

US EPA ARCHIVE DOCUMENT



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

JUN 28 1990

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Revised Dietary Exposure/Risk Analysis for Simazine
Special Review.

TO: Jude Andreasen, Review Manager
Special Review Branch
Special Review and Reregistration Division (H7508C)

FROM: Richard Griffin *Richard Griffin*
Dietary Risk Evaluation System (DRES) Staff
Science and Coordination Branch, HED (H7509C)

THROUGH: James P. Kariya *James P. Kariya*
Acting Section Head (DRES) *[Signature]*
SACB, Health Effects Division (H7509C)

Action Requested

Provide a chronic dietary exposure/risk assessment using revised anticipated residues for corn and livestock commodities .

Discussion

1. Toxicology Endpoint: This chronic DRES analysis compares exposure estimates to a reference dose (PADI) of 0.002 mg/kg body weight/day based on a NOEL of 0.52 mg/kg bwt/day and an uncertainty factor of 300. The NOEL is based on a 2 year rat feeding study which demonstrated reductions in weight gain and hematological changes in females. This reference dose value has been approved by HED (5/25/89) and Agency (6/15/89) reference dose committees.

Simazine is classified as a category C_(q) (possible human) carcinogen for which quantitative risk assessment is appropriate. The upper bound carcinogenic potency estimate (Q₁*) for Simazine is 0.12 (mg/kg/day)⁻¹.

2. Residue Information: Commodities evaluated are the published uses/tolerances of 40 CFR 180.213 and the published food additive uses/tolerances of 40 CFR 185.5350.

The previous DRES Simazine assessment (R. Griffin memo, 3/1/90) was based on percent crop treated data provided by BEAD (R. Torla memo, 1/9/90) and anticipated residues (parent plus chlorometabolites only) provided by Dietary Exposure Branch (M.

Metzger memo, 1/19/90). This analysis is based on the same percent crop treated data and revised anticipated residues (M. Metzger memo, 6/15/90).

Anticipated residues were revised to account for total residues of the stable triazine ring. The anticipated residue revision of corn and corn-fed livestock commodities was based on a translation of Atrazine metabolism studies. Due to a lack of adequate plant metabolism studies, no other uses could be revised.

The following table summarizes the DEB residue revision:

Table 1.

Commodity	Previous	Current
Corn grain (Food Use)	0.05 ppm	0.1 ppm
Corn fxns (Food Use)	0.05 ppm	0.1 ppm
Corn forage (Feed)	0.1 ppm	5.0 ppm
Corn fodder (Feed)	0.15 ppm	3.0 ppm
Milk	0	0.00007 ppm
Eggs	0	0.0003 ppm
Cattle, goats, hogs, sheep		
Meat, fat, by-products	0	0.0001 ppm
Liver	0	0.0006 ppm
Kidney	0	0.0002 ppm
Poultry		
Meat, fat, by-products	0	0.0003 ppm
Liver	0	0.0004 ppm

Food uses of corn were evaluated at 2% crop treated and livestock commodities at 100%. However, 2% corn crop treated was factored into the livestock anticipated residues.

This analysis addresses only dietary exposure/risk (see R. Griffin memo, 3/1/90) for DRES exposure/risk estimates for Simazine in water at levels of 1, 4, and 10 ppb.

A summary of current uses, tolerances, anticipated residues, and percents crop treated are provided in Table 2.

3. Exposure Analysis: DRES estimates of Theoretical Maximum Residue Contribution (TMRC) are based on tolerances and 100 percent crop treated. Since only anticipated residues were revised, the only resultant changes were DRES estimates of Anticipated Residue Contribution (ARC). The following are dietary ARC estimates for the overall U.S. population and the two most highly exposed sub-groups in mg/kg body weight/day:

	Previous ARC	Revised ARC
Overall U.S.	0.000111 (6% RfD)	0.000113 (6% RfD)
Non-nursing infants	0.000387 (19% RfD)	0.000394 (20% RfD)
Children (1-6 yrs)	0.000281 (14% RfD)	0.000287 (14% RfD)

It should be noted that corn accounts for 1.7 percent, and the livestock commodities 1.2 percent, of the total Simazine exposure estimate (0.000113 mg/kg bwt/day, U.S. population). The commodities that contribute to 97% of the current exposure estimate cannot be revised without adequate metabolism studies.

A summary of TMRC and ARC exposure estimates for all DRES population groups is provided in Table 3.

Risk Assessment

The anticipated residue revision, outlined above, increased the ARC exposure estimate of the overall U.S. by 0.000002 mg/kg bwt/day and the upper bound carcinogenic risk estimate by a similar small increment.

Adverse health effects, other than cancer, due to exposure to Simazine would apparently be minimal with the highest per day exposure of any population sub-group at 20 percent of the reference dose.

Of greatest significance is the carcinogenic risk estimate for Simazine use. The upper bound carcinogenic risk estimate for the overall U.S. population, based on the dietary ARC exposure estimate of 0.000113 mg/kg bwt/day, is 1.36×10^{-5} . This risk estimate is dietary only, any exposure due to water use or contamination will only add to a significant risk estimate.

cc: Caswell # 740
Dietary Exposure Branch (HED)
Toxicology Branch (HED)
DRES

Table 2.

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains hematological changes in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP RTD= 0.002000 EPA RTD= 0.002000	Reproduction - rat Teratology - rat	HED complete 04/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. 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	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01002AA	BLACKBERRIES	21 COOKED-NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01004AA	DEWBERRIES	00 NOT SPECIFIED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01005AA	LOGANBERRIES	00 NOT SPECIFIED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01009AA	BLUEBERRIES	21 COOKED-NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01010AA	CRANBERRIES	21 COOKED-NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01010AA	CRANBERRIES	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01011AA	CURRENTS	21 COOKED-NFS	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	FTD	100.00	0.050000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014AA	GRAPES-FRESH	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014DA	GRAPES-RAISINS	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01014JA	GRAPES-JUICE	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	35.00	0.017500
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	EXTRAP	100.00	0.050000
01016AA	STRAWBERRIES	21 COOKED-NFS	7F0534	P 0.250000	0.050000	EXTRAP	100.00	0.050000
01016AA	STRAWBERRIES	70 RAW-FROZEN	7F0534	P 0.250000	0.050000	EXTRAP	100.00	0.050000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500

Table 2.

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Stimazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP Rfd= 0.002000 EPA Rfd= 0.002000	Reproduction - rat Teratology - rat	HED complete 06/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. 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	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004HA	LEMONS-PEEL	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004JA	LEMONS-JUICE	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	50.00	0.025000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006AB	ORANGES-PULP	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006HA	ORANGES-PEEL	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	45.00	0.022500
03001AA	ALMONDS	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	FTD-XCT	45.00	0.045000
03001AA	ALMONDS	21 COOKED-NFS	7F0534	P 0.250000	0.100000	FTD-XCT	45.00	0.045000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.100000	FTD-XCT	45.00	0.045000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	9F0792	P 0.250000	0.100000	FTD	100.00	0.100000
03005AA	FILBERTS	21 COOKED-NFS	9F0792	P 0.250000	0.100000	FTD	100.00	0.100000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	9F0792	P 0.250000	0.100000	FTD	100.00	0.100000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	FTD	100.00	0.100000
03008AA	PECANS	10 RAW-FRESH OR NFS	3F1378	P 0.100000	0.100000	XCT	10.00	0.010000
03008AA	PECANS	21 COOKED-NFS	3F1378	P 0.100000	0.100000	XCT	10.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	3F1378	P 0.100000	0.100000	XCT	10.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	3F1378	P 0.100000	0.100000	XCT	10.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.200000	0.100000	FTD-XCT	50.00	0.050000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	7F0534	P 0.200000	0.100000	FTD-XCT	50.00	0.050000
03009AA	WALNUTS	21 COOKED-NFS	7F0534	P 0.200000	0.100000	FTD-XCT	50.00	0.050000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	7F0534	P 0.200000	0.100000	FTD-XCT	50.00	0.050000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001AA	APPLES-FRESH	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	PR-FTD-XCT	40.00	0.020000

Table 2.

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 740

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains hematological changes in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP RfD= 0.002000 EPA RfD= 0.002000	Reproduction - rat Teratology - rat	HED complete 04/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. 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)
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-%CT	40.00	0.020000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-%CT	40.00	0.020000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
04003AA	PEARS-FRESH	51 COOKED-CANNED	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
04003DA	PEARS-DRIED	21 COOKED-NFS	7F0534	P 0.250000	0.050000	EXTRAP-%CT	50.00	0.025000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	45.00	0.045000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05004AA	PEACHES-FRESH	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05004AA	PEACHES-FRESH	51 COOKED-CANNED	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05004DA	PEACHES-DRIED	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	35.00	0.017500
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.250000	0.100000	PR-FTD-%CT	12.00	0.012000
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	FTD-%CT	30.00	0.015000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06002AB	BANANAS-FRESH	21 COOKED-NFS	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06002DA	BANANAS-DRIED	21 COOKED-NFS	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06009AA	OLIVES	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	18.00	0.009000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	7F0534	P 0.250000	0.050000	PR-FTD-%CT	18.00	0.009000
06009AA	OLIVES	21 COOKED-NFS	7F0534	P 0.250000	0.050000	PR-FTD-%CT	18.00	0.009000
06016AA	PLANTAINS	21 COOKED-NFS	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000

Table 2.

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI UF -->300 OPP Rfd= 0.002000 EPA Rfd= 0.002000			
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains in females. Evidence of oncogenicity in rats; negative in mouse.			Reproduction - rat Teratology - rat	HED complete 06/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. 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)
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	6E1725	P 0.200000	0.020000	FTD-%CT	10.00	0.002000
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	7F0534	P 0.500000	0.100000	FTD-%CT	75.00	0.075000
15004AA	CORN, POP	21 COOKED-NFS	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	TRANSLATION	5.00	0.005000
15005AA	CORN, SWEET	21 COOKED-NFS	7F0534	P 0.250000	0.100000	TRANSLATION	5.00	0.005000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.100000	TRANSLATION	5.00	0.005000
16002AA	ASPARAGUS	21 COOKED-NFS	7F0534	P 10.000000	1.800000	FTD-%CT	5.00	0.090000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	7F0534	P 10.000000	1.800000	FTD-%CT	5.00	0.090000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002SA	CORN SUGAR	21 COOKED-NFS	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	7F0534	P 0.250000	0.070000	PR-FTD-%CT	10.00	0.007000
25003SA	CANE SUGAR	21 COOKED-NFS	7F0534	P 0.250000	0.070000	PR-FTD-%CT	10.00	0.007000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	7F0534	P 0.250000	0.070000	PR-FTD-%CT	10.00	0.007000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	7F0534	P 0.250000	0.070000	PR-FTD-%CT	10.00	0.007000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	1H2572	P 1.000000	0.660000	PR-FTD-%CT	10.00	0.066000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	1H2572	P 1.000000	0.660000	PR-FTD-%CT	10.00	0.066000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	1H2572	P 1.000000	0.660000	PR-FTD-%CT	10.00	0.066000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	4H2572	P 1.000000	0.660000	PR-FTD-%CT	10.00	0.066000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	7F0534	P 0.250000	0.100000	TRANSLATION	2.00	0.002000
270160A	OLIVE OIL	18 PROCESSED OIL	7F0534	P 0.250000	0.050000	PR-FTD-%CT	25.00	0.012500
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
50000SA	MILK SUG (LACT)	21 COOKED-NFS	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	7F0534	P 0.020000	0.000070	EXTRAP	100.00	0.000070
530018A	BEEF-MEAT BYP	21 COOKED-NFS	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
530018A	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
530018B	BEEF-OTH ORGAN	21 COOKED-NFS	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
530018B	BEEF-OTH ORGAN	51 COOKED-CANNED	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
53001DA	BEEF-DRIED	21 COOKED-NFS	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100

Table 2.

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 740 DATE: 06/27/90 PAGE: 5

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				PADI	UF		
53001FA	BEEF-FAT	2yr feeding- rat NOEL= 0.5200 mg/kg	Reduction in weight gains hematological changes in females.	300	0.002000	Reproduction - rat	HED complete 04/25/86.
53001FA	BEEF-FAT	10.00 ppm	Evidence of oncogenicity in rats; negative in mouse.	0.002000	0.002000	Teratology - rat	EPA verified 06/24/86.
53001FA	BEEF-FAT	5.3000 mg/kg					EPA reassess 05/25/89.
53001FA	BEEF-FAT	100.00 ppm					EPA verified 06/15/89.
53001KA	BEEF-KIDNEY	ONCO: Positive - 1 species					On IRIS.
53001LA	BEEF-LIVER						
53001MA	BEEF-LEAN						
53001MA	BEEF-LEAN						
53001MA	BEEF-LEAN						
53001MA	BEEF-LEAN						
53001MA	BEEF-LEAN						
53001MA	BEEF-LEAN						
53002BA	GOAT-MEAT BYP						
53002BB	GOAT-OTH ORGAN						
53002FA	GOAT-FAT						
53002FA	GOAT-FAT						
53002KA	GOAT-KIDNEY						
53002LA	GOAT-LEAN						
53002MA	GOAT-LEAN						
53003AA	HORSE						
53005BA	SHEEP-MEAT BYP						
53005BB	SHEEP-OTH ORGAN						
53005FA	SHEEP-FAT						
53005KA	SHEEP-KIDNEY						
53005LA	SHEEP-LIVER						
53005MA	SHEEP-LEAN						
53006BA	PORK-MEAT BYP						
53006BB	PORK-OTH ORGAN						
53006BB	PORK-OTH ORGAN						
53006FA	PORK-FAT						
53006FA	PORK-FAT						
53006FA	PORK-FAT						
53006FA	PORK-FAT						
53006KA	PORK-KIDNEY						
53006LA	PORK-LIVER						
53006LA	PORK-LIVER						

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
53001FA	BEEF-FAT	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	7F0534	0.000100	EXTRAP	0.000100
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	7F0534	0.000100	EXTRAP	0.000100
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	7F0534	0.000100	EXTRAP	0.000100
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	7F0534	0.000100	EXTRAP	0.000100
53001KA	BEEF-KIDNEY	21 COOKED-NFS	7F0534	0.000200	EXTRAP	0.000200
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	7F0534	0.000600	EXTRAP	0.000600
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	7F0534	0.000600	EXTRAP	0.000600
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	7F0534	0.000100	EXTRAP	0.000100
53001MA	BEEF-LEAN	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	7F0534	0.000100	EXTRAP	0.000100
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	7F0534	0.000100	EXTRAP	0.000100
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	7F0534	0.000100	EXTRAP	0.000100
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED	7F0534	0.000100	EXTRAP	0.000100
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED	7F0534	0.000100	EXTRAP	0.000100
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	7F0534	0.000100	EXTRAP	0.000100
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	7F0534	0.000100	EXTRAP	0.000100
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED	7F0534	0.000200	EXTRAP	0.000200
53002LA	GOAT-LEAN	00 NOT SPECIFIED	7F0534	0.000600	EXTRAP	0.000600
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	7F0534	0.000100	EXTRAP	0.000100
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	7F0534	0.000100	EXTRAP	0.000100
53003AA	HORSE	00 NOT SPECIFIED	7F0534	0.000100	EXTRAP	0.000100
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53005FA	SHEEP-FAT	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	7F0534	0.000200	EXTRAP	0.000200
53005LA	SHEEP-LIVER	00 NOT SPECIFIED	7F0534	0.000600	EXTRAP	0.000600
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	7F0534	0.000100	EXTRAP	0.000100
53006BA	PORK-MEAT BYP	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F0534	0.000100	EXTRAP	0.000100
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	7F0534	0.000100	EXTRAP	0.000100
53006FA	PORK-FAT	21 COOKED-NFS	7F0534	0.000100	EXTRAP	0.000100
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	7F0534	0.000100	EXTRAP	0.000100
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	7F0534	0.000100	EXTRAP	0.000100
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7F0534	0.000200	EXTRAP	0.000200
53006KA	PORK-KIDNEY	21 COOKED-NFS	7F0534	0.000600	EXTRAP	0.000600
53006LA	PORK-LIVER	21 COOKED-NFS	7F0534	0.000600	EXTRAP	0.000600
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	7F0534	0.000600	EXTRAP	0.000600

Table 2.

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains hematological changes in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP Rfd= 0.002000 EPA Rfd= 0.002000	Reproduction - rat Teratology - rat	HED complete 04/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. 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)
53006MA	PORK-LEAN	21 COOKED-NFS	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	7F0534	P 0.020000	0.000100	EXTRAP	100.00	0.000100
53010AA	FISH-UNSPEC	21 COOKED-NFS	0F0996	P 12.000000	4.680000	EXTRAP-%CT	10.00	0.468000
53016AA	FISH,FIN-FRESH	21 COOKED-NFS	0F0996	P 12.000000	4.680000	EXTRAP-%CT	10.00	0.468000
53016AA	FISH,FIN-FRESH	25 COOKED-FRESH-FRIED	0F0996	P 12.000000	4.680000	EXTRAP-%CT	10.00	0.468000
55008BA	TURKEY-BYP	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008LA	TURKEY ORGAN	21 COOKED-NFS	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008MB	TURKEY+SKIN	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55013MA	POULTRY,OTHER	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AA	EGGS-WHOLE	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55014AC	EGGS-YOLK ONLY	00 NOT SPECIFIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015LA	CHICKEN-BYP	21 COOKED-NFS	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED,CORNERD,OR CURED	7F0534	P 0.020000	0.000400	EXTRAP	100.00	0.000400
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300

Table 2.

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 0.5200 mg/kg 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains hematological changes in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP Rfd= 0.002000 EPA Rfd= 0.002000	Reproduction - rat Teratology - rat	HED complete 04/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55015MA	CHICKEN-W/O SKIN 31	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015MA	CHICKEN-W/O SKIN 53	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015MB	CHICKEN+SKIN 21	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
55015MB	CHICKEN+SKIN 25	7F0534	P 0.020000	0.000300	EXTRAP	100.00	0.000300
65015AA	WATER-FOOD BASED 10	3H5035	P 0.010000	0.000000	DIETARY ONLY	100.00	0.000000
65015AA	WATER-FOOD BASED 21	3H5035	P 0.010000	0.000000	DIETARY ONLY	100.00	0.000000
65015AC	WATER--NON-FOOD 10	3H5035	P 0.010000	0.000000	DIETARY ONLY	100.00	0.000000

Table 3.

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Simazine Caswell #740 CAS No. 122-34-9 A.I. CODE: 080807 CFR No. 180.213	2yr feeding- rat NOEL= 10.00 ppm LEL= 5.3000 mg/kg 100.00 ppm ONCO: Positive - 1 species	Reduction in weight gains in hematological changes in females. Evidence of oncogenicity in rats; negative in mouse.	PADI UF -->300 OPP Rfd= 0.002000 EPA Rfd= 0.002000	Reproduction - rat Teratology - rat	HED complete 04/25/86. EPA verified 06/24/86. HED reassess 05/25/89. EPA verified 06/15/89. On IRIS.

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**				ARC	XRFD
U.S. POPULATION - 48 STATES	0.002506	0.002506	125.310200	0.000000	0.000113	5.66800	
U.S. POPULATION - SPRING SEASON	0.002544	0.002544	127.206000	0.000000	0.000114	5.67930	
U.S. POPULATION - SUMMER SEASON	0.002489	0.002489	124.474900	0.000000	0.000111	5.53655	
U.S. POPULATION - FALL SEASON	0.002458	0.002458	122.914050	0.000000	0.000112	5.62055	
U.S. POPULATION - WINTER SEASON	0.002530	0.002530	126.512400	0.000000	0.000116	5.79110	
NORTHEAST REGION	0.002466	0.002466	123.306000	0.000000	0.000126	6.30900	
NORTH CENTRAL REGION	0.002523	0.002523	126.156750	0.000000	0.000113	5.63110	
SOUTHERN REGION	0.002430	0.002430	121.488850	0.000000	0.000100	5.01065	
WESTERN REGION	0.002665	0.002665	133.244750	0.000000	0.000119	5.93505	
HISPANICS	0.002657	0.002657	132.858200	0.000000	0.000124	6.18225	
NON-HISPANIC WHITES	0.002438	0.002438	121.876950	0.000000	0.000110	5.51040	
NON-HISPANIC BLACKS	0.002824	0.002824	141.182900	0.000000	0.000123	6.16805	
NON-HISPANIC OTHERS	0.002943	0.002943	147.156500	0.000000	0.000146	7.30015	
NURSING INFANTS (< 1 YEAR OLD)	0.003974	0.003974	198.702450	0.000000	0.000242	12.09610	
NON-NURSING INFANTS (< 1 YEAR OLD)	0.008134	0.008134	406.707400	0.000000	0.000394	19.70590	
FEMALES (13+ YEARS, PREGNANT)	0.001804	0.001804	90.183350	0.000000	0.000084	4.18820	
FEMALES 13+ YEARS, NURSING CHILDREN (1-6 YEARS OLD)	0.002067	0.002067	103.355750	0.000000	0.000090	4.50520	
CHILDREN (7-12 YEARS OLD)	0.005722	0.005722	286.077300	0.000000	0.000287	14.33000	
MALES (13-19 YEARS OLD)	0.003307	0.003307	165.352200	0.000000	0.000154	7.68690	
FEMALES (13-19 YEARS OLD)	0.002148	0.002148	107.395500	0.000000	0.000090	4.48040	
MALES (20 YEARS AND OLDER)	0.001957	0.001957	97.872300	0.000000	0.000087	4.32935	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)	0.001880	0.001880	94.024450	0.000000	0.000076	3.78585	
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURSING)	0.001913	0.001913	95.640100	0.000000	0.000085	4.24740	

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