



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

FEB 23 1998

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

FEB 23 1998

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Phorate Using Updated Percent Crop Treated Data and a New RfD.

FROM: Brian Steinwand *BS*
Chemical Exposure Branch 1
Health Effects Division (7509C)

Through: Bart Suhre, Chemist *Bart Suhre*
Senior Scientist
Chemistry Exposure Branch 1

TO: Karen Whitby, Chief
Risk Characterization Analysis Branch
Health Effects Division (7509C)

Action Requested

Provide a dietary exposure analysis to estimate the chronic dietary exposure and risk from phorate using updated toxic endpoints and percent crop treated data.

Discussion

On 9/8/97, HED's HIARC determined that the 10 x factor to account for enhanced sensitivity of infants and children should be retained due to certain data gaps (See memo, J. Rowland, 2/12/98). Since that time, the Agency has received and reviewed a developmental toxicity study in rats and a two-generation study in rats. On 2/3/98, the HIARC met to evaluate these studies and re-assess the FQPA factor in light of these studies.

Reviews of these studies have led the HIARC to determine that the 10 x factor should be reduced to 3 x.

Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.0002 mg/kg bwt/day, based on a NOEL of 0.05 mg/kg bwt/day from a chronic toxicity dog study that demonstrated brain cholinesterase inhibition, and RBC inhibition as an endpoint (See memo, J. Rowland, 2/12/98). An uncertainty factor of 300 was applied. Phorate is classified as a Group E carcinogen by the Carcinogenicity Peer Review Committee.

Residue Information

Tolerances for phorate residues in/on raw agricultural and animal commodities are expressed in terms of phorate and its cholinesterase-inhibiting metabolites and are published in 40 CFR §180.206 and in feed at 186.4750.

Percent crop treated data were supplied by BEAD (See note, J. Alsadek, 12/24/97).

Results

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

Existing tolerances (See table 2) result in an ARC which represents 276% of the RfD for the U.S. general population. The highest subgroup, non-nursing infants (<1 year old) occupies 859% of the RfD.

The commodities which contribute the most to this risk analysis are potatoes at 84% RfD and milk products at 653% RfD.

The chronic analysis for phorate 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 phorate. This analysis has been refined, using percent crop treated information for some commodities, to give a more accurate estimate of the dietary risk from phorate. Based on the risk estimates calculated in this analysis, it appears that chronic dietary risk from published uses is a serious concern.

Attachments

cc: DRES; Caswell 660; RCAB;

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 660

DATE: 02/18/98

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX-DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm	Brain CHE inhibition; Inhibition of RBC	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (Rfd/PR Committee)	No evidence of carcinog- enicity in rats or mice.			

FOOD CODE	FOOD	FOOD FORM	* PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
07002AA	COFFEE	21 COOKED-NFS	0E2391	P 0.020000	0.020000		100.00	0.020000
08020AA	HOPS	21 COOKED-NFS	9F0809	P 0.500000	0.500000		2.00	0.010000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005RA	TOMATOES-PUREE	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		1.00	0.001000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		1.00	0.001000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		1.00	0.001000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	7F0521	P 0.100000	0.100000		1.00	0.001000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AB	POTATO(WH)-UNSPEC	22 COOKED-FRESH-BAKED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	8F0673	P 0.500000	0.500000		24.00	0.120000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	8F0673	P 0.500000	0.500000		24.00	0.120000
14013DA	POTATO(WH)-DRY	32 COOKED-FRESH-BAKED	8F0673	P 0.500000	0.500000		24.00	0.120000
15001AA	BEANS-DRY-GRT NO 00 NOT SPECIFIED (NO CONSUMPTION)	22 COOKED-FRESH-BAKED	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	8F0727	P 0.100000	0.100000		3.00	0.003000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	8F0727	P 0.100000	0.100000		3.00	0.003000

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	ONCO: E (Rfd/PR Committee)	No evidence of carcinog- enicity in rats or mice.			

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15003AC	BEANS-SUCC-MAX	21 COOKED-NFS	8F0727	P 0.100000	0.100000		4.00	0.004000
15005AA	CORN, SHEET	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		19.00	0.019000
15005AA	CORN, SHEET	21 COOKED-NFS	7F0521	P 0.100000	0.100000		19.00	0.019000
15006AA	CORN, SHEET	31 COOKED-FRESH OR CANNED	7F0521	P 0.100000	0.100000		19.00	0.019000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	NOPE1#	P 0.100000	0.100000		11.00	0.011000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	NOPE1#	P 0.100000	0.100000		11.00	0.011000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	NOPE1#	P 0.100000	0.100000		11.00	0.011000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15013AA	MUNG BEANS	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	8F0727	P 0.100000	0.100000		4.00	0.004000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	8F0727	P 0.100000	0.100000		3.00	0.003000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	NOPE1#	P 0.100000	0.100000		1.00	0.001000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	8F0727	P 0.100000	0.100000		3.00	0.003000
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	8F0727	P 0.100000	0.100000		4.00	0.004000
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15032AA	BEANS-DRY	21 COOKED-NFS	8F0727	P 0.100000	0.100000		3.00	0.003000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	8F0727	P 0.100000	0.100000		3.00	0.003000
24001AA	BARLEY	21 COOKED-NFS	8F0727	P 0.100000	0.100000		1.00	0.001000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		3.00	0.003000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	7F0521	P 0.100000	0.100000		3.00	0.003000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	7F0521	P 0.100000	0.100000		3.00	0.003000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	7F0521	P 0.100000	0.100000		3.00	0.003000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	7F0521	P 0.100000	0.100000		3.00	0.003000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	7F0521	P 0.100000	0.100000		3.00	0.003000
24002SA	CORN SUGAR	21 COOKED-NFS	7F0521	P 0.100000	0.100000		3.00	0.003000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	7F0521	P 0.100000	0.100000		3.00	0.003000
24004AA	RICE-ROUGH	21 COOKED-NFS	7F0521	P 0.100000	0.100000		10.00	0.010000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	7F0521	P 0.100000	0.100000		10.00	0.010000
24004AB	RICE-MILLED	21 COOKED-NFS	7F0521	P 0.100000	0.100000		10.00	0.010000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	7F0521	P 0.100000	0.100000		10.00	0.010000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	7F0521	P 0.100000	0.100000		10.00	0.010000
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	7F0521	P 0.100000	0.100000		10.00	0.010000

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FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	8F0723	P 0.100000	0.100000		1.00	0.001000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007AA	WHEAT-ROUGH	21 COOKED-NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	0F0938	P 0.050000	0.050000		1.00	0.000500
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	0F0938	P 0.050000	0.050000		1.00	0.000500
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	0F0938	P 0.050000	0.050000		1.00	0.000500
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	0F0938	P 0.050000	0.050000		1.00	0.000500
24007MA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007MA	WHEAT-FLOUR	21 COOKED-NFS	0F0938	P 0.050000	0.050000		1.00	0.000500
24007MA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	0F0938	P 0.050000	0.050000		1.00	0.000500
24007MA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	0F0938	P 0.050000	0.050000		1.00	0.000500
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	378	P 0.300000	0.300000		5.00	0.015000
25002SA	BEET SUGAR	21 COOKED-NFS	378	P 0.300000	0.300000		5.00	0.015000
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	378	P 0.300000	0.300000		5.00	0.015000
25002SA	BEET SUGAR	31 COOKED-FRESH OR CANNED	378	P 0.300000	0.300000		5.00	0.015000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SA	CANE SUGAR	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	8F0723	P 0.100000	0.100000		10.00	0.010000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	8F0723	P 0.100000	0.100000		10.00	0.010000
26011AA	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	8F0727	P 0.100000	0.100000		3.00	0.003000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	7F0521	P 0.100000	0.100000		3.00	0.003000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	0F0938	P 0.050000	0.050000		7.00	0.003500
270030A	COTTONSEED-OIL	18 PROCESSED OIL	0F0938	P 0.050000	0.050000		7.00	0.003500
270070A	PEANUTS-OIL	18 PROCESSED OIL	NOPE1#	P 0.100000	0.100000		11.00	0.011000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023MA	SOY-FL, FULL FAT	21 COOKED-NFS	NOPE1#	P 0.100000	0.100000		1.00	0.001000
28023MA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	NOPE1#	P 0.100000	0.100000		1.00	0.001000

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53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	8F0673	P 0.050000	0.050000		100.00	0.050000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	8F0673	P 0.050000	0.050000		100.00	0.050000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53005FA	SHEEP-FAT	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	8F0673	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006KA	PORK-KIDNEY	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008BA	TURKEY-BYP	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008LA	TURKEY ORGAN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MB	TURKEY+SKIN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55013BA	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	8F0673	P 0.050000	0.050000		100.00	0.050000
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55013MA	POULTRY, OTHER	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	8F0673	P 0.050000	0.050000		100.00	0.050000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 660

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL = 0.0500 mg/kg LEL = 0.2500 mg/kg 0.00 ppm	Brain CHE inhibition; Inhibition of RBC	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (Rfd/PR Committee)	No evidence of carcinogenicity in rats or mice.			

FOOD CODE	FOOD	FOOD FORM	PET #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	8F0673	P 0.050000	0.050000		100.00	0.050000
55014AC	EGGS-YOLK ONLY	00 NOT SPECIFIED (NO CONSUMPTION)	8F0673	P 0.050000	0.050000		100.00	0.050000
55015BA	CHICKEN-BYP	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015LA	CHICKEN-W/O SKIN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	8F0673	P 0.050000	0.050000		100.00	0.050000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	8F0673	P 0.050000	0.050000		100.00	0.050000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm ONCO: E (RfD/PR Committee)	Brain CHE inhibition; Inhibition of RBC No evidence of carcinog- enicity in rats or mice.	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98

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	%RFD
	CURRENT TMRC*	NEW TMRC**				
U.S. POPULATION - 48 STATES	0.001523	0.001523	761.492500	0.000000	0.000551	275.65900
U.S. POPULATION - SPRING SEASON	0.001476	0.001476	738.220000	0.000000	0.000531	265.27800
U.S. POPULATION - SUMMER SEASON	0.001512	0.001512	755.979000	0.000000	0.000545	272.37650
U.S. POPULATION - FALL SEASON	0.001553	0.001553	776.748000	0.000000	0.000568	284.18700
U.S. POPULATION - WINTER SEASON	0.001541	0.001541	770.344000	0.000000	0.000562	280.79000
NORTHEAST REGION	0.001475	0.001475	737.637500	0.000000	0.000551	275.39050
NORTH CENTRAL REGION	0.001602	0.001602	800.783500	0.000000	0.000575	287.55800
SOUTHERN REGION	0.001504	0.001504	752.000000	0.000000	0.000525	262.52000
WESTERN REGION	0.001492	0.001492	745.998000	0.000000	0.000563	281.34700
HISPANICS	0.001710	0.001710	855.140000	0.000000	0.000658	329.22800
NON-HISPANIC WHITES	0.001521	0.001521	760.416000	0.000000	0.000547	273.51100
NON-HISPANIC BLACKS	0.001442	0.001442	721.215000	0.000000	0.000527	263.65900
NON-HISPANIC OTHERS	0.001407	0.001407	703.617500	0.000000	0.000560	280.06550
NURSING INFANTS (< 1 YEAR OLD)	0.000841	0.000841	420.721000	0.000000	0.000434	217.07200
NON-NURSING INFANTS (< 1 YEAR OLD)	0.003095	0.003095	1547.259500	0.000000	0.001718	858.80200
FEMALES (13+ YEARS, PREGNANT)	0.001081	0.001081	540.446000	0.000000	0.000387	193.41000
FEMALES 13+ YEARS, NURSING	0.001232	0.001232	615.975500	0.000000	0.000456	227.99550
CHILDREN (1-6 YEARS OLD)	0.003290	0.003290	1644.848000	0.000000	0.001292	646.16500
CHILDREN (7-12 YEARS OLD)	0.002364	0.002364	1182.019500	0.000000	0.000865	432.64300
MALES (13-19 YEARS OLD)	0.001672	0.001672	835.833000	0.000000	0.000603	301.46050
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.001373	0.001373	686.290500	0.000000	0.000479	239.25850
MALES (20 YEARS AND OLDER)	0.001200	0.001200	600.152000	0.000000	0.000409	204.68000
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.001026	0.001026	513.030000	0.000000	0.000348	173.94550

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

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm	Brain CHE Inhibition; Inhibition of RBC	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
ONCO: E (RfD/PR Committee)					
No evidence of carcinogenicity in rats or mice.					

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
07002AA	COFFEE 21 COOKED-NFS	0.020	0.000000	0.000	0.02000	0.000000	0.000
08020AA	HOPS 21 COOKED-NFS	0.500	0.000000	0.000	0.01000	0.000000	0.000
25003SA	CANE SUGAR 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.100	0.085490	42.745	0.01000 0.01000 0.01000 0.01000	0.000342 0.002883 0.000704 0.004620	0.171 1.442 0.352 2.310
25003SB	SUGAR-MOLASSES 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.100	0.000698	0.349	0.01000 0.01000 0.01000 0.01000	0.000000 0.000000 0.000054 0.000015	0.000 0.000 0.027 0.008
26011AA	GUAR BEANS 00 NOT SPECIFIED (NO CONSUMPTION)	0.100	0.000000	0.000	0.00300	0.000000	0.000
270030A	COTTONSEED-OIL 18 PROCESSED OIL	0.050	0.000272	0.136	0.00350	0.000019	0.010
27003MA	COTTONSEED-MEAL 18 PROCESSED OIL	0.050	0.000031	0.016	0.00350	0.000002	0.001
CROP GROUP TOTALS FOR UNSPECIFIED:				0.086491	43.246	0.008639	4.320
14013AA	POTATOES(WHITE)-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.500	0.138393	69.197	0.12000 0.12000 0.12000	0.006626 0.007644 0.018944	3.313 3.822 9.472
14013AB	POTATOES(WHITE)-UNSPECIFIED 22 COOKED-FRESH-BAKED	0.500	0.000000	0.000	0.12000	0.000000	0.000
14013AC	POTATOES(WHITE)-PEELED 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.500	0.396251	198.126	0.12000 0.12000 0.12000 0.12000	0.011363 0.010611 0.067143 0.005983	5.682 5.306 33.572 2.992
14013DA	POTATOES(WHITE)-DRY 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.500	0.162828	81.414	0.12000 0.12000	0.002046 0.037033	1.023 18.517
14013HA	POTATOES(WHITE)-PEEL ONLY 22 COOKED-FRESH-BAKED	0.500	0.000000	0.000	0.12000	0.000000	0.000
25002SA	BET SUGAR 10 RAW-FRESH OR NFS	0.300	0.115764	57.882	0.01500	0.000232	0.116

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX - DOG NOEL= 0.0500 mg/kg LOEL= 0.2500 mg/kg 0.00 ppm	Brain ChE inhibition; Inhibition of RBC	ADI UF -->300 Opp RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (RfD/PR Committee)	No evidence of carcinog- enicity in rats or mice.			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
	21 COOKED-NFS				0.01500	0.001952	0.976
	22 COOKED-FRESH-BAKED				0.01500	0.000476	0.238
	31 COOKED-FRESH OR CANNED				0.01500	0.003128	1.564
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:			0.813236	406.618		0.173181	86.591

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
13013AA	LETTUCE-LEAFY VARIETIES 10 RAW-FRESH OR NFS	0.100	0.000000	0.000	0.00100	0.000000	0.000
13020AA	LETTUCE-UNSPECIFIED 10 RAW-FRESH OR NFS	0.100	0.000337	0.169	0.00100	0.000003	0.002
13045AA	LETTUCE-HEAD VARIETIES 10 RAW-FRESH OR NFS	0.100	0.000000	0.000	0.00100	0.000000	0.000
	21 COOKED-NFS				0.00100	0.000000	0.000
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):			0.000337	0.169		0.000003	0.002

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
15001AA	BEANS-DRY-GREAT NORTHERN 00 NOT SPECIFIED (NO CONSUMPTION)	0.100	0.000000	0.000	0.00300	0.000000	0.000
15001AB	BEANS-DRY-KIDNEY 21 COOKED-NFS	0.100	0.002069	1.035	0.00300	0.000062	0.031
	31 COOKED-FRESH OR CANNED				0.00300	0.000000	0.000
15001AC	BEANS-DRY-LIMA 21 COOKED-NFS	0.100	0.000900	0.000	0.00300	0.000000	0.000
15001AD	BEANS-DRY-NAVY (PEA) 21 COOKED-NFS	0.100	0.001545	0.773	0.00300	0.000002	0.001
	31 COOKED-FRESH OR CANNED				0.00300	0.000044	0.022
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS	0.100	0.004008	2.004	0.00300	0.000010	0.005
	25 COOKED-FRESH-FRIED				0.00300	0.000001	0.001
	31 COOKED-FRESH OR CANNED				0.00300	0.000109	0.055
15001AF	BEANS-DRY-PINTO 21 COOKED-NFS	0.100	0.002001	1.001	0.00300	0.000060	0.030
15002AA	BEANS-SUCCULENT-LIMA 10 RAW-FRESH OR NFS	0.100	0.004078	2.039	0.00400	0.000000	0.000
	21 COOKED-NFS				0.00400	0.000163	0.082
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS	0.100	0.082003	41.002	0.00400	0.003280	1.640
15003AB	BEANS-SUCCULENT-OTHER 10 RAW-FRESH OR NFS	0.100	0.002536	1.268	0.00400	0.000000	0.000
	21 COOKED-NFS				0.00400	0.000101	0.051
15003AC	BEANS-SUCCULENT-YELLOW,MAX 21 COOKED-NFS	0.100	0.000244	0.122	0.00400	0.000010	0.005

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Cashell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX-DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm	Brain Che inhibition; Inhibition of RBC	ADI UF -->300 Opp RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (Rfd/PR Committee)	No evidence of carcinog- enicity in rats or mice.			

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

FOOD CODE	FOODNAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
15006AA	PEANUTS-WHOLE	0.100	P	0.002808	1.404	0.01100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.01100	0.000272	0.136
	21 COOKED-NFS					0.01100	0.000036	0.018
15013AA	MUNG BEANS (SPROUTS)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00300	0.000000	0.000
	21 COOKED-NFS					0.00300	0.000000	0.000
15022AA	BEANS-DRY-BROADBEANS(MATURE SEED)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00400	0.000000	0.000
15022AB	BEANS-SUCCULENT-BROADBEANS(IMMAT. SEED)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00300	0.000000	0.000
15023AA	BEANS-DRY-PIGEON BEANS	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	21 COOKED-NFS					0.00300	0.000013	0.007
15027AA	BEANS-UNSPECIFIED	0.100	P	0.000446	0.223	0.00300	0.000013	0.007
	21 COOKED-NFS					0.00100	0.000000	0.000
15029AA	SOYBEANS-SPROUTED SEEDS	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00300	0.000000	0.000
15030AA	BEANS-DRY-HYACINTH(MATURE SEEDS)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00400	0.000000	0.000
15030AB	BEANS-SUCCULENT-HYACINTH(YOUNG PODS)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.00300	0.000011	0.006
15031AA	BEANS-DRY-BLACKEYE PEAS(COMPEAS)	0.100	P	0.000361	0.181	0.00300	0.000000	0.000
	21 COOKED-NFS					0.00300	0.000000	0.000
15032AA	BEANS-DRY-GARBANZO(CHICK PEA)	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	21 COOKED-NFS					0.00300	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.01100	0.000013	0.007
270070A	PEANUTS-OIL	0.100	P	0.000120	0.060	0.00100	0.000000	0.000
	18 PROCESSED OIL					0.00100	0.001360	0.680
270100A	SOYBEANS-OIL	0.100	P	0.135963	67.982	0.00100	0.000000	0.000
	18 PROCESSED OIL					0.00100	0.000000	0.000
28023AA	SOYBEANS-UNSPECIFIED	0.100	P	0.000000	0.000	0.00100	0.000000	0.000
	21 COOKED-NFS					0.00100	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00100	0.000000	0.000
	21 COOKED-NFS					0.00100	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.00100	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.00100	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.00100	0.000000	0.000
28023AB	SOYBEANS-MATURE,SEEDS DRY	0.100	P	0.000000	0.000	0.00100	0.000033	0.017
	21 COOKED-NFS					0.00100	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00100	0.000000	0.000
28023AA	SOYBEANS-FLOUR, FULL FAT	0.100	P	0.003405	1.703	0.00100	0.000033	0.017
	21 COOKED-NFS					0.00100	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00100	0.000000	0.000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #560 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm ONCO: E (Rfd/PR Committee)	Brain CHE Inhibition; Inhibition of RBC No evidence of carcinog- enicity in rats or mice.	ADI UF -->300 OPP Rfd= 0.000200 EPA Rfd= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
28023WB	31 COOKED-FRESH OR CANNED SOYBEANS-FLOUR, LOW FAT	0.100	0.000000	0.000	0.00100	0.000001	0.001
	21 COOKED-NFS				0.00100	0.000000	0.000
28023WC	10 RAW-FRESH OR NFS SOYBEANS-FLOUR, DEFATTED	0.100	0.023715	11.858	0.00100	0.000000	0.000
	21 COOKED-NFS				0.00100	0.000013	0.007
	22 COOKED-FRESH-BAKED				0.00100	0.000003	0.002
	51 COOKED-CANNED				0.00100	0.000218	0.109
	53 COOKED-CANNED-BOILED				0.00100	0.000003	0.002
CROP GROUP TOTALS FOR LEGUME VEGETABLES:			0.265302	132.651		0.005818	2.909

11005AA	10 RAW-FRESH OR NFS TOMATOES-WHOLE	0.100	0.045319	22.660	0.01000	0.000036	0.018
	21 COOKED-NFS				0.01000	0.000903	0.452
11005JA	31 COOKED-FRESH OR CANNED TOMATOES-JUICE	0.100	0.000000	0.000	0.01000	0.003593	1.797
	10 RAW-FRESH OR NFS				0.01000	0.000000	0.000
	21 COOKED-NFS				0.01000	0.000000	0.000
11005RA	10 RAW-FRESH OR NFS TOMATOES-PUREE	0.100	0.034583	17.292	0.01000	0.000000	0.000
	21 COOKED-NFS				0.01000	0.000286	0.143
	31 COOKED-FRESH OR CANNED				0.01000	0.001823	0.912
	32 COOKED-FRESH OR CANNED-BAKED				0.01000	0.000022	0.011
	51 COOKED-CANNED				0.01000	0.001328	0.664
11005TA	21 COOKED-NFS TOMATOES-PASTE	0.100	0.016289	8.145	0.01000	0.000860	0.430
	22 COOKED-FRESH-BAKED				0.01000	0.000183	0.092
	31 COOKED-FRESH OR CANNED				0.01000	0.000586	0.293
11005UA	21 COOKED-NFS TOMATOES-CATSUP	0.100	0.000941	0.471	0.01000	0.000094	0.047
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITIS):			0.097132	48.566		0.009714	4.857

15005AA	10 RAW-FRESH OR NFS CORN, SWEET	0.100	0.040883	20.442	0.01900	0.000000	0.000
	21 COOKED-NFS				0.01900	0.002960	1.480
	31 COOKED-FRESH OR CANNED				0.01900	0.004808	2.404
24001AA	21 COOKED-NFS BARLEY	0.100	0.013953	6.977	0.00100	0.000140	0.070
24002EA	10 RAW-FRESH OR NFS CORN, GRAIN-ENDOSPERM	0.100	0.028247	14.124	0.00300	0.000000	0.000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm	Brain ChE inhibition; Inhibition of RBC No evidence of carcinog- enicity in rats or mice.	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (RfD/PR Committee)				

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
24002HA	CORN, GRAIN-BRAN	0.100	P	0.000000	0.000	0.000000	0.000
	21 COOKED-NFS				0.00300	0.000535	0.268
	22 COOKED-FRESH-BAKED				0.00300	0.000183	0.092
	23 COOKED-FRESH-BOILED				0.00300	0.000129	0.065
24002SA	CORN SUGAR	0.100	P	0.068254	34.127	0.00300	0.000000
	10 RAW-FRESH OR NFS				0.00300	0.000000	0.000
	21 COOKED-NFS				0.00300	0.002034	1.017
	22 COOKED-FRESH-BAKED				0.00300	0.000014	0.007
24004AA	RICE-ROUGH	0.100	P	0.000000	0.000	0.000000	0.000
	21 COOKED-NFS				0.01000	0.000000	0.000
	23 COOKED-FRESH-BOILED				0.01000	0.000000	0.000
24004AB	RICE-MILLED	0.100	P	0.132207	66.104	0.01000	0.007532
	21 COOKED-NFS				0.01000	0.000240	0.120
	22 COOKED-FRESH-BAKED				0.01000	0.000674	0.337
	23 COOKED-FRESH-BOILED				0.01000	0.004774	2.387
24006AA	SORGHUM (INCLUDING MILO)	0.100	P	0.000000	0.000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)				0.00100	0.000000	0.000
24007AA	WHEAT-ROUGH	0.050	P	0.006115	3.058	0.00050	0.000000
	10 RAW-FRESH OR NFS				0.00050	0.000004	0.002
	21 COOKED-NFS				0.00050	0.000014	0.007
	22 COOKED-FRESH-BAKED				0.00050	0.000043	0.022
	23 COOKED-FRESH-BOILED				0.00050	0.000000	0.000
24007GA	WHEAT-GERM	0.050	P	0.000022	0.011	0.00050	0.000000
	10 RAW-FRESH OR NFS				0.00050	0.000000	0.000
	22 COOKED-FRESH-BAKED				0.00050	0.000000	0.000
24007HA	WHEAT-BRAN	0.050	P	0.000051	0.026	0.00050	0.000000
	10 RAW-FRESH OR NFS				0.00050	0.000000	0.000
	21 COOKED-NFS				0.00050	0.000001	0.001
	22 COOKED-FRESH-BAKED				0.00050	0.000000	0.000
24007MA	WHEAT-FLOUR	0.050	P	0.045403	22.702	0.00050	0.000000
	10 RAW-FRESH OR NFS				0.00050	0.000336	0.168
	21 COOKED-NFS				0.00050	0.000096	0.048
	22 COOKED-FRESH-BAKED				0.00050	0.000022	0.011
	25 COOKED-FRESH-FRIED				0.00050	0.000000	0.000
270020A	CORN, GRAIN-OIL	0.100	P	0.001211	0.606	0.00300	0.000036
	18 PROCESSED OIL				0.00300	0.000036	0.018
CROP GROUP TOTALS FOR CEREAL GRAINS:				0.336346	168.173	0.024575	12.288

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm	Brain Che inhibition; Inhibition of RBC No evidence of carcinog- enicity in rats or mice.	ADI UF --300 Opp RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98

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

FOOD CODE	FOODNAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53001BA	BEEF-MEAT BYPRODUCTS	0.050	P	0.000551	0.276	0.05000	0.000551	0.276
	21 COOKED-NFS					0.05000	0.000000	0.000
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.05000	0.000000	0.000
53001BB	BEEF(ORGAN MEATS)-OTHER	0.050	P	0.000155	0.078	0.05000	0.000077	0.039
	21 COOKED-NFS					0.05000	0.000079	0.040
	51 COOKED-CANNED					0.05000	0.000000	0.000
53001DA	BEEF-DRIED	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000030	0.015
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.050	P	0.009564	4.782	0.05000	0.006238	3.119
	10 RAW-FRESH OR NFS					0.05000	0.000702	0.351
	21 COOKED-NFS					0.05000	0.001136	0.568
	22 COOKED-FRESH-BAKED					0.05000	0.001299	0.650
	23 COOKED-FRESH-BOILED					0.05000	0.000159	0.080
	24 COOKED-FRESH-BROILED					0.05000	0.000000	0.000
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000349	0.175
53001LA	BEEF(ORGAN MEATS)-LIVER	0.050	P	0.001562	0.781	0.05000	0.001212	0.606
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.05000	0.053690	26.845
	10 RAW-FRESH OR NFS					0.05000	0.001429	0.715
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.050	P	0.061393	30.697	0.05000	0.003094	1.547
	21 COOKED-NFS					0.05000	0.003180	1.590
	22 COOKED-FRESH-BAKED					0.05000	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.05000	0.000000	0.000
	24 COOKED-FRESH-BROILED					0.05000	0.000000	0.000
53002BA	GOAT-MEAT BYPRODUCTS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
53002BB	GOAT(ORGAN MEATS)-OTHER	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
53002FA	GOAT(BONELESS)-FAT	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
53002KA	GOAT(ORGAN MEATS)-KIDNEY	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
53002LA	GOAT(ORGAN MEATS)-LIVER	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	23 COOKED-FRESH-BOILED					0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
53003AA	HORSE	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX- DOG NOEL= 0.0500 mg/kg 0.00 ppm LEL= 0.2500 mg/kg 0.00 ppm ONCO: E (Rfd/PR Committee)	Brain ChE inhibition; Inhibition of RBC No evidence of carcinogenicity in rats or mice.	ADI UF -->300 OPP RFD= 0.000200 EPA RFD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53005BA	SHEEP-MEAT BYPRODUCTS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS							
53005BB	SHEEP(ORGAN MEATS)-OTHER	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS							
53005FA	SHEEP(BONELESS)-FAT	0.050	P	0.000363	0.182	0.05000	0.000363	0.182
	21 COOKED-NFS							
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS							
53005LA	SHEEP(ORGAN MEATS)-LIVER	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.050	P	0.003152	1.576	0.05000	0.000112	0.056
	21 COOKED-NFS							
	31 COOKED-FRESH OR CANNED							
53006BA	PORK-MEAT BYPRODUCTS	0.050	P	0.000287	0.144	0.05000	0.003040	1.520
	21 COOKED-NFS							
53006BB	PORK(ORGAN MEATS)-OTHER	0.050	P	0.000077	0.039	0.05000	0.000287	0.144
	21 COOKED-NFS							
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.050	P	0.007326	3.663	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS							
	21 COOKED-NFS							
	23 COOKED-FRESH-BOILED							
	25 COOKED-FRESH-FRIED							
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS							
53006LA	PORK(ORGAN MEATS)-LIVER	0.050	P	0.000753	0.377	0.05000	0.000753	0.377
	21 COOKED-NFS							
	25 COOKED-FRESH-FRIED							
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.050	P	0.022087	11.044	0.05000	0.020613	10.307
	21 COOKED-NFS							
	25 COOKED-FRESH-FRIED							
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							
CROP GROUP TOTALS FOR RED MEAT:				0.107270	53.635		0.107270	53.635

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Caswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX - DOG NOEL = 0.0500 mg/kg 0.00 Ppm LEL = 0.2500 mg/kg 0.00 Ppm	Brain Che inhibition; Inhibition of RBC	ADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	OHCO: E (Rfd/PR Committee)	No evidence of carcinogenicity in rats or mice.			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPH)	ARC (UG/KG/DAY)	%RFD
55008BA	TURKEY-BYPRODUCTS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
55008LA	TURKEY-GIBLETS (LIVER)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.050	P	0.005996	2.998	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.05000	0.005956	2.978
	62 COOKED-FRESH OR FROZEN-BAKED					0.05000	0.000040	0.020
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	0.050	P	0.004068	2.034	0.05000	0.004068	2.034
	21 COOKED-NFS					0.05000	0.000000	0.000
55008MC	TURKEY-UNSPECIFIED	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
55013BA	POULTRY, OTHER-BYPRODUCTS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
55015BA	CHICKEN-BYPRODUCTS	0.050	P	0.000000	0.000	0.05000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.05000	0.000000	0.000
55015LA	CHICKEN-GIBLETS(LIVER)	0.050	P	0.000800	0.400	0.05000	0.000800	0.400
	21 COOKED-NFS					0.05000	0.000000	0.000
	25 COOKED-FRESH-FRIED					0.05000	0.000800	0.400
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	0.050	P	0.016417	8.209	0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.05000	0.000045	0.023
	25 COOKED-FRESH-FRIED					0.05000	0.000000	0.000
	31 COOKED-FRESH OR CANNED					0.05000	0.014542	7.271
	53 COOKED-CANNED-BOILED					0.05000	0.001064	0.532
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	0.050	P	0.025422	12.711	0.05000	0.022568	11.284
	21 COOKED-NFS					0.05000	0.002854	1.427
	25 COOKED-FRESH-FRIED					0.05000	0.002854	1.427

CROP GROUP TOTALS FOR POULTRY: 0.052703 26.352 0.052703 26.352

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phorate (Thimet) Gaswell #660 CAS No. 298-02-2 A.I. CODE: 057201 CFR No. 180.206	CHRONIC TOX - DOG NOEL= 0.0500 mg/kg LEL= 0.2500 mg/kg 0.00 ppm	Brain CHE Inhibition; Inhibition of RBC	ADI UF --->300 OPP RfD= 0.000200 EPA RfD= 0.000200	No data gaps.	HED reviewed 2/12/98 HED reviewed 02/12/98 HED reviewed 02/12/98
	ONCO: E (RfD/PR Committee)	No evidence of carcinog- enicity in rats or mice.			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	THRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
50000DB	MILK-NON-FAT SOLIDS	0.020	P	1.020501	510.251	0.02000	0.571258	285.629
	10 RAW-FRESH OR NFS					0.02000	0.063608	31.804
	21 COOKED-NFS					0.02000	0.385634	192.817
50000FA	MILK-FAT SOLIDS	0.020	P	0.224372	112.186	0.02000	0.203101	101.551
	10 RAW-FRESH OR NFS					0.02000	0.018081	9.041
	21 COOKED-NFS					0.02000	0.003189	1.595
50000SA	MILK SUGAR (LACTOSE)	0.020	P	0.060609	30.305	0.02000	0.000000	0.000
	21 COOKED-NFS					0.02000	0.060609	30.305
55014AA	EGGS-WHOLE	0.050	P	0.023568	11.784	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.019016	9.508
	21 COOKED-NFS					0.05000	0.001425	0.713
	22 COOKED-FRESH-BAKED					0.05000	0.000336	0.168
	23 COOKED-FRESH-BOILED					0.05000	0.002792	1.396
	25 COOKED-FRESH-FRIED					0.05000		
55014AB	EGGS-WHITE ONLY	0.050	P	0.000206	0.103	0.05000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.05000	0.000000	0.000
	21 COOKED-NFS					0.05000	0.000181	0.091
	22 COOKED-FRESH-BAKED					0.05000	0.000025	0.013
	62 COOKED-FRESH OR FROZEN-BAKED					0.05000	0.000000	0.000
	81 COOKED-FROZEN					0.05000		
55014AC	EGGS-YOLK ONLY	0.050	P	0.006446	3.223	0.05000	0.002116	1.058
	10 RAW-FRESH OR NFS					0.05000	0.000012	0.006
	21 COOKED-NFS					0.05000	0.000100	0.050
	25 COOKED-FRESH-FRIED					0.05000	0.004218	2.109
	31 COOKED-FRESH OR CANNED					0.05000		
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				1.335702	667.851		1.335701	667.851

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

3.094519 1547.260

1.717604

858.802

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