: REF. : (EXCL. AR) : (INCL. AR)	: DAILY : MAXIMUM : RESIDUE	: DAILY : ANTICIPATED : RESIDUE
MENU CATEGORY 1: MEATS							
53001BA BEEF-MEAT BYPRODUCTS							
21	COOKED-NFS	1.04	0.0200	0.0200	:	0.020308	
26	COOKED-FRESH-PICKLED, CORNED, OR CURED	0.00	0.0200	0.000000	:	0.000000	
53001BB BEEF(ORGAN MEATS)-OTHER							
21	COOKED-NFS	0.80	0.0200	0.009844	:	0.009844	
51	COOKED-CANNED	0.17	0.0200	0.019039	:	0.019039	
53001DA BEEF-DRIED							
21	COOKED-NFS	0.00	0.0020	0.000000	:	0.000000	
53001FA BEEF(BONELESS)-FAT (BEEF TALLOW)							
10	RAW-FRESH OR NFS	4.62	0.0140	0.000152	:	0.000152	
22	COOKED-NFS	34.18	0.0140	0.004489	:	0.004489	
22	COOKED-FRESH-BAKED	13.37	0.0140	0.001226	:	0.001226	
23	COOKED-FRESH-BOILED	2.69	0.0140	0.008868	:	0.008868	

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24 COOKED-FRESH-BROILED 1.93 : 0.0140 : 0.016094
25 COOKED-FRESH-FRIED 5.36 : 0.0140 : 0.000702
53001KA BEEF(ORGAN MEATS)-KIDNEY : : :
21 COOKED-NFS 0.00 : 0.0050 : 0.000000
53001LA BEEF(ORGAN MEATS)-LIVER : : :
25 COOKED-FRESH-FRIED 0.11 : 0.0200 : 0.108576
31 COOKED-FRESH OR CANNED 0.32 : 0.0200 : 0.124993
53001MA BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT) : : :
10 RAW-FRESH OR NFS 0.00 : 0.0020 : 0.000000
21 COOKED-NFS 24.61 : 0.0020 : 0.007721
22 COOKED-FRESH-BAKED 1.29 : 0.0020 : 0.003797
23 COOKED-FRESH-BOILED 2.11 : 0.0020 : 0.004225

MENU CATEGORY 4: MILK: NON-FAT SOLIDS

50000DB MILK-NON-FAT SOLIDS : : :
10 RAW-FRESH OR NFS 47.64 : 0.0040 : 0.201468
21 COOKED-NFS 43.51 : 0.0040 : 0.024650
51 COOKED-CANNED 37.92 : 0.0040 : 0.174274
50000SA MILK SUGAR (LACTOSE) : : :
21 COOKED-NFS 0.00 : 0.0010 : 0.000000
51 COOKED-CANNED 36.81 : 0.0010 : 0.007056

MENU CATEGORY 5: MILK: FAT SOLIDS

50000FA MILK-FAT SOLIDS : : :
10 RAW-FRESH OR NFS 47.64 : 0.0040 : 0.201468
21 COOKED-NFS 43.51 : 0.0040 : 0.024650
51 COOKED-CANNED 37.92 : 0.0040 : 0.174274
50000SA MILK SUGAR (LACTOSE) : : :
21 COOKED-NFS 0.00 : 0.0010 : 0.000000
51 COOKED-CANNED 36.81 : 0.0010 : 0.007056
10 RAW-FRESH OR NFS 47.64 : 0.0040 : 0.201468
21 COOKED-NFS 43.51 : 0.0040 : 0.024650
51 COOKED-CANNED 37.92 : 0.0040 : 0.174274
50000SA MILK SUGAR (LACTOSE) : : :
21 COOKED-NFS 0.00 : 0.0010 : 0.000000
51 COOKED-CANNED 36.81 : 0.0010 : 0.007056

10 RAW-FRESH OR NFS 47.69 : 0.0040 : 0.071181
21 COOKED-NFS 42.95 : 0.0040 : 0.007156
51 COOKED-CANNED 37.92 : 0.0040 : 0.001440

MENU CATEGORY 8: TOMATOES

11005AA TOMATOES-WHOLE : : :
10 RAW-FRESH OR NFS 0.16 : 0.0100 : 0.018564

21 COOKED-NFS	2.07	0.0100	0.039095
31 COOKED-FRESH OR CANNED	23.79	0.0100	0.013257
11005JA TOMATOES-JUICE			
10 RAW-FRESH OR NFS	0.00	0.0021 C	0.000000
21 COOKED-NFS	0.06	0.0021 C	0.014050
11005RA TOMATOES-PUREE			
10 RAW-FRESH OR NFS	0.00	0.0040 C	0.000000
21 COOKED-NFS	0.35	0.0040 C	0.010087
31 COOKED-FRESH OR CANNED	4.65	0.0040 C	0.003748
32 COOKED-FRESH OR CANNED-BAKED	0.16	0.0040 C	0.001590
51 COOKED-CANNED	0.42	0.0040 C	0.031380
11005TA TOMATOES-PASTE			
21 COOKED-NFS	1.26	0.0120 C	0.013509
22 COOKED-FRESH-BAKED	0.17	0.0120 C	0.019490
31 COOKED-FRESH OR CANNED	0.97	0.0120 C	0.011136
11005UA TOMATOES-CATSUP			
21 COOKED-NFS	0.35	0.0110 C	0.009595

MENU CATEGORY 10: FRUITS

01016AA STRAWBERRIES								
10 RAW-FRESH OR NFS	0.16	0.0200	0.155196					
21 COOKED-NFS	0.84	0.0200	0.001348					
70 RAW-FROZEN	0.08	0.0200	0.234424					
02001AA CITRUS CITRON								
22 COOKED-FRESH-BAKED	0.00	0.0170	0.000000					
02002AA GRAPEFRUIT-UNSPECIFIED								
00 NOT SPECIFIED (NO CONSUMPTION)	0.00	0.0170	0.000000					
02002AB GRAPEFRUIT-PULP								
10 RAW-FRESH OR NFS	0.00	0.0100	0.000000					
21 COOKED-NFS	0.00	0.0100	0.000000					
02002JA GRAPEFRUIT-JUICE								
15 RAW-FRESH OR CANNED	0.48	0.0170 C	0.322498					
31 COOKED-FRESH OR CANNED	0.00	0.0170 C	0.000000					

DETAILED ACUTE ANALYSIS INCLUDING AR/S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

NAME: AVERMECTIN	STUDY	RDV	NOEL	SF	STUDY TYPE	SPECIES	EFF. LEV.	CORE GRADE	DOC. NO.
*CASWELL NO: 063AB	CFR NO: CFR	A	00000.0012	000100	Reproductn	Rat	Systemic		
*CAS NO: 65195-55-3	SHAUGHNESSY NO: 122804	B							
*STATUS CODES:		C							

*RDV INFO: The LD value used in this analysis is .0001

*FILE INFO: No Tolerance Data Are Used-Without User Modifications.

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 11

CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = INFANTS(<1 YEAR)

AR DATA: No User Modifications*

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	VALUE : SORC (PPM) TYPE	AR DATA : VALUE (PPM) REF.	DAILY : MAXIMUM ANTICIPATED : RESIDUE	DAILY : DAILY : RESIDUE

CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = INFANTS(<1 YEAR)

TO EXPOSURE
(UG/KG BODY WT PER DAY)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA VALUE	AR DATA VALUE	DAILY MAXIMUM ANTICIPATED RESIDUE (EXCL. AR)	DAILY RESIDUE (INCL. AR)
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02008JA	TANGERINE-JUICE					
15	RAW-FRESH OR CANNED	0.00		0.0050 C		0.000000
04003AA	PEARS-FRESH					
10	RAW-FRESH OR NFS	0.94		0.0200		0.18439
31	COOKED-FRESH OR CANNED	2.69		0.0200		0.112491
51	COOKED-CANNED	10.09		0.0200		0.262234
62	COOKED-FRESH OR FROZEN-BAKED	0.00		0.0200		0.000000
04003DA	PEARS-DRIED					
10	RAW-FRESH OR NFS	0.00		0.0880		0.000000
21	COOKED-NFS	0.00		0.0880		0.000000

MENU CATEGORY 22: OTHER VEGETABLES, EXCL. BRASSICA

13002AA	CELERY					
10	RAW-FRESH OR NFS	0.39		0.0350		0.022545
21	COOKED-NFS	1.29		0.0350		0.043216
13016AA	FENNEL					
00	NOT SPECIFIED (NO CONSUMPTION)	0.00		0.0350		0.000000
13045AA	LETTUCE-HEAD VARIETIES					
10	RAW-FRESH OR NFS	0.00		0.0500		0.000000
21	COOKED-NFS	0.00		0.0500		0.000000

MENU CATEGORY 25: GRAINS AND STARCHY VEGETABLES

270030A	COTTONSEED-OIL					
18	PROCESSED OIL	27.79		0.0006		0.000010
27003MA	COTTONSEED-MEAL					
18	PROCESSED OIL	2.72		0.0050		0.000116

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

18:38 Saturday, January 21, 1995 10

*NAME: AVERNECTIN
*CASSELL NO: 063AB CFR NO: CFR
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B
*STATUS CODES:
*RDV INFO: The LD value used in this analysis is .0001
*FILE INFO: No Tolerance Data Are Used-Without User Modifications.

MG/KG of BODY WEIGHT/DAY
AR DATA: No User Modifications*
FOOD FORM CONTRIBUTION
TO EXPOSURE
(UG/KG BODY WT PER DAY)

POPULATION = CHILDREN(1-6 YRS)

FOOD	NUMBER OF CONSUMER DAYS AS PERCENT OF	TOLERANCE DATA VALUE	AR DATA VALUE	DAILY MAXIMUM ANTICIPATED RESIDUE	DAILY RESIDUE
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24

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Y CONSUMPTION 18:38 Saturday

Reproductive	Systemic
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AR DATA

ions*

 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = III
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = CHILDREN(1-6 YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA		: AR DATA		: FOOD FORM CONTRIBUTION TO EXPOSURE (UG/KG BODY WT PER DAY)	
			: VALUE	: TYPE	: VALUE (PPM)	: REF. (EXCL. AR)	: DAILY MAXIMUM ANTICIPATED RESIDUE (INCL. AR)	: DAILY

MENU CATEGORY 6: GRAINS(EXCL. RICE), SOYBEANS, VEG. OILS

270030A	COTTONSEED-OIL							
18	PROCESSED OIL	97.51			0.0006		0.000022	
270030A	COTTONSEED-MEAL							
18	PROCESSED OIL	3.16			0.0050		0.000081	

MENU CATEGORY 8: TOMATOES

11005AA	TOMATOES-WHOLE							
10	RAW-FRESH OR NFS	11.71			0.0100		0.019728	
21	COOKED-NFS	14.31			0.0100		0.031083	
31	COOKED-FRESH OR CANNED	9.92			0.0100		0.013132	
11005JA	TOMATOES-JUICE							
10	RAW-FRESH OR NFS	0.00			0.0021 C		0.000000	
21	COOKED-NFS	0.31			0.0021 C		0.026250	
11005RA	TOMATOES-PUREE							
10	RAW-FRESH OR NFS	0.04			0.0040 C		0.001185	
21	COOKED-NFS	6.39			0.0040 C		0.010836	
31	COOKED-FRESH OR CANNED	4.60			0.0040 C		0.003603	
32	COOKED-FRESH OR CANNED-BAKED	3.51			0.0040 C		0.004051	
51	COOKED-CANNED	1.75			0.0040 C		0.021791	
11005TA	TOMATOES-PASTE							
21	COOKED-NFS	9.52			0.0120 C		0.009452	
22	COOKED-FRESH-BAKED	0.63			0.0120 C		0.013161	
31	COOKED-FRESH OR CANNED	3.05			0.0120 C		0.007217	
11005UA	TOMATOES-CATSUP							
21	COOKED-NFS	12.28			0.0110 C		0.009673	

MENU CATEGORY 10: FRUITS

01016AA	STRAWBERRIES							
10	RAW-FRESH OR NFS	1.24			0.0200		0.061042	
21	COOKED-NFS	16.14			0.0200		0.001311	
70	RAW-FROZEN	0.75			0.0200		0.034728	
02001AA	CITRUS CITRON							
22	COOKED-FRESH-BAKED	0.03			0.0170		0.008459	
02002AA	GRAPEFRUIT-UNSPECIFIED							

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 12

NAME: AVERNECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
*CASSELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic *
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B *
*STATUS CODES: C *
RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY AR DATA: No User Modifications
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.*****

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 111
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = CHILDREN(1-6 YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : : DAYS AS PERCENT OF : : POTENTIAL PERSON DAYS :	: TOLERANCE DATA : : VALUE : : (PPM) TYPE :	AR DATA : : VALUE : : (PPM) REF. :	: DAILY : : MAXIMUM : : RESIDUE : : (EXCL. AR) : : (INCL. AR) :
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	:	0.0170	0.000000
02002AB	GRAPEFRUIT-PULP	:	:	:	:
10	RAW-FRESH OR NFS	0.49	:	0.0100	0.091058
21	COOKED-NFS	0.00	:	0.0100	0.000000
02002JA	GRAPEFRUIT-JUICE	:	:	:	:
15	RAW-FRESH OR CANNED	0.55	:	0.0170 C	0.189212
31	COOKED-FRESH OR CANNED	0.11	:	0.0170 C	0.127447
02003AA	KUMQUATS	:	:	:	:
10	RAW-FRESH OR NFS	0.00	:	0.0240	0.000000
02004AA	LEMONS-UNSPECIFIED	:	:	:	:
10	RAW-FRESH OR NFS	0.31	:	0.0500	0.059719
22	COOKED-FRESH-BAKED	0.28	:	0.0500	0.004751
02004AB	LEMONS-PULP	:	:	:	:
10	RAW-FRESH OR NFS	0.00	:	0.0100	0.000000
31	COOKED-FRESH OR CANNED	0.09	:	0.0100	0.001722
02004HA	LEMONS-PEEL	:	:	:	:
10	RAW-FRESH OR NFS	0.04	:	0.0500	0.001997
21	COOKED-NFS	0.79	:	0.0500	0.000166
02004JA	LEMONS-JUICE	:	:	:	:
10	RAW-FRESH OR NFS	3.56	:	0.0050 C	0.000577
15	RAW-FRESH OR CANNED	0.19	:	0.0050 C	0.004740
21	COOKED-NFS	6.26	:	0.0050 C	0.000607
31	COOKED-FRESH OR CANNED	2.18	:	0.0050 C	0.002640
02005AA	LIMES-UNSPECIFIED	:	:	:	:
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	:	0.0500	0.000000
02005AB	LIMES-PULP	:	:	:	:
10	RAW-FRESH OR NFS	0.00	:	0.0100	0.000000
02005HA	LIMES-PEEL	:	:	:	:
21	COOKED-NFS	0.00	:	0.0500	0.000000
02005JA	LIMES-JUICE	:	:	:	:
10	RAW-FRESH OR NFS	0.10	:	0.0050 C	0.000231
15	RAW-FRESH OR CANNED	0.02	:	0.0050 C	0.070677
31	COOKED-FRESH OR CANNED	0.02	:	0.0050 C	0.003498
02006AA	ORANGES-UNSPECIFIED	:	:	:	:

00 NOT SPECIFIED (NO CONSUMPTION)

02006AB ORANGES-PULP

10 RAW-FRESH OR NFS

21 COOKED-NFS

02006HA ORANGES-PEEL

21 COOKED-NFS

22 COOKED-FRESH-BAKED

31 COOKED-FRESH OR CANNED

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

*NAME: AVERNECTIN

*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B

*STATUS CODES:

*RDV INFO: The LD value used in this analysis is .0001

*FILE INFO: No Tolerance Data Are Used--Without User Modifications.

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 111

CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = CHILDREN(1-6 YRS)

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10 RAW-FRESH OR NFS
21 COOKED-NFS
51 COOKED-CANNED
50000A MILK SUGAR (LACTOSE)
21 COOKED-NFS
51 COOKED-CANNED

MENU CATEGORY 5: MILK: FAT SOLIDS

74.37	0.0040	0.015532
88.84	0.0040	0.003548
3.00	0.0040	0.001623
0.01	0.0010	0.000045
0.00	0.0010	0.000000

50000FA MILK-FAT SOLIDS
DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

18:38 Saturday, January 21, 1995 15

NAME: AVERNECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
*CASWELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B C
*STATUS CODES:
*RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
*FILE INFO: No tolerance Data Are Used--Without User Modifications.
AR DATA: No User Modifications
*FOOD FORM CONTRIBUTION TO EXPOSURE (UG/KG BODY WT PER DAY)

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = FEMALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	TOLERANCE DATA : VALUE (PPM) TYPE (PPM) REF. (EXCL. AR)	AR DATA : VALUE (PPM) REF. (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
10	RAW-FRESH OR NFS	77.74	0.0040	0.0040	0.007783
21	COOKED-NFS	88.74	0.0040	0.0040	0.002241
51	COOKED-CANNED	3.00	0.0040	0.0040	0.000975

MENU CATEGORY 6: GRAINS(EXCL. RICE), SOYBEANS, VEG. OILS

270030A COTTONSEED-OIL
18 PROCESSED OIL
270030A COTTONSEED-MEAL
18 PROCESSED OIL

MENU CATEGORY 8: TOMATOES

11005AA TOMATOES-WHOLE
10 RAW-FRESH OR NFS
21 COOKED-NFS
31 COOKED-FRESH OR CANNED
11005JA TOMATOES-JUICE
10 RAW-FRESH OR NFS
21 COOKED-NFS
11005RA TOMATOES-PUREE
10 RAW-FRESH OR NFS
21 COOKED-NFS
31 COOKED-FRESH OR CANNED

32 COOKED-FRESH OR CANNED-BAKED 3.30 : 0.0040 C : 0.001932
 51 COOKED-CANNED 1.45 : 0.0040 C : 0.008179
 11005TA TOMATOES-PASTE : : : :
 21 COOKED-NFS 8.91 : 0.0120 C : 0.002493
 22 COOKED-FRESH-BAKED 0.68 : 0.0120 C : 0.006697
 31 COOKED-FRESH OR CANNED 1.78 : 0.0120 C : 0.002667
 11005UA TOMATOES-CATSUP : : : :
 21 COOKED-NFS 9.57 : 0.0110 C : 0.002951

MENU CATEGORY 9: OTHER VEGETABLES, INCL. BRASSICA

13002AA CELERY : : : :
 10 RAW-FRESH OR NFS 22.60 : 0.0350 : 0.007746
 21 COOKED-NFS 5.07 : 0.0350 : 0.008083
 13016AA FENNEL : : : :
 00 NOT SPECIFIED (NO CONSUMPTION) 0.00 : 0.0350 : 0.000000
 13045AA LETTUCE-HEAD VARIETIES : : : :
 10 RAW-FRESH OR NFS 32.45 : 0.0500 : 0.036657

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 16

 NAME: AVERNECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CASWELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic *
 *CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B *
 *STATUS CODES: C
 *RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data are Used--Without User Modifications.

 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

 AR DATA: No User Modifications
 FOOD FORM CONTRIBUTION TO EXPOSURE (UG/KG BODY WT PER DAY)

POPULATION = FEMALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA : VALUE : AR DATA : DAILY MAXIMUM ANTICIPATED RESIDUE (EXCL. AR) (INCL. AR)
21	COOKED-NFS	2.84	0.0500 0.004935

MENU CATEGORY 10: FRUITS

01016AA STRAWBERRIES : : : :
 10 RAW-FRESH OR NFS 2.04 : 0.0200 : 0.021589
 21 COOKED-NFS 10.57 : 0.0200 : 0.000792
 70 RAW-FROZEN 0.88 : 0.0200 : 0.010676
 02001AA CITRUS CITRON : : : :
 22 COOKED-FRESH-BAKED 0.21 : 0.0170 : 0.001294
 02002AA GRAPEFRUIT-UNSPECIFIED : : : :
 00 NOT SPECIFIED (NO CONSUMPTION) 0.00 : 0.0170 : 0.000000
 02002AB GRAPEFRUIT-PULP : : : :
 10 RAW-FRESH OR NFS 3.59 : 0.0100 : 0.025983
 21 COOKED-NFS 0.01 : 0.0100 : 0.010881
 02002JA GRAPEFRUIT-JUICE : : : :

15	RAW-FRESH OR CANNED	2.78	:	0.0170 C	:	0.060648
31	COOKED-FRESH OR CANNED	0.09	:	0.0170 C	:	0.032882
02003AA	KUMQUATS	:	:	:	:	:
10	RAW-FRESH OR NFS	0.00	:	0.0240	:	0.015403
02004AA	LEMONS-UNSPECIFIED	:	:	:	:	:
10	RAW-FRESH OR NFS	0.82	:	0.0500	:	0.013290
22	COOKED-FRESH-BAKED	0.20	:	0.0500	:	0.001357
02004AB	LEMONS-PULP	:	:	:	:	:
10	RAW-FRESH OR NFS	0.05	:	0.0100	:	0.004816
31	COOKED-FRESH OR CANNED	0.34	:	0.0100	:	0.000251
02004HA	LEMONS-PEEL	:	:	:	:	:
10	RAW-FRESH OR NFS	0.24	:	0.0500	:	0.008206
21	COOKED-NFS	0.97	:	0.0500	:	0.000124
02004JA	LEMONS-JUICE	:	:	:	:	:
10	RAW-FRESH OR NFS	5.51	:	0.0050 C	:	0.000481
15	RAW-FRESH OR CANNED	0.95	:	0.0050 C	:	0.002299
21	COOKED-NFS	14.21	:	0.0050 C	:	0.000243
31	COOKED-FRESH OR CANNED	2.40	:	0.0050 C	:	0.000982
02005AA	LIMES-UNSPECIFIED	:	:	:	:	:
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	:	0.0500	:	0.000000
02005AB	LIMES-PULP	:	:	:	:	:
10	RAW-FRESH OR NFS	0.03	:	0.0100	:	0.003146
02005HA	LIMES-PEEL	:	:	:	:	:
21	COOKED-NFS	0.00	:	0.0500	:	0.000071
02005JA	LIMES-JUICE	:	:	:	:	:
10	RAW-FRESH OR NFS	0.31	:	0.0050 C	:	0.004696
DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 17						

*NAME:	AVERNECTIN	STUDY	RDV	NOEL	SF	STUDY TYPE
*CASWELL NO:	063AB	CFR NO:	CFR	A	000000.0012	000100 Reproductn
*CAS NO:	65195-55-3	SHAUGHNESSY NO:	122804	B		
*STATUS CODES:						
*RDV INFO:	The LD value used in this analysis is .0001	MG/KG	of BODY WEIGHT/DAY			
*FILE INFO:	No Tolerance Data Are Used--Without User Modifications.					

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1						
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)						
POPULATION = FEMALES(13+ YRS)						

FOOD	FOOD AND FOOD FORM DESCRIPTION	:	NUMBER OF CONSUMER	:	TOLERANCE DATA	:
CODE	:	:	DAYS AS PERCENT OF	:	VALUE	:
:	:	:	POTENTIAL PERSON DAYS	:	SORC (PPM) TYPE	:
:	:	:	:	:	VALUE (PPM) REF.	:
:	:	:	:	:	(EXCL. AR)	:
:	:	:	:	:	(INCL. AR)	:
15	RAW-FRESH OR CANNED	0.07	:	0.0050 C	:	0.003716
31	COOKED-FRESH OR CANNED	0.05	:	0.0050 C	:	0.000842
02006AA	ORANGES-UNSPECIFIED	:	:	:	:	:
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	:	0.0500	:	0.000000
02006AB	ORANGES-PULP	:	:	:	:	:
10	RAW-FRESH OR NFS	5.10	:	0.0100	:	0.022574
21	COOKED-NFS	0.36	:	0.0100	:	0.001223
02006HA	ORANGES-PEEL	:	:	:	:	:

21 COOKED-NFS	0.10	:	0.0500	:	0.000265
22 COOKED-FRESH-BAKED	1.33	:	0.0500	:	0.000197
31 COOKED-FRESH OR CANNED	0.34	:	0.0500	:	0.000489
02006JA ORANGES- JUICE		:		:	
15 RAW-FRESH OR CANNED	22.81	:	0.0050 C	:	0.016870
31 COOKED-FRESH OR CANNED	1.12	:	0.0050 C	:	0.003348
02007AA TANGELOS		:		:	
10 RAW-FRESH OR NFS	0.12	:	0.0200	:	0.036027
02008AA TANGERINES		:		:	
10 RAW-FRESH OR NFS	0.50	:	0.0200	:	0.026851
02008JA TANGERINE- JUICE		:		:	
15 RAW-FRESH OR CANNED	0.01	:	0.0050 C	:	0.006516
04003AA PEARS-FRESH		:		:	
10 RAW-FRESH OR NFS	1.62	:	0.0200	:	0.051264
31 COOKED-FRESH OR CANNED	3.02	:	0.0200	:	0.020949
51 COOKED-CANNED	0.04	:	0.0200	:	0.018830
62 COOKED-FRESH OR FROZEN-BAKED	0.02	:	0.0200	:	0.017329
04003DA PEARS-DRIED		:		:	
10 RAW-FRESH OR NFS	0.01	:	0.0880	:	0.207835
21 COOKED-NFS	0.00	:	0.0880	:	0.000000

DETAILED ACUTE ANALYSIS INCLUDING AR/S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 18

NAME: AVERNECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
*CASSELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic *
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B C *
*STATUS CODES: *
RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY AR DATA: No User Modifications
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.*****
LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)
POPULATION = MALES(13+ YRS)

POPULATION = MALES(13+ YRS)									
FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA : VALUE : VALUE : AR DATA : DAILY : DAILY : MAXIMUM ANTICIPATED RESIDUE (EXCL. AR) (INCL. AR)						

MENU CATEGORY 1: MEATS									

53001BA BEEF-MEAT BYPRODUCTS									
21 COOKED-NFS		8.71	:	0.0200	:	0.003344			
26 COOKED-FRESH-PICKLED, CORNED, OR CURED		1.23	:	0.0200	:	0.002213			
53001BB BEEF(ORGAN MEATS)-OTHER									
21 COOKED-NFS		8.99	:	0.0200	:	0.001056			
51 COOKED-CANNED		0.24	:	0.0200	:	0.005927			
53001DA BEEF-DRIED									
21 COOKED-NFS		0.28	:	0.0020	:	0.001757			
53001FA BEEF(BONELESS)-FAT (BEEF TALLOW)									
10 RAW-FRESH OR NFS		29.04	:	0.0140	:	0.000064			
21 COOKED-NFS		89.35	:	0.0140	:	0.002142			

22 COOKED-FRESH-BAKED	55.59	0.0140	0.000554
23 COOKED-FRESH-BOILED	10.97	0.0140	0.003216
24 COOKED-FRESH-BROILED	21.59	0.0140	0.009945
25 COOKED-FRESH-FRIED	46.33	0.0140	0.000730
53001KA BEEF(ORGAN MEATS)-KIDNEY	0.02	0.0050	0.004063
21 COOKED-NFS	0.99	0.0200	0.037598
53001LA BEEF(ORGAN MEATS)-LIVER	0.00	0.0200	0.000000
25 COOKED-FRESH-FRIED	0.01	0.0020	0.002367
31 COOKED-FRESH OR CANNED	60.73	0.0020	0.002128
53001MA BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	4.90	0.0020	0.001751
10 RAW-FRESH OR NFS	8.50	0.0020	0.001409
21 COOKED-NFS			
22 COOKED-FRESH-BAKED			
23 COOKED-FRESH-BOILED			

MENU CATEGORY 4: MILK: NON-FAT SOLIDS

50000DB MILK-NON-FAT SOLIDS	77.48	0.0040	0.017827
10 RAW-FRESH OR NFS	92.10	0.0040	0.004094
21 COOKED-NFS	2.76	0.0040	0.001618
51 COOKED-CANNED			
50000SA MILK SUGAR (LACTOSE)	0.01	0.0010	0.000146
21 COOKED-NFS	0.00	0.0010	0.000000
51 COOKED-CANNED			

MENU CATEGORY 5: MILK: FAT SOLIDS

50000FA MILK-FAT SOLIDS			
DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION	18:38	Saturday, January 21, 1995	19

*NAME: AVERNECTIN	STUDY	RDV	NOEL
*CASSELL NO: 063AB	CFR NO: CFR	A	00000.0012
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804	B	C	
*STATUS CODES:			
*RDV INFO: The LD value used in this analysis is .0001	MG/KG	of BODY WEIGHT/DAY	
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.			

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1			
CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)			

POPULATION = MALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER	: DAYS AS PERCENT OF	: POTENTIAL PERSON DAYS	: SORC (PPM) TYPE	: VALUE (PPM) REF.	: (EXCL. AR)	: DAILY MAXIMUM ANTICIPATED RESIDUE (INCL. AR)
10 RAW-FRESH OR NFS		81.04	:	:	:	0.0040	:	0.009057
21 COOKED-NFS		92.08	:	:	:	0.0040	:	0.002594
51 COOKED-CANNED		2.76	:	:	:	0.0040	:	0.000868

MENU CATEGORY 6: GRAINS(EXCL. RICE), SOYBEANS, VEG. OILS

98.44	0.0006	0.000011
...	...	...
0.71	0.0050	0.000037
...	...	...

22

0 0100 0 008789

26.77	0.0100	0.008769
12.26	0.0100	0.013166
6.88	0.0100	0.004479

0.12	:	:	0.0021 C	:	0.005320
2.26	:	:	0.0021 C	:	0.005606

0.04	0.0040 C	0.000295
7.07	0.0040 C	0.004922
3.91	0.0040 C	0.001435

3.91	:	0.0040 C	:	0.001435
3.57	:	0.0040 C	:	0.002272
1.19	:	0.0040 C	:	0.007783

9.13	:	0.0120	:	0.002786
0.94	:	0.0120	:	0.007205
1.02	:	0.0120	:	0.002776

1.93	:	0.0120 C	:	0.002778
:	:	:	:	:
12.80	:	0.0110 C	:	0.003122

0 006803 0 0250 3 3

20.98	:	0.0350	:	0.006062
5.21	:	0.0350	:	0.008255

	0.00	0.0350	0.000000
TZ 16	:	:	:

```

SE STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. 1
USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 2
*****
32.10 : 0.0000 0.00000000

```

000100	Reprodcn	Rat	Systemic
000100	Reprodcn	Rat	Systemic

```
***** AR DATA: No User Modifications *****
```

```

MENU PALETTE = 1
:
: FOOD FORN CONTRIBUTION
:
: TO EXPOSURE
:
: SUGARS DOXYLIT DEN DAV

```

TOE PRINTING DATA	AS DATA	DAILY	DAILY
.....			

TOLERANCE DATA		AR DATA		DAILY	DAILY
VALUE	VALUE	MAXIMUM	ANTICIPATED	RESIDUE	RESIDUE

[illegible]

CODE FOOD AND FOOD FORM DESCRIPTION

POTENTIAL PERSON DAYS

SORC (PPM) TYPE

(PPM) REF. : (EXCL. AR) (INCL. AR)

21 COOKED-NFS

3.57

0.0500

0.005220

MENU CATEGORY 10: FRUITS

01016AA STRAWBERRIES

10 RAW-FRESH OR NFS
21 COOKED-NFS
70 RAW-FROZEN

2.47
12.56
0.78

0.0200
0.0200
0.0200

0.017550
0.000696
0.012407

02001AA CITRUS CITRON

22 COOKED-FRESH-BAKED
02002AA GRAPEFRUIT-UNSPECIFIED
00 NOT SPECIFIED (NO CONSUMPTION)

0.30
0.00
0.00

0.0170
0.0170
0.0100

0.000994
0.000000
0.022087

02002AB GRAPEFRUIT-PULP

10 RAW-FRESH OR NFS
21 COOKED-NFS

2.63
0.00

0.0100
0.0100

0.008333
0.049439

02002JA GRAPEFRUIT-JUICE

15 RAW-FRESH OR CANNED
31 COOKED-FRESH OR CANNED

1.97
0.13

0.0170 C
0.0170 C

0.033504
0.026225

02003AA KUMQUATS

10 RAW-FRESH OR NFS
22 COOKED-FRESH-BAKED

0.00
0.68
0.20

0.0240
0.0500
0.0500

0.009891
0.001252
0.003815

02004AB LEMONS-PULP

10 RAW-FRESH OR NFS
31 COOKED-FRESH OR CANNED

0.01
0.46

0.0100
0.0100

0.000229
0.006361

02004HA LEMONS-PEEL

10 RAW-FRESH OR NFS
21 COOKED-NFS

0.14
1.06

0.0500
0.0500

0.000099
0.000322

02004JA LEMONS-JUICE

10 RAW-FRESH OR NFS
15 RAW-FRESH OR CANNED
21 COOKED-NFS
31 COOKED-FRESH OR CANNED

4.53
0.61
12.82
2.38

0.0050 C
0.0050 C
0.0050 C
0.0050 C

0.000981
0.000219
0.001260
0.000322

02005AA LIMES-UNSPECIFIED

00 NOT SPECIFIED (NO CONSUMPTION)

0.00

0.0500

0.000000

02005AB LIMES-PULP

10 RAW-FRESH OR NFS

0.04

0.0100

0.002911

02005HA LIMES-PEEL

21 COOKED-NFS

0.00

0.0500

0.000066

02005JA LIMES-JUICE

10 RAW-FRESH OR NFS

0.20

0.0050 C

0.007688

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION
***** STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. *
*NAME: AVERNECTIN A 00000.0012 000100 Reprductn Rat Systemic
*CASSELL NO: 063AB CFR NO: CFR
*CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B
*STATUS CODES: C
*RDV INFO: The LD value used in this analysis is .0001 MG/KG of BODY WEIGHT/DAY
*FILE INFO: No Tolerance Data Are Used--Without User Modifications.
AR DATA: No User Modifications*

 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = MALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA		AR DATA	: FOOD FORM CONTRIBUTION : TO EXPOSURE : (UG/KG BODY WT PER DAY)	
			VALUE	TYPE	VALUE	DAILY MAXIMUM RESIDUE (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
15	RAW-FRESH OR CANNED	0.02	0.0050 C	:	0.007702		
31	COOKED-FRESH OR CANNED	0.04	0.0050 C	:	0.000836		
02006AA	ORANGES-UNSPECIFIED	:	:	:	:		
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	0.0500	:	0.000000		
02006AB	ORANGES-PULP	5.18	0.0100	:	0.020312		
10	RAW-FRESH OR NFS	0.47	0.0100	:	0.000524		
21	COOKED-NFS	:	:	:	:		
02006HA	ORANGES-PEEL	0.11	0.0500	:	0.000207		
21	COOKED-NFS	1.82	0.0500	:	0.000212		
22	COOKED-FRESH-BAKED	0.46	0.0500	:	0.000446		
31	COOKED-FRESH OR CANNED	:	:	:	:		
02006JA	ORANGES-JUICE	21.79	0.0050 C	:	0.015048		
15	RAW-FRESH OR CANNED	1.33	0.0050 C	:	0.003568		
31	COOKED-FRESH OR CANNED	:	:	:	:		
02007AA	TANGELLOS	0.06	0.0200	:	0.032899		
10	RAW-FRESH OR NFS	:	:	:	:		
02008AA	TANGERINES	0.47	0.0200	:	0.021628		
10	RAW-FRESH OR NFS	:	:	:	:		
02008JA	TANGERINE-JUICE	0.01	0.0050 C	:	0.014947		
15	RAW-FRESH OR CANNED	:	:	:	:		
04003AA	PEARS-FRESH	1.76	0.0200	:	0.043760		
10	RAW-FRESH OR NFS	3.30	0.0200	:	0.019479		
31	COOKED-FRESH OR CANNED	0.08	0.0200	:	0.017028		
51	COOKED-CANNED	0.03	0.0200	:	0.035393		
62	COOKED-FRESH OR FROZEN-BAKED	:	:	:	:		
04003DA	PEARS-DRIED	0.02	0.0880	:	0.188256		
10	RAW-FRESH OR NFS	0.00	0.0880	:	0.232308		
21	COOKED-NFS	:	:	:	:		

TOLERANCE SOURCES: P=PUBLISHED, A=APPROVED, N=NEW ACTION, U=USER-SUPPLIED
 DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 18:38 Saturday, January 21, 1995 22

 NAME: AVERMECTIN STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CASWELL NO: 063AB CFR NO: CFR A 00000.0012 000100 Reproductn Rat Systemic
 *CAS NO: 65195-55-3 SHAUGHNESSY NO: 122804 B
 *STATUS CODES: C
 *RDV INFO: The LD value used in this analysis is .0001 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
TOLERANCES:
ANTICIPATED RESIDUES:
0
TOLERANCES:
ANTICIPATED RESIDUES:
0

PERSON DAYS THAT ARE USER-DAYS
0.00
0.000000
0.00
82.64
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

0
TOLERANCES:
ANTICIPATED RESIDUES:
0
TOLERANCES:
ANTICIPATED RESIDUES:
0

PERSON DAYS THAT ARE USER-DAYS
0.00
0.000000
0.00
298.82
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

0
TOLERANCES:
ANTICIPATED RESIDUES:
0
TOLERANCES:
ANTICIPATED RESIDUES:
0

PERSON DAYS THAT ARE USER-DAYS
0.00
0.000000
0.00
190.45
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

0
TOLERANCES:
ANTICIPATED RESIDUES:
0
TOLERANCES:
ANTICIPATED RESIDUES:
0

PERSON DAYS THAT ARE USER-DAYS
0.00
0.000000
0.00
59.02
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=

0
TOLERANCES:
ANTICIPATED RESIDUES:
0
TOLERANCES:
ANTICIPATED RESIDUES:
0

High End Exposure = LD x 3 = .0001 x 3

$$MOE = \frac{NOEL}{Exposure} = \frac{.06}{.0003} = 200$$

LD = .0001
NOEL = .06 mg/kg bw/day

AS PERCENT OF RDV
0.000.00
60.686U.48
EDING

ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING λ TIMES THE KDV, FOR $\lambda =$

[illegible]