

US EPA ARCHIVE DOCUMENT



125301

6-10-97

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

JUN 10 1997

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

JUN 0 1997

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Fenoxycarb in/on Citrus (PP# 6F04617), Nuts (PP# 6F4633) and Pome Fruits (PP# 6F4618).

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

Through: Bart Suhre, Branch Senior Scientist *B. Suhre*
Chemistry Exposure Branch 1
Health Effects Division

TO: Mike Metzger, Chief
RCAB 7509C

Action Requested

Provide a chronic and carcinogenic dietary exposure analysis for the use of fenoxycarb in/on citrus fruits (0.5 ppm); tree nuts (almonds, hazelnuts, pecans & walnuts at 0.05 ppm), and pome fruits (0.02 ppm).

The petition on tree nuts requires the establishment of tolerances for fenoxycarb on milk (0.01 ppm); meat (0.01 ppm); animal fat (0.05 ppm); liver (0.1 ppm); kidney (0.05 ppm); and meat by-products (0.1 ppm) (See memo, F. Griffith, 8/8/96). There is no anticipation of fenoxycarb residues in eggs and poultry (See memo, F. Griffith, 8/8/96). In addition, there is no anticipated concentration of fenoxycarb residues in apple juice (See memo, F. Griffith, 7/11/96) nor citrus juices (See memo, F. Griffith, 8/23/96). Thus, the concentration factors used in DRES for these commodities have been turned off.

1/14

Discussion

Anticipated residues have been used in this analysis (See memo, D. Griffith, 5/14/97).

Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.08 mg/kg bwt/day, based on a NOEL of 8.1 mg/kg bwt/day from a two-year rat feeding study with an uncertainty factor of 100 that demonstrated non-neoplastic liver histology in males as an endpoint effect (See RfD Peer Review Report, 7/7/94). The RfD has been reviewed by the HED RfD committee (7/7/94).

Fenoxycarb is classified as a B2 carcinogen (probable human carcinogen). A Q_1^* of $0.02235 \text{ (mg/kg/day)}^{-1}$ was used to estimate the carcinogenic risk due to dietary exposure (Personal communication, B. Fisher, 5/30/97).

No endpoint was indicated for adverse acute dietary effects (See Toxicology Endpoint Selection Document, 3/15/94).

Residue Information

As these uses represent the first food uses for fenoxycarb, there is no CFR No. assigned. Anticipated residues and 100 percent crop treated assumptions were made for the proposed commodities.

Results

A summary of the residue information included in this analysis is attached as Table 1. A DRES chronic exposure analysis was performed using tolerance level residues and 100 percent crop treated information to estimate the Theoretical Maximum Residue Contribution (TMRC) for the general population and 22 subgroups. 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 commodity contribution analysis was performed to calculate the carcinogenic risks of individual commodities. Results are included as Table 4.

Chronic Exposure Analysis

Exposure from Existing Tolerances for fenoxycarb:

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>%RfD</u>
U.S. Population	0.000000	0.0
Non-Nursing Infants (< 1)	0.000002	0.003

Proposed new Tolerances on the proposed commodities:

U.S. Population	0.000029	.036
Non-Nursing Infants (< 1)	0.000102	0.127

If the new tolerances on the proposed commodities are approved:

U.S. Population	0.000029	.036
Non-Nursing Infants (< 1)	0.000104	0.130

Conclusions

The chronic analysis for fenoxycarb 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 fenoxycarb. Anticipated residues have been used for a more refined risk estimate. Thus, the chronic dietary risk exposure to fenoxycarb appears to be minimal for this petition on citrus, pome fruits, tree nuts, milk and meat and does not exceed the RfD for any of the DRES subgroups.

Fenoxycarb Upper Bound Carcinogenic Exposure:

Based on a Q^* of $0.023 \text{ (mg/kg/day)}^{-1}$, the upper bound cancer risk was calculated to be 6.5×10^{-7} , contributed through all the proposed uses for fenoxycarb.

This upper bound risk is below the range the Agency generally considers negligible for excess life time cancer risk and is not cause for concern.

Attachments

cc: DRES; Caswell 652C; PM 10; CBTS (F. Griffin)

TABLE 7

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 652C

DATE: 05/30/97

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.	2yr feeding- rat NOEL = 8,1000 mg/kg 200.00 ppm LEL = 24,7000 mg/kg 600.00 ppm	Non-neoplastic liver histology in males. Referred to HED Carcinog- enicity Peer Review Comm.	ADI UF -->100 OPP RfD = 0.080000 EPA RfD = 0.000000 Q* = 0.05600	No data gaps.	RfD/PR reviewed 03/22/94

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	6F04617	N 0.050000	0.001500		100.00	0.001500
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6F04617	N 0.050000	0.004000		100.00	0.004000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.004000		100.00	0.004000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	6F04617	N 0.050000	0.004000		100.00	0.004000
02002AA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	6F04617	N 0.050000	0.004000C		100.00	0.004000
02002AA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.004000C		100.00	0.004000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AA	LEMONS-PEEL	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AA	LEMONS-PEEL	21 COOKED-NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02004AA	LEMONS-JUICE	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500C		100.00	0.001500
02004AA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02004AA	LEMONS-JUICE	21 COOKED-NFS	6F04617	N 0.050000	0.001500C		100.00	0.001500
02004AA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6F04617	N 0.050000	0.001500		100.00	0.001500
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02005AA	LIMES-PEEL	21 COOKED-NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02005AA	LIMES-JUICE	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500C		100.00	0.001500
02005AA	LIMES-JUICE	15 RAW-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02005AA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AB	ORANGES-PULP	21 COOKED-NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AA	ORANGES-PEEL	15 RAW-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02006AA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	6F04617	N 0.050000	0.001500C		100.00	0.001500
02006AA	ORANGES-JUICE	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AA	ORANGES-JUICE	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500		100.00	0.001500
02006AA	TANGERINES	10 RAW-FRESH OR NFS	6F04617	N 0.050000	0.001500C		100.00	0.001500
02006AA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	6F04617	N 0.050000	0.001500		100.00	0.001500
03001AA	ALMONDS	21 COOKED-NFS	6F04633	N 0.050000	0.005000		100.00	0.005000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	6F04633	N 0.050000	0.005000		100.00	0.005000
03005AA	FLIBERTS	10 RAW-FRESH OR NFS	6F04633	N 0.050000	0.001500		100.00	0.001500
03005AA	FLIBERTS	21 COOKED-NFS	6F04633	N 0.050000	0.001500		100.00	0.001500
03005AA	FLIBERTS	22 COOKED-FRESH-BAKED	6F04633	N 0.050000	0.001500		100.00	0.001500

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 652C

DATE: 05/30/97

PAGE: 2

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.	2yr feeding- rat NOEL= 8,1000 mg/kg 200.00 ppm LEL= 24,7000 mg/kg 600.00 ppm ONCO: B2 (HCPRC)	Non-neoplastic liver histology in males. Referred to HED Carcinog- enicity Peer Review Comm.	ADI UF --> 100 OPP RfD= 0.080000 EPA RfD= 0.000000 Q*: 0.05600	No data gaps.	RfD/PR reviewed 03/22/94

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
03008AA	PECANS	10 RAW-FRESH OR NFS	6F4633	N 0.050000	0.012000		100.00	0.012000
03008AA	PECANS	21 COOKED-NFS	6F4633	N 0.050000	0.012000		100.00	0.012000
03008AA	PECANS	22 COOKED-FRESH-BAKED	6F4633	N 0.050000	0.012000		100.00	0.012000
03008AA	PECANS	23 COOKED-FRESH-BOILED	6F4633	N 0.050000	0.012000		100.00	0.012000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	6F4633	N 0.050000	0.012000		100.00	0.012000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	6F4633	N 0.050000	0.001500		100.00	0.001500
03009AA	WALNUTS	21 COOKED-NFS	6F4633	N 0.050000	0.001500		100.00	0.001500
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	6F4633	N 0.050000	0.002000		100.00	0.002000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	6F4618	N 0.020000	0.002000		100.00	0.002000
04001AA	APPLES-FRESH	21 COOKED-NFS	6F4618	N 0.020000	0.002000		100.00	0.002000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	6F4618	N 0.020000	0.002000		100.00	0.002000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F4618	N 0.020000	0.002000		100.00	0.002000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	6F4618	N 0.020000	0.002000		100.00	0.002000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	6F4618	N 0.020000	0.002000		100.00	0.002000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	6F4618	N 0.020000	0.002000		100.00	0.002000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	6F4618	N 0.020000	0.020000C		100.00	0.020000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	6F4618	N 0.020000	0.020000C		100.00	0.020000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6F4618	N 0.020000	0.020000		100.00	0.020000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F4618	P 0.100000	0.001500		100.00	0.001500
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F4618	P 0.100000	0.001500		100.00	0.001500
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F4618	P 0.100000	0.001500		100.00	0.001500
04003DA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F4618	P 0.100000	0.001500		100.00	0.001500
04003DA	PEARS-DRIED	21 COOKED-NFS	6F4618	P 0.100000	0.001500		100.00	0.001500
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	6F4618	N 0.010000	0.020000		100.00	0.020000
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	6F4633	N 0.010000	0.000110		100.00	0.000110
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	6F4633	N 0.010000	0.000110		100.00	0.000110
50000SA	MILK-SUG (LACT)	21 COOKED-NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
50000SA	MILK-SUG (LACT)	51 COOKED-CANNED	6F4633	N 0.010000	0.000110		100.00	0.000110
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	6F4633	N 0.100000	0.001040		100.00	0.001040
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4633	N 0.100000	0.001040		100.00	0.001040
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	6F4633	N 0.100000	0.001040		100.00	0.001040
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	6F4633	N 0.100000	0.001040		100.00	0.001040
53001DB	BEEF-OTH ORGAN	21 COOKED-NFS	6F4633	N 0.100000	0.000110		100.00	0.000110
53001DA	BEEF-DRIED	21 COOKED-NFS	6F4633	N 0.050000	0.004910		100.00	0.004910
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	6F4633	N 0.050000	0.004910		100.00	0.004910
53001FA	BEEF-FAT	21 COOKED-NFS	6F4633	N 0.050000	0.004910		100.00	0.004910

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 652C

DATE: 05/30/97

PAGE: 3

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.	2yr feeding- rat NOEL = 8,1000 mg/kg 200.00 ppm LEL = 24,7000 mg/kg 600.00 ppm ONCD: B2 (HCPRC)	Non-neoplastic liver histology in males. Referred to HED Carcinog- enicity Peer Review Comm.	ADI UF -->100 OPP RfD= 0.080000 EPA RfD= 0.000000 Q*: 0.05600	No data gaps.	RfD/PR reviewed 03/22/94

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	6F4633	N 0.050000	0.004910		100.00	0.004910
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	6F4633	N 0.050000	0.004910		100.00	0.004910
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	6F4633	N 0.050000	0.004910		100.00	0.004910
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	6F4633	N 0.050000	0.004910		100.00	0.004910
53001KA	BEEF-KIDNEY	21 COOKED-NFS	6F4633	N 0.050000	0.000110		100.00	0.000110
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	6F4633	N 0.100000	0.001040		100.00	0.001040
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	6F4633	N 0.100000	0.001040		100.00	0.001040
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
53001MA	BEEF-LEAN	21 COOKED-NFS	6F4633	N 0.010000	0.000110		100.00	0.000110
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	6F4633	N 0.010000	0.000110		100.00	0.000110
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	6F4633	N 0.010000	0.000110		100.00	0.000110
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	6F4633	N 0.010000	0.000110		100.00	0.000110
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.100000	0.000700		100.00	0.000700
53002BA	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.100000	0.000700		100.00	0.000700
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	6F4633	N 0.050000	0.003290		100.00	0.003290
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	6F4633	N 0.050000	0.003290		100.00	0.003290
53002LA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.050000	0.000700		100.00	0.000700
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.100000	0.000700		100.00	0.000700
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	6F4633	N 0.010000	0.000700		100.00	0.000700
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	6F4633	N 0.010000	0.000700		100.00	0.000700
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.100000	0.003290		100.00	0.003290
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	6F4633	N 0.100000	0.003290		100.00	0.003290
53005BA	SHEEP-OTH ORGAN	21 COOKED-NFS	6F4633	N 0.100000	0.003290		100.00	0.003290
53005FA	SHEEP-FAT	21 COOKED-NFS	6F4633	N 0.050000	0.003290		100.00	0.003290
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	6F4633	N 0.050000	0.000700		100.00	0.000700
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F4633	N 0.100000	0.000700		100.00	0.000700
53005MA	SHEEP-LEAN	21 COOKED-NFS	6F4633	N 0.010000	0.000700		100.00	0.000700
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	6F4633	N 0.010000	0.000700		100.00	0.000700
53006BA	PORK-MEAT BYP	21 COOKED-NFS	6F4633	N 0.100000	0.100000		100.00	0.100000
53006BA	PORK-OTH ORGAN	21 COOKED-NFS	6F4633	N 0.100000	0.100000		100.00	0.100000
53006BA	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4633	N 0.100000	0.050000		100.00	0.050000
53006BA	PORK-OTH ORGAN	10 RAW-FRESH OR NFS	6F4633	N 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	21 COOKED-NFS	6F4633	N 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	6F4633	N 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	6F4633	N 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4633	N 0.050000	0.050000		100.00	0.050000
53006KA	PORK-KIDNEY	21 COOKED-NFS	6F4633	N 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	21 COOKED-NFS	6F4633	N 0.100000	0.100000		100.00	0.100000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	6F4633	N 0.100000	0.100000		100.00	0.100000
53006MA	PORK-LEAN	21 COOKED-NFS	6F4633	N 0.010000	0.010000		100.00	0.010000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 652C

DATE: 05/30/97

PAGE: 4

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.		2yr feeding- rat NOEL= 8,1000 mg/kg LEL= 24,7000 mg/kg 600.00 ppm ONCO: 82 (HOPRC)		Non-neoplastic liver histology in males. Referred to HED Carcinog- enicity Peer Review Comm.		ADI UF -->100 OPP RfD= 0.080000 EPA RfD= 0.000000 Q*: 0.05600		No data gaps.		RfD/PR reviewed 03/22/94	

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	6F4633	N 0.010000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F4633	N 0.010000	0.010000		100.00	0.010000

TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/30/97

PAGE: 4

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.		2Yr feeding- rat NOEL= 8,1000 mg/kg 200.00 ppm LEL= 24,7000 mg/kg 600.00 ppm		Non-neoplastic liver histology in males. Referred to HED Carcinogenicity Peer Review Comm.		ADI UF -->100 OPP RfD= 0.080000 EPA RfD= 0.000000 Q*: 0.05600		No data gaps.		RfD/PR reviewed 03/22/94	
POPULATION SUBGROUP		TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD		DIFFERENCE AS PERCENT OF RFD		EFFECT OF ANTICIPATED RESIDUES		ARC	
U.S. POPULATION - 48 STATES		CURRENT TMRC*		NEW TMRC**		OF RFD		OF RFD		%RFD	
U.S. POPULATION - SPRING SEASON		0.000011		0.000244		0.304900		0.291721		0.000028	
U.S. POPULATION - SUMMER SEASON		0.000011		0.000243		0.303895		0.290513		0.000028	
U.S. POPULATION - FALL SEASON		0.000015		0.000268		0.334441		0.316250		0.000030	
U.S. POPULATION - WINTER SEASON		0.000013		0.000270		0.337905		0.321314		0.000031	
NORTHEAST REGION		0.000014		0.000285		0.356263		0.338153		0.000031	
NORTH CENTRAL REGION		0.000013		0.000263		0.328255		0.312511		0.000029	
SOUTHERN REGION		0.000008		0.000217		0.271343		0.261244		0.000028	
WESTERN REGION		0.000016		0.000276		0.344971		0.324885		0.000027	
HISPANICS		0.000014		0.000324		0.405596		0.388505		0.000035	
NON-HISPANIC WHITES		0.000013		0.000253		0.316030		0.299809		0.000027	
NON-HISPANIC BLACKS		0.000007		0.000240		0.299449		0.291234		0.000037	
NON-HISPANIC OTHERS		0.000016		0.000312		0.390378		0.370013		0.000032	
NURSING INFANTS (< 1 YEAR OLD)		0.000138		0.000461		0.576338		0.403890		0.000068	
NON-NURSING INFANTS (< 1 YEAR OLD)		0.000158		0.001118		1.398049		1.200791		0.000104	
FEMALES (13+ YEARS, PREGNANT)		0.000006		0.000189		0.235904		0.228920		0.000021	
FEMALES 13+ YEARS, NURSING		0.000018		0.000223		0.279106		0.256121		0.000021	
CHILDREN (1-6 YEARS OLD)		0.000026		0.000674		0.842333		0.809568		0.000072	
CHILDREN (7-12 YEARS OLD)		0.000017		0.000404		0.505221		0.483778		0.000039	
MALES (13-19 YEARS OLD)		0.000008		0.000250		0.312738		0.303323		0.000028	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)		0.000007		0.000206		0.257863		0.249483		0.000022	
MALES (20 YEARS AND OLDER)		0.000007		0.000161		0.201766		0.192986		0.000023	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)		0.000008		0.000160		0.199726		0.190204		0.000019	

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

TABLE 3

TOLERANCE ASSESSMENT SUMMARY FOR Fenoxycarb
USING ANTICIPATED RESIDUES
CASWELL #652C

DATE: 05/30/97

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000000	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.000	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000029	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.036	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000029	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.036	% OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.000002	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	0.003	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000102	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	0.127	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.000104	MG/KG/DAY
THE NEW ARC WILL OCCUPY	0.130	% OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

TABLE 4

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/30/97

PAGE: 4

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Fenoxycarb Caswell #652C CAS No. 72490-01-8 A.I. CODE: 125301 CFR No.		2yr feeding- rat NOEL= 8,1000 mg/kg 200.00 ppm LEL= 24,7000 mg/kg 600.00 ppm		Non-neoplastic liver histology in males.		ADI UF -->100 OPP RfD= 0.080000 EPA RfD= 0.000000		No data gaps.		RfD/PR reviewed 03/22/94	
		ONCO: B2 (HCRRC)		Referred to HED Carcinog- enicity Peer Review Comm.		Q*: 0.02235					
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES											
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK	
02001AA	CITRUS CITRON	0.050	N	0.000008	0.000	0.00000000018	0.00150	0.000000	0.000	0.00000000000	
02002AA	22 COOKED-FRESH-BAKED GRAPEFRUIT-UNSPECIFIED	0.050	N	0.000000	0.000	0.00000000000	0.00400	0.000000	0.000	0.00000000000	
02002AB	00 NOT SPECIFIED (NO CONSUMPTION) GRAPEFRUIT-PULP	0.050	N	0.003423	0.004	0.00000007650	0.00400	0.000274	0.000	0.0000000612	
02002JA	10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.003868	0.005	0.00000008645	0.00400	0.000299	0.000	0.0000000668	
02003AA	15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED KUMQUATS	0.050	N	0.000004	0.000	0.00000000009	0.00400	0.000011	0.000	0.00000000025	
02004AA	10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED LEMONS-UNSPECIFIED	0.050	N	0.000103	0.000	0.00000000230	0.00150	0.000003	0.000	0.00000000007	
02004AB	10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED LEMONS-PULP	0.050	N	0.000011	0.000	0.00000000025	0.00150	0.000000	0.000	0.00000000000	
02004HA	10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.000013	0.000	0.00000000029	0.00150	0.000000	0.000	0.00000000000	
02004JA	10 RAW-FRESH OR NFS 21 COOKED-NFS LEMONS-JUICE	0.050	N	0.000948	0.001	0.00000002119	0.00150	0.000006	0.000	0.00000000013	
02005AA	15 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED LIMES-UNSPECIFIED	0.050	N	0.000000	0.000	0.00000000000	0.00150	0.000004	0.000	0.00000000009	
02005AB	00 NOT SPECIFIED (NO CONSUMPTION) LIMES-PULP	0.050	N	0.000005	0.000	0.00000000011	0.00150	0.000000	0.000	0.00000000000	
02005HA	10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.000000	0.000	0.00000000000	0.00150	0.000000	0.000	0.00000000000	
02005JA	10 RAW-FRESH OR NFS 21 COOKED-NFS LIMES-JUICE	0.050	N	0.000164	0.000	0.00000000367	0.00150	0.000000	0.000	0.00000000000	
02006AA	15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED ORANGES-UNSPECIFIED	0.050	N	0.000000	0.000	0.00000000000	0.00150	0.000004	0.000	0.00000000009	
02006AB	00 NOT SPECIFIED (NO CONSUMPTION) ORANGES-PULP	0.050	N	0.007318	0.009	0.00000016803	0.00150	0.000000	0.000	0.00000000000	
	10 RAW-FRESH OR NFS 21 COOKED-NFS						0.00150	0.000225	0.000	0.00000000053	
							0.00150	0.000001	0.000	0.00000000002	

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/30/97

PAGE: 2

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Fenoxycarb		2yr feeding- rat		Non-neoplastic liver histology in males.		ADI UF -->100		No data gaps.		RfD/PR reviewed 03/22/94	
Caswell #652C		NOEL= 8,1000 mg/kg				OPP RfD= 0.080000					
CAS No. 72490-01-8		200.00 ppm				EPA RfD= 0.000000					
A.I. CODE: 125301		LEL= 24,7000 mg/kg									
CFR No.		600.00 ppm									
		ONCO: B2 (HCPRC)		Referred to HED Carcinogenicity Peer Review Comm.		Q*: 0.02235					

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	THRC (UG/KG/DAY)	%RfD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RfD	ARC ONCO RISK
02006HA	ORANGES-PEEL	0.050	N	0.000007	0.000	0.00000000016	0.00150	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00150	0.000000	0.000	0.00000000000
	22 COOKED-FRESH-BAKED						0.00150	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00150	0.000000	0.000	0.00000000000
02006JA	ORANGES-JUICE	0.050	N	0.054736	0.068	0.00000122335	0.00150	0.001588	0.002	0.0000003549
	15 RAW-FRESH OR CANNED						0.00150	0.000054	0.000	0.00000000121
	31 COOKED-FRESH OR CANNED						0.00150	0.000004	0.000	0.00000000009
02007AA	TANGELOS	0.050	N	0.000128	0.000	0.00000000286	0.00150	0.000004	0.000	0.00000000009
	10 RAW-FRESH OR NFS						0.00150	0.000013	0.000	0.00000000029
02008AA	TANGERINES	0.050	N	0.000442	0.001	0.00000000988	0.00150	0.000013	0.000	0.00000000029
	10 RAW-FRESH OR NFS						0.00150	0.000000	0.000	0.00000000000
02008JA	TANGERINE-JUICE	0.050	N	0.000004	0.000	0.00000000009	0.00150	0.000000	0.000	0.00000000000
	15 RAW-FRESH OR CANNED									
CROP GROUP TOTALS FOR CITRUS FRUITS:										
		0.071382		0.089	0.00000159539		0.002506		0.003	0.00000005601
04001AA	APPLES-FRESH	0.020	N	0.009135	0.011	0.00000020417	0.00200	0.000615	0.001	0.00000001375
	10 RAW-FRESH OR NFS						0.00200	0.000013	0.000	0.00000000029
	21 COOKED-NFS						0.00200	0.000038	0.000	0.00000000532
	31 COOKED-FRESH OR CANNED						0.00200	0.000047	0.000	0.00000000105
	62 COOKED-FRESH OR FROZEN-BAKED						0.00200	0.000002	0.000	0.00000000004
04001DA	APPLES-DRIED	0.020	N	0.000033	0.000	0.00000000074	0.00200	0.000001	0.000	0.00000000002
	10 RAW-FRESH OR NFS						0.00200	0.000001	0.000	0.00000000002
	22 COOKED-FRESH-BAKED						0.00200	0.000001	0.000	0.00000000002
	62 COOKED-FRESH OR FROZEN-BAKED						0.00200	0.000001	0.000	0.00000000002
04001JA	APPLES-JUICE	0.020	N	0.004433	0.006	0.00000009908	0.00200	0.003417	0.004	0.00000007637
	15 RAW-FRESH OR CANNED						0.00200	0.001016	0.001	0.00000002271
	31 COOKED-FRESH OR CANNED						0.00200	0.000007	0.000	0.00000000016
04002AA	CRABAPPLES	0.020	N	0.000007	0.000	0.00000000016	0.00150	0.000079	0.000	0.00000000177
	00 NOT SPECIFIED (NO CONSUMPTION)						0.00150	0.000070	0.000	0.00000000156
04003AA	PEARS-FRESH	0.100	P	0.012247	0.015	0.00000027372	0.00150	0.000034	0.000	0.00000000076
	10 RAW-FRESH OR NFS						0.00150	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00150	0.000000	0.000	0.00000000000
	51 COOKED-CANNED						0.00150	0.000000	0.000	0.00000000000
	62 COOKED-FRESH OR FROZEN-BAKED						0.00150	0.000000	0.000	0.00000000000
04003DA	PEARS-DRIED	0.100	P	0.000021	0.000	0.00000000047	0.00150	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS						0.00150	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00150	0.000000	0.000	0.00000000000
04004AA	QUINCES	0.020	N	0.000004	0.000	0.00000000009	0.02000	0.000004	0.000	0.00000000009
	00 NOT SPECIFIED (NO CONSUMPTION)									
CROP GROUP TOTALS FOR POME FRUITS:										
		0.025880		0.032	0.00000057842		0.005544		0.007	0.000000012391

PAGE: 4

13.

10

FOOD CODE	FOODNAME /FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.010	N	0.011620	0.015	0.00000025971				
	10 RAW-FRESH OR NFS						0.00011	0.000000	0.000	0.000000000000
	21 COOKED-NFS						0.00011	0.000076	0.000	0.000000000170
	22 COOKED-FRESH-BAKED						0.00011	0.000005	0.000	0.000000000111
	23 COOKED-FRESH-BOILED						0.00011	0.000008	0.000	0.00000000018
53002BA	24 COOKED-FRESH-BROILED						0.00011	0.000038	0.000	0.00000000085
	GOAT-MEAT BYPRODUCTS	0.100	N	0.000000	0.000	0.000000000000	0.00070	0.000000	0.000	0.000000000000
53002BB	GOAT(ORGAN MEATS)-OTHER	0.100	N	0.000000	0.000	0.000000000000	0.00070	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									
53002FA	GOAT(BONELESS)-FAT	0.050	N	0.000002	0.000	0.000000000004	0.00329	0.000000	0.000	0.000000000000
	23 COOKED-FRESH-BOILED						0.00329	0.000000	0.000	0.000000000000
53002KA	25 COOKED-FRESH-FRIED									
	GOAT(ORGAN MEATS)-KIDNEY	0.050	N	0.000000	0.000	0.000000000000	0.00007	0.000000	0.000	0.000000000000
53002LA	GOAT(ORGAN MEATS)-LIVER	0.100	N	0.000000	0.000	0.000000000000	0.00070	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED (NO CONSUMPTION)									
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.010	N	0.000002	0.000	0.000000000004	0.00007	0.000000	0.000	0.000000000000
	23 COOKED-FRESH-BOILED						0.00007	0.000000	0.000	0.000000000000
53003AA	25 COOKED-FRESH-FRIED									
	HORSE	0.100	N	0.000000	0.000	0.000000000000	0.00329	0.000000	0.000	0.000000000000
53005BA	00 NOT SPECIFIED (NO CONSUMPTION)									
	SHEEP-MEAT BYPRODUCTS	0.100	N	0.000005	0.000	0.000000000011	0.00329	0.000000	0.000	0.000000000000
53005BB	21 COOKED-NFS									
	SHEEP(ORGAN MEATS)-OTHER	0.100	N	0.000002	0.000	0.000000000004	0.00329	0.000000	0.000	0.000000000000
53005FA	21 COOKED-NFS									
	SHEEP(BONELESS)-FAT	0.050	N	0.000215	0.000	0.000000000481	0.00329	0.000014	0.000	0.000000000031
53005KA	21 COOKED-NFS									
	SHEEP(ORGAN MEATS)-KIDNEY	0.050	N	0.000000	0.000	0.000000000000	0.00007	0.000000	0.000	0.000000000000
53005LA	21 COOKED-NFS									
	SHEEP(ORGAN MEATS)-LIVER	0.100	N	0.000000	0.000	0.000000000000	0.00070	0.000000	0.000	0.000000000000
53005MA	00 NOT SPECIFIED (NO CONSUMPTION)									
	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT	0.010	N	0.000125	0.000	0.000000000279	0.00007	0.000001	0.000	0.000000000022
53006BA	21 COOKED-NFS						0.00007	0.000000	0.000	0.000000000000
	31 COOKED-FRESH OR CANNED									
53006BB	PORK-MEAT BYPRODUCTS	0.100	N	0.002508	0.003	0.00000005605	0.10000	0.002508	0.003	0.00000005605
	21 COOKED-NFS									
53006FA	PORK(ORGAN MEATS)-OTHER	0.100	N	0.000385	0.000	0.000000000860	0.10000	0.000360	0.000	0.000000000805
	21 COOKED-NFS						0.10000	0.000025	0.000	0.00000000056
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.050	N	0.010410	0.013	0.000000023266	0.05000	0.000086	0.000	0.00000001922
	10 RAW-FRESH OR NFS									

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/30/97

PAGE: 5

CHEMICAL INFORMATION

Fenoxycarb
Caswell #652C
CAS No. 72490-01-8
A.I. CODE: 125301
CFR No.

STUDY TYPE

2Yr feeding- rat
NOEL= 8,1000 mg/kg
200.00 ppm
LEL= 24,7000 mg/kg
600.00 ppm

EFFECTS

Non-neoplastic liver
histology in males.

REFERENCE DOSES

ADI UF -->100
OPP RfD= 0.080000
EPA RfD= 0.000000

DATA GAPS/COMMENTS

No data gaps.

STATUS

RfD/PR reviewed 03/22/94

Referred to HED Carcinog-
enicity Peer Review Comm.

Q4: 0.02235

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
21	COOKED-NFS						0.05000	0.004865	0.006	0.00000010873
23	COOKED-FRESH-BOILED						0.05000	0.001146	0.001	0.00000002561
25	COOKED-FRESH-FRIED						0.05000	0.001218	0.002	0.00000002722
26	COOKED-FRESH-PICKLED, CORNED, OR CURED						0.05000	0.003095	0.004	0.00000006917
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.050	N	0.000001	0.000	0.00000000002	0.05000	0.000001	0.000	0.00000000002
53006LA	PORK(ORGAN MEATS)-LIVER	0.100	N	0.000482	0.001	0.00000001077	0.10000	0.000430	0.001	0.00000000961
21	COOKED-NFS						0.10000	0.000052	0.000	0.00000000116
25	COOKED-FRESH-FRIED						0.10000	0.001815	0.002	0.00000004057
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.010	N	0.003912	0.005	0.000000008743	0.01000	0.000477	0.001	0.00000001066
21	COOKED-NFS						0.01000	0.001620	0.002	0.00000003621
25	COOKED-FRESH-FRIED									
26	COOKED-FRESH-PICKLED, CORNED, OR CURED									
CROP GROUP TOTALS FOR RED MEAT:				0.052989	0.066	0.00000118430		0.019712	0.025	0.00000044056
50000DB	MILK-NON-FAT SOLIDS	0.010	N	0.071129	0.089	0.00000158973	0.00011	0.000627	0.001	0.00000001401
10	RAW-FRESH OR NFS						0.00011	0.000127	0.000	0.00000000284
21	COOKED-NFS						0.00011	0.000028	0.000	0.00000000063
51	COOKED-CANNED									
50000FA	MILK-FAT SOLIDS	0.010	N	0.033836	0.042	0.00000075623	0.00011	0.000293	0.000	0.00000000655
10	RAW-FRESH OR NFS						0.00011	0.000078	0.000	0.00000000174
21	COOKED-NFS						0.00011	0.000001	0.000	0.00000000002
51	COOKED-CANNED									
50000SA	MILK SUGAR (LACTOSE)	0.010	N	0.000374	0.000	0.000000000836	0.00011	0.000000	0.000	0.00000000000
21	COOKED-NFS						0.00011	0.000004	0.000	0.00000000009
51	COOKED-CANNED									
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				0.105339	0.132	0.00000235433		0.001158	0.001	0.00000002588

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

0.256232 0.320 0.00000572679

0.029001

0.036

0.00000064817

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