

US EPA ARCHIVE DOCUMENT



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

MAY 9 1988

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Methomyl on Brassica Leafy Vegetables (PP#4E3143) and on Leeks (PP#4E3144)

FROM: J. Robert Tomerlin, Ph.D. *J. Tomerlin*  
Tolerance Assessment System Staff  
HED/RCB (TS 769C)

THRU: Karl Arne, Ph.D. *K. Arne*  
Branch Senior Scientist  
HED/RCB (TS 769C)

TO: H. Jamerson, PM 45  
Registration Support and Emergency Response Branch  
Registration Division (TS 767C)

Action Requested

Provide dietary exposure analyses for Methomyl on brassica leafy vegetables (PP#4E3143) and on leeks (PP#4E3144).

Discussion

1. A routine chronic TAS analysis was conducted with a reference dose (ADI) of 0.025 mg/kg/body weight/day, based upon a NOEL of 2.5 mg/kg body weight/day and a safety factor of 100 from a 2 year dog feeding study. This value was approved by TOX Branch (3/21/86) and verified by EPA (4/22/86).
2. Food uses evaluated include published tolerances from 40 CFR 180.253, 21 CFR 193.475, and the new actions. A summary of the tolerance information used is attached as Table 1.
3. The TAS routine chronic analysis (Table 2) estimates the Theoretical Maximum Residue Contribution (TMRC) for the U.S. population and 22 population sub-groups. The TMRC for the U.S. population is 0.017104 mg/kg body weight/day (68.4% of the ADI). The two most highly exposed subgroups are non-nursing infants (TMRC of 0.04737 mg/kg body weight/day, 189.5% of the ADI) and children aged 1 to 6 (TMRC of 0.037542 mg/kg body weight/day, 150.2% of the ADI). A TMRC summary is shown on the next page.

Dietary Exposure Analyses for Methomyl, page 2

	<u>U. S. Population</u>	<u>Non-nursing Infants</u>	<u>Children Aged 1 to 6</u>
Current Tolerances	0.016766 <sup>a</sup> (67.0) <sup>b</sup>	0.047210 (188.8)	0.037135 (148.6)
Proposed Tolerances	0.000336 (1.4)	0.000159 (0.6)	0.000407 (1.6)
PP#4E3143	0.000336 (1.3)	0.000159 (0.6)	0.000407 (1.6)
PP#4E3144	0.0000001 (0.0004)	0.0 (0.0)	0.0 (0.0)
Total Tolerances	0.017140 (68.4)	0.047370 (189.5)	0.037542 (150.2)

<sup>a</sup>TMRC in mg/kg body weight/day

<sup>b</sup>TMRC expressed as per cent of the ADI

4. Per cent crop treated data were available for some commodities (PQUA, J. Hogue, 7/87), so a routine chronic analysis using anticipated residues was conducted. Values of per cent crop treated less than 10 per cent were adjusted to 10 per cent in accordance with TAS policy. The anticipated residue contributions (ARC) summary is shown below.

	<u>U. S. Population</u>	<u>Non-nursing Infants</u>	<u>Children Aged 1 to 6</u>
Current Tolerances	0.007686 <sup>a</sup> (30.7) <sup>b</sup>	0.019215 (76.9)	0.011975 (47.9)
Proposed Tolerances	0.000336 (1.4)	0.000159 (0.6)	0.000407 (1.6)
PP#4E3143	0.000336 (1.4)	0.000159 (0.06)	0.000407 (1.6)
PP#4E3144	0.0000001 (0.0004)	0.0 (0.0)	0.0 (0.0)
Total Tolerances	0.008022 (32.1)	0.019374 (77.5)	0.012382 (49.5)

<sup>a</sup>ARC in mg/kg body weight/day

<sup>b</sup>ARC expressed as per cent of the ADI

2.

5. Using the per cent crop treated data significantly reduces the exposure to methomyl in the two most highly exposed subgroups. Exposure to non-nursing infants decreased from 189.5 to 77.5 per cent of the ADI, and from 150.2 to 49.5 per cent of the ADI for children aged 1 to 6. These estimates are conservative since crops for which less than 10 per cent of the acreage was treated were considered as having 10 per cent of the crop treated.

cc: TAS Files  
Reading File  
PMSD  
PP#4E3143

TOX (Rathman)  
circ.  
Methomyl SF  
PP#4E3144

Table 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 549C DATE: 05/05/88 PAGE: 1

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
				ADI	SF			
	Methomyl	2yr feeding- dogs	Histological changes in the kidney and spleen.	100	100	No data gaps.	TOX complete 3/21/86.	
	Caswell #549C	NOEL= 2.5000 mg/kg		OPP RfD= 0.025000			EPA verified 4/22/86.	
	CAS No. 16752-77-5	100.00 ppm		EPA RfD= 0.025000			WHO last reviewed 1986.	
	A.I. CODE: 090301	LEL= 10.0000 mg/kg	No evidence of oncogenicity in rats or mice.					
	CFR No. 180.253	400.00 ppm						
		ONCO: Negative- 2 species					On IRIS.	
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	8F2064	P 6.000000	6.000000		100.00	6.000000
01009AA	BLUEBERRIES	21 COOKED-NFS	8F2064	P 6.000000	6.000000		100.00	6.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	8F2064	P 6.000000	6.000000		100.00	6.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	8F2064	P 6.000000	6.000000		100.00	6.000000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01014AA	GRAPES-FRESH	21 COOKED-NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	4F1437	P 5.000000	5.000000		10.00	0.500000
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	4F1437	P 5.000000	5.000000		10.00	0.500000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	4F1437	P 5.000000	5.000000		10.00	0.500000
01014JA	GRAPES-JUICE	21 COOKED-NFS	4F1437	P 5.000000	5.000000		10.00	0.500000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	7F1948	P 2.000000	2.000000		100.00	2.000000
01016AA	STRAWBERRIES	21 COOKED-NFS	7F1948	P 2.000000	2.000000		100.00	2.000000
01016AA	STRAWBERRIES	70 RAW-FROZEN	7F1948	P 2.000000	2.000000		100.00	2.000000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	2F1254	P 2.000000	2.000000		100.00	2.000000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	2F1254	P 2.000000	2.000000		100.00	2.000000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	2F1254	P 2.000000	2.000000		100.00	2.000000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	2F1254	P 2.000000	2.000000		100.00	2.000000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	2F1254	P 2.000000	2.000000		100.00	2.000000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02004HA	LEMONS-PEEL	21 COOKED-NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	2F1254	P 2.000000	2.000000		100.00	2.000000
02004JA	LEMONS-JUICE	31 COOKED-NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	2F1254	P 2.000000	2.000000		10.00	0.200000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		10.00	0.200000
02006HA	ORANGES-PEEL	21 COOKED-NFS	2F1254	P 2.000000	2.000000		10.00	0.200000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	2F1254	P 2.000000	2.000000		10.00	0.200000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	2F1254	P 2.000000	2.000000		10.00	0.200000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	2F1254	P 2.000000	2.000000		10.00	0.200000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	2F1254	P 2.000000	2.000000		10.00	0.200000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000

Table 1, continued

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
				ADI	SF -->			
	Methomyl	2yr feeding- dogs	Histological changes in	100	100	No data gaps.	TOX complete 3/21/86.	
	Caswell #549C	NOEL= 2.5000 mg/kg	the kidney and spleen.	OPP RfD= 0.025000			EPA verified 4/22/86.	
	CAS No. 16752-77-5	100.00 ppm		EPA RfD= 0.025000			WHO last reviewed 1986.	
	A.I. CODE: 090301	LEL= 10.0000 mg/kg	No evidence of oncogeni-					
	CFR No. 180.253	400.00 ppm	city in rats or mice.					
		ONCO: Negative- 2 species					On IRIS.	
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
02008AA	TANGERINES	10 RAW-FRESH OR NFS	2F1254	P 2.000000	2.000000		100.00	2.000000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	2F1254	P 2.000000	2.000000		100.00	2.000000
03008AA	PECANS	10 RAW-FRESH OR NFS	6F1868	P 0.100000	0.100000		10.00	0.010000
03008AA	PECANS	21 COOKED-NFS	6F1868	P 0.100000	0.100000		10.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	6F1868	P 0.100000	0.100000		10.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	6F1868	P 0.100000	0.100000		10.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	6F1868	P 0.100000	0.100000		10.00	0.010000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	3F1308	P 1.000000	1.000000		23.00	0.230000
04001AA	APPLES-FRESH	21 COOKED-NFS	3F1308	P 1.000000	1.000000		23.00	0.230000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	3F1308	P 1.000000	1.000000		23.00	0.230000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	3F1308	P 1.000000	1.000000		23.00	0.230000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	3F1308	P 1.000000	1.000000		23.00	0.230000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	3F1308	P 1.000000	1.000000		23.00	0.230000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	3F1308	P 1.000000	1.000000		23.00	0.230000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	3F1308	P 1.000000	1.000000		23.00	0.230000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	3F1308	P 1.000000	1.000000		23.00	0.230000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	1E2465	P 4.000000	4.000000		100.00	4.000000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	1E2465	P 4.000000	4.000000		100.00	4.000000
04003AA	PEARS-FRESH	51 COOKED-CANNED	1E2465	P 4.000000	4.000000		100.00	4.000000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1E2465	P 4.000000	4.000000		100.00	4.000000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	1E2465	P 4.000000	4.000000		100.00	4.000000
04003DA	PEARS-DRIED	21 COOKED-NFS	1E2465	P 4.000000	4.000000		100.00	4.000000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	2F1246	P 5.000000	5.000000		100.00	5.000000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	2F1246	P 5.000000	5.000000		10.00	0.500000
05004AA	PEACHES-FRESH	21 COOKED-NFS	2F1246	P 5.000000	5.000000		10.00	0.500000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	2F1246	P 5.000000	5.000000		10.00	0.500000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	2F1246	P 5.000000	5.000000		10.00	0.500000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	2F1246	P 5.000000	5.000000		10.00	0.500000
05004DA	PEACHES-DRIED	21 COOKED-NFS	2F1246	P 5.000000	5.000000		10.00	0.500000
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	8E2094	P 2.000000	2.000000		100.00	2.000000
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	6E1661	P 0.200000	0.200000		100.00	0.200000
06015AA	POMEGRANATES	21 COOKED-NFS	6E1661	P 0.200000	0.200000		100.00	0.200000
07006AA	CHICORY	21 COOKED-NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
080020A	HOPS	21 COOKED-NFS	7E3495	P 7.000000	7.000000		100.00	7.000000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	2F1245	P 0.200000	0.200000		100.00	0.200000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10003AA	CASABAS	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	2F1245	P 0.200000	0.200000		100.00	0.200000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000

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Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 549C DATE: 05/05/88 PAGE: 3

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI SF -->	100		
Methomyl	2yr feeding- dogs	Histological changes in the kidney and spleen. No evidence of oncogenicity in rats or mice.	2.5000 mg/kg	100	No data gaps.	TOX complete 3/21/86. EPA verified 4/22/86. WHO last reviewed 1986.
Caswell #549C	NOEL=		100.00 ppm			
CAS No. 16752-77-5	LEL=		10.0000 mg/kg			
A.I. CODE: 090301	ONCO: Negative- 2 species		400.00 ppm			
CFR No. 180.253						On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
1007AA	PERSION MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	2F1245	P 0.200000	0.200000		100.00	0.200000
1008AA	WATERMELON	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
1009AA	WATERMELON	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
1001AA	CUCUMBERS	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	2F1245	P 0.200000	0.200000		100.00	0.200000
10010AA	CUCUMBERS	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10011AA	PUMPKIN	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	2F1245	P 0.200000	0.200000		100.00	0.200000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	2F1245	P 0.200000	0.200000		100.00	0.200000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10014AA	SQUASH-WINTER	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	2F1245	P 0.200000	0.200000		100.00	0.200000
10017AA	BITTER MELON	21 COOKED-NFS	2F1245	P 0.200000	0.200000		100.00	0.200000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	2F1245	P 0.200000	0.200000		100.00	0.200000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	9F0814	P 0.200000	0.200000		100.00	0.200000
11001AA	EGGPLANT	21 COOKED-NFS	9F0814	P 0.200000	0.200000		100.00	0.200000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	5F1616	P 2.000000	2.000000		100.00	2.000000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11004AA	PIMIENTOS	21 COOKED-NFS	5F1616	P 2.000000	2.000000		100.00	2.000000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	5F1616	P 2.000000	2.000000		100.00	2.000000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	5F1616	P 1.000000	1.000000		32.00	0.320000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005RA	TOMATOES-PUREE	21 COOKED-NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	5F1616	P 1.000000	1.000000		32.00	0.320000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	5F1616	P 1.000000	1.000000		32.00	0.320000
11005TA	TOMATOES-PASTE	51 COOKED-CANNED	5F1616	P 1.000000	1.000000		32.00	0.320000
11005TA	TOMATOES-PASTE	21 COOKED-NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	5F1616	P 1.000000	1.000000		32.00	0.320000

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 549C DATE: 05/05/88 PAGE: 4

CHEMICAL		STUDY TYPE		EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methomyl		2yr feeding- dogs	Histological changes in	ADI SF --> 100	No data gaps.	TOX complete 3/21/86.	
Caswell #549C		NOEL= 2.5000 mg/kg	the kidney and spleen.	OPP RfD= 0.025000		EPA verified 4/22/86.	
CAS No. 16752-77-5		100.00 ppm		EPA RfD= 0.025000		WHO last reviewed 1986.	
A.I. CODE: 090301		LEL= 10.0000 mg/kg	No evidence of oncogeni-				
CFR No. 180.253		400.00 ppm	city in rats or mice.				
		ONCO: Negative- 2 species					On IRIS.

  

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	5F1616	P 1.000000	1.000000		32.00	0.320000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	5F1616	P 1.000000	1.000000		32.00	0.320000
13001AA	BEEETS-TOPS	31 COOKED-FRESH OR CANNED	8E2030	P 6.000000	6.000000		100.00	6.000000
13001AA	BEEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13002AA	CELERY	10 RAW-FRESH OR NFS	4F1448	P 3.000000	3.000000		100.00	3.000000
13002AA	CELERY	21 COOKED-NFS	4F1448	P 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	21 COOKED-NFS	4F1448	P 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	21 COOKED-NFS	4E3143	N 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	4F1448	P 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	4E3143	N 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	4F1448	P 3.000000	3.000000		100.00	3.000000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	4E3143	N 3.000000	3.000000		100.00	3.000000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	4F1448	P 2.000000	2.000000		100.00	2.000000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	4E3143	N 4.000000	4.000000		100.00	4.000000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	4F1448	P 2.000000	2.000000		100.00	2.000000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	4E3143	N 4.000000	4.000000		100.00	4.000000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	0F0882	P 5.000000	5.000000		100.00	5.000000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED,CORNE	4E3143	N 1.000000	1.000000		100.00	1.000000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED,CORNE	0F0882	P 5.000000	5.000000		100.00	5.000000
13007AA	CABBAGE	21 COOKED-NFS	4E3143	N 1.000000	1.000000		100.00	1.000000
13007AA	CABBAGE	21 COOKED-NFS	0F0882	P 5.000000	5.000000		100.00	5.000000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	4F1448	P 2.000000	2.000000		100.00	2.000000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	4E3143	N 4.000000	4.000000		100.00	4.000000
13008AA	CAULIFLOWER	21 COOKED-NFS	4F1448	P 2.000000	2.000000		100.00	2.000000
13008AA	CAULIFLOWER	21 COOKED-NFS	4E3143	N 4.000000	4.000000		100.00	4.000000
13009AA	COLLARDS	51 COOKED-CANNED	8E2030	P 6.000000	6.000000		100.00	6.000000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	9E2135	P 5.000000	5.000000		100.00	5.000000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	4E3143	N 1.000000	1.000000		100.00	1.000000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	9E2135	P 5.000000	5.000000		100.00	5.000000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	4E3143	N 1.000000	1.000000		100.00	1.000000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13012AA	KOHLRABI	21 COOKED-NFS	8F0681	P 0.200000	0.200000		100.00	0.200000
13012AA	KOHLRABI	21 COOKED-NFS	4E3143	N 5.800000	5.800000		100.00	5.800000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
13015AA	ENDIVE	21 COOKED-NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	4F1448	P 3.000000	3.000000		100.00	3.000000



Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 549C DATE: 05/05/88 PAGE: 5

Methionyl Caswell #549C CAS No. 16752-77-5 A. I. CODE: 090301 CFR No. 180.253	CHEMICAL	STUDY TYPE 2yr feeding- dogs NOEL= 2.5000 mg/kg 100.00 ppm LEL= 10.0000 mg/kg 400.00 ppm ONCO: Negative- 2 species	EFFECTS Histological changes in the kidney and spleen. No evidence of oncogeni- city in rats or mice.	REFERENCE DOSES ADI SF --> 100 OPP RfD= 0.025000 EPA RfD= 0.025000	DATA GAPS/COMMENTS No data gaps.	STATUS TOX complete 3/21/86. EPA verified 4/22/86. WHO last reviewed 1986.
						On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
13021AA	MUSTARD GREENS	21 COOKED-NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13022AA	PARSLEY	21 COOKED-NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13023AA	RHUBARB	10 RAW-FRESH OR NFS	8F0681	P 0.200000	0.200000		100.00	0.200000
13023AA	RHUBARB	21 COOKED-NFS	8F0681	P 0.200000	0.200000		100.00	0.200000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	8F0681	P 0.200000	0.200000		100.00	0.200000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	8F0681	P 0.200000	0.200000		100.00	0.200000
13024AA	SPINACH	10 RAW-FRESH OR NFS	4F1448	P 6.000000	6.000000		100.00	6.000000
13024AA	SPINACH	21 COOKED-NFS	4F1448	P 6.000000	6.000000		100.00	6.000000
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	4F1448	P 6.000000	6.000000		100.00	6.000000
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	8E2030	P 6.000000	6.000000		100.00	6.000000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	8E2030	P 6.000000	6.000000		100.00	6.000000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	8E2030	P 6.000000	6.000000		100.00	6.000000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13027AA	WATERCRESS	21 COOKED-NFS	8E2030	P 6.000000	6.000000		100.00	6.000000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	1F1021	P 5.000000	5.000000		100.00	5.000000
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14001AA	BEETS-ROOTS	21 COOKED-NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0886	P 0.200000	0.200000		100.00	0.200000
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	0F0886	P 0.200000	0.200000		100.00	0.200000
14003AA	CARROTS	10 RAW-FRESH OR NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14003AA	CARROTS	21 COOKED-NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	0F0886	P 0.200000	0.200000		100.00	0.200000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	0F0886	P 0.200000	0.200000		100.00	0.200000
14003AA	CARROTS	51 COOKED-CANNED	0F0886	P 0.200000	0.200000		100.00	0.200000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14007AA	GARLIC	21 COOKED-NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	0F0886	P 0.200000	0.200000		100.00	0.200000
14010AA	LEEKS	31 COOKED-FRESH OR CANNED	0F0886	P 0.200000	0.200000		100.00	0.200000
14010AA	LEEKS	31 COOKED-FRESH OR CANNED	4E3144	N 2.800000	2.800000		100.00	2.800000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	0F0886	P 0.200000	0.200000		100.00	0.200000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	0F0886	P 0.200000	0.200000		100.00	0.200000

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Table 1, continued

METHOMYL	CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				ADI	SF -->		
	Caswell #549C	2yr feeding- dogs	Histological changes in the kidney and spleen.	100	100	No data gaps.	TOX complete 3/21/86.
	CAS No. 16752-77-5	NOEL= 2.5000 mg/kg		OPP RfD= 0.025000			EPA verified 4/22/86.
	A. I. CODE: 090301	100.00 ppm		EPA RfD= 0.025000			WHO Last reviewed 1986.
	CFR No. 180.253	LEL= 10.0000 mg/kg					
		400.00 ppm	No evidence of oncogeni-				
		ONCO: Negative- 2 species	city in rats or mice.				On IRIS.

  

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	OF0886	P 0.200000	0.200000		100.00	0.200000
14011DA	ONIONS-DRY-DRIED	12 RAW-FRESH-DRIED	OF0886	P 0.200000	0.200000		100.00	0.200000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AB	POTATO(WH)-UNSPEC	22 COOKED-FRESH-BAKED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	OF0886	P 0.200000	0.200000		10.00	0.020000
14013HA	POTATO(WH)-PEEL	31 COOKED-FRESH OR CANNED	OF0886	P 0.200000	0.200000		10.00	0.020000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	OF0886	P 0.200000	0.200000		10.00	0.020000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14016AA	SALSIFY	21 COOKED-NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	OF0886	P 0.200000	0.200000		100.00	0.200000
14018AA	SWEETPOTATOES	21 COOKED-NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	OF0886	P 0.200000	0.200000		100.00	0.200000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	OF0886	P 0.200000	0.200000		100.00	0.200000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	OF0886	P 0.200000	0.200000		100.00	0.200000
14021AA	PARSNIPS	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AA	BEANS-DRY-GRT	NO 00 NOT SPECIFIED (NO CONSUMPTION)	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	4F1437	P 0.100000	0.100000		10.00	0.010000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	4F1437	P 0.100000	0.100000		10.00	0.010000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	1F1021	P 2.000000	2.000000		100.00	2.000000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	1F1021	P 2.000000	2.000000		100.00	2.000000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	1F1021	P 2.000000	2.000000		100.00	2.000000
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	1F1021	P 2.000000	2.000000		100.00	2.000000
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	1F1021	P 2.000000	2.000000		100.00	2.000000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	1F1021	P 2.000000	2.000000		100.00	2.000000

Table 1, continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 549C DATE: 05/05/88 PAGE: 7

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
									2yr feeding- dogs	NOEL=	Histological changes in	ADI SF -->	100	No data gaps.	TOX complete 3/21/86.			
Methomyl	Caswell #549C	2.5000 mg/kg		Histological changes in the kidney and spleen.														EPA verified 4/22/86.
	CAS No. 16752-77-5	100.00 ppm		No evidence of oncogeni-														WHO last reviewed 1986.
	A. I. CODE: 090301	400.00 ppm		city in rats or mice.														
	CFR No. 180.253	ONCO: Negative- 2 species																On IRIS.
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)										
15004AA	CORN, POP	21 COOKED-NFS	8F0677	P 0.100000	0.100000		100.00	0.100000										
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	8F0677	P 0.100000	0.100000		37.00	0.037000										
15005AA	CORN, SWEET	21 COOKED-NFS	8F0677	P 0.100000	0.100000		37.00	0.037000										
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	8F0677	P 0.100000	0.100000		37.00	0.037000										
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	1F1158	P 0.100000	0.100000		19.00	0.019000										
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	1F1158	P 0.100000	0.100000		19.00	0.019000										
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	1F1158	P 0.100000	0.100000		19.00	0.019000										
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	1F1021	P 5.000000	5.000000		10.00	0.500000										
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	1F1021	P 5.000000	5.000000		10.00	0.500000										
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	1F1021	P 5.000000	5.000000		100.00	5.000000										
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	1F1021	P 5.000000	5.000000		100.00	5.000000										
15011AA	LENTILES-WHOLE	31 COOKED-FRESH OR CANNED	8E2126	P 0.100000	0.100000		100.00	0.100000										
15011AB	LENTILES-SPLIT	21 COOKED-NFS	8E2126	P 0.100000	0.100000		100.00	0.100000										
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	4F1437	P 0.100000	0.100000		10.00	0.010000										
15013AA	MUNG BEANS	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000										
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	4F1437	P 0.100000	0.100000		10.00	0.010000										
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	1F1021	P 2.000000	2.000000		100.00	2.000000										
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000										
15027AA	BEANS-UNSPEC	21 COOKED-NFS	1F1021	P 2.000000	2.000000		100.00	2.000000										
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	1F1021	P 0.200000	0.200000		10.00	0.020000										
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	4F1437	P 0.100000	0.100000		10.00	0.010000										
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	1F1021	P 2.000000	2.000000		100.00	2.000000										
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000										
15032AA	BEANS-DRY	21 COOKED-NFS	4F1437	P 0.100000	0.100000		10.00	0.010000										
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	4F1437	P 0.100000	0.100000		10.00	0.010000										
16002AA	ASPARAGUS	21 COOKED-NFS	6F1664	P 2.000000	2.000000		100.00	2.000000										
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	6F1664	P 2.000000	2.000000		100.00	2.000000										
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	9E2164	P 3.000000	3.000000		100.00	3.000000										
16004AA	ONIONS-GREEN	21 COOKED-NFS	9E2164	P 3.000000	3.000000		100.00	3.000000										
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	9E2164	P 3.000000	3.000000		100.00	3.000000										
24001AA	BARLEY	21 COOKED-NFS	5F1615	P 1.000000	1.000000		100.00	1.000000										
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002SA	CORN SUGAR	21 COOKED-NFS	8F0677	P 0.100000	0.100000		10.00	0.010000										
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	8F0677	P 0.100000	0.100000		10.00	0.010000										
24003AA	OATS	21 COOKED-NFS	5F1615	P 1.000000	1.000000		100.00	1.000000										

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI	SF -->		
Methomyl	2yr feeding- dogs	Histological changes in the kidney and spleen. No evidence of oncogenicity in rats or mice.	2.5000	100	No data gaps.	TOX complete 3/21/86. EPA verified 4/22/86. WHO last reviewed 1986.
Caswell #549C	NOEL=		100.00	100		
CAS No. 16752-77-5	LEL=		10.0000	100		
A.I. CODE: 090301	ONCO: Negative- 2 species		400.00	100		
CFR No. 180.253						On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
24003AA	OATS	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		100.00	1.000000
24003AA	OATS	23 COOKED-FRESH-BOILED	5F1615	P 1.000000	1.000000		100.00	1.000000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	5F1615	P 1.000000	1.000000		100.00	1.000000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		100.00	1.000000
24005WA	RYE-FLOUR	21 COOKED-NFS	5F1615	P 1.000000	1.000000		100.00	1.000000
24005WA	RYE-FLOUR	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		100.00	1.000000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	3F1307	P 0.200000	0.200000		10.00	0.200000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		10.00	0.100000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	5F1615	P 1.000000	1.000000		10.00	0.100000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		10.00	0.100000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007HA	WHEAT-BRAN	21 COOKED-NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		10.00	0.100000
24007WA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007WA	WHEAT-FLOUR	21 COOKED-NFS	5F1615	P 1.000000	1.000000		10.00	0.100000
24007WA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	5F1615	P 1.000000	1.000000		10.00	0.100000
24007WA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	5F1615	P 1.000000	1.000000		10.00	0.100000
25002SA	BET SUGAR	10 RAW-FRESH OR NFS	0F0886	P 0.200000	0.200000		10.00	0.200000
25002SA	BET SUGAR	21 COOKED-NFS	0F0886	P 0.200000	0.200000		10.00	0.200000
25002SA	BET SUGAR	22 COOKED-FRESH-BAKED	0F0886	P 0.200000	0.200000		10.00	0.200000
25002SA	BET SUGAR	31 COOKED-FRESH OR CANNED	0F0886	P 0.200000	0.200000		10.00	0.200000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	8F0677	P 0.100000	0.100000		10.00	0.100000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	1F1162	P 0.100000	0.100000		10.00	0.100000
27003WA	COTTONSEED-MEAL	18 PROCESSED OIL	1F1158	P 0.100000	0.100000		10.00	0.100000
270070A	PEANUTS-OIL	18 PROCESSED OIL	1F1021	P 0.200000	0.200000		10.00	0.200000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	1F1021	P 0.200000	0.200000		10.00	0.200000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	1F1021	P 0.200000	0.200000		10.00	0.200000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	1F1021	P 0.200000	0.200000		10.00	0.200000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	1F1021	P 0.200000	0.200000		10.00	0.200000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	1F1021	P 0.200000	0.200000		10.00	0.200000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	1F1021	P 0.200000	0.200000		10.00	0.200000
28023WC	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	1F1021	P 0.200000	0.200000		10.00	0.200000

Table 1, continued

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methomyl	2yr feeding- dogs	Histological changes in the kidney and spleen.	ADI SF --> 100	No data gaps.	TOX complete 3/21/86.
Caswell #549C	NOEL= 2.5000 mg/kg		OPP RED= 0.025000		EPA verified 4/22/86.
CAS No. 16752-77-5	100.00 ppm		EPA RED= 0.025000		WHO last reviewed 1986.
A.I. CODE: 090301	LEL= 10.0000 mg/kg	No evidence of oncogeni-			
CFR No. 180.253	400.00 ppm	city in rats or mice.			
	ONCO: Negative- 2 species				On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
28023WC	SOY-FL, DEFAT	21 COOKED-NFS	1F1021	P 0.200000	0.200000		10.00	0.020000
28023WC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	1F1021	P 0.200000	0.200000		10.00	0.020000
28023WC	SOY-FL, DEFAT	51 COOKED-CANNED	1F1021	P 0.200000	0.200000		10.00	0.020000
28023WC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	1F1021	P 0.200000	0.200000		10.00	0.020000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	4F1437	P 5.000000	5.000000		100.00	5.000000
43058AA	WINE AND SHERRY	21 COOKED-NFS	4F1437	P 5.000000	5.000000		100.00	5.000000

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Table 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/05/88

PAGE: 1

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Methomyl	2yr feeding- dogs	Histological changes in the kidney and spleen.	ADI SF --> 100	No data gaps.	TOX complete 3/21/86.
Caswell #549C	NOEL= 2.5000 mg/kg		OPP RfD= 0.025000		EPA verified 4/22/86.
CAS No. 16752-77-5	100.00 ppm		EPA RfD= 0.025000		WHO last reviewed 1986.
A.I. CODE: 090301	LEL= 10.0000 mg/kg	No evidence of oncogeni-			
CFR No. 180.253	400.00 ppm	city in rats or mice.			
	ONCO: Negative- 2 species				On IRIS.

TOTAL TMRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP	CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES
U.S. POPULATION - 48 STATES	0.016766	0.017104	68.414924	1.351228	0.008022 32.089276
U.S. POPULATION - SPRING SEASON	0.016330	0.016652	66.606852	1.286576	0.007971 31.882128
U.S. POPULATION - SUMMER SEASON	0.016870	0.017160	68.638348	1.158336	0.007830 31.319404
U.S. POPULATION - FALL SEASON	0.016838	0.017204	68.817964	1.465388	0.008087 32.346492
U.S. POPULATION - WINTER SEASON	0.016973	0.017347	69.386720	1.494312	0.008202 32.808284
NORTHEAST REGION	0.018758	0.019102	76.406872	1.374724	0.008473 33.891536
NORTH CENTRAL REGION	0.016301	0.016599	66.397484	1.194504	0.007403 29.611668
SOUTHERN REGION	0.014786	0.015089	60.355868	1.213444	0.007616 30.463716
WESTERN REGION	0.018121	0.018568	74.271444	1.788888	0.009028 36.112976
HISPANICS	0.017748	0.017915	71.659896	0.666612	0.006934 27.735204
NON-HISPANIC WHITES	0.016627	0.016973	67.890732	1.384436	0.007930 31.718900
NON-HISPANIC BLACKS	0.016720	0.017036	68.145092	1.264556	0.008869 35.474740
NON-HISPANIC OTHERS	0.020046	0.020815	83.261024	3.079020	0.010367 41.466628
NURSING INFANTS (< 1 YEAR OLD)	0.027555	0.027628	110.510436	0.289660	0.011872 47.488592
NON-NURSING INFANTS (< 1 YEAR OLD)	0.047210	0.047370	189.479224	0.637836	0.019374 77.496720
FEMALES (13+ YEARS, PREGNANT)	0.012931	0.013197	52.786096	1.063440	0.006151 24.605932
FEMALES 13+ YEARS, NURSING	0.015618	0.016075	64.300116	1.827476	0.008635 34.541524
CHILDREN (1-6 YEARS OLD)	0.037135	0.037542	150.167992	1.628840	0.012382 49.529012
CHILDREN (7-12 YEARS OLD)	0.023233	0.023601	94.405000	1.471568	0.009412 37.648568
MALES (13-19 YEARS OLD)	0.013847	0.014073	56.291764	0.903276	0.006103 24.411756
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.012861	0.013109	52.434504	0.992032	0.005896 23.582380
MALES (20 YEARS AND OLDER)	0.012306	0.012608	50.433188	1.209172	0.007108 28.431332
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.013248	0.013631	54.522716	1.530684	0.007582 30.328136

\*Current TMRC does not include new or pending tolerances.

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

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