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056801



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

AUG 31 1989

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for the Proposed Use of Carbaryl (Sevin) on Barley Grain, PP#8F3584

FROM: J. R. Tomerlin, Ph.D. *J.R. Tomerlin 8/29/89*
HED/SACB/TAS Staff (H7509C)

THRU: Reto Engler, Ph.D. *Reto Engler*
Chief, Science Analysis and Coordination Branch
Health Effects Division (H7509C)

TO: Dennis Edwards, PM 12
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Action Requested

Provide an estimate of exposure to carbaryl (Sevin) from published tolerances and the proposed use on barley grain.

Discussion

- Toxicology Endpoint: The routine chronic TAS analysis used a reference dose of 0.1 mg/kg body weight/day, based upon a NOEL of 10.0 mg/kg body weight/day and an uncertainty factor of 100 from a two year rat feeding study. The reference dose value is pending because of data gaps.
- Residue Information: Food uses evaluated were published tolerances from 40 CFR 180.169 and the proposed tolerance on barley (M. J. Nelson memo, 4/4/1989). Secondary residues of carbaryl in meat, milk, eggs, and poultry resulting from the proposed use on barley are not expected to exceed the published tolerances (F. D. Griffith memo, 5/9/88). Tolerance values were adjusted for per cent crop treated (PQUA, R. Holtorf, 10/87 as updated by K. Griffin, 8/9/89). For those crops for which the usage estimate is less than 10 per cent, 10 per cent crop treated was assumed to allow for seasonal variation in the amount of carbaryl applied (personal communication, K. Griffin). Note that the per cent crop treated data included an estimate that less than one per cent of the barley crop is treated with carbaryl. Consequently, an estimate of 10 per cent crop treated was also used for barley. A summary of the residue data used in the analysis is attached as Table 1.

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3. Chronic Exposure Analysis: The TAS chronic exposure analysis uses tolerance level residues and 100 per cent crop treated to estimate the Theoretical Maximum Residue Contribution (TMRC) for the overall U.S. population and 22 population subgroups. The Anticipated Residue Contribution (ARC) is an exposure estimate calculated using either anticipated residue data or residue estimates adjusted for per cent of crop treated. The TMRC and ARC exposure estimates for the overall U.S. population and all 22 TAS population groups are shown in Table 2. The exposure estimates for the overall U.S. population, non-nursing infants, and children aged 1 to 6 are summarized in the following table.

TMRC and ARC Exposure Estimates for Carbaryl

TMRC

Published Tolerances	0.092005 ^a 92.0 ^b	0.293963 294.0	0.215166 215.2
PP#8F3584	0.000860 0.9	0.002093 2.1	0.000170 0.2
TMRC TOTAL	0.092910 92.9	0.296056 296.1	0.215336 215.3

ARC

Published Tolerances	0.015070 15.1	0.047583 47.6	0.033795 33.8
PP#8F3584	0.000086 0.1	0.000209 0.2	0.000017 < 0.1
TOTAL	0.015156 15.2	0.047792 47.8	0.033812 33.8

^aExposure estimate in mg/kg body weight/day.

^bEstimated exposure expressed as a percentage of the reference dose.

4. Comments: The use of per cent crop treated data considerably reduced the exposure estimates that were calculated. The most highly exposed TAS population group had an exposure equivalent to 47.8 per cent of the reference dose, using the ARC. Even assuming that 100 per cent of the barley crop contains tolerance level residues, exposure is equivalent to no more than 2.2 per cent of the reference dose for any TAS population group.

Carbaryl (Sevin) Dietary Exposure Analysis, page 3

Note that the toxicological data base contains critical data gaps. Consequently, the interpretation of these exposure estimates may need to be revised pending receipt and review of additional data.

Attachments

cc: TAS (Tomerlin, SACB), DEB, Caswell #160, Landolt (TOX-IRB)

Table 1

CHEMICAL		SPEC. TYPE		EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl		2yr feeding- rat			UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160		NOEL= 10.0000 mg/kg			OPP RfD= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2		200.00 ppm			EPA RfD= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A.I. CODE: 056801		LEL= 20.0000 mg/kg					
CFR No. 180.169		400.00 ppm					
		ONCO:					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)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	368	P 12.00000	12.000000		10.00	1.200000
01002NA	BLACKBERRIES	21 COOKED-NFS	368	P 12.00000	12.000000		10.00	1.200000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	368	P 12.00000	12.000000		10.00	1.200000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	368	P 12.00000	12.000000		10.00	1.200000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	368	P 12.00000	12.000000		10.00	1.200000
01005AA	LOCANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	368	P 12.00000	12.000000		10.00	1.200000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	368	P 12.00000	12.000000		10.00	1.200000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	368	P 12.00000	12.000000		10.00	1.200000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	368	P 12.00000	12.000000		10.00	1.200000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	368	P 12.00000	12.000000		10.00	1.200000
01006AA	RASPBERRIES	70 RAW-FROZEN	368	P 12.00000	12.000000		10.00	1.200000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	281	P 10.00000	10.000000		10.00	1.000000
01009AA	BLUEBERRIES	21 COOKED-NFS	281	P 10.00000	10.000000		10.00	1.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	281	P 10.00000	10.000000		10.00	1.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	281	P 10.00000	10.000000		10.00	1.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	281	P 10.00000	10.000000		10.00	1.000000
01010AA	CRANBERRIES	21 COOKED-NFS	281	P 10.00000	10.000000		10.00	1.000000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	281	P 10.00000	10.000000		10.00	1.000000
01010AA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	281	P 10.00000	10.000000		10.00	1.000000
01010AA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	281	P 10.00000	10.000000		10.00	1.000000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	203	P 10.00000	10.000000		10.00	1.000000
01014AA	GRAPES-FRESH	21 COOKED-NFS	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-JUICE	10 RAW-FRESH OR NFS,	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	203	P 10.00000	10.000000		20.00	2.000000
01014AA	GRAPES-JUICE	21 COOKED-NFS	203	P 10.00000	10.000000		20.00	2.000000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	222	P 10.00000	10.000000		30.00	3.000000
01016AA	STRAWBERRIES	21 COOKED-NFS	222	P 10.00000	10.000000		30.00	3.000000
01016AA	STRAWBERRIES	70 RAW-FROZEN	222	P 10.00000	10.000000		30.00	3.000000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	313	P 10.00000	10.000000		10.00	1.000000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	313	P 10.00000	10.000000		10.00	1.000000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 160

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			UF	OPR		
Carbaryl	4-yr feeding-rat		--100	0.100000	Data gaps, critical study need to be reviewed by HED Rfd committee.	Pending HED review.
Caswell #160	NOEL= 10.0000 mg/kg		0.100000	0.100000		EPA verified 05/31/85.
CAS No. 63-25-2	200.00 ppm		0.000000	0.000000		WHO last reviewed 1973.
A.I. CODE: 056801	LEL= 20.0000 mg/kg					
CFR No. 180.169	400.00 ppm					
	ONCO:					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)
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	313	P 10.00000	10.000000		10.00	1.000000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02004HA	LEMONS-PEEL	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02004JA	LEMONS-JUICE	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02005AA	LEMONS-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	313	P 10.00000	10.000000		10.00	1.000000
02005AA	LIMES-UNSPEC	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02005AB	LIMES-PULP	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02005HA	LIMES-PEEL	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02005JA	LIMES-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	313	P 10.00000	10.000000		10.00	1.000000
02006AA	ORANGES-PULP	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02006AB	ORANGES-PULP	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02006HA	ORANGES-PEEL	21 COOKED-NFS	313	P 10.00000	10.000000		10.00	1.000000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	313	P 10.00000	10.000000		10.00	1.000000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	313	P 10.00000	10.000000		10.00	1.000000
02008AA	TANGERINES-JUICE	15 RAW-FRESH OR CANNED	313	P 10.00000	10.000000		10.00	1.000000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	329	P 1.000000	1.000000		36.00	0.360000
03001AA	ALMONDS	21 COOKED-NFS	329	P 1.000000	1.000000		36.00	0.360000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	7E1974	P 1.000000	1.000000		10.00	0.100000
03004AA	CHESTNUTS	10 RAW-FRESH OR NFS	277	P 1.000000	1.000000		10.00	0.100000
03005AA	FILBERTS	21 COOKED-NFS	277	P 1.000000	1.000000		10.00	0.100000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	3E1324	P 1.000000	1.000000		10.00	0.100000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	3E1324	P 1.000000	1.000000		10.00	0.100000
03005AA	FILBERTS	21 COOKED-NFS	3E1324	P 1.000000	1.000000		10.00	0.100000
03008AA	PECANS	10 RAW-FRESH OR NFS	3E1324	P 1.000000	1.000000		10.00	0.100000
03008AA	PECANS	21 COOKED-NFS	3E1324	P 1.000000	1.000000		10.00	0.100000
03008AA	PECANS	22 COOKED-FRESH-BAKED	3E1324	P 1.000000	1.000000		10.00	0.100000
03008AA	PECANS	23 COOKED-FRESH-BOTTLED	3E1324	P 1.000000	1.000000		10.00	0.100000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	329	P 1.000000	1.000000		36.00	0.360000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	329	P 1.000000	1.000000		36.00	0.360000
03009AA	WALNUTS	21 COOKED-NFS	329	P 1.000000	1.000000		36.00	0.360000

Table 1, continued

CHEMICAL	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cadaveryl		UF ---100	Data gaps, critical study	Pending HED review.
Caswell #160	NOEL= 200.00 ppm	OPP RfD= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 53-25-2	LEL= 20.0000 mg/kg	EPA RfD= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A. I. CODE: 056801				
CFR No. 180.160				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)
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	329	P 1.000000	1.000000		36.00	0.360000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	9E2153	P 1.000000	1.000000		36.00	0.360000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	5E3291	P 10.000000	10.000000		20.00	2.000000
04001AA	APPLES-FRESH	21 COOKED-NFS	5E3291	P 10.000000	10.000000		20.00	2.000000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	5E3291	P 10.000000	10.000000		20.00	2.000000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	5E3291	P 10.000000	10.000000		20.00	2.000000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	5E3291	P 10.000000	10.000000		20.00	2.000000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	5E3291	P 10.000000	10.000000		20.00	2.000000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	5E3291	P 10.000000	10.000000		20.00	2.000000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	5E3291	P 10.000000	10.000000		20.00	2.000000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	5E3291	P 10.000000	10.000000		20.00	2.000000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	5E3291	P 10.000000	10.000000		10.00	1.000000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	5E3291	P 10.000000	10.000000		20.00	2.000000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	5E3291	P 10.000000	10.000000		20.00	2.000000
04003AA	PEARS-FRESH	51 COOKED-CANNED	5E3291	P 10.000000	10.000000		20.00	2.000000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	5E3291	P 10.000000	10.000000		20.00	2.000000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	5E3291	P 10.000000	10.000000		20.00	2.000000
04003DA	PEARS-DRIED	21 COOKED-NFS	5E3291	P 10.000000	10.000000		10.00	1.000000
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	5E3291	P 10.000000	10.000000		10.00	1.000000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	281	P 10.000000	10.000000		10.00	1.000000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	281	P 10.000000	10.000000		10.00	1.000000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	281	P 10.000000	10.000000		10.00	1.000000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	281	P 10.000000	10.000000		10.00	1.000000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	222	P 10.000000	10.000000		20.00	2.000000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	222	P 10.000000	10.000000		20.00	2.000000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	222	P 10.000000	10.000000		20.00	2.000000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	222	P 10.000000	10.000000		20.00	2.000000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	222	P 10.000000	10.000000		20.00	2.000000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	222	P 10.000000	10.000000		20.00	2.000000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	222	P 10.000000	10.000000		20.00	2.000000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	281	P 10.000000	10.000000		10.00	1.000000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	193	P 10.000000	10.000000		20.00	2.000000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	193	P 10.000000	10.000000		20.00	2.000000
05004AA	PEACHES-FRESH	21 COOKED-NFS	193	P 10.000000	10.000000		20.00	2.000000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	193	P 10.000000	10.000000		20.00	2.000000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	193	P 10.000000	10.000000		20.00	2.000000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	193	P 10.000000	10.000000		20.00	2.000000
05004DA	PEACHES-DRIED	21 COOKED-NFS	222	P 10.000000	10.000000		20.00	2.000000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	222	P 10.000000	10.000000		20.00	2.000000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	222	P 10.000000	10.000000		20.00	2.000000

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 160

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				UF	RfD=		
05005DA	PLUMS-PRUNES	2-yr feeding- rat		10.0000	mg/kg	Data gaps, critical study	Pending HED review.
05005DA	PLUMS-PRUNES	NOSES		0.100000		need to be reviewed by	EPA verified 05/31/85.
05005DA	PLUMS-PRUNES	200.00 ppm		0.000000		HED RfD committee.	WHO last reviewed 1973.
05005JA	PRUNE-JUICE	100.00 ppm					
05005JA	PRUNE-JUICE	400.00 ppm					
06001AA	AVOCADOS						
06002AA	BANANAS-UNSPEC						
06002AB	BANANAS-FRESH						
06002AB	BANANAS-FRESH						
06002AB	BANANAS-FRESH						
06002DA	BANANAS-DRIED						
06002DA	BANANAS-DRIED						
06008AA	LOQUATS						
06009AA	OLIVES						
06009AA	OLIVES						
06009AA	OLIVES						
06013AA	PINEAPPLE-PULP						
06013AA	PINEAPPLE-PULP						
06013AA	PINEAPPLE-PULP						
06013DA	PINEAPPLE-DRIED						
06013JA	PINEAPPLE-JUICE						
06013JA	PINEAPPLE-JUICE						
06013JA	PINEAPPLE-JUICE						
06016AA	PLANTAINS						
06016AA	PLANTAINS						
06016AA	PLANTAINS						
08015AA	DILL						
08022AA	HORSERADISH						
08048DA	PAPRIKA						
10002AA	CANTALOUPE-UNSP						
10002AB	CANTALOUPE-PULP						
10002AB	CANTALOUPE-PULP						
10003AA	CASABAS						
10004AA	CRENSHAW'S						
10005AA	HONEYDEW MELONS						
10007AA	PERSION MELONS						
10008AA	WATERMELON						
10008AA	WATERMELON						
10010AA	CUCUMBERS						

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
222	10 RAW-FRESH OR NFS		P 10.00000	10.000000		20.00	2.000000
222	21 COOKED-NFS		P 10.00000	10.000000		20.00	2.000000
222	31 COOKED-FRESH OR CANNED		P 10.00000	10.000000		20.00	2.000000
222	10 RAW-FRESH OR NFS		P 10.00000	10.000000		20.00	2.000000
222	62 COOKED-FRESH OR FROZEN-BAKED		P 10.00000	10.000000		20.00	2.000000
5E3292	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
231	22 COOKED-FRESH-BAKED		P 10.00000	10.000000		10.00	1.000000
231	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
231	21 COOKED-NFS		P 10.00000	10.000000		10.00	1.000000
231	31 COOKED-FRESH OR CANNED		P 10.00000	10.000000		10.00	1.000000
231	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
231	21 COOKED-NFS		P 10.00000	10.000000		10.00	1.000000
5E3291	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
337	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
337	11 RAW-FRESH-PICKLED,CORNEP,OR CURED		P 10.00000	10.000000		10.00	1.000000
337	21 COOKED-NFS		P 10.00000	10.000000		10.00	1.000000
5E3208	10 RAW-FRESH OR NFS		P 2.000000	2.000000		10.00	0.200000
5E3208	21 COOKED-NFS		P 2.000000	2.000000		10.00	0.200000
5E3208	31 COOKED-FRESH OR CANNED		P 2.000000	2.000000		10.00	0.200000
5E3208	10 RAW-FRESH OR NFS		P 2.000000	2.000000		10.00	0.200000
5E3208	15 RAW-FRESH OR CANNED		P 2.000000	2.000000		10.00	0.200000
5E3208	21 COOKED-NFS		P 2.000000	2.000000		10.00	0.200000
231	31 COOKED-FRESH OR CANNED		P 10.00000	10.000000		10.00	1.000000
231	23 COOKED-FRESH-BOILED		P 10.00000	10.000000		10.00	1.000000
231	25 COOKED-FRESH-FRIED		P 10.00000	10.000000		10.00	1.000000
7E3543	00 NOT SPECIFIED (NO CONSUMPTION)		P 0.200000	0.200000		100.00	0.200000
368	11 RAW-FRESH-PICKLED,CORIED,OR CURED		P 5.000000	5.000000		10.00	0.500000
228	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
318	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
318	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
318	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
318	21 COOKED-NFS		P 10.00000	10.000000		10.00	1.000000
318	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
318	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
318	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
318	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	10.000000		10.00	1.000000
318	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000
318	21 COOKED-NFS		P 10.00000	10.000000		10.00	1.000000
318	10 RAW-FRESH OR NFS		P 10.00000	10.000000		10.00	1.000000

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Catbaryl	air feeding: rat		UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160	NOEL= 10,000 mg/kg		OPP RfD= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2	200.00 ppm		EPA RfD= 0.000000	HED RED committee.	WHO last reviewed 1973.
A.I. CODE: 056801	LEL= 20,000 mg/kg				
CFR No. 180.169	400.00 ppm				On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
10010AA	CUCUMBERS	318	P 10.00000	10.000000		10.00	1.000000
10010AA	CUCUMBERS	318	P 10.00000	10.000000		10.00	1.000000
10011AA	PUMPKIN	318	P 10.00000	10.000000		10.00	1.000000
10011AA	PUMPKIN	318	P 10.00000	10.000000		10.00	1.000000
10011AA	PUMPKIN	318	P 10.00000	10.000000		10.00	1.000000
10013AA	SQUASH-SUMMER	318	P 10.00000	10.000000		10.00	1.000000
10013AA	SQUASH-SUMMER	318	P 10.00000	10.000000		10.00	1.000000
10014AA	SQUASH-WINTER	318	P 10.00000	10.000000		10.00	1.000000
10014AA	SQUASH-WINTER	318	P 10.00000	10.000000		10.00	1.000000
10014AA	SQUASH-WINTER	318	P 10.00000	10.000000		10.00	1.000000
10017AA	BITTER MELON	318	P 10.00000	10.000000		10.00	1.000000
10020AA	TOMEGOURD	228	P 10.00000	10.000000		10.00	1.000000
11001AA	EGPLANT	228	P 10.00000	10.000000		10.00	1.000000
11001AA	EGPLANT	228	P 10.00000	10.000000		10.00	1.000000
11003AA	PEPPERS, SWEET	228	P 10.00000	10.000000		10.00	1.000000
11003AA	PEPPERS, SWEET	228	P 10.00000	10.000000		10.00	1.000000
11003AB	CHILI PEPPERS	228	P 10.00000	10.000000		10.00	1.000000
11003AD	PEPPERS-OTHER	228	P 10.00000	10.000000		10.00	1.000000
11003AD	PEPPERS-OTHER	228	P 10.00000	10.000000		10.00	1.000000
11004AA	PIMIENTOS	228	P 10.00000	10.000000		10.00	1.000000
11004AA	PIMIENTOS	228	P 10.00000	10.000000		10.00	1.000000
11005AA	TOMATOES-WHOLE	228	P 10.00000	10.000000		10.00	1.000000
11005AA	TOMATOES-WHOLE	228	P 10.00000	10.000000		10.00	1.000000
11005AA	TOMATOES-WHOLE	228	P 10.00000	10.000000		10.00	1.000000
11005JA	TOMATOES-JUICE	228	P 10.00000	10.000000		10.00	1.000000
11005JA	TOMATOES-JUICE	228	P 10.00000	10.000000		10.00	1.000000
11005RA	TOMATOES-PUREE	228	P 10.00000	10.000000		10.00	1.000000
11005RA	TOMATOES-PUREE	228	P 10.00000	10.000000		10.00	1.000000
11005RA	TOMATOES-PUREE	228	P 10.00000	10.000000		10.00	1.000000
11005RA	TOMATOES-PUREE	228	P 10.00000	10.000000		10.00	1.000000
11005RA	TOMATOES-PUREE	228	P 10.00000	10.000000		10.00	1.000000
11005TA	TOMATOES-PASTE	228	P 10.00000	10.000000		10.00	1.000000
11005TA	TOMATOES-PASTE	228	P 10.00000	10.000000		10.00	1.000000
11005TA	TOMATOES-PASTE	228	P 10.00000	10.000000		10.00	1.000000
11005UA	TOMATOES-CATUP	368	P 12.00000	12.000000		10.00	1.200000
13001AA	BEETS-TOPS	368	P 12.00000	12.000000		10.00	1.200000
13001AA	BEETS-TOPS	368	P 12.00000	12.000000		10.00	1.200000

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 160

CHEMICAL	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl		UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160		OPP RED= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2		EPA RED= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A.I. CODE: 056801				
CFR No. 18C.169				

FOOD CODE	FOOD	EST. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13002AA	CELERY	7E1935	P 10.00000	10.000000		30.00	3.000000
13002AA	CELERY	7E1935	P 10.00000	10.000000		30.00	3.000000
13003AA	CHICORY	368	P 10.00000	10.000000		10.00	1.000000
13005AA	BROCCOLI	318	P 10.00000	10.000000		30.00	3.000000
13005AA	BROCCOLI	318	P 10.00000	10.000000		30.00	3.000000
13005AA	BROCCOLI	318	P 10.00000	10.000000		30.00	3.000000
13006AA	BRUSSEL SPROUTS	318	P 10.00000	10.000000		10.00	1.000000
13006AA	BRUSSEL SPROUTS	318	P 10.00000	10.000000		10.00	1.000000
13007AA	CABBAGE	318	P 10.00000	10.000000		10.00	1.000000
13007AA	CABBAGE	318	P 10.00000	10.000000		10.00	1.000000
13007AA	CABBAGE	318	P 10.00000	10.000000		10.00	1.000000
13008AA	CAULIFLOWER	318	P 10.00000	10.000000		30.00	3.000000
13008AA	CAULIFLOWER	318	P 10.00000	10.000000		30.00	3.000000
13009AA	COLLARDS	318	P 12.00000	12.000000		10.00	1.200000
13009AA	COLLARDS	318	P 12.00000	12.000000		10.00	1.200000
13010AA	CABBAGE-CHINESE	318	P 10.00000	10.000000		10.00	1.000000
13010AA	CABBAGE-CHINESE	318	P 10.00000	10.000000		10.00	1.000000
13011AA	KALE	318	P 12.00000	12.000000		10.00	1.200000
13012AA	KOHLRABI	318	P 10.00000	10.000000		10.00	1.000000
13013AA	LETTUCE-LEAFY	368	P 10.00000	10.000000		30.00	3.000000
13014AA	DANDELION	368	P 12.00000	12.000000		10.00	1.200000
13015AA	ENDIVE	368	P 10.00000	10.000000		10.00	1.000000
13015AA	ENDIVE	368	P 10.00000	10.000000		10.00	1.000000
13016AA	FENNEL	7E1935	P 10.00000	10.000000		30.00	3.000000
13020AA	LETTUCE-INSPEC	368	P 10.00000	10.000000		10.00	1.000000
13021AA	MUSTARD GREENS	318	P 12.00000	12.000000		10.00	1.200000
13021AA	MUSTARD GREENS	368	P 12.00000	12.000000		10.00	1.200000
13022AA	PARSLEY	368	P 12.00000	12.000000		10.00	1.200000
13022AA	PARSLEY	368	P 12.00000	12.000000		10.00	1.200000
13022AA	PARSLEY	368	P 12.00000	12.000000		10.00	1.200000
13024AA	SPINACH	368	P 12.00000	12.000000		10.00	1.200000
13024AA	SPINACH	368	P 12.00000	12.000000		10.00	1.200000
13024AA	SPINACH	368	P 12.00000	12.000000		10.00	1.200000
13025AA	SWISS CHARD	368	P 12.00000	12.000000		10.00	1.200000
13025AA	SWISS CHARD	368	P 12.00000	12.000000		10.00	1.200000
13025AA	SWISS CHARD	368	P 12.00000	12.000000		10.00	1.200000
13026AA	TURNIPS-ROOT	368	P 12.00000	12.000000		10.00	1.200000
13026AA	TURNIPS-ROOT	368	P 12.00000	12.000000		10.00	1.200000
13026AA	TURNIPS-ROOT	368	P 12.00000	12.000000		10.00	1.200000
13027AA	TURNIPS-ROOT	368	P 10.00000	10.000000		30.00	3.000000

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl	2yr bioassay		UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160	NOES		OPP RED= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-26-2	200.00 ppm		EPA RED= 0.000000	HED Rfd committee.	WHO last reviewed 1973.
A.I. CODE: 058901	SEL=				
CFR No. 140.157	400.00 ppm				
	ONC				On IRIS.

FOOD CODE	FOOD	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13045AA	LETTUCE-HEAD	368	P 10.00000	10.000000		30.00	3.000000
13048AA	CACTUS PADS	2E2712	P 12.00000	12.000000		10.00	1.200000
14001AA	BEETS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14001AA	BEETS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14001AA	BEETS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14001AA	BEETS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14001AA	BEETS-ROOTS	318	P 10.00000	10.000000		30.00	3.000000
14003AA	CARROTS	318	P 10.00000	10.000000		30.00	3.000000
14003AA	CARROTS	318	P 10.00000	10.000000		30.00	3.000000
14003AA	CARROTS	318	P 10.00000	10.000000		30.00	3.000000
14003AA	CARROTS	318	P 10.00000	10.000000		30.00	3.000000
14003AA	CARROTS	51	P 10.00000	10.000000		10.00	0.200000
14013AA	POTATO(WH)-WHOLE	OF0902	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(WH)-WHOLE	OF0902	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(WH)-WHOLE	OF0902	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(WH)-WHOLE	22	P 0.200000	0.200000		10.00	0.020000
14013AB	POTATO(WH)-PULP	21	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	22	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	23	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	25	P 0.200000	0.200000		10.00	0.020000
14013DA	POTATO(WH)-DRY	31	P 0.200000	0.200000		10.00	0.020000
14013DA	POTATO(WH)-DRY	31	P 0.200000	0.200000		10.00	0.020000
14013HA	POTATO(WH)-PEEL	22	P 0.200000	0.200000		10.00	0.020000
14014AA	RADISHES-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14014AB	RADISHES-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14015AA	RUTABAGAS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14015AA	RUTABAGAS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14015AB	RUTABAGAS-TOPS	368	P 5.000000	5.000000		10.00	0.500000
14016AA	SALSIFY	368	P 5.000000	5.000000		10.00	0.500000
14018AA	SWEETPOTATOES	6E1848	P 0.200000	0.200000		10.00	0.020000
14018AA	SWEETPOTATOES	6E1848	P 0.200000	0.200000		10.00	0.020000
14018AA	SWEETPOTATOES	51	P 0.200000	0.200000		10.00	0.020000
14019AA	TURNIPS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14019AA	TURNIPS-ROOTS	368	P 5.000000	5.000000		10.00	0.500000
14019AA	TURNIPS-ROOTS	21	P 5.000000	5.000000		10.00	0.500000
14021AA	PARSNIPS	368	P 5.000000	5.000000		10.00	0.500000
15001AA	BEANS-DRY-GRN NO	167	P 10.00000	10.000000		10.00	1.000000
15001AB	BEANS-DRY-KIDNEY	167	P 10.00000	10.000000		10.00	1.000000
15001AB	BEANS-DRY-KIDNEY	31	P 10.00000	10.000000		10.00	1.000000
15001AC	BEANS-DRY-LIMA	167	P 10.00000	10.000000		10.00	1.000000
15001AD	BEANS-DRY-NAVY	167	P 10.00000	10.000000		10.00	1.000000
15001AD	BEANS-DRY-NAVY	31	P 10.00000	10.000000		10.00	1.000000

Table 1, continued

CHEMICAL	EFFECTS	REFERENCE VALUES	DATA GAPS/COMMENTS	STATUS
Carbaryl	2yr feeding: rat	OPP RfD= 0.100000		
Caswell #160	NOEL: 10.0000 mg/kg	EPA RfD= 0.000000		
CAS No. 53-25-2	200.0000			
A.I. CODE: 056801	LEL: 20.0000			
CFR No. 180.169	400.0000			
	CNCO			On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15001AE	BEANS-DRY-OTHER	21	P 10.00000	10.00000		10.00	1.000000
15001AE	BEANS-DRY-OTHER	25	P 10.00000	10.00000		10.00	1.000000
15001AE	BEANS-DRY-OTHER	31	P 10.00000	10.00000		10.00	1.000000
15001AF	BEANS-DRY-PINTO	21	P 10.00000	10.00000		10.00	1.000000
15002AA	BEANS-SUCC-LIMA	10	P 10.00000	10.00000		10.00	1.000000
15002AA	BEANS-SUCC-LIMA	21	P 10.00000	10.00000		10.00	1.000000
15003AA	BEANS-SUCC-GRN	21	P 10.00000	10.00000		10.00	1.000000
15003AB	BEANS-SUCC-OTH	10	P 10.00000	10.00000		10.00	1.000000
15003AB	BEANS-SUCC-OTH	21	P 10.00000	10.00000		10.00	1.000000
15003AC	BEANS-SUCC-WAX	21	P 5.000000	5.000000		10.00	0.500000
15004AA	CORN, POP	21	P 5.000000	5.000000		30.00	1.500000
15005AA	CORN, SWEET	243	P 5.000000	5.000000		30.00	1.500000
15005AA	CORN, SWEET	243	P 5.000000	5.000000		30.00	1.500000
15005AA	CORN, SWEET	243	P 5.000000	5.000000		30.00	1.500000
15006AA	PEANUTS-WHOLE	302	P 5.000000	5.000000		10.00	0.500000
15006AA	PEANUTS-WHOLE	302	P 5.000000	5.000000		10.00	0.500000
15006AA	PEANUTS-WHOLE	302	P 5.000000	5.000000		10.00	0.500000
15007AA	PEAS DRY-GARDEN	387	P 10.00000	10.00000		10.00	1.000000
15007AA	PEAS DRY-GARDEN	387	P 10.00000	10.00000		10.00	1.000000
15009AA	PEAS SUCC-GARDEN	31	P 10.00000	10.00000		10.00	1.000000
15009AA	PEAS SUCC-GARDEN	31	P 10.00000	10.00000		10.00	1.000000
15011AA	LENTILES-WHOLE	31	P 10.00000	10.00000		10.00	1.000000
15011AB	LENTILES-SPLIT	21	P 10.00000	10.00000		10.00	1.000000
15013AA	MUNG BEANS	10	P 10.00000	10.00000		10.00	1.000000
15013AA	MUNG BEANS	21	P 10.00000	10.00000		10.00	1.000000
15013AA	MUNG BEANS	21	P 10.00000	10.00000		10.00	1.000000
15015AA	OKRA	21	P 10.00000	10.00000		10.00	1.000000
15015AA	OKRA	25	P 1.000000	1.000000		10.00	0.100000
15018AA	SURFIC-HER-SFEGS	10	P 10.00000	10.00000		10.00	1.000000
15022AA	BEANS-DRY-BROAD	00	P 10.00000	10.00000		10.00	1.000000
15022AB	BEANS-SUCC-BROAD	00	P 10.00000	10.00000		10.00	1.000000
15023AA	BEANS-DRY-PEAS	21	P 10.00000	10.00000		10.00	1.000000
15027AA	BEANS-UNG-FIC	21	P 10.00000	10.00000		10.00	1.000000
15029AA	SOYBEAN-SPROUTED	00	P 5.000000	5.000000		10.00	0.500000
15030AA	BEANS-DRY-HVAC	00	P 10.00000	10.00000		10.00	1.000000
15030AB	BEANS-SUCC-HVAC	00	P 10.00000	10.00000		10.00	1.000000
15031AA	BUKEYE PEAS-DRY	21	P 5.000000	5.000000		10.00	1.000000
15032AA	BEANS-DRY	21	P 10.00000	10.00000		10.00	1.000000
15032AA	BEANS-DRY	31	P 10.00000	10.00000		10.00	1.000000
16002AA	ASPARAGUS	333	P 10.00000	10.00000		30.00	3.000000
16002AA	ASPARAGUS	333	P 10.00000	10.00000		30.00	3.000000
16002AA	ASPARAGUS	23	P 10.00000	10.00000		30.00	3.000000

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl	2yr feeding- rat		UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160	NOEL= 10 0000 mg/kg		OPP RfD= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2	200.00 ppm		EPA RfD= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A.I. CODE: 059801	LEL= 20.0000 mg/kg				
CFR No. 180.160	400.00 ppm				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)
24001AA	BARLEY	COOKED-NFS	8F3584	N 15.00000	15.0000000		10.00	1.500000
24002EA	CORN, GRAIN-ENDD	10 RAW-FRESH OR NFS	443	P 5.00000	5.0000000		10.00	0.500000
24002EA	CORN, GRAIN-ENDD	21 COOKED-NFS	443	P 5.00000	5.0000000		10.00	0.500000
24002EA	CORN, GRAIN-ENDD	22 COOKED-FRESH-PAKED	443	P 5.00000	5.0000000		10.00	0.500000
24002EA	CORN, GRAIN-ENDD	23 COOKED-FRESH-BOILED	443	P 5.00000	5.0000000		10.00	0.500000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	443	P 5.00000	5.0000000		10.00	0.500000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	443	P 5.00000	5.0000000		10.00	0.500000
24002SA	CORN SUGAR	21 COOKED-NFS	443	P 5.00000	5.0000000		10.00	0.500000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	443	P 5.00000	5.0000000		10.00	0.500000
24004AA	RICE-ROUGH	21 COOKED-NFS	302	P 5.00000	5.0000000		10.00	0.500000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	302	P 5.00000	5.0000000		10.00	0.500000
24004AB	RICE-MILLED	21 COOKED-NFS	302	P 5.00000	5.0000000		10.00	0.500000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	302	P 5.00000	5.0000000		10.00	0.500000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	302	P 5.00000	5.0000000		10.00	0.500000
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	302	P 5.00000	5.0000000		10.00	0.500000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	302	P 10.00000	10.0000000		10.00	1.000000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007HA	WHEAT-BRAN	21 COOKED-NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007WA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007WA	WHEAT-FLOUR	21 COOKED-NFS	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007WA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24007WA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	7F1878	P 3.00000	3.0000000		10.00	0.300000
24012AA	MILLET	10 RAW-FRESH OR NFS	1E2497	P 3.00000	3.0000000		10.00	0.300000
24012AA	MILLET	21 COOKED-NFS	1E2497	P 3.00000	3.0000000		10.00	0.300000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6E1796	P 0.50000	0.5000000		10.00	0.050000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6E1796	P 0.50000	0.5000000		10.00	0.050000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	443	P 5.00000	5.0000000		10.00	0.500000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	212	P 5.00000	5.0000000		10.00	0.500000
270030A	COTTONSEED-OIL	19 PROCESSED OIL	212	P 5.00000	5.0000000		10.00	0.500000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	1E2498	P 5.00000	5.0000000		10.00	0.500000
270070A	PEANUTS-OIL	13 PROCESSED OIL	302	P 5.00000	5.0000000		10.00	0.500000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	302	P 5.00000	5.0000000		10.00	0.500000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	5E1564	P 1.00000	1.0000000		10.00	0.100000

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl			UF -->100	Data gaps, critical study	Pending HED review.
Caswell #160	10000 mg/kg		OPP RfD= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 53-25-2	200 mg/kg		EPA RfD= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A.I. CODE: C56801	LEL= 20.0000 mg/kg				
CFR No. 180.169	400.00 ppm				
	ONCC				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)
270160A	OLIVE OIL	18 PROCESSED OIL	337	P 10.00000	10.000000		10.00	1.000000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	302	P 5.000000	5.000000		10.00	0.500000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	302	P 5.000000	5.000000		10.00	0.500000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	302	P 5.000000	5.000000		10.00	0.500000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	302	P 5.000000	5.000000		10.00	0.500000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	302	P 5.000000	5.000000		10.00	0.500000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	302	P 5.000000	5.000000		10.00	0.500000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023WC	SOY-FL, DEFAT	21 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023WC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	302	P 5.000000	5.000000		10.00	0.500000
28023WC	SOY-FL, DEFAT	31 COOKED-FRESH OR CANNED	302	P 5.000000	5.000000		10.00	0.500000
28023WC	SOY-FL, DEFAT	51 COOKED-NFS	302	P 5.000000	5.000000		10.00	0.500000
28023WC	SOY-FL, DEFAT	53 COOKED-CANNED-ROILLED	203	P 10.00000	10.000000		20.00	2.000000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	203	P 10.00000	10.000000		20.00	2.000000
43058AA	WINE AND SHERRY	21 COOKED-NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	7F1878	P 0.300000	0.300000		10.00	0.030000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	7F1878	P 0.300000	0.300000		10.00	0.030000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	7F1878	P 0.300000	0.300000		10.00	0.030000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	7F1878	P 0.300000	0.300000		10.00	0.030000
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000
53001BB	BEEF-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001DA	BEEF-DRIED	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	24 COOKED-FRESH-ROILLED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	7F1878	P 0.100000	0.100000		10.00	0.010000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	7H5154	P 1.000000	1.000000		10.00	0.100000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	7H5154	P 1.000000	1.000000		10.00	0.100000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	7H5154	P 1.000000	1.000000		10.00	0.100000

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Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 160 DATE: 08/09/89 PAGE: 11

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
									2y: feeding rat	NDEL=	UF -->100	OPP RfD=	Data gaps, critical study need to be reviewed by HED RfD committee.	Pending HED review. EPA verified 05/31/85. MHO last reviewed 1973.	
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53001MA	BEEF-LEAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	7F1878	P 0.100000	0.100000		10.00	0.010000							
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	7F1878	P 0.100000	0.100000		10.00	0.010000							
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53002KA	GOAT-KIDNEY	25 COOKED-FRESH-FRIED	7H5154	P 1.000000	1.000000		10.00	0.100000							
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	7H5154	P 1.000000	1.000000		10.00	0.100000							
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	7F1878	P 0.100000	0.100000		10.00	0.010000							
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53005FA	SHEEP-FAT	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	7H5154	P 1.000000	1.000000		10.00	0.100000							
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	7H5154	P 1.000000	1.000000		10.00	0.100000							
53005MA	SHEEP-LEAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006BA	PORK-MEAT BYP	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006FA	PORK-FAT	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006KA	PORK-KIDNEY	21 COOKED-NFS	7H5154	P 1.000000	1.000000		10.00	0.100000							
53006LA	PORK-LIVER	21 COOKED-NFS	7H5154	P 1.000000	1.000000		10.00	0.100000							
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	7H5154	P 1.000000	1.000000		10.00	0.100000							
53006MA	PORK-LEAN	21 COOKED-NFS	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F1878	P 0.100000	0.100000		10.00	0.010000							
53013AA	FISH SHELL	10 RAW-FRESH OR NFS	1E2554	P 0.250000	0.250000		10.00	0.025000							
53013AA	FISH SHELL	21 COOKED-NFS	1E2554	P 0.250000	0.250000		10.00	0.025000							
53013AA	FISH SHELL	25 COOKED-FRESH-FRIED	1E2554	P 0.250000	0.250000		10.00	0.025000							
55008BA	TURKEY-BYP	21 COOKED-NFS	311	P 5.000000	5.000000		10.00	0.500000							
55008BA	TURKEY-BYP	25 COOKED-FRESH-PICKLED, CORNED, OR CURED	311	P 5.000000	5.000000		10.00	0.500000							

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 160

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl	2/yr feeding- rat		UF --7100	Data gaps, critical study	Pending HED review.
Caswell #160	10000 mg/kg		OPP RED= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2	200 mg/kg		EPA RED= 0.000000	HED RfD committee.	WHO last reviewed 1973.
A.I. CODE: 056201	SEL=				
CFR No. 180.169	400.00 ppm				On IRIS.

FOOD CODE	FOOD	PET #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55009LA	TURKEY ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55009LA	TURKEY ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55008MA	TURKEY W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MA	TURKEY W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MA	TURKEY W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MA	TURKEY W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MB	TURKEY+SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MB	TURKEY+SKIN	311	P 5.000000	5.000000		10.00	0.500000
55008MC	TURKEY-UNSPEC	311	P 5.000000	5.000000		10.00	0.500000
55013BA	POULTRY,OTH-BYP	311	P 5.000000	5.000000		10.00	0.500000
55013LA	POULTRY,ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55013MA	POULTRY,OTHER	311	P 5.000000	5.000000		10.00	0.500000
55014AA	EGGS-WHOLE	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AA	EGGS-WHOLE	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AA	EGGS-WHOLE	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AA	EGGS-WHOLE	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AA	EGGS-WHOLE	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AB	EGGS-WHITE ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AB	EGGS-WHITE ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AB	EGGS-WHITE ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AB	EGGS-WHITE ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AC	EGGS-YOLK ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AC	EGGS-YOLK ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AC	EGGS-YOLK ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55014AC	EGGS-YOLK ONLY	3F1330	P 0.500000	0.500000		10.00	0.050000
55015BA	CHICKEN-BYP	311	P 5.000000	5.000000		10.00	0.500000
55015LA	CHICKEN-ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55015LA	CHICKEN-ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55015LA	CHICKEN-ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55015LA	CHICKEN-ORGAN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MA	CHICKEN-W/O SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MB	CHICKEN+SKIN	311	P 5.000000	5.000000		10.00	0.500000
55015MB	CHICKEN+SKIN	311	P 5.000000	5.000000		10.00	0.500000

Table 2

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Carbaryl	2yr feeding- rat		UP -->100	Data gaps, critical study	Pending HED review.
Caswell #160	NOEL= 10,0000 mg/kg		OPP Rfd= 0.100000	need to be reviewed by	EPA verified 05/31/85.
CAS No. 63-25-2	200.00 ppm		EPA Rfd= 0.000000	HED Rfd committee.	WHO last reviewed 1973.
A.I. CODE: 056901	LEL= 20,0000 mg/kg				
CFR No. 180.169	400.00 ppm				
	ONCO:				On IRIS.

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**			ARC	BRFD
U.S. POPULATION - 48 STATES	0.092005	0.092865	92.864581	0.859511	0.015156	15.15606
U.S. POPULATION - SPRING SEASON	0.098721	0.089654	89.654416	0.933379	0.014535	14.53509
U.S. POPULATION - SUMMER SEASON	0.093369	0.094276	94.275999	0.906547	0.015477	15.47709
U.S. POPULATION - FALL SEASON	0.092150	0.092963	92.963086	0.812880	0.015215	15.21467
U.S. POPULATION - WINTER SEASON	0.092435	0.093220	93.219634	0.785010	0.015256	15.25594
NORTHEAST REGION	0.101212	0.102406	102.405549	1.193757	0.016638	16.63832
NORTH CENTRAL REGION	0.088672	0.089497	89.497390	0.825341	0.014876	14.87641
SOUTHERN REGION	0.081813	0.082354	82.354040	0.541442	0.013078	13.07761
WESTERN REGION	0.100267	0.101277	101.277460	1.010533	0.016973	16.97279
HISPANICS	0.109825	0.110581	110.581135	0.755844	0.017528	17.52828
NON-HISPANIC WHITES	0.090844	0.091781	91.780780	0.937100	0.015303	15.30334
NON-HISPANIC BLACKS	0.086140	0.086539	86.539040	0.399072	0.012587	12.58688
NON-HISPANIC OTHERS	0.111489	0.112424	112.424327	0.934836	0.016977	16.97720
NURSING INFANTS (< 1 YEAR OLD)	0.163743	0.164861	164.861370	1.118594	0.028191	28.19098
NON-NURSING INFANTS (< 1 YEAR OLD)	0.293963	0.296056	296.055529	2.092938	0.047792	47.79210
FEMALES (13+ YEARS, PREGNANT)	0.070429	0.070574	70.573745	0.144576	0.011796	11.79602
FEMALES 13+ YEARS, NURSING CHILDREN (1-6 YEARS OLD)	0.080684	0.081252	81.251771	0.567902	0.013976	13.97569
CHILDREN (7-12 YEARS OLD)	0.215166	0.215336	215.336172	0.170370	0.033812	33.81178
CHILDREN (13-19 YEARS OLD)	0.131558	0.131665	131.664612	0.106137	0.021466	21.46630
MALES (13-19 YEARS OLD)	0.079591	0.080088	80.087784	0.496630	0.013271	13.27074
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.072141	0.072341	72.341373	0.200196	0.011947	11.94692
MALES (20 YEARS AND OLDER)	0.063498	0.065677	65.677417	2.189551	0.010922	10.92217
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)	0.068754	0.069218	69.218174	0.464157	0.011475	11.47493

*Current TMRC does not include new or pending tolerances.

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