



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

JAN 22 1997

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OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Addendum to Captan RED: Dietary Risk Assessment in Support of the Reregistration Eligibility Document for Captan

FROM: Stephen A. Schaible *Stephen A. Schaible*  
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TO: John Redden, Chemical Manager  
Risk Characterization and Analysis Branch  
Health Effects Division (7509C)

THROUGH: Elizabeth A. Doyle, Head *E. A. Doyle*  
DRES/SAB  
Health Effects Division (7509C)

Action Requested

Provide chronic and acute exposure assessments as well as a carcinogenicity risk assessment for the uses being supported in the captan Reregistration Eligibility Document (RED). A Dietary Risk Evaluation System (DRES) analysis for the RED was previously performed and reported in a J. Wintersteen memo to J. Redden dated 11/10/94. Since that analysis the Captan Task Force (CTF) has submitted a rebuttal to the HED risk assessment and the Agency has responded in a C. Olinger memorandum dated 5/30/96; several new recommendations regarding residues to be used in the risk assessment were included in the Agency response. In addition, Chemistry Branch II- Reregistration Support (CBRS) released an addendum to the Residue Chemistry Chapter (C. Olinger, 7/26/96) which revised the tolerance reassessment table and tolerance expressions for the RED, with the most significant change being the recommendation for crop group tolerances instead of commodity specific tolerances for many seed treatment uses. An upper bound potency factor ( $Q_1^*$ ) of  $1.21 \times 10^{-3} \text{ (mg/kg/day)}^{-1}$  was also recently recommended. All of these changes are reflected in the current analysis.

## Discussion

### Toxicological Endpoints

1. **Chronic toxicity:** Chronic exposure in this analysis was compared to a Reference Dose (RfD) of 0.13 milligrams/kilogram body weight/day, based on a no observed effect level (NOEL) of 12.5 mg/kg/day and an Uncertainty Factor of 100. The NOEL was taken from a three generation feeding study in rats in which the effect observed at the lowest effect level (LEL) of 25 mg/kg/day was decreased pup body weights.
2. **Carcinogenicity:** Captan is classified as group B2 (probable human carcinogen) for carcinogenicity. The  $Q_1^*$  of  $1.21 \times 10^{-3} \text{ (mg/kg/day)}^{-1}$  was used in this analysis to calculate the excess lifetime cancer risk. This  $Q_1^*$  reflects the scaling factor of 3/4's power and is based on glandular adenomas and/or adenocarcinomas of the gastrointestinal tract of female mice (B. Fisher memorandum dated 1/15/97).
3. **Acute toxicity:** The HED Toxicity Endpoint Selection Committee has determined that an acute dietary risk assessment is required for this chemical (P. Chin and K. Baetcke memorandum dated 3/2/94). The endpoint to which acute exposure should be compared is the NOEL of 10 mg/kg/day, taken from the developmental toxicity study in rabbits. The effect of concern is developmental toxicity, with the effects observed at the LEL (30 mg/kg/day) being increased post-implantation loss, reduced mean fetal weight, and increased skeletal defects in fetuses.

### Residue Information

Food uses evaluated in this analysis are those recommended in the Tolerance Reassessment table of the addendum to the Residue Chemistry Chapter of the RED (C. Olinger, 7/26/96). Residues to be regulated are captan per se for plant commodities and captan and its metabolite THPI for livestock commodities (C. Olinger, 9/7/94). Existing tolerances for captan are listed in 40 CFR 180.103 and 185.500 and in the Tolerance Index System (TIS). The most significant change from the previous analysis for the RED is that CBRS has recommended establishment of crop group tolerances to cover seed treatment use of captan for those groups where tolerances already exist for the representative commodities of a group and/or registrations currently exist for the representative commodities; this has led to the addition of numerous commodities to the DRES analysis. Recommended crop group tolerances are translated to specific raw agricultural commodities (RACs) in the DRES analysis using the revised crop group tables listed in 40 CFR 180.41 (July 1995 edition). In several cases, the recommendation for a crop group tolerance in C. Olinger's 7/26/96 memo supersedes recommendations made in an Olinger memo dated 5/30/96 for revocation of commodities in those crop groups, resulting in uses being included in the DRES analysis which were earlier recommended to be revoked. Tolerances for RACs listed in 180.1(h) are also applied to their corresponding RACs according to the table, unless a commodity specific tolerance is already recommended in the Tolerance Reassessment table.

CBRS recommended the reassessment of numerous tolerances as part of the RED. Where

data are not available to reassess tolerances, the existing tolerance is assumed for the analysis. Meat and milk tolerances are revised downward from previously recommended values to reflect that grape pomace and raisin waste no longer need be considered in livestock feed diets. The correct tolerances to use for the analysis are listed in Table 4 of Olinger's 5/30/96 memo; these updated tolerances are not reflected in the Tolerance Reassessment Summary (Table C) of that same memo, and the fat and meat tolerances are mistakenly transposed in the 7/26/96 memo.

### ***Percent of Crop Treated***

Percent of crop treated refinements are supplied by the Biological and Economic Analysis Division (BEAD) in a K. Vinlove memorandum dated 3/31/94 and incorporated into the chronic exposure analysis and cancer risk assessment. When a range is provided in the memo, the high end of the range is assumed for the DRES analysis. In instances where anticipated residues supplied by CBRS are based on survey or monitoring data, 100% crop treated is assumed in the analysis; percent of crop treated refinements are already incorporated into these anticipated residues. One hundred percent of crop treated is also assumed for those crops where percent of crop treated information is not available- this could lead to possible overestimation of exposure for those commodities where this assumption is made.

### ***Anticipated Residues***

Acute, chronic, and cancer anticipated residues (ARs) based on field trial, survey, and/or processing data are supplied by CBRS in Olinger's 5/30/96 memorandum. Percent of crop treated data from the Vinlove 3/31/94 memo are incorporated into anticipated residues where survey or processing data are used. The acute AR for strawberries is higher than the recommended tolerance for this commodity (reassessed tolerance= 25 ppm, AR= 75 ppm) due to several incidents of over-tolerance residues in Florida in the 1993-94 growing season. CBRS recommends the acute AR reflect the highest value observed during routine monitoring, until more data are available supporting a lower value. In accordance with OPP policy with regard to acute dietary risk assessment, average residues are assumed for those processed fruit commodities likely to be mixed during processing (e.g., juices).

Default concentration factors in DRES are turned off for those commodities for which the tolerance or anticipated residue values already reflect concentration, or for which CBRS has indicated concentration does not occur. DRES concentration factors are also already reflected in many of the anticipated residues for processed commodities recommended by CBRS; in this case the DRES defaults are turned off for the analysis. Default concentration factors are also turned off for processed forms of all commodities having seed treatment tolerances.

Summaries of the residue and percent of crop treated information assumed for the chronic, cancer and acute exposure analyses are attached at Attachments 1, 2 and 3, respectively. More detailed discussion regarding the assumptions used for this analysis is attached as Appendix A.

### **Results**

The DRES chronic exposure analysis assumes tolerance level residues and 100% of crop treated to estimate the Theoretical Maximum Residue Contribution (TMRC) for the U.S.

population and 22 population subgroups. Anticipated residues and percent of crop treated refinements are also assumed in this analysis to estimate the Anticipated Residue Contribution (ARC) for those same population groups. The ARC is considered the more accurate estimate of chronic dietary exposure. A summary of the TMRCs, ARCs, and their representations as percentages of the RfD for the U.S. population and subgroups is attached as Attachment 4.

**Chronic risk**

The TMRCs for the U.S. population and the subgroup most highly exposed from uses being supported through reregistration are listed below.

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>% RfD</u>
U.S. population	0.035580	27
Non-nursing infants	0.260507	200

The ARCs for the U.S. population and the subgroup most highly exposed from uses being supported through reregistration are listed below.

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>% RfD</u>
U.S. population	0.000947	1
Non-nursing infants	0.004288	3

Based on the refined exposure estimates above, it appears that **chronic dietary risk from the uses of captan being supported through reregistration is not of concern.**

**Carcinogenic risk**

The upper bound excess lifetime cancer risk from recommended food uses of captan is calculated using the following equation:

$$\text{Upper Bound Cancer Risk} = \text{Dietary Exposure (ARC)} \times Q_1^*$$

Based on a  $Q_1^*$  of  $1.21 \times 10^{-3}$  (mg/kg/day)<sup>-1</sup>, the upper bound excess lifetime cancer risk for the U.S. population is calculated to be  $2.5 \times 10^{-7}$ . This is below the level that the Agency generally considers as acceptable, and it therefore can be concluded that **excess lifetime cancer risk from the uses of captan being supported through reregistration is not of concern.** A summary of the cancer risk by commodity is attached as Attachment 5.

**Acute risk**

The DRES detailed acute exposure analysis evaluates individual food consumption as reported by respondents in the USDA 1977-78 Nationwide Food Consumption Survey (NFCS) and estimates the distribution of single day exposures through the diet for the U.S. population and select population subgroups. The analysis assumes uniform distribution of captan in the commodity supply. Exposure in this analysis is compared to an acute NOEL of 10 mg/kg/day, taken from a developmental toxicity study in rabbits. Since the toxicological effect to which high

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end exposure is being compared in this analysis is developmental toxicity, the subgroup of concern for this analysis is "Females, 13+ years", the DRES subgroup which most closely approximates women of child-bearing age. In situations where the acute NOEL considered is from an animal study, the Agency is generally not concerned with MOEs of 100 or above. A table showing the distribution of acute exposures for the population group of concern and showing the MOE calculation is attached as Attachment 6.

Acute MOEs for uses of captan recommended through reregistration are calculated as follows:

$$\begin{aligned} \text{High end exposure} &= 0.2 \text{ mg/kg/day} \\ \text{MOE} = \text{NOEL/Exposure} &= 10 \text{ mg/kg/day} / 0.2 \text{ mg/kg/day} = 50 \end{aligned}$$

$$\begin{aligned} \text{Exposure from estimated 95th percentile} &= 0.08 \text{ mg/kg/day} \\ \text{MOE} = \text{NOEL/Exposure} &= 10 \text{ mg/kg/day} / 0.08 \text{ mg/kg/day} = 125 \end{aligned}$$

Exposure to those individuals most highly exposed results in an MOE which is below the level the Agency generally considers acceptable; acute dietary risk to these individuals is therefore of concern. Exposure to the estimated 95th percentile consumer results in an MOE of 125, which is above the level the Agency generally considers as being of concern.

To the extent anticipated residues are assumed for most of the non-seed treatment commodities included in this analysis, these risk estimates should not be considered as "worst case". However, the assumption of tolerance level residues for all seed treatment commodities, as well as the assumption of 100% of crop treated for every commodity assessed, results in overestimation of acute dietary risk. The latter source of overestimation could only be addressed by using an uncertainty analysis methodology such as Monte Carlo.

#### Attachments

cc: DRES, CBRS, Tox 1, RD (PM 23), SRRD (Loranger), Caswell # 159

## Appendix A

The captan tolerance and AR residue files were updated for the RED by incorporating the following assumptions.

- \* 40 CFR 180.1(h) in the July 1995 edition of the CFR was used to identify crops for inclusion which, though not specifically mentioned in the tolerance expression, could legally have residues of captan through one or more of the recommended tolerances. The blueberry tolerance was applied to huckleberries, as was the blackberry tolerance to boysenberries, summer squash to bitter melon and towelgourd, peas to lentils, and muskmelons to casabas and crenshaws. The tolerance on peppers was assumed for paprika, under DRES mapping conventions. Chronic, cancer and acute ARs recommended in Olinger's 5/30/96 memo for the primary commodities were also assumed for secondary commodities.
- \* Additions to the DRES file through the recommendation of crop group tolerances are as follows:

<u>Crop Group</u>	<u>RACs</u>
legume vegetables	mung beans, guar beans
root & tuber veg.	artichoke, Jerusalem; cassava; horseradish; sweet potato; yam; taro; salsify
fruiting veg.	tomatoes
leafy veg. (not Brassica)	celery, garden cress, chicory, dandelion, endive, fennel, parsley, rhubarb
bulb vegetables	garlic, shallots, leeks
- \* "dill" was added to the file through the recommendation for a tolerance on "dill, seed"
- \* "cauliflower (cooked)", "lettuce, head" were added to the file after mistakenly being omitted in previous analyses

**The following RACs were inadvertently omitted from the DRES analysis: rice, upland cress, buckwheat and kohlrabi.** It is not expected that these uses at the residues levels recommended would appreciably change any of the risk estimates already calculated, so given the tight deadline for completion of the HED chapter of this RED, the analysis was not redone at this time. At the time these uses are added, the seed treatment tolerance and ARs should be applied.

- \* where the crop was present in the DRES file because of seed treatment use and percent of crop treated estimates were given in the BEAD memo for both seed treatment and agricultural use, the seed treatment estimates were used; the PCT value for potatoes in the Wintersteen 11/10/94 memo incorrectly used the 5% agricultural use value instead of the 20% seed treatment value
- \* concentration factors (CFACs) were turned off for processed forms of RACs in the DRES file due to seed treatment use.

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- \* CFACs were turned off in tolerance file where the tolerance for the reassessed processed form did not differ from the tolerance for the RAC itself and the processed form is in Table II of the Subdivision O Guidelines, the rationale being that if concentration was shown in the studies supporting the tolerance for this use a higher tolerance would have been required, and in the absence of recommendation for a higher tolerance it must be assumed concentration does not occur. If the processed form in DRES was not also in Table II (dried fruit), the CFAC was left on.
- \* the DRES file was corrected by removing a double entry for "turnip- root"
- \* the acute AR for kale in Olinger's 5/30/96 memo (p. 16) is a typo; instead of 0.15 ppm it should be 0.05 ppm
- \* there is inconsistency in the meat and milk tolerances recommended in 5/30/96 memo; these inconsistencies are also present in the acute ARs recommended in this memo. The correct tolerances and ARs are listed in Table 4 on p. 8 of the memo. Disregard the tolerances and ARs recommended in Tables A and C in the back.
- \* typo in Olinger 5/30/96 memo: PCT for cantaloupe should be 5% and should be identified (shaded) as acceptable for use in the DRES analysis since field trial data was used for the AR instead of monitoring data
- \* in Wintersteen memo, kale and mustard greens are assigned PCT of 5%, though these crops are not mentioned at all in the BEAD memo; PCT values were changed to 100% for this analysis
- \* PCT for head lettuce changed from 100% to 5%, in accordance with BEAD memo

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 159

DATE: 01/07/97

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CHEMICAL

STUDY TYPE

EFFECTS

REFERENCE DOSES

DATA GAPS/COMMENTS

STATUS

Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen Reprod- rat NOEL= 12,5000 mg/kg LEL= 25.0000 ppm 500.00 ppm ONCO: B2 (RED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 UHO reviewed 1990 RfD/pr reviewed 09/23/93 ON IRIS.
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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.440000		100.00	0.440000
01002AA	BLACKBERRIES	21 COOKED-NFS	15	P 25.000000	0.440000		100.00	0.440000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.440000		100.00	0.440000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.440000		100.00	0.440000
01003AA	BOYSENBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 25.000000	37.000000		100.00	3.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	3.000000		100.00	3.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	15	P 25.000000	3.000000		100.00	3.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	15	P 25.000000	3.000000		100.00	3.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	3.000000		100.00	3.000000
01009AA	BLUEBERRIES	70 RAW-FROZEN	15	P 25.000000	3.000000		100.00	3.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.170000		100.00	0.170000
01009AA	BLUEBERRIES	21 COOKED-NFS	15	P 25.000000	0.170000		100.00	0.170000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	15	P 25.000000	0.170000		100.00	0.170000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.170000		100.00	0.170000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-FRESH	21 COOKED-NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-FRESH	22 COOKED-FRESH-BAKED	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	15	P 25.000000	1.500000		100.00	1.500000
01014AA	GRAPES-RAISINS	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 25.000000	1.500000		100.00	1.500000
01015AA	HUCKLEBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.170000		100.00	0.170000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01016AA	STRAWBERRIES	21 COOKED-NFS	15	P 25.000000	1.500000		100.00	1.500000
01016AA	STRAWBERRIES	70 RAW-FROZEN	15	P 25.000000	1.500000		100.00	1.500000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	1.500000		100.00	1.500000
01016AA	STRAWBERRIES	21 COOKED-NFS	15	P 25.000000	1.500000		100.00	1.500000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	15	P 25.000000	0.070000		10.00	0.007000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	15	P 25.000000	0.070000		10.00	0.007000
03001AA	ALMONDS	21 COOKED-NFS	15	P 25.000000	0.070000		10.00	0.007000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	15	P 25.000000	0.070000		10.00	0.007000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.410000		100.00	0.410000
04001AA	APPLES-FRESH	21 COOKED-NFS	15	P 25.000000	0.410000		100.00	0.410000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.410000		100.00	0.410000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.410000		100.00	0.410000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.410000		100.00	0.410000
04001AA	APPLES-FRESH	22 COOKED-FRESH-BAKED	15	P 25.000000	0.410000		100.00	0.410000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	3.300000		100.00	3.300000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	15	P 25.000000	3.300000		100.00	3.300000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	15	P 25.000000	3.300000		100.00	3.300000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	15	P 25.000000	3.300000		100.00	3.300000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	3.300000		100.00	3.300000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	15	P 25.000000	0.130000		100.00	0.130000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.130000		100.00	0.130000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.110000		100.00	0.110000



ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 159

DATE: 01/07/97

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
04003AA	Captan	3gen reprod. rat	NOEL = 12.5000 mg/kg	Decreased pup body wts.	ADI UF --> 100	EPA verified 03/26/86					
04003AA	Caswell #159		NOEL = 250.00 ppm	RfD based on results of 1-gen. and 3-gen. reproduction studies.	OPR RfD = 0.130000	HED reviewed 12/22/88					
04003AA	CAS No. 133-06-2		LEL = 25.0000 mg/kg	Evidence of carcinogenicity in rats and mice.	EPA RfD = 0.130000	EPA verified 01/18/89					
04003DA	A.I. CODE: 081301		500.00 ppm		g* = 0.00360	MHO reviewed 1990					
04003DA	CFR No. 180.103					RfD/PR reviewed 09/23/93					
04003DA	185.500	ONCO: B2 (HED/SNP)				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)
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	15	25.000000	0.110000		100.00	0.110000
04003AA	PEARS-FRESH	51 COOKED-CANNED	15	25.000000	0.110000		100.00	0.110000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	25.000000	0.110000		100.00	0.110000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	15	25.000000	0.490000C		100.00	0.490000
04003DA	PEARS-DRIED	21 COOKED-NFS	15	25.000000	0.490000C		100.00	0.490000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	15	10.000000	0.540000		100.00	0.540000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	15	10.000000	0.540000		100.00	0.540000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	15	10.000000	0.540000		100.00	0.540000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	15	10.000000	3.300000C		100.00	3.300000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	15	10.000000	3.300000C		100.00	3.300000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	15	50.000000	0.070000		100.00	0.070000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	15	50.000000	0.070000		100.00	0.070000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	15	50.000000	0.070000		100.00	0.070000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	50.000000	0.070000		100.00	0.070000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	15	50.000000	0.280000C		100.00	0.280000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	15	50.000000	0.110000C		100.00	0.110000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	15	50.000000	0.110000C		100.00	0.110000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	15	25.000000	0.016000		100.00	0.016000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	15	15.000000	0.530000		100.00	0.530000
05004AA	PEACHES-FRESH	21 COOKED-NFS	15	15.000000	0.530000		100.00	0.530000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	15	15.000000	0.530000		100.00	0.530000
05004AA	PEACHES-FRESH	51 COOKED-FRESH OR CANNED	15	15.000000	0.530000		100.00	0.530000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	15	15.000000	3.800000C		100.00	3.800000
05005AA	PLUMS-FRESH	21 COOKED-NFS	15	10.000000	0.063000		100.00	0.063000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	15	10.000000	0.063000		100.00	0.063000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	15	10.000000	0.063000		100.00	0.063000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	15	10.000000	0.020000C		100.00	0.020000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	15	10.000000	0.020000C		100.00	0.020000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	15	10.000000	0.020000C		100.00	0.020000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	15	10.000000	0.100000C		100.00	0.100000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	15	10.000000	0.100000C		100.00	0.100000
08015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	15	0.050000	0.010000		100.00	0.010000
08022AA	HORSERADISH	11 RAW-FRESH-PICKLED (NO CONSUMPTION)	15	0.050000	0.010000		100.00	0.010000
08048BA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	15	0.050000	0.010000		100.00	0.010000
10002AA	CANTALOUPE-PULP	00 NOT SPECIFIED (NO CONSUMPTION)	15	0.050000	0.010000		100.00	0.010000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	15	0.050000	0.010000		100.00	0.010000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	15	0.050000	0.010000		100.00	0.010000
10003AA	CASABAS	10 RAW-FRESH OR NFS	15	0.050000	0.010000		100.00	0.010000
10004AA	CRENSHAUS	00 NOT SPECIFIED (NO CONSUMPTION)	15	0.050000	0.010000		100.00	0.010000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	15	0.050000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LE1= 25,0000 mg/kg 500.00 ppm	Decreased P4P body wts. RfD based on results of 1-gen. and 3gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 qt: 0.00360	No data gaps.	EPA verified 03/26/86 HED verified 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
10008AA	WATERMELON	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10008AA	WATERMELON	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	REREG	0.050000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	REREG	0.050000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
10017AA	BITTER MELON	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
10010AA	EGGPLANT	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10011AA	EGGPLANT	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10011AA	EGGPLANT	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
10033AA	PEPPERS,SHEET	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10033AA	PEPPERS,SHEET	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10033AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
10033AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10033AD	PEPPERS-OTHER	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10033AD	PEPPERS-OTHER	51 COOKED-CANNED	REREG	0.050000	0.010000		5.00	0.000500
10044AA	PIIENTOS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10044AA	PIIENTOS	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10054AA	PIIENTOS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
10055AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10055AA	TOMATOES-WHOLE	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10055AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-WHOLE	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	REREG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500

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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	STUDY TYPE 3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEP/SMP)	EFFECTS Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 ON IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN IAS RUM (ppm)
1100SUA	TOMATOES-CATSUP	21 COOKED-NFS	RENEG	0.050000	0.010000C		5.00	0.000500
13001AA	BETTS-TOPS	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		100.00	0.010000
13001AA	BETTS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13002AA	CELERY	10 RAW-FRESH OR NFS.	RENEG	0.050000	0.010000		5.00	0.000500
13002AA	CELERY	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
13003AA	CHICORY	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13003AA	BROCCOLI	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		100.00	0.010000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS.	RENEG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	23 COOKED-FRESH-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	RENEG	0.050000	0.010000		100.00	0.010000
13008AA	CAULIFLOWER	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13009AA	COLLARDS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13009AA	COLLARDS	51 COOKED-CANNED	RENEG	0.050000	0.010000		100.00	0.010000
13010AA	CABBAGE--CHINESE	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13010AA	CABBAGE--CHINESE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13011AA	KALE	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13011AA	LETTUCE-LEAFY	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		5.00	0.000500
13013AA	DANDELION	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13015AA	ENDIVE	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13015AA	FENNEL	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		100.00	0.010000
13020AA	LETTUCE-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		5.00	0.000500
13021AA	MUSTARD GREENS	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13022AA	PARSLEY	63 COOKED-FRESH OR FROZEN-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13022AA	PARSLEY	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	53 COOKED-CANNED-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		100.00	0.010000
13024AA	SPINACH	62 COOKED-FRESH OR FROZEN-BAKED	RENEG	0.050000	0.010000		100.00	0.010000
13024AA	SPINACH	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
13024AA	SPINACH	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185,500	3gen reprod- fat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEP/SAP)	Decreased pup body wts. Rfd based on results of 1-gen. and 5-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF -->100 OPP Rfd= 0.130000 EPA Rfd= 0.130000 Q*: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 Rfd/PR reviewed 09/23/93 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)
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	21 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
13045AA	LETTUCE-HEAD	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
14001AA	BETS-ROOTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BETS-ROOTS	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BETS-ROOTS	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BETS-ROOTS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BETS-ROOTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	51 COOKED-CANNED	REREG	0.050000	0.010000		100.00	0.010000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
14007AA	GARLIC	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14007AA	GARLIC	21 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
14010AA	LEEKS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14011DA	ONIONS-DRY	12 RAW-FRESH-DRIED	REREG	0.050000	0.010000		100.00	0.010000
14013AA	POTATO(UH)-WHOLE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	23 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AB	POTATO(UH)-UNSP	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AC	POTATO(UH)-PULP	21 COOKED-FRESH	REREG	0.050000	0.010000		20.00	0.002000
14013AC	POTATO(UH)-PULP	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AC	POTATO(UH)-PULP	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		20.00	0.002000
14013AC	POTATO(UH)-PULP	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		20.00	0.002000
14013BA	POTATO(UH)-DRY	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		20.00	0.002000
14013BA	POTATO(UH)-DRY	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		20.00	0.002000
14013BA	POTATO(UH)-DRY	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 159

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen repro- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	N	0.050000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	N	0.050000	0.010000		100.00	0.010000
14016AA	SALSIFY	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	N	0.050000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	REREG	N	0.050000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	REREG	N	0.050000	0.010000		100.00	0.010000
14019AA	TURNTIPS-ROOTS	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14019AA	TURNTIPS-ROOTS	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14021AA	PARSNIPS	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14024AA	YAMBEAN, TUBER	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14026AA	CASSAVA	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	REREG	N	0.050000	0.010000		100.00	0.010000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	N	0.050000	0.010000		100.00	0.010000
15001AA	BEANS-DRY-GRY NO	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	N	0.050000	0.010000		90.00	0.009000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	REREG	N	0.050000	0.010000		90.00	0.009000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	REREG	N	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	REREG	N	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	REREG	N	0.050000	0.010000		90.00	0.009000
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	REREG	N	0.050000	0.010000		90.00	0.009000
15004AA	CORN, POP	21 COOKED-NFS	REREG	N	0.050000	0.010000		5.00	0.000500
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		5.00	0.000500
15005AA	CORN, SWEET	21 COOKED-NFS	REREG	N	0.050000	0.010000		5.00	0.000500
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	REREG	N	0.050000	0.010000		5.00	0.000500
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	REREG	N	0.050000	0.010000		70.00	0.007000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	REREG	N	0.050000	0.010000		70.00	0.007000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	REREG	N	0.050000	0.010000		70.00	0.007000
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	REREG	N	0.050000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. Rfd based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	AD1 UF -->100 OPP Rfd= 0.130000 EPA Rfd= 0.130000 g*: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 Rfd/PR reviewed 09/23/93 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15007AA	PEAS DRY-GARDEN	31	COOKED-FRESH OR CANNED	0.050000	0.010000	100.00	0.010000
15009AA	PEAS SUCC-GARDEN	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
15009AA	PEAS SUCC-GARDEN	31	COOKED-FRESH OR CANNED	0.050000	0.010000	100.00	0.010000
15011AA	LENTILES-WHOLE	31	COOKED-FRESH OR CANNED	0.050000	0.010000	100.00	0.010000
15011AB	LENTILES-SPLIT	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
15013AA	MUNG BEANS	10	RAW-FRESH OR NFS	0.050000	0.010000	90.00	0.009000
15013AA	MUNG BEANS	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
15015AA	OKRA	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
15015AA	OKRA	25	COOKED-FRESH-FRIED	0.050000	0.010000	5.00	0.000500
15018AA	SUNFLOWER-SEEDS	10	RAW-FRESH OR NFS	0.050000	0.010000	100.00	0.010000
15021AA	ALFALFA SPROUTS	10	RAW-FRESH OR NFS	0.050000	0.010000	90.00	0.009000
15022AA	BEANS-DRY-BROAD	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	90.00	0.009000
15022AB	BEANS-SUCC-BROAD	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	90.00	0.009000
15023AA	BEANS-DRY-PIGEON	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
15026AA	SESAME SEEDS	10	RAW-FRESH OR NFS	0.050000	0.010000	100.00	0.010000
15026AA	SESAME SEEDS	22	COOKED-FRESH-BAKED	0.050000	0.010000	90.00	0.009000
15027AA	BEANS-UNSPEC	21	COOKED-NFS	0.050000	0.010000	90.00	0.009000
15029AA	SOYBEAN-SPROUTED	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	5.00	0.000500
15030AA	BEANS-DRY-HYAC	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	90.00	0.009000
15030AB	BEANS-SUCC-HYAC	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	90.00	0.009000
15031AA	BLKEYE PEAS-DRY	21	COOKED-NFS	0.050000	0.010000	90.00	0.009000
15032AA	BEANS-DRY	21	COOKED-NFS	0.050000	0.010000	90.00	0.009000
15032AA	BEANS-DRY	31	COOKED-FRESH OR CANNED	0.050000	0.010000	90.00	0.009000
16004AA	ONIONS-GREEN	10	RAW-FRESH OR NFS	0.050000	0.010000	5.00	0.000500
16004AA	ONIONS-GREEN	21	COOKED-NFS	0.050000	0.010000	5.00	0.000500
16004AA	ONIONS-GREEN	25	COOKED-FRESH-FRIED	0.050000	0.010000	5.00	0.000500
24001AA	BARLEY	21	COOKED-NFS	0.050000	0.010000	5.00	0.000500
24002EA	CORN, GRAIN-ENDO	10	RAW-FRESH OR NFS	0.050000	0.010000	100.00	0.010000
24002EA	CORN, GRAIN-ENDO	21	COOKED-NFS	0.050000	0.010000	100.00	0.010000
24002EA	CORN, GRAIN-ENDO	22	COOKED-FRESH-BAKED	0.050000	0.010000	100.00	0.010000
24002EA	CORN, GRAIN-ENDO	23	COOKED-FRESH-BOILED	0.050000	0.010000	100.00	0.010000
24002HA	CORN, GRAIN-BRAN	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	100.00	0.010000
24002SA	CORN SUGAR	10	RAW-FRESH OR NFS	0.050000	0.010000C	100.00	0.010000
24002SA	CORN SUGAR	21	COOKED-NFS	0.050000	0.010000C	100.00	0.010000
24002SA	CORN SUGAR	22	COOKED-FRESH-BAKED	0.050000	0.010000C	100.00	0.010000
24003AA	OATS	21	COOKED-NFS	0.050000	0.010000	5.00	0.000500
24003AA	OATS	22	COOKED-FRESH-BAKED	0.050000	0.010000	5.00	0.000500
24003AA	OATS	23	COOKED-FRESH-BOILED	0.050000	0.010000	5.00	0.000500
24005AA	RYE-ROUGH	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000	0.010000	5.00	0.000500
24005GA	RYE-GERM	22	COOKED-FRESH-BAKED	0.050000	0.010000	5.00	0.000500

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod. rat NOEL = 12,500 mg/kg 250.00 ppm LEI = 25,000 mg/kg 500.00 ppm	Decreased pup/body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 Qr: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
24005VA	RYE-FLOUR	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		5.00	0.000500
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007VA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007VA	WHEAT-FLOUR	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007VA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
26011AA	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		50.00	0.005000
270030A	COTTONSEED-MEAL	18 PROCESSED OIL	REREG	0.050000	0.010000		50.00	0.005000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
270070A	PEANUTS-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		70.00	0.007000
270080A	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
270080A	SAFFLOWER-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
270090A	SESAME-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		5.00	0.000500
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		5.00	0.000500
28023AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 159

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- Fat NOEL= 12.5000 mg/kg LEL= 250.00 ppm 500.00 mg/kg 500.00 ppm	Decreased pup/body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 g*: 0.00360	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
28023VA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
28023VB	SOY-FL, LOW FAT	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
28023WD	SOY-FL,DEFAT	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023WE	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
28023WF	SOY-FL,DEFAT	51 COOKED-CANNED	REREG	0.050000	0.010000		5.00	0.000500
28023WG	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	REREG	0.050000	0.010000		5.00	0.000500
43058AA	VINE AND SHERRY	10 RAW-FRESH OR NFS	REREG	25.000000	1.500000		100.00	1.500000
43058AB	VINE AND SHERRY	21 COOKED-NFS	REREG	25.000000	1.500000		100.00	1.500000
500000A	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	REREG	0.100000	0.010000		100.00	0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	REREG	0.100000	0.010000		100.00	0.010000
500000C	MILK-NON-FAT SOL	51 COOKED-CANNED	REREG	0.100000	0.010000		100.00	0.010000
500000D	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	REREG	0.100000	0.010000		100.00	0.010000
500000E	MILK-FAT SOLIDS	21 COOKED-NFS	REREG	0.100000	0.010000		100.00	0.010000
500000F	MILK-FAT SOLIDS	21 COOKED-NFS	REREG	0.100000	0.010000		100.00	0.010000
500000G	MILK-FAT SOLIDS	51 COOKED-CANNED	REREG	0.100000	0.010000		100.00	0.010000
500000H	MILK-FAT SOLIDS	21 COOKED-NFS	REREG	0.100000	0.010000		100.00	0.010000
500000I	MILK-SUG (LACT)	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
530018A	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,CORNNED,OR CURED	REREG	0.300000	0.010000		100.00	0.010000
530018B	BEEF-MEAT BYP	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
530018C	BEEF-OTH ORGAN	51 COOKED-CANNED	REREG	0.300000	0.010000		100.00	0.010000
530018D	BEEF-OTH ORGAN	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
530018E	BEEF-OTH ORGAN	10 RAW-FRESH OR NFS	REREG	0.150000	0.010000		100.00	0.010000
530018F	BEEF-FAT	21 COOKED-NFS	REREG	0.150000	0.010000		100.00	0.010000
530018G	BEEF-FAT	22 COOKED-FRESH-BAKED	REREG	0.150000	0.010000		100.00	0.010000
530018H	BEEF-FAT	23 COOKED-FRESH-BOILED	REREG	0.150000	0.010000		100.00	0.010000
530018I	BEEF-FAT	24 COOKED-FRESH-BROILED	REREG	0.150000	0.010000		100.00	0.010000
530018J	BEEF-FAT	25 COOKED-FRESH-FRIED	REREG	0.150000	0.010000		100.00	0.010000
530018K	BEEF-KIDNEY	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
530018L	BEEF-LIVER	25 COOKED-FRESH-FRIED	REREG	0.300000	0.010000		100.00	0.010000
530018M	BEEF-LIVER	31 COOKED-FRESH-OR CANNED	REREG	0.300000	0.010000		100.00	0.010000
530018N	BEEF-LEAN	10 RAW-FRESH OR NFS	REREG	0.200000	0.010000		100.00	0.010000
530018O	BEEF-LEAN	21 COOKED-NFS	REREG	0.200000	0.010000		100.00	0.010000
530018P	BEEF-LEAN	22 COOKED-FRESH-BAKED	REREG	0.200000	0.010000		100.00	0.010000
530018Q	BEEF-LEAN	23 COOKED-FRESH-BOILED	REREG	0.200000	0.010000		100.00	0.010000
530018R	BEEF-LEAN	24 COOKED-FRESH-BROILED	REREG	0.200000	0.010000		100.00	0.010000
530018S	BEEF-LEAN	25 COOKED-FRESH-FRIED	REREG	0.200000	0.010000		100.00	0.010000
530028A	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.010000		100.00	0.010000
530028B	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.010000		100.00	0.010000
530028C	GOAT-FAT	23 COOKED-FRESH-BOILED	REREG	0.150000	0.010000		100.00	0.010000
530028D	GOAT-FAT	25 COOKED-FRESH-FRIED	REREG	0.150000	0.010000		100.00	0.010000



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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	STUDY TYPE 3gen reprod. rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm	EFFECTS Decreased pup/body wts. Rfd based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 Opp Rfd= 0.130000 EPA Rfd= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 Rfd/PR reviewed 09/23/93 On IRIS.
	ONCO: B2 (HED/SAP)	q*: 0.00350			

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.010000		100.00	0.010000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.010000		100.00	0.010000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	REREG	0.200000	0.010000		100.00	0.010000
53002NA	GOAT-LEAN	25 COOKED-FRESH-FRIED	REREG	0.200000	0.010000		100.00	0.010000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.010000		100.00	0.010000
53003BA	SHEEP-MEAT BYP	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
53003BB	SHEEP-OTH ORGAN	21 COOKED-NFS	REREG	0.150000	0.010000		100.00	0.010000
53003FA	SHEEP-FAT	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.200000	0.010000		100.00	0.010000
53005MA	SHEEP-LEAN	21 COOKED-NFS	REREG	0.200000	0.010000		100.00	0.010000
53005NA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	REREG	0.300000	0.010000		100.00	0.010000
530068A	PORK-MEAT BYP	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
530068B	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.150000	0.010000		100.00	0.010000
530068B	PORK-OTH ORGAN	10 RAW-FRESH OR NFS	REREG	0.150000	0.010000		100.00	0.010000
53006FA	PORK-FAT	21 COOKED-NFS	REREG	0.150000	0.010000		100.00	0.010000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	REREG	0.150000	0.010000		100.00	0.010000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	REREG	0.150000	0.010000		100.00	0.010000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.150000	0.010000		100.00	0.010000
53006KA	PORK-KIDNEY	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
53006LA	PORK-LIVER	21 COOKED-NFS	REREG	0.300000	0.010000		100.00	0.010000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	REREG	0.300000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	21 COOKED-NFS	REREG	0.200000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	REREG	0.200000	0.010000		100.00	0.010000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.200000	0.010000		100.00	0.010000

Attachment 2: Anticipated Residues, Cancer

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 159

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm	Decreased pup. body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 g*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR. reviewed 09/23/93 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	15	P 25.000000	0.240000		100.00	0.240000
01002AA	BLACKBERRIES	21 COOKED-NFS	15	P 25.000000	0.240000		100.00	0.240000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.240000		100.00	0.240000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.240000		100.00	0.240000
01003AA	BOYSENBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 25.000000	0.550000		100.00	0.550000
01004AA	DEBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.550000		100.00	0.550000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	15	P 25.000000	0.550000		100.00	0.550000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.550000		100.00	0.550000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.550000		100.00	0.550000
01009AA	RASPBERRIES	70 RAW-FROZEN	15	P 25.000000	0.550000		100.00	0.550000
01009AA	RASPBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.110000		100.00	0.110000
01009AA	RASPBERRIES	21 COOKED-NFS	15	P 25.000000	0.110000		100.00	0.110000
01009AA	RASPBERRIES	22 COOKED-FRESH-BAKED	15	P 25.000000	0.110000		100.00	0.110000
01009AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	21 COOKED-NFS	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	22 COOKED-FRESH-BAKED	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	15 RAW-FRESH OR CANNED	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	21 COOKED-NFS	15	P 25.000000	0.240000		100.00	0.240000
01014AA	GRAPES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	15	P 25.000000	0.110000		100.00	0.110000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.700000		100.00	0.700000
01016AA	STRAWBERRIES	21 COOKED-NFS	15	P 25.000000	0.700000		100.00	0.700000
01016AA	STRAWBERRIES	70 RAW-FROZEN	15	P 25.000000	0.700000		100.00	0.700000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	15	P 25.000000	0.070000		10.00	0.070000
01016AA	STRAWBERRIES	21 COOKED-NFS	15	P 25.000000	0.070000		10.00	0.070000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	15	P 25.000000	0.060000		100.00	0.060000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	15	P 25.000000	0.060000		100.00	0.060000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.060000		100.00	0.060000
04001AA	APPLES-FRESH	21 COOKED-NFS	15	P 25.000000	0.060000		100.00	0.060000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.060000		100.00	0.060000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.060000		100.00	0.060000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.500000		100.00	0.500000
04001AA	APPLES-FRESH	15 RAW-FRESH OR CANNED	15	P 25.000000	0.500000		100.00	0.500000
04001AA	APPLES-FRESH	22 COOKED-FRESH-BAKED	15	P 25.000000	0.500000		100.00	0.500000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	P 25.000000	0.500000		100.00	0.500000
04001AA	APPLES-FRESH	15 RAW-FRESH OR CANNED	15	P 25.000000	0.019000		100.00	0.019000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	15	P 25.000000	0.019000		100.00	0.019000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	15	P 25.000000	0.062000		100.00	0.062000

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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	STUDY TYPE 3gen Reprod rat NOEL = 12,5000 mg/kg 250.00 ppm LEL = 25,0000 mg/kg 500.00 ppm	ONCO: B2 (HEP/SAP)	EFFECTS Decreased pup/body wts. RFD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RfD = 0.130000 EPA RfD = 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/85 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RM (ppm)
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	15	25.000000	0.062000		100.00	0.062000
04003AA	PEARS-FRESH	51 COOKED-CANNED	15	25.000000	0.062000		100.00	0.062000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	15	25.000000	0.062000		100.00	0.062000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	15	25.000000	0.280000C		100.00	0.280000
04003DA	PEARS-DRIED	21 COOKED-NFS	15	25.000000	0.280000C		100.00	0.280000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	REREG	10.000000	0.230000		100.00	0.230000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	REREG	10.000000	0.230000		100.00	0.230000
05001DA	APRICOTS-DRIED	31 COOKED-FRESH OR CANNED	REREG	10.000000	0.230000		100.00	0.230000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	REREG	10.000000	1.400000C		100.00	1.400000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	REREG	10.000000	1.400000C		100.00	1.400000
05002AA	CERRRIES-FRESH	10 RAW-FRESH OR NFS	REREG	50.000000	0.056000		100.00	0.056000
05002AA	CERRRIES-FRESH	21 COOKED-NFS	REREG	50.000000	0.056000		100.00	0.056000
05002AA	CERRRIES-FRESH	31 COOKED-FRESH OR CANNED	REREG	50.000000	0.056000		100.00	0.056000
05002AA	CERRRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	REREG	50.000000	0.056000		100.00	0.056000
05002AA	CERRRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	50.000000	0.220000C		100.00	0.220000
05002AA	CERRRIES-DRIED	15 RAW-FRESH OR CANNED	REREG	50.000000	0.084000C		100.00	0.084000
05002AA	CERRRIES-DRIED	21 COOKED-NFS	REREG	50.000000	0.084000C		100.00	0.084000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	REREG	25.000000	0.016000		100.00	0.016000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	REREG	15.000000	0.150000		100.00	0.150000
05004AA	PEACHES-FRESH	21 COOKED-NFS	REREG	15.000000	0.150000		100.00	0.150000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	REREG	15.000000	0.150000		100.00	0.150000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	REREG	15.000000	0.150000		100.00	0.150000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	REREG	15.000000	1.100000C		100.00	1.100000
05004DA	PEACHES-DRIED	21 COOKED-NFS	REREG	15.000000	1.100000C		100.00	1.100000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	REREG	10.000000	0.044000		100.00	0.044000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	REREG	10.000000	0.044000		100.00	0.044000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	REREG	10.000000	0.010000C		100.00	0.010000
05005AA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	REREG	10.000000	0.010000C		100.00	0.010000
05005AA	PLUMS-PRUNES	21 COOKED-NFS	REREG	10.000000	0.010000C		100.00	0.010000
05005AA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	REREG	10.000000	0.010000C		100.00	0.010000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	REREG	10.000000	0.062000C		100.00	0.062000
05005DA	PLUMS-PRUNES	21 COOKED-FRESH OR CANNED	REREG	10.000000	0.062000C		100.00	0.062000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	REREG	10.000000	0.062000C		100.00	0.062000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	REREG	10.000000	0.010000		100.00	0.010000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	REREG	10.000000	0.062000C		100.00	0.062000
08015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
08015AA	DILL	11 RAW-FRESH-PICKLED, CORNED, OR CURED	REREG	0.050000	0.010000		100.00	0.010000
08022AA	HORSERADISH	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
08022AA	HORSERADISH	11 RAW-FRESH-PICKLED, CORNED, OR CURED	REREG	0.050000	0.010000		100.00	0.010000
10002AA	CANTALOUPE-UMSP	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10003AA	CASABAS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm	Decreased pup/body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 Gr: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 ON 181S.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
10008AA	WATERMELON	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
10008AA	WATERMELON	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	RENEG	0.050000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	RENEG	0.050000	0.010000		100.00	0.010000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	RENEG	0.050000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		100.00	0.010000
10017AA	BITTER MELON	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		5.00	0.000500
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11001AA	EGGPLANT	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	RENEG	0.050000	0.010000		5.00	0.000500
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11003AA	PEPPERS, SWEET	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11003AB	CHILL PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		5.00	0.000500
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11003AD	PEPPERS-OTHER	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	RENEG	0.050000	0.010000		5.00	0.000500
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11004AA	PIMIENTOS	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-JUICE	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500
11005RA	TOMATOES-PUREE	52 COOKED-FRESH OR CANNED-BAKED	RENEG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	RENEG	0.050000	0.010000		5.00	0.000500
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500

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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	STUDY TYPE 3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEP/SAP)	EFFECTS Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/86 HED verified 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUM (ppm)
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	REREG	0.050000	0.010000C		5.00	0.000500
13001AA	BETTS-TOPS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13001AA	BETTS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13002AA	CELERY	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
13002AA	CELERY	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13003AA	CHICORY	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13005AA	BROCCOLI	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CANNED, OR CURED	REREG	0.050000	0.010000		100.00	0.010000
13007AA	CABBAGE	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13008AA	CAULIFLOWER	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13009AA	COLLARDS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13010AA	CABBAGE-CHINESE	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13011AA	KALE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13013AA	LETTUCE-LEAFY	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13014AA	DANDELION	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13015AA	ENDIVE	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13015AA	ENDIVE	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13022AA	PARSLEY	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	REREG	0.050000	0.010000		100.00	0.010000
13024AA	SPINACH	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
13024AA	SPINACH	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500

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CHEMICAL Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	STUDY TYPE 3gen reprod. rat NOEL= 12,5000 mg/kg 250.00 ppm LEI= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEB/SAP)	EFFECTS Decreased pup. body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF: -->100 GPP RfD= 0.130000 EPA RfD= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	21 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
13045AA	LETTUCE-HEAD	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	21 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.050000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	21 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14003AA	CARROTS	51 COOKED-CANNED	REREG	0.050000	0.010000		100.00	0.010000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
14007AA	GARLIC	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14007AA	GARLIC	21 COOKED-FRESH	REREG	0.050000	0.010000		100.00	0.010000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	REREG	0.050000	0.010000		100.00	0.010000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
14011AA	LEEEKS	31 COOKED-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	21 COOKED-FRESH	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	12 RAW-FRESH-DRIED	REREG	0.050000	0.010000		100.00	0.010000
14013AA	POTATO(UH)-WHOLE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	21 COOKED-FRESH	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	23 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	25 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	26 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	27 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	28 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	29 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	30 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		20.00	0.002000
14013AA	POTATO(UH)-WHOLE	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000

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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	CHEMICAL	STUDY TYPE 3gen reprod- rat	EFFECTS Decreased pup body wts. RFD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RFD= 0.130000 EPA RFD= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/85 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RFD/PR reviewed 09/23/93 On IRIS.
		NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm				

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		100.00	0.010000
14016AA	SALSIFY	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		100.00	0.010000
14018AA	SHEETPOTATOES	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14018AA	SHEETPOTATOES	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		100.00	0.010000
14018AA	SHEETPOTATOES	51 COOKED-CANNED	RENEG	0.050000	0.010000		100.00	0.010000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14021AA	PARSNIPS	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14024AA	YANBEAM,TUBER	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		100.00	0.010000
14026AA	CASSAVA	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	RENEG	0.050000	0.010000		100.00	0.010000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		90.00	0.009000
15001AA	BEANS-DRY-GRT NO	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.050000	0.010000		90.00	0.009000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		90.00	0.009000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	RENEG	0.050000	0.010000		90.00	0.009000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		90.00	0.009000
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		90.00	0.009000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		90.00	0.009000
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	RENEG	0.050000	0.010000		90.00	0.009000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
15004AA	CORN,POP	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
15005AA	CORN,SWEET	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
15005AA	CORN,SWEET	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
15005AA	CORN,SWEET	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		70.00	0.007000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		70.00	0.007000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	RENEG	0.050000	0.010000		70.00	0.007000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	RENEG	0.050000	0.010000		70.00	0.007000
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	RENEG	0.050000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEI= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup/body wts. RD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RD= 0.130000 EPA RD= 0.130000	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RD/PR reviewed 09/23/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN IAS RUM (ppm)
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
15011AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
15011AA	LENTILES-WHOLE	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
15011AB	LENTILES-SPLIT	21 COOKED-NFS	REREG	0.050000	0.010000		90.00	0.010000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		90.00	0.009000
15013AA	MUNG BEANS	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
15015AA	OKRA	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
15018AA	SUNFLOWER-SEEDS	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		90.00	0.009000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		90.00	0.009000
15031AA	BLUKEYE-PEAS-DRY	21 COOKED-NFS	REREG	0.050000	0.010000		90.00	0.009000
15032AA	BEANS-DRY	21 COOKED-NFS	REREG	0.050000	0.010000		90.00	0.009000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
16004AA	ONIONS-GREEN	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
24001AA	BARLEY	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		100.00	0.010000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
24002SA	CORN SUGAR	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
24003AA	OATS	21 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24003AA	OATS	22 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24003AA	OATS	23 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24003AA	OATS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		5.00	0.000500
24005GA	RYE-ROUGH	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24005GA	RYE-GERM		REREG	0.050000	0.010000		5.00	0.000500

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 159

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod. rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF 1->100 Opp RfD= 0.130000 EPA RfD= 0.130000 gr: 0.00121	No data gaps.	EPA verified 03/26/85 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 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)
24005MA	RYE-FLOUR	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24005MA	RYE-FLOUR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		5.00	0.000500
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007MA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
24007MA	WHEAT-FLOUR	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
24007MA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500
24007MA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		100.00	0.010000
25002SA	BEET SUGAR	21 COOKED-NFS	REREG	0.050000	0.010000		100.00	0.010000
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		100.00	0.010000
25002SA	BEET SUGAR	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		100.00	0.010000
26011AA	GLAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
27002DA	CORN, GRAIN-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		50.00	0.005000
27003DA	COTTONSEED-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		50.00	0.005000
27003DA	COTTONSEED-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
27003MA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
27004AA	PEANUTS-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		70.00	0.007000
27007DA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
27008AA	SAFFLOWER-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
27008DA	SAFFLOWER-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
27009DA	SESAME-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		100.00	0.010000
27010DA	SOYBEANS-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		5.00	0.000500
27011DA	SUNFLOWER-OIL	18 PROCESSED OIL	REREG	0.050000	0.010000		5.00	0.000500
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.050000	0.010000		100.00	0.010000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	REREG	0.050000	0.010000		5.00	0.000500
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	REREG	0.050000	0.010000		5.00	0.000500
28023MA	SOY-FL, FULL FAT	21 COOKED-NFS	REREG	0.050000	0.010000		5.00	0.000500
28023MA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	REREG	0.050000	0.010000		5.00	0.000500

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CHEMICAL

STUDY TYPE

EFFECTS

REFERENCE DOSES

DATA GAPS/COMMENTS

STATUS

Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen repro- fat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm	Decreased pup body wts. Rfd based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP Rfd= 0.130000 EPA Rfd= 0.130000	No data gaps.	EPA verified 03/26/86 MED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RFD/PR reviewed 09/23/93 ON IRIS.
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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RM (ppm)
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	RENEG	0.050000	0.010000		5.00	0.000500
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	RENEG	0.050000	0.010000		5.00	0.000500
28023WD	SOY-FL,DEFAT	21 COOKED-NFS	RENEG	0.050000	0.010000		5.00	0.000500
28023WE	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	RENEG	0.050000	0.010000		5.00	0.000500
28023WF	SOY-FL,DEFAT	51 COOKED-CANNED	RENEG	0.050000	0.010000		5.00	0.000500
28023WG	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	RENEG	0.050000	0.010000		5.00	0.000500
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	RENEG	25.000000	0.240000		100.00	0.240000
43058AB	WINE AND SHERRY	21 COOKED-NFS	RENEG	25.000000	0.240000		100.00	0.240000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000C	MILK-NON-FAT SOL	21 COOKED-NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000D	MILK-NON-FAT SOL	21 COOKED-NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000E	MILK-NON-FAT SOL	10 COOKED-CANNED	RENEG	0.100000	0.001000		100.00	0.001000
500000F	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000G	MILK-FAT SOLIDS	21 COOKED-NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000H	MILK-FAT SOLIDS	21 COOKED-NFS	RENEG	0.100000	0.001000		100.00	0.001000
500000I	MILK-FAT SOLIDS	51 COOKED-CANNED	RENEG	0.100000	0.001000		100.00	0.001000
500000J	MILK SUG (LACT)	51 COOKED-NFS	RENEG	0.300000	0.001000		100.00	0.001000
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	RENEG	0.300000	0.001000		100.00	0.001000
53001BB	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	RENEG	0.300000	0.001000		100.00	0.001000
53001BC	BEEF-OTR ORGAN	21 COOKED-NFS	RENEG	0.300000	0.001000		100.00	0.001000
53001BD	BEEF-OTR ORGAN	51 COOKED-CANNED	RENEG	0.300000	0.001000		100.00	0.001000
53001DA	BEEF-DRIED	21 COOKED-NFS	RENEG	0.200000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	RENEG	0.150000	0.001000		100.00	0.001000
53001FB	BEEF-FAT	21 COOKED-NFS	RENEG	0.150000	0.001000		100.00	0.001000
53001FC	BEEF-FAT	22 COOKED-FRESH-BAKED	RENEG	0.150000	0.001000		100.00	0.001000
53001FD	BEEF-FAT	23 COOKED-FRESH-BOILED	RENEG	0.150000	0.001000		100.00	0.001000
53001FE	BEEF-FAT	24 COOKED-FRESH-BOILED	RENEG	0.150000	0.001000		100.00	0.001000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	RENEG	0.150000	0.001000		100.00	0.001000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	RENEG	0.300000	0.001000		100.00	0.001000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	RENEG	0.300000	0.001000		100.00	0.001000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	RENEG	0.300000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	RENEG	0.200000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	21 COOKED-NFS	RENEG	0.200000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	RENEG	0.200000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	RENEG	0.200000	0.001000		100.00	0.001000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	RENEG	0.200000	0.001000		100.00	0.001000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.300000	0.001000		100.00	0.001000
53002BB	GOAT-OTR ORGAN	20 NOT SPECIFIED (NO CONSUMPTION)	RENEG	0.300000	0.001000		100.00	0.001000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	RENEG	0.150000	0.001000		100.00	0.001000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	RENEG	0.150000	0.001000		100.00	0.001000

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Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	CHEMICAL	STUDY TYPE 3gen reprod- rat	EFFECTS Decreased ppx body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	REFERENCE DOSES ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000	DATA GAPS/COMMENTS No data gaps.	STATUS EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.
		ONCO: B2 (HED/SAP)	NOEL= 12,5000 mg/kg LEL= 25,0000 mg/kg 500.00 ppm	G* = 0.00121		

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUM (ppm)
53002YA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.001000		100.00	0.001000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.001000		100.00	0.001000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	REREG	0.200000	0.001000		100.00	0.001000
53002NA	GOAT-LEAN	25 COOKED-FRESH-FRIED	REREG	0.200000	0.001000		100.00	0.001000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.001000		100.00	0.001000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	REREG	0.300000	0.001000		100.00	0.001000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	REREG	0.150000	0.001000		100.00	0.001000
53005FA	SHEEP-FAT	21 COOKED-NFS	REREG	0.300000	0.001000		100.00	0.001000
53005LA	SHEEP-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	0.300000	0.001000		100.00	0.001000
53005MA	SHEEP-LIVER	21 COOKED-NFS	REREG	0.200000	0.001000		100.00	0.001000
53005NA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	REREG	0.300000	0.001000		100.00	0.001000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	REREG	0.300000	0.001000		100.00	0.001000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	REREG	0.150000	0.001000		100.00	0.001000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.150000	0.001000		100.00	0.001000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	REREG	0.150000	0.001000		100.00	0.001000
53006FA	PORK-FAT	21 COOKED-NFS	REREG	0.150000	0.001000		100.00	0.001000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	REREG	0.150000	0.001000		100.00	0.001000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	REREG	0.150000	0.001000		100.00	0.001000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.150000	0.001000		100.00	0.001000
53006LA	PORK-LIVER	21 COOKED-NFS	REREG	0.300000	0.001000		100.00	0.001000
53006LA	PORK-LIVER	21 COOKED-NFS	REREG	0.300000	0.001000		100.00	0.001000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	REREG	0.300000	0.001000		100.00	0.001000
53006MA	PORK-LEAN	21 COOKED-NFS	REREG	0.200000	0.001000		100.00	0.001000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	REREG	0.200000	0.001000		100.00	0.001000
53006HA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	REREG	0.200000	0.001000		100.00	0.001000

Attachment 3: Acute Anticipated Residues

01002AA10	25.0000	BLACKBERRIES
01002AA21	25.0000	BLACKBERRIES
01002AA62	25.0000	BLACKBERRIES
01003AA10	25.0000	BOYSENBERRIES
01004AA00	25.0000	DEMBERRIES
01006AA10	25.0000	RASPBERRIES
01006AA15	25.0000	RASPBERRIES
01006AA31	25.0000	RASPBERRIES
01006AA62	25.0000	RASPBERRIES
01006AA70	25.0000	RASPBERRIES
01009AA10	36.0000	BLUEBERRIES
01009AA21	36.0000	BLUEBERRIES
01009AA22	36.0000	BLUEBERRIES
01009AA62	36.0000	BLUEBERRIES
01014AA10	23.0000	GRAPES-FRESH
01014AA21	23.0000	GRAPES-FRESH
01014AA31	23.0000	GRAPES-FRESH
01014DA10	23.0000	CGRAPES-RAISINS
01014DA21	23.0000	CGRAPES-RAISINS
01014DA22	23.0000	CGRAPES-RAISINS
01014JA10	1.5000	CGRAPES-JUICE
01014JA15	1.5000	CGRAPES-JUICE
01014JA21	1.5000	CGRAPES-JUICE
01015AA00	36.0000	HUCKLEBERRIES
01016AA10	75.0000	STRAWBERRIES
01016AA21	75.0000	STRAWBERRIES
01016AA70	75.0000	STRAWBERRIES
03001AA10	0.1000	ALMONDS
03001AA21	0.1000	ALMONDS
03001AA22	0.1000	ALMONDS
04001AA10	25.0000	APPLES-FRESH
04001AA21	25.0000	APPLES-FRESH
04001AA31	25.0000	APPLES-FRESH
04001AA62	25.0000	APPLES-FRESH
04001DA10	0.0000	CAPPLES-DRIED
04001DA22	0.0000	CAPPLES-DRIED
04001DA62	0.0000	CAPPLES-DRIED
04001JA15	0.1300	CAPPLES-JUICE
04001JA31	0.1300	CAPPLES-JUICE
04003AA10	15.0000	PEARS-FRESH
04003AA31	15.0000	PEARS-FRESH
04003AA51	15.0000	PEARS-FRESH
04003AA62	15.0000	PEARS-FRESH
04003DA10	66.0000	CPEARS-DRIED
04003DA21	66.0000	CPEARS-DRIED
05001AA10	7.0000	APRICOTS-FRESH
05001AA21	7.0000	APRICOTS-FRESH
05001AA31	7.0000	APRICOTS-FRESH
05001DA10	42.0000	CAPRICOTS-DRIED
05001DA22	42.0000	CAPRICOTS-DRIED
05002AA10	36.0000	CERRIES-FRESH
05002AA21	36.0000	CERRIES-FRESH
05002AA31	36.0000	CERRIES-FRESH
05002AA62	36.0000	CERRIES-FRESH
05002DA00	0.1100	CCHERRIES-DRIED
05002DA01	0.1100	CCHERRIES-DRIED
05002JA15	0.1100	CCHERRIES-JUICE
05002JA21	0.1100	CCHERRIES-JUICE
05003AA10	10.0000	NECTARINES
05004AA10	14.0000	PEACHES-FRESH
05004AA21	14.0000	PEACHES-FRESH
05004AA31	14.0000	PEACHES-FRESH
05004AA51	14.0000	PEACHES-FRESH
05004DA10	98.0000	CPEACHES-DRIED
05004DA21	98.0000	CPEACHES-DRIED
05005AA10	8.0000	PLUMS-FRESH
05005AA31	8.0000	PLUMS-FRESH
05005DA10	2.0000	CPLUMS-PRUNES
05005DA21	2.0000	CPLUMS-PRUNES
05005DA31	2.0000	CPLUMS-PRUNES
05005JA10	0.1000	CPRUNE-JUICE
05005JA62	0.1000	CPRUNE-JUICE
08022AA11	0.0500	HORSERADISH
08048DA00	0.0500	PAPRIKA
10002AA00	0.0500	CANTALOUPE-UNSP
10002AB10	0.0500	CANTALOUPE-PULP
10002AB21	0.0500	CANTALOUPE-PULP
10003AA10	0.0500	CASABAS
10004AA00	0.0500	CRENSHAWS
10005AA10	0.0500	HONEYDEW MELONS
10008AA10	0.0500	WATERMELON
10008AA21	0.0500	WATERMELON
10010AA10	0.0500	CUCUMBERS
10010AA11	0.0500	CUCUMBERS
10010AA21	0.0500	CUCUMBERS
10011AA21	0.0500	PUMPKIN
10011AA22	0.0500	PUMPKIN
10011AA62	0.0500	PUMPKIN
10013AA10	0.0500	SQUASH-SUMMER
10013AA21	0.0500	SQUASH-SUMMER
10014AA10	0.0500	SQUASH-WINTER
10014AA21	0.0500	SQUASH-WINTER
10014AA31	0.0500	SQUASH-WINTER
10017AA21	0.0500	BITTER MELON
10020AA00	0.0500	TOMELGOURD
11001AA10	0.0500	EGGPLANT
11001AA21	0.0500	EGGPLANT
11001AA25	0.0500	EGGPLANT
11003AA10	0.0500	PEPPERS-SWEET
11003AA21	0.0500	PEPPERS-SWEET
11003AB00	0.0500	CHILI PEPPERS
11003AD10	0.0500	PEPPERS-OTHER
11003AD21	0.0500	PEPPERS-OTHER
11003AD51	0.0500	PEPPERS-OTHER
11004AA10	0.0500	PIMENTOS
11004AA21	0.0500	PIMENTOS
11004AA31	0.0500	PIMENTOS
11005AA10	0.0500	TOMATOES-WHOLE
11005AA21	0.0500	TOMATOES-WHOLE
11005AA31	0.0500	TOMATOES-WHOLE
11005JA10	0.0500	C TOMATOES-JUICE
11005JA21	0.0500	C TOMATOES-JUICE
11005RA10	0.0500	C TOMATOES-PUREE
11005RA21	0.0500	C TOMATOES-PUREE
11005RA31	0.0500	C TOMATOES-PUREE
11005RA32	0.0500	C TOMATOES-PUREE
11005RA51	0.0500	C TOMATOES-PUREE
11005TA21	0.0500	C TOMATOES-PASTE

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14006AA00 0.0500 TARO-ROOT  
 14007AA10 0.0500 GARLIC  
 14007AA21 0.0500 GARLIC  
 14007AA32 0.0500 GARLIC  
 14009AA00 0.0500 ARTICOKES-JER  
 14010AA31 0.0500 LEEKS  
 14011AA10 0.0500 ONIONS-DRY-BULB  
 14011AA21 0.0500 ONIONS-DRY-BULB  
 14011AA22 0.0500 ONIONS-DRY-BULB  
 14011AA31 0.0500 ONIONS-DRY-BULB  
 14011DA12 0.0500 ONIONS-DRIED  
 14013AA10 0.0500 POTATO(WH)-WHOLE  
 14013AA21 0.0500 POTATO(WH)-WHOLE  
 14013AA22 0.0500 POTATO(WH)-WHOLE  
 14013AB22 0.0500 POTATO(WH)-UNSP  
 14013AC21 0.0500 POTATO(WH)-PULP  
 14013AC22 0.0500 POTATO(WH)-PULP  
 14013AC23 0.0500 POTATO(WH)-PULP  
 14013AC25 0.0500 POTATO(WH)-PULP  
 14013DA10 0.0500 POTATO(WH)-DRY  
 14013DA31 0.0500 POTATO(WH)-DRY  
 14013HA22 0.0500 POTATO(WH)-PEEL  
 14014AA10 0.0500 RADISHES-ROOTS  
 14014AB00 0.0500 RADISHES-TOPS  
 14015AA10 0.0500 RUTABAGAS-ROOTS  
 14015AA21 0.0500 RUTABAGAS-ROOTS  
 14015AB00 0.0500 RUTABAGAS-TOPS  
 14016AA21 0.0500 SALSIFY  
 14017AA00 0.0500 SHALLOTS  
 14018AA21 0.0500 SWEETPOTATOES  
 14018AA31 0.0500 SWEETPOTATOES  
 14018AA51 0.0500 SWEETPOTATOES  
 14019AA10 0.0500 TURNIPS-ROOTS  
 14019AA21 0.0500 TURNIPS-ROOTS  
 14021AA21 0.0500 PARSNIPS  
 14024AA10 0.0500 YAMBEAN, TUBER  
 14026AA21 0.0500 CASSAVA  
 14026AA23 0.0500 CASSAVA  
 14030AA00 0.0500 PARSLEY ROOTS  
 15001AA00 0.0500 BEANS-DRY-GRT NO  
 15001AB21 0.0500 BEANS-DRY-KIDNEY  
 15001AB31 0.0500 BEANS-DRY-KIDNEY  
 15001AC21 0.0500 BEANS-DRY-LIMA  
 15001AD21 0.0500 BEANS-DRY-NAVY  
 15001AD31 0.0500 BEANS-DRY-NAVY  
 15001AE21 0.0500 BEANS-DRY-OTHER  
 15001AE25 0.0500 BEANS-DRY-OTHER  
 15001AE31 0.0500 BEANS-DRY-OTHER  
 15001AF21 0.0500 BEANS-DRY-PINTO  
 15002AA10 0.0500 BEANS-SUCC-LIMA  
 15002AA21 0.0500 BEANS-SUCC-LIMA  
 15003AA21 0.0500 BEANS-SUCC-GREEN  
 15003AB10 0.0500 BEANS-SUCC-OTH  
 15003AB21 0.0500 BEANS-SUCC-OTH  
 15003AC21 0.0500 BEANS-SUCC-WAX  
 15004AA21 0.0500 CORN, POP  
 15005AA10 0.0500 CORN, SWEET  
 15005AA21 0.0500 CORN, SWEET  
 15005AA31 0.0500 CORN, SWEET

11005TA22 0.0500 TOMATOES-PASTE  
 11005TA31 0.0500 TOMATOES-PASTE  
 11005UA21 0.0500 TOMATOES-CATSUP  
 13001AA31 0.0500 BEETS-TOPS  
 13001AA63 0.0500 BEETS-TOPS  
 13002AA10 0.0500 CELERY  
 13002AA21 0.0500 CELERY  
 13003AA10 0.0500 CHICORY  
 13005AA21 0.0500 BROCCOLI  
 13005AA31 0.0500 BROCCOLI  
 13005AA63 0.0500 BROCCOLI  
 13006AA21 0.0500 BRUSSEL SPROUTS  
 13006AA23 0.0500 BRUSSEL SPROUTS  
 13007AA10 0.0500 CABBAGE  
 13007AA11 0.0500 CABBAGE  
 13007AA21 0.0500 CABBAGE  
 13008AA10 0.0500 CAULIFLOWER  
 13008AA21 0.0500 CAULIFLOWER  
 13009AA51 0.0500 COLLARDS  
 13009AA63 0.0500 COLLARDS  
 13010AA10 0.0500 CABBAGE-CHINESE  
 13010AA21 0.0500 CABBAGE-CHINESE  
 13011AA63 0.0500 KALE  
 13013AA10 0.0500 LETTUCE-LEAFY  
 13014AA63 0.0500 DANDELION  
 13015AA10 0.0500 ENDIVE  
 13015AA21 0.0500 ENDIVE  
 13016AA00 0.0500 FENNEL  
 13017AA00 0.0500 CRESS  
 13020AA10 0.0500 LETTUCE-UNSPEC  
 13021AA21 0.0500 MUSTARD GREENS  
 13021AA63 0.0500 MUSTARD GREENS  
 13022AA10 0.0500 PARSLEY  
 13022AA21 0.0500 PARSLEY  
 13022AA53 0.0500 PARSLEY  
 13023AA10 0.0500 RHUBARB  
 13023AA21 0.0500 RHUBARB  
 13023AA31 0.0500 RHUBARB  
 13023AA62 0.0500 RHUBARB  
 13024AA10 0.0500 SPINACH  
 13024AA21 0.0500 SPINACH  
 13024AA31 0.0500 SPINACH  
 13025AA10 0.0500 SWISS CHARD  
 13025AA31 0.0500 SWISS CHARD  
 13025AA63 0.0500 SWISS CHARD  
 13026AA10 0.0500 TURNIPS-TOPS  
 13026AA21 0.0500 TURNIPS-TOPS  
 13026AA31 0.0500 TURNIPS-TOPS  
 13045AA10 0.0500 LETTUCE-HEAD  
 13045AA21 0.0500 LETTUCE-HEAD  
 14001AA10 0.0500 BEETS-ROOTS  
 14001AA21 0.0500 BEETS-ROOTS  
 14001AA26 0.0500 BEETS-ROOTS  
 14001AA31 0.0500 BEETS-ROOTS  
 14003AA10 0.0500 CARROTS  
 14003AA21 0.0500 CARROTS  
 14003AA23 0.0500 CARROTS  
 14003AA31 0.0500 CARROTS  
 14003AA51 0.0500 CARROTS

15006AA10	0.0500	PEANUTS-WHOLE
15006AA21	0.0500	PEANUTS-WHOLE
15006AA22	0.0500	PEANUTS-WHOLE
15007AA21	0.0500	PEAS DRY-GARDEN
15007AA31	0.0500	PEAS DRY-GARDEN
15009AA21	0.0500	PEAS SUCC-GARDEN
15009AA31	0.0500	PEAS SUCC-GARDEN
15011AA31	0.0500	LENTILES-WHOLE
15011AB21	0.0500	LENTILES-SPLIT
15013AA10	0.0500	MUNG BEANS
15013AA21	0.0500	MUNG BEANS
15015AA21	0.0500	OKRA
15015AA25	0.0500	OKRA
15018AA10	0.0500	SUNFLOWER-SEEDS
15021AA10	0.0500	ALFALFA SPROUTS
15022AA00	0.0500	BEANS-DRY-BROAD
15022AB00	0.0500	BEANS-SUCC-BROAD
15023AA21	0.0500	BEANS-DRY-PIGEON
15026AA10	0.0500	SESAME SEEDS
15026AA22	0.0500	SESAME SEEDS
15027AA21	0.0500	BEANS-UNSPEC
15029AA00	0.0500	SOYBEAN-SPROUTED
15030AA00	0.0500	BEANS-DRY-HYAC
15030AB00	0.0500	BEANS-SUCC-HYAC
15031AA21	0.0500	BLKEYE PEAS-DRY
15032AA21	0.0500	BEANS-DRY
15032AA31	0.0500	BEANS-DRY
16004AA10	0.0500	ONIONS-GREEN
16004AA21	0.0500	ONIONS-GREEN
16004AA25	0.0500	ONIONS-GREEN
24001AA21	0.0500	BARLEY
24002EA10	0.0500	CORN GRAIN-ENDO
24002EA21	0.0500	CORN GRAIN-ENDO
24002EA22	0.0500	CORN GRAIN-ENDO
24002EA23	0.0500	CORN GRAIN-ENDO
24002HA00	0.0500	CORN GRAIN-BRAN
24002SA10	0.0500	CORN SUGAR
24002SA21	0.0500	CORN SUGAR
24002SA22	0.0500	CORN SUGAR
24003AA21	0.0500	OATS
24003AA22	0.0500	OATS
24003AA23	0.0500	OATS
24005AA00	0.0500	RYE-ROUGH
24005GA22	0.0500	RYE-GERM
24005WA21	0.0500	RYE-FLOUR
24005WA22	0.0500	RYE-FLOUR
24006AA00	0.0500	SORGHUM
24007AA10	0.0500	WHEAT-ROUGH
24007AA21	0.0500	WHEAT-ROUGH
24007AA22	0.0500	WHEAT-ROUGH
24007AA23	0.0500	WHEAT-ROUGH
24007GA10	0.0500	WHEAT-GERM
24007GA22	0.0500	WHEAT-GERM
24007HA10	0.0500	WHEAT-BRAN
24007HA21	0.0500	WHEAT-BRAN
24007HA22	0.0500	WHEAT-BRAN
24007WA10	0.0500	WHEAT-FLOUR
24007WA21	0.0500	WHEAT-FLOUR
24007WA22	0.0500	WHEAT-FLOUR
24007MA21	0.0500	WHEAT-FLOUR
24007MA22	0.0500	WHEAT-FLOUR
24007MA25	0.0500	WHEAT-FLOUR
25002SA21	0.0500	WHEAT-FLOUR
25002SA22	0.0500	WHEAT-FLOUR
25002SA23	0.0500	WHEAT-FLOUR
25001IAA00	0.0500	GUAR BEANS
270020A18	0.0500	CORN GRAIN-OIL
270030A18	0.0500	COTTONSEED-OIL
27003WA18	0.0500	COTTONSEED-HEAL
270070A18	0.0500	PEANUTS-OIL
270080A00	0.0500	SAFFLOWER-SEED
270080A18	0.0500	SAFFLOWER-OIL
270090A18	0.0500	SESAME-OIL
270100A18	0.0500	SOYBEANS-OIL
270110A18	0.0500	SOYBEANS-OIL
27017AA00	0.0500	RAPE SEED
28023AA21	0.0500	SOYBEANS-UNSPEC
28023AB10	0.0500	SOYBEANS-DRY
28023AB21	0.0500	SOYBEANS-DRY
28023AB25	0.0500	SOYBEANS-DRY
28023AB23	0.0500	SOYBEANS-DRY
28023AB31	0.0500	SOYBEANS-DRY
28023WA21	0.0500	SOY-FL, FULL FAT
28023WA22	0.0500	SOY-FL, FULL FAT
28023WA31	0.0500	SOY-FL, FULL FAT
28023WB21	0.0500	SOY-FL, LOW FAT
28023WC10	0.0500	SOY-FL, DEFAT
28023WC21	0.0500	SOY-FL, DEFAT
28023WC22	0.0500	SOY-FL, DEFAT
28023WC51	0.0500	SOY-FL, DEFAT
28023WC53	0.0500	SOY-FL, DEFAT
43058AA10	1.5000	WINE AND SHERRY
43058AA21	1.5000	WINE AND SHERRY
50000DB10	0.1000	MILK-NON-FAT SOL
50000DB21	0.1000	MILK-NON-FAT SOL
50000DB51	0.1000	MILK-NON-FAT SOL
50000FA10	0.1000	MILK-FAT SOLIDS
50000FA21	0.1000	MILK-FAT SOLIDS
50000FA51	0.1000	MILK-FAT SOLIDS
50000SA21	0.1000	MILK SUG (LACT)
50000SA51	0.1000	MILK SUG (LACT)
53001BA21	0.3000	BEEF-MEAT BYP
53001BA26	0.3000	BEEF-MEAT BYP
53001BB21	0.3000	BEEF-OTH ORGAN
53001BB51	0.3000	BEEF-OTH ORGAN
53001DA21	0.2000	BEEF-DRIED
53001FA10	0.1500	BEEF-FAT
53001FA21	0.1500	BEEF-FAT
53001FA22	0.1500	BEEF-FAT
53001FA23	0.1500	BEEF-FAT
53001FA24	0.1500	BEEF-FAT
53001FA25	0.1500	BEEF-FAT
53001KA21	0.3000	BEEF-KIDNEY
53001LA25	0.3000	BEEF-LIVER
53001LA31	0.3000	BEEF-LIVER
53001MA10	0.2000	BEEF-LEAN
53001MA21	0.2000	BEEF-LEAN
53001MA22	0.2000	BEEF-LEAN

53001MA23	0.2000	BEEF-LEAN
53001MA24	0.2000	BEEF-LEAN
53002BA00	0.3000	GOAT-MEAT BYP
53002BB00	0.3000	GOAT-OTH ORGAN
53002FA23	0.1500	GOAT-FAT
53002FA25	0.1500	GOAT-FAT
53002KA00	0.3000	GOAT-KIDNEY
53002LA00	0.3000	GOAT-LIVER
53002MA23	0.2000	GOAT-LEAN
53002MA25	0.2000	GOAT-LEAN
53003AA00	0.3000	HORSE
53005BA21	0.3000	SHEEP-MEAT BYP
53005BB21	0.3000	SHEEP-OTH ORGAN
53005FA21	0.1500	SHEEP-FAT
53005KA21	0.3000	SHEEP-KIDNEY
53005LA00	0.3000	SHEEP-LIVER
53005MA21	0.2000	SHEEP-LEAN
53005MA31	0.2000	SHEEP-LEAN
53006BA21	0.3000	PORK-MEAT BYP
53006BB21	0.3000	PORK-OTH ORGAN
53006BB26	0.3000	PORK-OTH ORGAN
53006FA10	0.1500	PORK-FAT
53006FA21	0.1500	PORK-FAT
53006FA23	0.1500	PORK-FAT
53006FA25	0.1500	PORK-FAT
53006FA26	0.1500	PORK-FAT
53006KA21	0.3000	PORK-KIDNEY
53006LA21	0.3000	PORK-LIVER
53006LA25	0.3000	PORK-LIVER
53006MA21	0.2000	PORK-LEAN
53006MA25	0.2000	PORK-LEAN
53006MA26	0.2000	PORK-LEAN

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL = 12,500 mg/kg 250.00 ppm LEL = 25,000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. r/d based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF --->100 OPP RfD = 0.130000 EPA RfD = 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

POPULATION SUBGROUP	TOTAL THRC (MG/KG BODY WEIGHT/DAY)		NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES ARC	XRD
	CURRENT THRC*	NEW THRC**				
U.S. POPULATION - 48 STATES	0.023350	0.035580	27.369889	9.407670	0.000947	0.72811
U.S. POPULATION - SPRING SEASON	0.020689	0.032636	25.104903	9.190568	0.000913	0.70232
U.S. POPULATION - SUMMER SEASON	0.019071	0.035309	27.160935	12.490597	0.000960	0.73869
U.S. POPULATION - FALL SEASON	0.027121	0.037750	29.038835	8.176164	0.000954	0.73349
U.S. POPULATION - WINTER SEASON	0.026279	0.036391	27.992961	7.778037	0.000930	0.71566
NORTHEAST REGION	0.0299043	0.042628	32.791118	10.450420	0.001092	0.84038
NORTH CENTRAL REGION	0.022054	0.034694	26.687765	9.723325	0.000946	0.72743
SOUTHERN REGION	0.016701	0.025723	19.787067	6.939963	0.000675	0.51953
WESTERN REGION	0.028783	0.044143	33.956398	11.815969	0.001181	0.90871
HISPANICS	0.023682	0.036080	27.753999	9.536978	0.000879	0.67648
NON-HISPANIC WHITES	0.024628	0.037320	28.707600	9.762808	0.000992	0.76316
NON-HISPANIC BLACKS	0.014182	0.023494	18.072256	7.162952	0.000636	0.48955
NON-HISPANIC OTHERS	0.025870	0.036722	28.247692	8.347625	0.000851	0.65450
NURSING INFANTS (< 1 YEAR OLD)	0.152627	0.180036	138.489143	21.083582	0.002457	1.89038
NON-NURSING INFANTS (< 1 YEAR OLD)	0.198106	0.260507	200.390332	48.001304	0.004288	3.29825
FEMALES (13+ YEARS, PREGNANT)	0.015216	0.024357	18.736480	7.032132	0.000707	0.54393
FEMALES 13+ YEARS, NURSING	0.022964	0.035316	27.166025	9.501715	0.001038	0.79878
CHILDREN (1-6 YEARS OLD)	0.064400	0.098625	75.865278	26.326903	0.002371	1.82369
CHILDREN (7-12 YEARS OLD)	0.029912	0.049149	37.806608	14.797310	0.001320	1.01530
MALES (13-19 YEARS OLD)	0.014280	0.022682	17.447485	6.462817	0.000624	0.48036
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.014038	0.022445	17.265710	6.467559	0.000613	0.47115
MALES (20 YEARS AND OLDER)	0.013919	0.020900	16.077191	5.369998	0.000641	0.49318
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.014902	0.023126	17.789309	6.325913	0.000690	0.53039

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



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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185,500	3gen reprod- fat NOEL= 12,500 mg/kg 250.00 ppm LEL= 25,000 mg/kg 500.00 ppm ONCO: B2 (HEB/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI Uf -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HEB reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAY)	%RFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
13016AA	FENNEL 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000011	0.000	0.000000000001	0.01000	0.000002	0.000	0.00000000
15015AA	OKRA 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.050	N 0.000732	0.001	0.00000000089	0.01000	0.000136	0.000	0.00000000
15018AA	SUNFLOWER-SEEDS 10 RAW-FRESH OR NFS	0.050	N 0.000087	0.000	0.00000000011	0.01000	0.000010	0.000	0.00000000
15021AA	ALFALFA SPROUTS 10 RAW-FRESH OR NFS	0.050	N 0.000007	0.000	0.00000000001	0.01000	0.000001	0.000	0.00000000
15026AA	SESAME SEEDS 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED	0.050	N 0.000022	0.000	0.00000000003	0.01000	0.000002	0.000	0.00000000
26011AA	GUAR BEANS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.00000000000	0.00900	0.000000	0.000	0.00000000
270030A	COTTONSEED-OIL 18 PROCESSED OIL	0.050	N 0.001020	0.001	0.00000000123	0.00500	0.000102	0.000	0.00000000
27003AA	COTTONSEED-MEAL 18 PROCESSED OIL	0.050	N 0.000006	0.000	0.00000000001	0.00500	0.000001	0.000	0.00000000
27004AA	FLAX SEED 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.00000000000	0.01000	0.000000	0.000	0.00000000
27008AA	SAFFLOWER-SEED 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.00000000000	0.01000	0.000000	0.000	0.00000000
270080A	SAFFLOWER-OIL 18 PROCESSED OIL	0.050	N 0.000078	0.000	0.00000000009	0.01000	0.000016	0.000	0.00000000
270090A	SESAME-OIL 18 PROCESSED OIL	0.050	N 0.000001	0.000	0.00000000000	0.01000	0.000000	0.000	0.00000000
270110A	SUNFLOWER-OIL 18 PROCESSED OIL	0.050	N 0.000124	0.000	0.00000000015	0.00050	0.000001	0.000	0.00000000
27017AA	RAPE SEED 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.00000000000	0.01000	0.000000	0.000	0.00000000
43058AA	WINE AND SHERRY 10 RAW-FRESH OR NFS 21 COOKED-NFS	25.000	N 2.104890	1.619	0.00000254692	0.24000	0.019967	0.015	0.00000000

CROP GROUP TOTALS FOR UNSPECIFIED: 2.106978 1.621 0.00000254944 0.020081 0.016 0.00000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL = 12.5000 mg/kg 250.00 ppm LEI = 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF --> 100 GPP RfD = 0.130000 EPA RfD = 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/85 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION 1/48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
14001AA	BETS-ROOTS 10 RAW-FRESH OR NFS	0.050	N 0.001081	0.001	0.000000000131	0.01000	0.000000	0.000	0.00000000
	21 COOKED-NFS					0.01000	0.000158	0.000	0.00000000
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.01000	0.000032	0.000	0.00000000
	31 COOKED-FRESH OR CANNED					0.01000	0.000025	0.000	0.00000000
14003AA	CARROTS 10 RAW-FRESH OR NFS	0.050	N 0.008674	0.007	0.00000001050	0.01000	0.000401	0.000	0.00000000
	21 COOKED-NFS					0.01000	0.000508	0.000	0.00000000
	23 COOKED-FRESH-BOILED					0.01000	0.000091	0.000	0.00000000
	31 COOKED-FRESH OR CANNED					0.01000	0.000332	0.000	0.00000000
	51 COOKED-CANNED					0.01000	0.000403	0.000	0.00000000
14006AA	TARO-ROOT 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.00000000
14009AA	ARTICHOKES-JERUSALEM 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N 0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.00000000
14013AA	POTATOES(WHITE)-WHOLE 10 RAW-FRESH OR NFS	0.050	N 0.017003	0.013	0.00000002057	0.00200	0.000091	0.000	0.00000000
	21 COOKED-NFS					0.00200	0.000300	0.000	0.00000000
	22 COOKED-FRESH-BAKED					0.00200	0.000289	0.000	0.00000000
14013AB	POTATOES(WHITE)-UNSPECIFIED 22 COOKED-FRESH-BAKED	0.050	N 0.000004	0.000	0.000000000000	0.00200	0.000000	0.000	0.00000000
14013AC	POTATOES(WHITE)-PEELED 21 COOKED-NFS	0.050	N 0.039213	0.030	0.00000004745	0.00200	0.000144	0.000	0.00000000
	22 COOKED-FRESH-BAKED					0.00200	0.000085	0.000	0.00000000
	23 COOKED-FRESH-BOILED					0.00200	0.000867	0.001	0.00000000
	25 COOKED-FRESH-FRIED					0.00200	0.000472	0.000	0.00000000
14013DA	POTATOES(WHITE)-DRY 10 RAW-FRESH OR NFS	0.050	N 0.000065	0.000	0.000000000008	0.00200	0.000001	0.000	0.00000000
	31 COOKED-FRESH OR CANNED					0.00200	0.000001	0.000	0.00000000
14013HA	POTATOES(WHITE)-PEEL ONLY 22 COOKED-FRESH-BAKED	0.050	N 0.000001	0.000	0.000000000000	0.00200	0.000000	0.000	0.00000000
14014AA	RADISHES-ROOTS 10 RAW-FRESH OR NFS	0.050	N 0.000078	0.000	0.000000000009	0.01000	0.000016	0.000	0.00000000
14015AA	RUTABAGAS-ROOTS 10 RAW-FRESH OR NFS	0.050	N 0.000140	0.000	0.000000000017	0.01000	0.000000	0.000	0.00000000
14016AA	SALSIFY(OYSTER PLANT) 21 COOKED-NFS	0.050	N 0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.00000000
14018AA	SHEETPOTATOES (INCLUDING YAMS) 21 COOKED-NFS	0.050	N 0.001942	0.001	0.000000000235	0.01000	0.000321	0.000	0.00000000
	31 COOKED-FRESH OR CANNED					0.01000	0.000045	0.000	0.00000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,500 mg/kg 250.00 ppm LEL= 25,000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 O*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAY)	YRFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	YRFD	ARC ONCO RISK
14019AA	51 COOKED-CANNED TURNIPS-ROOTS	0.050	0.000412	0.000	0.000000000050	0.01000	0.000023	0.000	0.0000000
	10 RAW-FRESH OR NFS					0.01000	0.000005	0.000	0.0000000
	21 COOKED-NFS					0.01000	0.000077	0.000	0.0000000
14021AA	PARSNIPS	0.050	0.000035	0.000	0.000000000004	0.01000	0.000007	0.000	0.0000000
	21 COOKED-NFS					0.01000	0.000000	0.000	0.0000000
14024AA	YAMBEAN, TUBER	0.050	0.000002	0.000	0.000000000000	0.01000	0.000000	0.000	0.0000000
	10 RAW-FRESH OR NFS					0.01000	0.000000	0.000	0.0000000
14026AA	CASSAVA (YUCA BLANCA)	0.050	0.000010	0.000	0.000000000001	0.01000	0.000000	0.000	0.0000000
	21 COOKED-NFS					0.01000	0.000002	0.000	0.0000000
	23 COOKED-FRESH-BOILED					0.01000	0.000000	0.000	0.0000000
14030AA	PARSLEY ROOTS	0.050	0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.0000000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.01000	0.000361	0.000	0.0000000
25022SA	BET SUGAR	0.050	0.016606	0.013	0.00000002009	0.01000	0.000857	0.001	0.0000000
	10 RAW-FRESH OR NFS					0.01000	0.000562	0.000	0.0000000
	21 COOKED-NFS					0.01000	0.001521	0.001	0.0000000
	22 COOKED-FRESH-BAKED					0.01000	0.001521	0.001	0.0000000
	31 COOKED-FRESH OR CANNED					0.01000	0.001521	0.001	0.0000000
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:									
			0.085266	0.066	0.00000010317		0.006045	0.006	0.0000000
13001AA	BETS-TOPS(GREENS)	0.050	0.000041	0.000	0.000000000005	0.01000	0.000007	0.000	0.0000000
	31 COOKED-FRESH OR CANNED					0.01000	0.000002	0.000	0.0000000
	63 COOKED-FRESH OR FROZEN-BOILED					0.01000	0.000000	0.000	0.0000000
13026AA	TURNIPS-TOPS	0.050	0.000736	0.001	0.000000000069	0.01000	0.000044	0.000	0.0000000
	10 RAW-FRESH OR NFS					0.01000	0.000035	0.000	0.0000000
	21 COOKED-NFS					0.01000	0.000068	0.000	0.0000000
	31 COOKED-FRESH OR CANNED					0.01000	0.000000	0.000	0.0000000
14014AB	RADISHES-TOPS	0.050	0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.0000000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.01000	0.000000	0.000	0.0000000
14015AB	RUTABAGAS-TOPS	0.050	0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.0000000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.01000	0.000000	0.000	0.0000000
CROP GROUP TOTALS FOR LEAVES OF ROOT AND TUBER VEG.:									
			0.000777	0.001	0.000000000094		0.000156	0.000	0.0000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HED revised 12/22/85 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION 148 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAY)	%RFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
14007AA	GARLIC 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	0.000038	0.000	0.00000000000005	0.01000	0.000000	0.000	0.000000000
14010AA	LEEKS 31 COOKED-FRESH OR CANNED 32 COOKED-FRESH OR CANNED-BAKED	0.050	0.000002	0.000	0.00000000000000	0.01000	0.000000	0.000	0.000000000
14011AA	ONIONS-DRY-BULB (CIPOLLINI) 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	0.005303	0.004	0.000000000642	0.01000	0.000185	0.000	0.000000000
14011DA	ONIONS-DEHYDRATED OR DRIED 31 COOKED-FRESH OR CANNED 12 RAW-FRESH-DRIED	0.050	0.000006	0.000	0.000000000001	0.01000	0.000011	0.000	0.000000000
14017AA	SHALLOTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	0.000015	0.000	0.000000000002	0.01000	0.000003	0.000	0.000000000
16004AA	ONIONS-GREEN 10 RAW-FRESH OR NFS 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.050	0.000098	0.000	0.000000000012	0.00050	0.000001	0.000	0.000000000
CROP GROUP TOTALS FOR BULB VEGETABLES:									
			0.005462	0.004	0.000000000661		0.001983	0.001	0.0000000001
13002AA	CELERY 10 RAW-FRESH OR NFS	0.050	0.003048	0.002	0.000000000369	0.00050	0.000024	0.000	0.000000000
13003AA	CHICORY (FRENCH OR BELGIAN ENDIVE) 21 COOKED-NFS	0.050	0.000034	0.000	0.000000000004	0.00050	0.000007	0.000	0.000000000
13013AA	LETTUCE-LEAFY VARIETIES 10 RAW-FRESH OR NFS	0.050	0.000222	0.000	0.000000000027	0.01000	0.000007	0.000	0.000000000
13014AA	DANDELION 63 COOKED-FRESH OR FROZEN-BOILED	0.050	0.000025	0.000	0.000000000003	0.00050	0.000002	0.000	0.000000000
13015AA	ENDIVE,CURLEY AND ESCAROLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	0.000059	0.000	0.000000000007	0.01000	0.000005	0.000	0.000000000
13017AA	CRESS,GARDEN,FIELD 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.000000000
13020AA	LETTUCE-UNSPECIFIED 10 RAW-FRESH OR NFS	0.050	0.000460	0.000	0.000000000056	0.01000	0.000005	0.000	0.000000000
13022AA	PARSLEY 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	0.000183	0.000	0.000000000022	0.01000	0.000012	0.000	0.000000000



TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/07/97

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Cashwell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. Rfd based on results of 1-gen. and 3-gen. repro-duction studies. Evidence of carcinogenicity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 g*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 148 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	THRC (UG/KG/DAY)	%RFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
13021AA	MUSTARD GREENS 21 COOKED-NFS 63 COOKED-FRESH OR FROZEN-BOILED	0.050	N	0.000726	0.001	0.000000000088	0.01000 0.01000	0.000003 0.000143	0.000 0.000	0.000000000 0.000000000
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAF VEGETABLES:										
				0.010246	0.008	0.00000001240		0.002046	0.002	0.000000002
15001AA	BEANS-DRY-GREAT NORTHERN 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N	0.000000	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000
15001AB	BEANS-DRY-KIDNEY 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.050	N	0.000682	0.001	0.000000000083	0.00900 0.00900	0.000106 0.000016	0.000 0.000	0.000000000 0.000000000
15001AC	BEANS-DRY-LIMA 21 COOKED-NFS	0.050	N	0.000399	0.000	0.000000000048	0.00900	0.000072	0.000	0.000000000
15001AD	BEANS-DRY-NAVY (PEA) 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.050	N	0.001870	0.001	0.000000000226	0.00900 0.00900	0.000080 0.000257	0.000 0.000	0.000000000 0.000000000
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.050	N	0.001991	0.002	0.000000000241	0.00900 0.00900 0.00900	0.000157 0.000056 0.000144	0.000 0.000 0.000	0.000000000 0.000000000 0.000000000
15001AF	BEANS-DRY-PINTO 21 COOKED-NFS	0.050	N	0.001817	0.001	0.000000000220	0.00900	0.000327	0.000	0.000000000
15002AA	BEANS-SUCCULENT-LIMA 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.001283	0.001	0.000000000155	0.00900 0.00900	0.000000 0.000231	0.000 0.000	0.000000000 0.000000000
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS	0.050	N	0.010003	0.008	0.000000001210	0.00900	0.001800	0.001	0.000000000
15003AB	BEANS-SUCCULENT-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.001319	0.001	0.000000000160	0.00900 0.00900	0.000000 0.000237	0.000 0.000	0.000000000 0.000000000
15003AC	BEANS-SUCCULENT-YELLOW,MAX 21 COOKED-NFS	0.050	N	0.000273	0.000	0.000000000033	0.00900	0.000049	0.000	0.000000000
15006AA	PEANUTS-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.050	N	0.003479	0.003	0.000000000421	0.00700 0.00700	0.000007 0.000450	0.000 0.000	0.000000000 0.000000000
15007AA	PEAS(GARDEN)-MATURE SEEDS, DRY 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.050	N	0.000088	0.000	0.000000000011	0.01000 0.01000	0.000008 0.000010	0.000 0.000	0.000000000 0.000000000
15009AA	PEAS(GARDEN)-GREEN IMMATURE 21 COOKED-NFS	0.050	N	0.008600	0.007	0.000000001041	0.01000	0.001544	0.001	0.000000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	THRC (UG/KG/DAY)	XFED	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	XFED	ARC ONCO RISK
15011AA	31 COOKED-FRESH OR CANNED LENTILS-WHOLE	0.050	N	0.000060	0.000	0.000000000007	0.01000	0.000176	0.000	0.000000000000
15011AB	31 COOKED-FRESH OR CANNED LENTILS-SPLIT	0.050	N	0.000000	0.000	0.000000000000	0.01000	0.000012	0.000	0.000000000000
15013AA	21 COOKED-NFS MUNG BEANS (SPROUTS)	0.050	N	0.000333	0.000	0.000000000040	0.01000	0.000000	0.000	0.000000000000
15022AA	21 COOKED-NFS BEANS-DRY-BROADBEANS(MATURE SEED)	0.050	N	0.000000	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000000
15022AB	00 NOT SPECIFIED (NO CONSUMPTION) BEANS-SUCCULENT-BROADBEANS(TIMMAT. SEED)	0.050	N	0.000000	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000000
15023AA	00 NOT SPECIFIED (NO CONSUMPTION) BEANS-DRY-PIGEON BEANS	0.050	N	0.000002	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000000
15027AA	21 COOKED-NFS BEANS-UNSPECIFIED	0.050	N	0.000262	0.000	0.000000000032	0.00900	0.000047	0.000	0.000000000000
15029AA	21 COOKED-NFS SOYBEANS-SPROUTED SEEDS	0.050	N	0.000000	0.000	0.000000000000	0.00050	0.000000	0.000	0.000000000000
15030AA	00 NOT SPECIFIED (NO CONSUMPTION) BEANS-DRY-HYACINTH(MATURE SEEDS)	0.050	N	0.000000	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000000
15030AB	00 NOT SPECIFIED (NO CONSUMPTION) BEANS-SUCCULENT-HYACINTH(YOUNG PODS)	0.050	N	0.000000	0.000	0.000000000000	0.00900	0.000000	0.000	0.000000000000
15031AA	00 NOT SPECIFIED (NO CONSUMPTION) BEANS-DRY-BLACKEYE PEAS(COMPEAS)	0.050	N	0.000124	0.000	0.000000000015	0.00900	0.000000	0.000	0.000000000000
15032AA	21 COOKED-NFS BEANS-DRY-GARBANZO(CHICK PEA)	0.050	N	0.000026	0.000	0.000000000003	0.00900	0.000022	0.000	0.000000000000
270070A	21 COOKED-NFS PEANUTS-OIL	0.050	N	0.000261	0.000	0.000000000032	0.00900	0.000037	0.000	0.000000000000
270100A	18 PROCESSED OIL SOYBEANS-OIL	0.050	N	0.016108	0.012	0.00000001949	0.00050	0.000161	0.000	0.000000000000
28023AA	18 PROCESSED OIL SOYBEANS-UNSPECIFIED	0.050	N	0.000026	0.000	0.000000000003	0.00050	0.000000	0.000	0.000000000000
28023AB	21 COOKED-NFS SOYBEANS-MATURE,SEEDS DRY	0.050	N	0.000045	0.000	0.000000000005	0.00050	0.000000	0.000	0.000000000000
28023AA	10 RAW-FRESH OR NFS						0.00050	0.000000	0.000	0.000000000000
28023AA	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000000
28023AA	23 COOKED-FRESH-BOILED						0.00050	0.000000	0.000	0.000000000000
28023AA	25 COOKED-FRESH-FRIED						0.00050	0.000000	0.000	0.000000000000
28023AA	31 COOKED-FRESH OR CANNED SOYBEANS-FLOUR, FULL FAT	0.050	N	0.000146	0.000	0.000000000018	0.00050	0.000000	0.000	0.000000000000
28023AA	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/07/97

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE (UG/G/DAY)	TRMC	XRED	TRMC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	XRFD	ARC ONCO RISK
CROP GROUP TOTALS FOR LEGUME VEGETABLES:										
11001AA	EGGPLANT	0.050	N	0.000309	0.000	0.0000000000037	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000003	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
11003AA	PEPPERS, SWEET, GARDEN	0.050	N	0.001078	0.001	0.00000000130	0.00050	0.000003	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000007	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
11003AB	CHILL PEPPERS	0.050	N	0.000205	0.000	0.00000000025	0.00050	0.000002	0.000	0.000000000
	00 NOT SPECIFIED (NO CONSUMPTION)						0.00050	0.000000	0.000	0.000000000
11003AD	PEPPERS-OTHER	0.050	N	0.000218	0.000	0.00000000026	0.00050	0.000002	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000000	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
11004AA	PIMIENTOS	0.050	N	0.000097	0.000	0.00000000012	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000000	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
11005AA	TOMATOES-WHOLE	0.050	N	0.024601	0.019	0.00000002977	0.00050	0.000126	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000097	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000024	0.000	0.000000000
11005JA	TOMATOES-JUICE	0.050	N	0.002757	0.002	0.000000000334	0.00050	0.000001	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000027	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
11005RA	TOMATOES-PUREE	0.050	N	0.008512	0.007	0.00000001030	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS						0.00050	0.000000	0.000	0.000000000
	21 COOKED-NFS						0.00050	0.000000	0.000	0.000000000
	31 COOKED-FRESH OR CANNED						0.00050	0.000000	0.000	0.000000000





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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEI= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEB/SAP)	Decreased pup body wts. RD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF --S100 OPP RfD= 0.130000 EPA RfD= 0.130000 qb: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 148 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC	TYPE (UG/KG/DAY)	XRFD	THRC	ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	XRFD	ARC	ONCO RISK
10020AA	TOMEGOURD 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N	0.000000	0.000	0.000000000000000	0.01000	0.000000	0.00000	0.000	0.000000000	0.000000000
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITTS):												
				0.014033	0.011	0.00000001698	0.01000	0.001475	0.001	0.001	0.000000000	0.000000000

04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	25.000	P	11.418225	8.783	0.00001361605	0.06000	0.018647	0.014	0.014	0.000000002	0.000000000
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	25.000	P	5.541225	4.262	0.00000670488	0.50000	0.000019	0.000	0.000	0.000000000	0.000000000
04003AA	PEARS-FRESH 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED 62 COOKED-FRESH OR FROZEN-BAKED	25.000	P	3.061837	2.355	0.00000370482	0.06200	0.003266	0.003	0.003	0.000000000	0.000000000
04003DA	PEARS-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	25.000	P	0.005225	0.004	0.000000006532	0.28000	0.000012	0.000	0.000	0.000000000	0.000000000
CROP GROUP TOTALS FOR POME FRUITS:												
				20.067792	15.437	0.00002428203	0.23000	0.001314	0.001	0.001	0.000000000	0.000000000

05001AA	APRICOTS-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	10.000	N	0.356893	0.259	0.00000040764	0.23000	0.001314	0.001	0.001	0.000000000	0.000000000
05001DA	APRICOTS-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED	10.000	N	0.024240	0.019	0.00000002933	0.23000	0.004645	0.004	0.004	0.000000000	0.000000000
05002AA	CHEERRIES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	50.000	N	1.608770	1.238	0.00000194661	0.05600	0.000413	0.000	0.000	0.000000000	0.000000000
05002DA	CHEERRIES-DRIED 00 NOT SPECIFIED (NO CONSUMPTION)	50.000	N	0.000200	0.000	0.000000000024	0.05600	0.000439	0.001	0.001	0.000000000	0.000000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- Rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3/gen. reproduction studies. Evidence of carcinogenicity in rats and mice.	ADI UF --S100 OPP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAV)	XRFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAV)	XRFD	ARC ONCO RISK
05002JA	CHERRIES-JUICE 15 RAW-FRESH OR CANNED 21 COOKED-NFS	50.000	0.255600	0.197	0.000000309228	0.08400	0.000263	0.000	0.00000000
05003AA	NECTARINES 10 RAW-FRESH OR NFS 21 COOKED-NFS	25.000	0.324155	0.249	0.000000392223	0.08400	0.000024	0.000	0.00000000
05004AA	PEACHES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED	15.000	3.230874	2.485	0.000000390936	0.01600	0.000207	0.000	0.00000000
05004DA	PEACHES-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	15.000	0.005208	0.004	0.000000006330	1.10000	0.000029	0.000	0.00000000
05005AA	PLUMS(DANSONS)-FRESH 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	10.000	0.248626	0.191	0.000000330084	0.04400	0.000819	0.001	0.00000000
05005DA	PLUMS-PRUNES(DRIED) 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	10.000	0.058071	0.045	0.00000007027	0.04400	0.000275	0.000	0.00000000
05005JA	PLUMS,PRUNE-JUICE 10 RAW-FRESH OR NFS 62 COOKED-FRESH OR FROZEN-BAKED	10.000	0.192567	0.148	0.00000023301	0.01000	0.000006	0.000	0.00000000
CROP GROUP TOTALS FOR STONE FRUITS:			6.285204	4.835	0.00000760510	0.06200	0.000851	0.001	0.00000000
01002AA	BLACKBERRIES 10 RAW-FRESH OR NFS 21 COOKED-NFS	25.000	0.160670	0.124	0.00000019441	0.24000	0.000191	0.000	0.00000000
01003AA	BOYSENBERRIES 10 RAW-FRESH OR NFS 62 COOKED-FRESH OR FROZEN-BAKED	25.000	0.018283	0.014	0.00000002212	0.24000	0.000688	0.001	0.00000000
01004AA	DEWBERRIES 00 NOT SPECIFIED (NO CONSUMPTION)	25.000	0.058575	0.045	0.00000007088	0.24000	0.000688	0.001	0.00000000
01006AA	RASPBERRIES 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED 70 RAW-FROZEN	25.000	0.071652	0.055	0.00000008670	0.55000	0.001289	0.001	0.00000000
01009AA	BLUEBERRIES 10 RAW-FRESH OR NFS	40.000	0.361896	0.278	0.00000043789	0.55000	0.000146	0.000	0.00000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm ONCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000 g*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 ON IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 148 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAY)	ZRFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	ZRFD	ARC ONCO RISK
01014AA	21 COOKED-NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	N	1.094828	0.842	0.00000132474	0.11000 0.11000 0.11000	0.000119 0.000054 0.000233	0.000 0.000 0.000	0.000000000 0.000000000 0.000000000
01014DA	10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	N	0.424325	0.326	0.00000051343	0.24000 0.24000 0.24000	0.005422 0.000193 0.004495	0.004 0.000 0.003	0.000000007 0.000000000 0.000000005
01014JA	10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 21 COOKED-NFS 22 COOKED-FRESH-BAKED	N	2.252400	1.733	0.00000272540	0.24000 0.24000 0.24000	0.002454 0.000231 0.001389	0.002 0.000 0.001	0.000000002 0.000000000 0.000000001
01015AA	00 NOT SPECIFIED (NO CONSUMPTION) 21 COOKED-NFS	N	0.000040	0.000	0.000000000005	0.11000	0.000000	0.000	0.000000000
01016AA	10 RAW-FRESH OR NFS 21 COOKED-NFS 70 RAW-FROZEN	P	0.867723	0.667	0.00000104994	0.70000 0.70000 0.70000	0.016943 0.003480 0.003874	0.013 0.003 0.003	0.000000020 0.000000004 0.000000004
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:									
15004AA	CORN, POP 21 COOKED-NFS	N	0.000339	0.000	0.000000000041	0.00050	0.000003	0.000	0.000000000
15005AA	CORN, SWEET 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	N	0.011835	0.009	0.00000001432	0.00050 0.00050 0.00050	0.000000 0.000100 0.000019	0.000 0.000 0.000	0.000000000 0.000000000 0.000000000
24001AA	BARLEY 21 COOKED-NFS	N	0.002865	0.002	0.00000000347	0.00050	0.000029	0.000	0.000000000
24002EA	CORN, GRAIN-ENDOSPERM 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	N	0.008270	0.006	0.00000001001	0.01000 0.01000 0.01000	0.000006 0.000218 0.001229	0.000 0.000 0.001	0.000000000 0.000000000 0.000000001
24002HA	CORN, GRAIN-BRAN 00 NOT SPECIFIED (NO CONSUMPTION)	N	0.000000	0.000	0.000000000000	0.01000	0.000000	0.000	0.000000000
24002SA	CORN SUGAR 10 RAW-FRESH OR NFS	N	0.004858	0.004	0.00000000588	0.01000	0.000038	0.000	0.000000000

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm	Decreased pup body wts. RfD based on results of 1-gen. and 3/gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OPP RfD= 0.130000 EPA RfD= 0.130000	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC (UG/KG/DAV)	XRFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAV)	XRFD	ARC ONCO RISK
24003AA	OATS	0.050	0.004129	0.003	0.00000000500	0.01000	0.000843	0.001	0.000000001
	21 COOKED-NFS					0.01000	0.000091	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000004	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000019	0.000	0.000000000
	23 COOKED-FRESH-BOILED					0.00050	0.000018	0.000	0.000000000
24005AA	RYE-ROUGH	0.050	0.000000	0.000	0.00000000000	0.00050	0.000000	0.000	0.000000000
	00 NOT SPECIFIED (NO CONSUMPTION)								
24005GA	RYE-GERM	0.050	0.000014	0.000	0.000000000002	0.00050	0.000000	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000002	0.000	0.000000000
24005HA	RYE-FLOUR	0.050	0.000201	0.000	0.000000000024	0.00050	0.000000	0.000	0.000000000
	21 COOKED-NFS					0.00050	0.000004	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000043	0.000	0.000000000
24006AA	SORGHUM (INCLUDING MILLO)	0.050	0.001188	0.001	0.000000000144	0.01000	0.000238	0.000	0.000000000
	00 NOT SPECIFIED (NO CONSUMPTION)								
24007AA	WHEAT-ROUGH	0.050	0.007031	0.005	0.000000000851	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS					0.00050	0.000004	0.000	0.000000000
	21 COOKED-NFS					0.00050	0.000043	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000023	0.000	0.000000000
	23 COOKED-FRESH-BOILED								
24007GA	WHEAT-GERM	0.050	0.000040	0.000	0.000000000005	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS					0.00050	0.000000	0.000	0.000000000
	22 COOKED-FRESH-BAKED								
24007NA	WHEAT-BRAN	0.050	0.000608	0.000	0.000000000074	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS					0.00050	0.000000	0.000	0.000000000
	21 COOKED-NFS					0.00050	0.000006	0.000	0.000000000
	22 COOKED-FRESH-BAKED								
24007NA	WHEAT-FLOUR	0.050	0.062862	0.048	0.000000007606	0.00050	0.000000	0.000	0.000000000
	10 RAW-FRESH OR NFS					0.00050	0.000351	0.000	0.000000000
	21 COOKED-NFS					0.00050	0.000231	0.000	0.000000000
	22 COOKED-FRESH-BAKED					0.00050	0.000047	0.000	0.000000000
270020A	CORN, GRAIN-OIL	0.050	0.001140	0.001	0.000000000138	0.01000	0.000228	0.000	0.000000000
	18 PROCESSED OIL								
CROP GROUP TOTALS FOR CEREAL GRAINS:			0.105380	0.081	0.00000012751		0.003391	0.003	0.000000004

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12,5000 mg/kg 250.00 ppm LEL= 25,0000 mg/kg 500.00 ppm ONCO: B2 (HEB/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 2-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 OGP RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 148 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
03001AA	ALMONDS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.250	N	0.000701	0.001	0.000000000085	0.00700 0.00700 0.00700	0.000009 0.000007 0.000004	0.000 0.000 0.000	0.0000000000 0.0000000000 0.0000000000
CROP GROUP TOTALS FOR TREE NUTS: 0.000701 0.001 0.000000000085 0.000020 0.000 0.0000000000										
08015AA	DILL 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N	0.000004	0.000	0.000000000000	0.01000	0.000001	0.000	0.0000000000
08022AA	HORSERADISH 11 RAW-FRESH-PICKLED, CORNED, OR CURED	0.050	N	0.000004	0.000	0.000000000000	0.01000	0.000001	0.000	0.0000000000
080480A	PAPRIKA 00 NOT SPECIFIED (NO CONSUMPTION)	0.050	N	0.000118	0.000	0.000000000014	0.00050	0.000001	0.000	0.0000000000
CROP GROUP TOTALS FOR HERBS AND SPICES: 0.000126 0.000 0.000000000015 0.000005 0.000 0.0000000000										
53001BA	BEEF-NEAT BYPRODUCTS 21 COOKED-NFS 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.300	N	0.005299	0.004	0.000000000041	0.00100 0.00100	0.000016 0.000001	0.000 0.000	0.0000000000 0.0000000000
53001BB	BEEF(ORGAN MEATS)-OTHER 21 COOKED-NFS 51 COOKED-CANNED	0.300	N	0.001810	0.001	0.000000000219	0.00100 0.00100	0.000005 0.000001	0.000 0.000	0.0000000000 0.0000000000
53001DA	BEEF-DRIED 21 COOKED-NFS BEEF(BONELESS)-FAT (BEEF TALLOW)	0.200	N	0.000507	0.000	0.000000000061	0.00100	0.000003	0.000	0.0000000000
53001FA	BEEF(ORGAN MEATS)-KIDNEY 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.150	N	0.055811	0.043	0.0000000006753	0.00100 0.00100 0.00100 0.00100 0.00100	0.000001 0.000148 0.000025 0.000033 0.000142	0.000 0.000 0.000 0.000 0.000	0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
53001KA	BEEF(ORGAN MEATS)-LIVER 21 COOKED-NFS 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.300	N	0.000144	0.000	0.000000000017	0.00100	0.000000	0.000	0.0000000000
53001LA	BEEF(ORGAN MEATS)-LIVER 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	0.300	N	0.006209	0.005	0.0000000000751	0.00100 0.00100	0.000020 0.000000	0.000 0.000	0.0000000000 0.0000000000
53001MA	BEEF(BONELESS)-LEAN (U/O REMOVABLE FAT) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED	0.200	N	0.232398	0.179	0.00000028120	0.00100 0.00100 0.00100	0.000000 0.000692 0.000048	0.000 0.001 0.000	0.0000000000 0.0000000000 0.0000000000

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Captain Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500		3gen reprod- rat NOEL= 12,5000 mg/kg LEL= 250.00 ppm 25,0000 mg/kg 500.00 ppm		Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.		ADI Uf -->100 OPP RfD= 0.130000 EPA RfD= 0.130000		No data gaps.		EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/93 On IRIS.	
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES											
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAV)	XRFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAV)	XRFD	ARC ONCO RISK		
53002BA	24 COOKED-FRESH-BROILED GOAT-MEAT BYPRODUCTS	0.300	0.000000	0.000	0.000000000000	0.00100	0.000349	0.000	0.0000000000		
53002BB	00 NOT SPECIFIED (NO CONSUMPTION) GOAT(ORGAN MEATS)-OTHER	0.300	0.000000	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53002FA	00 NOT SPECIFIED (NO CONSUMPTION) GOAT(BONELESS)-FAT	0.150	0.000006	0.000	0.000000000071	0.00100	0.000000	0.000	0.0000000000		
53002KA	25 COOKED-FRESH-FRIED GOAT(ORGAN MEATS)-KIDNEY	0.300	0.000000	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53002LA	00 NOT SPECIFIED (NO CONSUMPTION) GOAT(ORGAN MEATS)-LIVER	0.300	0.000000	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53002MA	00 NOT SPECIFIED (NO CONSUMPTION) GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.200	0.000038	0.000	0.000000000005	0.00100	0.000000	0.000	0.0000000000		
53003AA	25 COOKED-FRESH-FRIED HORSE	0.300	0.000000	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53005BA	00 NOT SPECIFIED (NO CONSUMPTION) SHEEP-MEAT BYPRODUCTS	0.300	0.000015	0.000	0.000000000002	0.00100	0.000000	0.000	0.0000000000		
53005BB	21 COOKED-NFS SHEEP(ORGAN MEATS)-OTHER	0.300	0.000006	0.000	0.000000000001	0.00100	0.000000	0.000	0.0000000000		
53005FA	21 COOKED-NFS SHEEP(BONELESS)-FAT	0.150	0.000644	0.000	0.000000000078	0.00100	0.000004	0.000	0.0000000000		
53005KA	21 COOKED-NFS SHEEP(ORGAN MEATS)-KIDNEY	0.300	0.000002	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53005LA	21 COOKED-NFS SHEEP(ORGAN MEATS)-LIVER	0.300	0.000000	0.000	0.000000000000	0.00100	0.000000	0.000	0.0000000000		
53005MA	00 NOT SPECIFIED (NO CONSUMPTION) SHEEP(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.200	0.002497	0.002	0.000000000302	0.00100	0.000012	0.000	0.0000000000		
53006BA	21 COOKED-NFS PORK-MEAT BYPRODUCTS	0.300	0.007524	0.006	0.000000000910	0.00100	0.000025	0.000	0.0000000000		
53006BB	21 COOKED-NFS PORK(ORGAN MEATS)-OTHER	0.300	0.001155	0.001	0.00000000140	0.00100	0.000004	0.000	0.0000000000		
53006FA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED PORK(BONELESS)-FAT (INCLUDING LARD)	0.150	0.031230	0.024	0.000000003779	0.00100	0.000002	0.000	0.0000000000		
	10 RAW-FRESH OR NFS					0.00100	0.000000	0.000	0.0000000000		
	21 COOKED-NFS					0.00100	0.000097	0.000	0.0000000000		
	23 COOKED-FRESH-BOILED					0.00100	0.000023	0.000	0.0000000000		
	25 COOKED-FRESH-FRIED					0.00100	0.000024	0.000	0.0000000000		
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.00100	0.000062	0.000	0.0000000000		

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 01/07/97

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Captan Caswell #159 CAS No. 133-06-2 A.I. CODE: 081301 CFR No. 180.103 185.500	3gen reprod- rat NOEL= 12.5000 mg/kg 250.00 ppm LEL= 25.0000 mg/kg 500.00 ppm OMCO: B2 (HED/SAP)	Decreased pup body wts. RfD based on results of 1-gen. and 3-gen. repro- duction studies. Evidence of carcinogenic- ity in rats and mice.	ADI UF -->100 Opp RfD= 0.130000 EPA RfD= 0.130000 q*: 0.00121	No data gaps.	EPA verified 03/26/86 HED reviewed 12/22/88 EPA verified 01/18/89 WHO reviewed 1990 RfD/PR reviewed 09/23/95 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPH)	THRC (UG/KG/DAY)	%RD	THRC OMCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RD	ARC OMCO RISK
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.300	0.000003	0.000	0.000000000000	0.00100	0.000000	0.000	0.000000000
	21 COOKED-NFS								
53006LA	PORK(ORGAN MEATS)-LIVER	0.300	0.001446	0.001	0.00000000175	0.00100	0.000004	0.000	0.000000000
	21 COOKED-NFS								
53006MA	PORK(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.200	0.078249	0.060	0.00000009468	0.00100	0.000182	0.000	0.000000000
	21 COOKED-NFS								
	25 COOKED-FRESH-FRIED								
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED								
CROP GROUP TOTALS FOR RED MEAT:			0.424993	0.327	0.00000051424		0.002231	0.002	0.000000000

500000B	MILK-NON-FAT SOLIDS	0.100	0.711286	0.547	0.00000086066	0.00100	0.005704	0.004	0.000000000
	10 RAW-FRESH OR NFS								
	21 COOKED-NFS								
	51 COOKED-CANNED								
50000FA	MILK-FAT SOLIDS	0.100	0.338361	0.260	0.00000040942	0.00100	0.002664	0.002	0.000000000
	10 RAW-FRESH OR NFS								
	21 COOKED-NFS								
	51 COOKED-CANNED								
50000SA	MILK SUGAR (LACTOSE)	0.100	0.003743	0.003	0.00000000453	0.00100	0.000000	0.000	0.000000000
	21 COOKED-NFS								
	51 COOKED-CANNED								
CROP GROUP TOTALS FOR DAIRY PRODUCTS:			1.053390	0.810	0.00000127460		0.010534	0.008	0.000000001

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

35.579556 27.369 0.00004305126

0.207262

0.159

0.000000251

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



Attachment 6: Distribution of Acute Exposure, MOE Calculation

\*\*\*\*\*  
 \*NAME: CAPTAN  
 \*CASSELL NO: 159 CFR NO: CFR180.103 STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.\*  
 \*CAS NO: 00133-06-2 SHAUGHNESSY NO: 081301 B C I  
 \*STATUS CODES: C I  
 \*RDV INFO: The LD value used in this analysis is 0.1 MG/KG of BODY WEIGHT/DAY  
 \*FILE INFO: No Tolerance Data Are Used--Without User Modifications.  
 \*AR DATA: No User Modifications\*  
 \*\*\*\*\*  
 FEMALES(13+ YRS)

ESTIMATES BASED ON	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
TOLERANCES:	0.00	0.000000	0.00
ANTICIPATED RESIDUES:	99.86	0.016833	16.83
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=	0	.2	.4
	1	.6	.8
	2	1.2	1.4
	3	1.6	1.8
	4	2.0	2.4
	5	2.5	3.0
	10	5.0	6.0
	15	7.5	9.0
	20	10.0	12.0

Exposure = RDV x X = 2.0 x 0.1 = 0.2 mg/kg/day  
 MOE = NOEL / Exposure = 10 mg/kg/day / 0.2 mg/kg/day = 50