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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SEP 13 1996

MEMORANDUM

SUBJECT: Addendum to Dietary Risk Assessment for the Chlorpyrifos Reregistration Eligibility Document

FROM: Stephen A. Schaible
Dietary Risk Evaluation Section
Science Analysis Branch/ Health Effects Division (7509C)

TO: John Redden, Chemical Manager
Risk Characterization and Analysis Branch
Health Effects Division (7509C)

THROUGH: Elizabeth A. Doyle, Section Head
Dietary Risk Evaluation Section
Science Analysis Branch/ Health Effects Division (7509C)

Action Requested

Provide a dietary exposure analysis to estimate chronic and acute dietary exposure and risk from chlorpyrifos for uses which are being supported through reregistration. This analysis updates the previous analysis supporting the chlorpyrifos RED (B. Steinwand memorandum to J. Redden dated 1/24/96).

Discussion

1. Toxicological Endpoints

Chronic exposure in this analysis was compared to a Reference Dose (RfD) of 0.003 mg/kg bw/day, based on a no observed effect level (NOEL) of 0.03 mg/kg bw/day and an uncertainty factor of 10. The NOEL is taken from a 20 day feeding study in humans; decreased plasma cholinesterase is the effect observed at the next highest dose level. This RfD was reviewed by the HED RfD Peer Review committee at their 11/20/95 meeting.

Chlorpyrifos has been classified as Group E by the HED Carcinogenicity Peer Review Committee. There is no evidence of carcinogenicity in either rats or mice.

The HED Toxicology Endpoint Selection Committee has determined that characterization

of acute dietary risk is required for this chemical (Toxicology Endpoint Selection Document, 4/29/96). Acute exposure estimates should be compared to a NOEL of 0.10 mg/kg bw/day, taken from a 28 day study in humans.

2. Residue Information

Food uses evaluated in the DRES chronic and acute analyses were those recommended in the Residue Chemistry Chapter of the RED (S. Knizner memorandum to J. Redden, 9/15/94). Published food uses for chlorpyrifos are listed in 40 CFR 180.342. Food additive tolerances and a tolerance for use of chlorpyrifos as a crack and crevice treatment in food handling establishments are found in 185.1000. The established tolerances are expressed either in terms of the combined residues of chlorpyrifos and its metabolite 3,5,6-trichloro-2-pyridinol (TCP) or as chlorpyrifos *per se*. The Agency has determined that the TCP metabolite of chlorpyrifos is not of toxicological concern and no longer needs to be regulated, and therefore, should be excluded from the tolerance expression (Knizner, 9/15/94). Reassessed tolerances reflect residues of chlorpyrifos *per se*, except where data were not available.

Following DRES policy for chronic exposure analyses, the food additive tolerance of 0.1 ppm for food handling establishments is applied to all raw agricultural commodities in DRES not already having a tolerance. If there is a specific food use tolerance listed in 180.342 or in 185.1000, that tolerance is reflected in the analysis instead of the food handling establishment (FHE) tolerance, regardless of whether or not the FHE tolerance is the higher of the two. The assumption is that the majority of exposure to the chemical would occur as a result of agricultural application, and not the food handling establishment use. In cases where tolerance revocations are recommended as part of the tolerance reassessment, the food handling establishment tolerance is assigned to those commodities instead of deleting them from the analysis. It should be noted that following HED acute dietary exposure guidelines (D. Edwards memorandum dated 6/13/96), the food handling establishment use of chlorpyrifos is not being considered in evaluating acute dietary risk from the chemical.

There are several commodities in the DRES chronic exposure analysis which have multiple records for a single raw agricultural commodity. There are multiple records for grapes, pears, nectarines, peaches, plums/prunes, tomatoes and lettuce. In the case of grapes, tomatoes and lettuce, these are pending petitions to increase the tolerance. By allowing two records, the first being the existing tolerance and the second being the incremental increase in residue posed by the proposed residue level (such that the cumulative residue of the two records equals the proposed higher tolerance), incremental increase in exposure and risk posed by the recommended increase can be determined. In the case of pears, nectarines, peaches and plums/prunes, the lower tolerance of 0.01 ppm reflects tolerances for domestic use of chlorpyrifos on these commodities and the higher residue of 0.04 ppm reflects the incremental increase posed by the 0.05 ppm import tolerance.

Percent of crop treated information is supplied by the Biological and Economic Analysis Division (table titled "Annual Chlorpyrifos Usage, 1987 to 1993 Data", generated by A. Grube) and used in the chronic exposure analysis. If information is not available for a commodity having a published tolerance, the default assumption of 100% crop treated is used; this includes uses which may have had percent of crop treated refinements reflected in previous DRES analyses but for which information was not supplied in the most recent BEAD submission. The default value

of 100% crop treated is assumed for all commodities assigned the food handling establishment tolerance.

Anticipated residue (AR) information supplied by Chemistry Branch II- Reregistration Support (CBRS) is used in both the chronic and acute exposure analyses. In the acute analysis, tolerance level residues or high end ARs are assumed, with the exception being the use of average ARs for those commodities considered to be mixed or blended in processing (Knizner memorandum to J. Redden dated 7/13/95). In the chronic analysis, tolerance level values or average ARs based on field trial data and processing studies were used. For both the acute and the chronic analyses, DRES default concentration factors were turned off if the ARs supplied already took into account concentration of residues in processed forms. A summary of the percent of crop treated and residue information used in the chronic analysis is attached as Attachment 1; the residue information used in the acute exposure analysis is attached as Attachment 2. Detailed assumptions used in interpreting residue and percent of crop treated information to the DRES residue files are attached as Appendix 1.

3. Results

Chronic Exposure

The DRES routine chronic exposure analysis assumes tolerance level residues and 100 percent crop treated in calculating the Theoretical Maximum Residue Contribution, or TMRC, for the U.S. population and 22 population subgroups. Anticipated residues and refined percent of crop treated information are used to calculate the Anticipated Residue Contribution (ARC). 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 are attached as Attachment 3.

The TMRC for the overall U.S. population from uses recommended in the RED is 0.006840 mg/kg bwt/day; this represents 228% of the RfD. The subgroup most highly exposed, non-nursing infants less than 1 year old, has a TMRC of 0.017552 mg/kg bwt/day, or 585% of the RfD.

The ARC for the overall U.S. population from uses recommended in the RED is 0.000946 mg/kg bwt/day, or 32% of the RfD. The subgroup most highly exposed, children aged one through six years old, has a ARC of 0.001870 mg/kg bwt/day, or 62% of the RfD.

Acute Exposure

The DRES detailed acute exposure analysis evaluates individual food consumption as reported by respondents in the 1977-78 Nationwide Food Consumption Survey and estimates the distribution of single day exposures throughout the diet for the U.S. population and select subgroups. The analysis assumes uniform distribution of chlorpyrifos in the commodity supply. The DRES analysis performed for this RED would be considered a Tier 2 risk assessment in the new acute dietary risk assessment policy (Edwards, 6/13/96).

The Margin of Exposure is a measure of how closely the calculated high end exposure from the analysis approaches the acute NOEL, and is calculated as the ratio of the NOEL to the high end exposure estimate. Since the toxicological effect to which exposure is being compared is plasma cholinesterase inhibition, risk is calculated for the U.S. population and all four DRES population subgroups available through the acute analysis. Given that the NOEL is taken from a human study, the Agency would generally not have concern unless the calculated MOE was

below 10.

Acute MOEs for the U.S. population and the four DRES population subgroups are supplied in the table below. The distributions of exposure and MOE calculations for these population groups are attached as Attachment 4.

Table 1: MOEs for Acute Dietary Exposure to Chlorpyrifos

POPULATION	MOE (high end)	MOE (percentile)
U.S. population	3.3	10 (95th)
Infants (< 1 year old)	3.3	7.1 (96th)
Children (1 through 6 years)	2.5	5 (95th)
Females (13 years and over)	7.1	12.5 (96th)
Males (13 years and over)	7.1	12.5 (97th)

The calculated MOEs from this analysis indicate that chlorpyrifos in the diet represents an acute risk of concern for all subgroups when risk is evaluated using the high end (>99.5%ile) exposure estimates. Using percentile estimates down closer to the 95th percentile, risk is acceptable for the U.S. population, Males (13+ years) and Females (13+ years). Even at these lower percentiles, acute dietary MOEs appear to be of concern for infants and children.

Attachments

cc: DRES, CBRS, SRRD, RD (PM 19), Caswell # 219AA

Appendix 1

The following assumptions were made in translating the tolerance reassessment , the anticipated residue, and the percent of crop treated information to the DRES chronic and acute residue files for the clorpyrifos RED. DRES chronic residue files are named 219AA.* and AR219AA.* and can be found in the REREGIST subdirectory of the DRES Bernoulli disks; the DRES acute residue file is found on the mainframe under the name PTAS.ACUTE.CHLORPYR.REREGIST. It should be noted that there were several instances where residue information was incorrectly interpreted to the DRES files in the previous analysis for the chlorpyrifos RED (Steinwand, 1/24/96) and that these corrections are also documented below.

Corrections to 1/24/96 analysis

- * tolerance and anticipated residue levels for tomatoes and grapes were incorrectly doubled. Under normal DRES policy, if a tolerance of 0.5 ppm existed for tomatoes and a proposal to increase the tolerance to 1.0 ppm were introduced to the file, this would be reflected by having two records for each tomato food form, each at 0.5 ppm (one published and one pending), such that the sum of the two entries equalled the tolerance being proposed. Likewise, if an AR of 0.04 ppm was supplied based on data supporting the recommended tolerance, 0.02 ppm would be assigned to each of the records such that their sum equalled the recommended AR. In the previous analysis, the recommended tolerances and ARs were entered for both records, thus doubling exposure for these crops.
- * in the tolerance and AR files, the records for the food handling establishment tolerance for lettuce were omitted. With correction, now there are two records for each lettuce entry - the proposed increase in tolerance of 0.9 ppm (AR= 0.235 ppm) and the published food handling establishment use of 0.1 ppm (AR= 0.005 ppm). The AR of 0.24 ppm was supplied in a N. Dodd memo dated 9/27/93. The recommended tolerance level of 1.0 ppm for lettuce was added to the acute residue file, where it had been previously omitted.
- * an AR of 0.047 ppm for "apples- cooked, fresh or canned" was inadvertently applied to raw apples in the 1/24/96 chronic analysis. This value was changed to the correct AR of 0.39 ppm.
- * missing food form records in the RED tolerance file for raisins and blueberries were added

Percent of crop treated assumptions

- * RACs previously having refined percent of crop treated estimates in the DRES file but not having information supplied in the most recent BEAD submission were assigned the DRES default value of 100% crop treated.
- * percent of crop treated estimates for pending uses on lettuce and grapes were changed to 100%; the percent crop treated estimates of 1% had been incorrectly applied these pending uses. The pending increase to the grape tolerance reflects an increase in scope of

application from regional level (the existing tolerance) to national level; usage data supplied to DRES for this RED would reflect only regional usage.

- * 100% crop treated was assumed for all food records in the file relating to the food handling establishment, as no information on percent of food establishments treated with chlorpyrifos was supplied. There are numerous RACs in the BEAD table which have percent of crop treated refinements supplied but for which no tolerances exist other than the food handling establishment tolerance; it is assumed that PCT estimates in these cases reflect Section 18s or special local need usage, and 100%CT was therefore applied to these records.
- * about a year ago tolerances on pears, plums/prunes, nectarines and peaches were raised from 0.01 ppm to 0.05 ppm so that the tolerance would cover residues on both domestic and imported foods. The incremental increase in tolerance for import use is reflected in the DRES chronic AR file as 0.04 ppm. Percent of crop treated data supplied by BEAD was applied only to the records for these RACs relating to domestic usage; 100% crop treated was assumed for those records relating to imported usage.
- * the percent of crop treated estimate for cabbage of 56% was also applied to chinese cabbage, replacing the 36% estimate that had previously been in the file; percent of crop treated estimates were not supplied for chinese cabbage in the most recent BEAD memo.

Residues

- * in those instances where an existing tolerance for a RAC was recommended to be revoked in the tolerance reassessment summary, that RAC was not removed from the file for the RED analysis, but was instead assigned the food handling establishment tolerance and AR, in accordance with DRES policy
- * the AR of 0.01 ppm for grape juice was also applied to "wine and sherry"
- * concentration factor suppressors in DRES ("H" in tolerance files, "C" in AR files) were removed from all "oil" records; they had been added previously, but DRES does not contain default concentration factors for oils, thus making these suppressors confusing and unnecessary
- * tolerances of 0.1 ppm for "corn, milled fractions" and 1.5 ppm for "wheat, milled fractions excluding flour" (both in CFR 185.1000) were added to the chronic tolerance and AR files and to the acute residue file; previously, only the 180.342 tolerances of 0.05 ppm (corn) and 0.5 ppm (wheat) had been reflected in the analysis. The use of the higher tolerance of 0.1 ppm for corn in the acute analysis runs counter to the value recommended in Knizner's 7/13/96 memo.
- * acute ARs supplied in S. Knizner's memo to J. Redden of 7/13/95 were also applied to the chronic AR files for those crops where tolerance level defaults were being used instead

(peanuts, soybeans, beet sugar, corn grain oil, cottonseed oil, peanut oil, soybean oil); these acute ARs were for mixed commodities and were therefore average anticipated residues also appropriate for use in chronic analyses.

* chronic and acute ARs for tomato puree were also applied to the "tomato-paste" and "tomato- catsup" in DRES

For ease of future work on this chemical, the following table lists the acute and chronic anticipated residues used in this analysis, with documentation of which Chemistry memo discussion of the AR is found in.

Table 1: Chronic and Acute ARs used in Chlorpyrifos Dietary Risk Assessment

RAC	Chronic AR (ppm)	Acute AR (ppm)	Reference
grapes	0.24		N. Dodd, 9/27/93;
raisins	0.04	0.12*	*CBRS comments to draft RED document
juice/wine/sherry	0.01	0.01	
food handling establishment	0.005	N/A	M. Flood, 6/28/90
citrus			S. Knizner, 7/13/95
pulp	0.1		
juice	0.015	0.015	
apples			Knizner, 7/13/95
whole, raw	0.39		
cooked, canned	0.047	0.047	
juice	0.062	0.062	
peppers	0.14		N. Dodd, 9/27/93
tomatoes			N. Dodd, 9/27/93
whole	0.19		
juice	0.006	0.006	
puree	0.02	0.02	
lettuce	0.24		N. Dodd, 9/27/93
wheat			M. Flood, 8/10/92
grain	0.034	0.034	
bran	0.09	0.09	
flour	0.005	0.005	
cane sugar	0.01	0.01	J. Morales, 6/30/93
beet sugar	0.01	0.01	Knizner, 7/13/95

soybean grain oil	0.01 0.0014	0.01 0.0014	Knizner, 7/13/95; Knizner, 10/31/95
cottonseed oil	0.045	0.045	Knizner, 7/13/95
poultry	0.01		D. Edwards, 12/15/88
corn oil	0.15	0.15	Knizner, 7/13/95
sunflower seed oil	0.046 0.1	0.046 0.1	Knizner, 10/31/95; Knizner, 7/13/95
peanut nutmeat oil	0.01 0.02	0.01 0.02	Knizner, 10/31/95; Knizner, 7/13/95

Attachment 1: Residue Information for Chronic Exposure Analysis

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CHEMICAL

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

RES. VALUE USED
IN TAS RUN (ppm)

STATUS

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342 185.1000		Human 20 day feeding NOEL = 0.0300 mg/kg LEL = 0.00 ppm	Decreased plasma ChE. No other systemic effects identified.	ADI OPP RfD = 0.003000 EPA RfD = 0.003000	No data gaps.	RFD/PR reviewed 09/09/93 RFD/PR reviewed 05/25/95 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	6H5505	P	0.100000	0.005000	100.00	0.005000
01002AA	BLACKBERRIES	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01006AA	RASPBERRIES	70 RAW-FROZEN	6H5505	P	0.100000	0.005000	100.00	0.005000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01009AA	BLUEBERRIES	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01010AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01010AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P	1.000000	1.000000	87.00	0.870000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P	1.000000	1.000000	87.00	0.870000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P	1.000000	1.000000	87.00	0.870000
01010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2682	P	1.000000	1.000000	87.00	0.870000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2682	P	1.000000	1.000000	87.00	0.870000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01011AA	CURRENTS	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
01014AA	GRAPES - FRESH	10 RAW-FRESH OR NFS	2E2584	P	0.500000	0.120000	1.00	0.01200
01014AA	GRAPES - FRESH	10 RAW-FRESH OR NFS	3F2872	A	0.500000	0.120000	100.00	0.120000
01014AA	GRAPES - RAISINS	10 RAW-FRESH OR NFS	2E2584	P	0.500000	0.020000C	1.00	0.00200
01014AA	GRAPES - RAISINS	10 RAW-FRESH OR NFS	3F2872	A	0.500000	0.020000C	100.00	0.02000
01014AA	GRAPES - RAISINS	21 COOKED-NFS	3F2872	A	0.500000	0.020000C	100.00	0.02000
01014AA	GRAPES - RAISINS	31 COOKED-FRESH OR CANNED	3F2872	A	0.500000	0.020000C	100.00	0.02000
01014AA	GRAPES - RAISINS	22 COOKED-FRESH-BAKED	3F2872	A	0.500000	0.020000C	1.00	0.00200
01014AA	GRAPES - RAISINS	22 COOKED-FRESH-BAKED	3F2872	A	0.500000	0.020000C	100.00	0.02000
01014JA	GRAPES - JUICE	10 RAW-FRESH OR NFS	2F2584	P	0.500000	0.005000C	1.00	0.00200
01014JA	GRAPES - JUICE	10 RAW-FRESH OR NFS	3F2872	A	0.500000	0.005000C	100.00	0.005000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982	
						AD ¹ OPP Rfd= 0.003000	UF -->10 EPA Rfd= 0.003000
Chlorpyrifos	Caswell #219AA	Human 20 day feeding	Decreased plasma ChE. No other systemic effects identified.		No data gaps.	EPA verified 03/11/86	RFD/PR reviewed 09/09/93
	CAS No. 2921-88-2	NOEL = 0.00 ppm					
A.I. CODE: 059101	LFL = 0.1000 mg/kg						
CFR No. 180.342	ONCQ: E (Rfd/PR Committee)	0.00 ppm	No evidence of carcinogenicity in rats or mice.				
185.1000							
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED IN TAS RUN (ppm)
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	2E2584	P 0.500000	0.005000C	1	1.00 0.000050
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	3F2872	A 0.500000	0.005000C	100	0.005000
01014JA	GRAPES-JUICE	21 COOKED-NFS	2E2584	P 0.500000	0.005000C	1	1.00 0.000050
01015AA	HUCKLEBERRIES	21 COOKED-NFS	3F2872	A 0.500000	0.005000C	100	0.005000
01016AA	STRAWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000	100	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	3F2884	P 0.200000	0.200000	40	0.008000
01016AA	STRAWBERRIES	21 COOKED-NFS	3F2884	P 0.200000	0.200000	40	0.008000
01024AA	JUNEBERRY	70 RAW-FROZEN	3F2884	P 0.200000	0.200000	40	0.008000
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000	100	0.005000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	0.100000	54	0.054000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.100000	49	0.049000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	49	0.049000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	49	0.049000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	49	0.049000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	49	0.049000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	0.100000	49	0.049000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	49	0.049000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	49	0.049000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	49	0.049000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	0.100000	49	0.049000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.015000C	49	0.007350
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02005AA	LIMES-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.015000C	49	0.007350
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.015000C	49	0.007350
02005HA	LIMES-JUICE	21 COOKED-NFS	1F2575	P 1.000000	0.015000C	49	0.007350
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.015000C	49	0.007350
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.015000C	49	0.007350
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.015000C	49	0.007350
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	0.015000C	49	0.007350
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350
02006JA	ORANGES-PEEL	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.015000C	49	0.007350

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 08/30/96

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS	
						WHO reviewed 1982 EPA verified 03/11/86	RFD/PR reviewed 09/09/93 RFD/PR reviewed 05/25/95 RFD/PR reviewed 11/20/95 On IRIS.
02006AA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	Decreased plasma ChE. No other systemic effects identified.	ADI OPP RFD= 0.003000 EPA RFD= 0.003000	No data gaps.		
02007AA	TANGERINES	10 RAW-FRESH OR NFS					
02008AA	TANGERINES-JUICE	10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED					
02008JA		10 RAW-FRESH OR NFS					
03001AA	ALMONDS	21 COOKED-NFS					
03001AA	ALMONDS	22 COOKED-FRESH-BAKED					
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS					
03002AA	BRAZIL NUTS	21 COOKED-NFS					
03003AA	CASHIWS	10 RAW-FRESH OR NFS					
03003AA	CASHIWS	21 COOKED-NFS					
03004AA	CHESTNUTS	10 RAW-FRESH OR NFS					
03004AA	CHESTNUTS	21 COOKED-NFS					
03005AA	FILBERTS	10 RAW-FRESH OR NFS					
03005AA	FILBERTS	21 COOKED-NFS					
03006AA	HICKORY NUTS	22 COOKED-FRESH-BAKED					
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS					
03008AA	PECANS	10 RAW-FRESH OR NFS					
03008AA	PECANS	21 COOKED-NFS					
03008AA	PECANS	22 COOKED-FRESH-BAKED					
03008AA	PECANS	23 COOKED-FRESH-BOILED					
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED					
03009AA	WALNUTS	10 RAW-FRESH OR NFS					
03009AA	WALNUTS	21 COOKED-NFS					
03009AA	WALNUTS	22 COOKED-FRESH-BAKED					
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)					
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS					
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)					
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS					
04001AA	APPLES-FRESH	21 COOKED-NFS					
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED					
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED					
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS					
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED					
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED					
04001DA	APPLES-DRIED	15 RAW-FRESH OR CANNED					
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED					
04001JA	APPLES-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)					
04002AA	CRABAPPLES	10 RAW-FRESH OR NFS					
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS					
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS					

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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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)	
								EFFECTS	REFERENCE DOSES
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	3F2884	P	0.01000	0.01000	13.00	0.001300	AD1 UF -->10 OPP RD= 0.003000 EPA RD= 0.003000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	4E04288	P	0.04000	0.04000	100.00	0.040000	RfD/PR reviewed 09/09/93 RfD/PR reviewed 05/25/95 On IRIS.
04003AA	PEARS-FRESH	51 COOKED-CANNED	3F2884	P	0.01000	0.01000	13.00	0.001300	
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	4E04288	P	0.01000	0.01000	13.00	0.001300	
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	13.00	0.001300	
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	4E04288	P	0.04000	0.04000	100.00	0.040000	
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	13.00	0.001300	
04003DA	PEARS-DRIED	21 COOKED-NFS	4E04288	P	0.04000	0.04000	100.00	0.040000	
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
05001AA	APRICOTS-FRESH	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
05002AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.005000	100.00	0.005000	
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000C	100.00	0.005000	
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000C	100.00	0.005000	
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	3F2884	P	1.00000	1.00000	13.00	0.130000	
05002AA	CHERRIES-FRESH	21 COOKED-NFS	3F2884	P	1.00000	1.00000	13.00	0.130000	
05002JA	CHERRIES-JUICE	21 COOKED-NFS	3F2884	P	1.00000	1.00000	13.00	0.130000	
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	3F2884	P	1.00000	1.00000	13.00	0.130000	
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	1.00000	1.00000	13.00	0.130000	
.05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	3F2884	P	1.00000	1.00000C	13.00	0.130000	
05002AA	NECTARINES	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	34.00	0.003400	
05003AA	NECTARINES	10 RAW-FRESH OR NFS	4E04289	P	0.04000	0.04000	100.00	0.040000	
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	29.00	0.002900	
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	4E04289	P	0.04000	0.04000	100.00	0.040000	
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F2884	P	0.01000	0.01000	29.00	0.002900	
05004AA	PEACHES-FRESH	21 COOKED-NFS	4E04289	P	0.04000	0.04000	100.00	0.040000	
05004AA	PEACHES-FRESH	31 COOKED-CANNED	3F2884	P	0.01000	0.01000	29.00	0.002900	
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	29.00	0.002900	
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	4E04289	P	0.04000	0.04000	100.00	0.040000	
05005AA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	29.00	0.002900	
05005AA	PEACHES-DRIED	21 COOKED-NFS	4E04289	P	0.04000	0.04000	100.00	0.040000	
05005AA	PEACHES-DRIED	21 COOKED-NFS	3F2884	P	0.01000	0.01000	29.00	0.002900	
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	4E04289	P	0.040000	0.040000	100.00	0.040000	
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.010000	0.010000	13.00	0.001300	
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	4E04289	P	0.040000	0.040000	100.00	0.040000	

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ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 219AA

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342 185.1000	Human 20 day feeding NOEL = 0.0300 mg/kg LEL = 0.1000 mg/kg 0.00 ppm ONCQ: E (RfD/PR Committee)	Decreased plasma ChE. No other systemic effects identified.	ADI OPP RfD = 0.003000 EPA RfD = 0.003000	No data gaps.	RfD/PR reviewed 09/09/93 RfD/PR reviewed 05/25/95 On IRIS.
		No evidence of carcinog- enicity in rats or mice...			

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	4E04289	P	0.04000	0.04000	100.00	0.04000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	13.00	0.001300
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	4E04289	P	0.04000	0.04000	100.00	0.040000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	3F2884	P	0.01000	0.01000	13.00	0.001300
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	4E04289	P	0.01000	0.01000	100.00	0.040000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	4E04289	P	0.04000	0.04000	100.00	0.040000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	13.00	0.001300
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	4E04289	P	0.04000	0.04000	100.00	0.040000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	3F2884	P	0.01000	0.01000	13.00	0.001300
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	4E04289	P	0.04000	0.04000	100.00	0.040000
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F2884	P	0.01000	0.01000	100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F2884	P	0.01000	0.01000	100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06003AA	COCONUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06003DA	COCONUT-COPRA	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000C	100.00	0.005000
06003DA	COCONUT-COPRA	21 COOKED-NFS	6H5505	P	0.10000	0.005000C	100.00	0.005000
06003DA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000C	100.00	0.005000
06003DA	COCONUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.10000	0.005000C	100.00	0.005000
06003JA	COCONUT-WATER	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06004AA	DATES	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06004AA	DATES	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06004AA	DATES	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000
06005AA	FIGS	10 RAW-FRESH OR NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06005AA	FIGS	21 COOKED-NFS	3F2884	P	0.01000	0.01000	100.00	0.010000
06005AA	FIGS	22 COOKED-FRESH-BAKED	3F2884	P	0.01000	0.01000	100.00	0.010000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P	0.10000	0.005000	100.00	0.005000
06010AA	OLIVES	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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CHEMICAL

Chlorpyrifos
Caswell #219AA

CAS No. 2921-88-2

A.I. CODE: 059101

CFR NO. 180.342

185.1000

ONCQ: E (RfD/PR Committee)

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)		ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	STATUS
				STUDY TYPE	EFFECTS					
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	WHO reviewed 1982
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6H5505	P	0.100000	0.005000		100.00	0.005000	EPA verified 03/11/86
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000C		100.00	0.005000	RfD/PR reviewed 09/09/93
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	RfD/PR reviewed 05/25/95
06011AA	PAPAWS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	RfD/PR reviewed 11/20/95
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	On IRIS.
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000		100.00	0.005000	
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
06015AA	POMEGRANATES	21 COOKED-NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
06016AA	PLANTAINS	21 COOKED-NFS	3F2884	P	0.010000	0.010000		100.00	0.010000	
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3F2884	P	0.010000	0.010000		100.00	0.010000	
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	3F2884	P	0.010000	0.010000		100.00	0.010000	
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06017AA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000C		100.00	0.005000	
06017AA	KIWI	10 RAW-FRESH OR NFS	3E2766	P	2.000000	2.000000		100.00	2.000000	
06020AA	ACEROLA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06021AA	GINKGO NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06022AA	MANEY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06023AA	PITANGA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06024AA	SOURSOP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06026AA	BREAD FRUIT	21 COOKED-NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
06027AA	BREAD NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06028AA	SAPOTE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06029AA	CARAMBOLA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06030AA	CHERIMOYA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06031AA	LONGAN FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06032AA	GENIP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000		100.00	0.005000	
06033AA	COCOA BUTTER	21 COOKED-NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
07001FA	CHOCOLATE	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
07001SA	CHOCOLATE	21 COOKED-NFS	6H5505	P	0.100000	0.005000		100.00	0.005000	
07001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000		100.00	0.005000	

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ANTICIPATED RESIDUE INFORMATION FOR CASHMEL NUMBER 219AA

DATE: 08/30/96

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		WHO reviewed EPA verified 03/11/86	STATUS
					AD1 UF -->10	OPP RfD= 0.003000	EPA RfD= 0.003000	RfD/PR reviewed 09/09/93
07002AA	COFFEE	Human 20 day feeding	Decreased plasma ChE.	No data gaps.				
07003AA	TEA	NOEL= 0.0350 mg/kg	No other systemic effects identified.					
08004AA	CHICORY	21 COOKED-NFS						
ANICE		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
BASIL		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08006AA	CARAWAY	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08007AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08008AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08011AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08012AA	CORIANDER	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08013AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08014AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08020AA	HOPS	21 COOKED-NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08022AA	HORSERADISH	11 RAW-FRESH-PICKLED, CORNED, OR CURED		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08023AA	ROSEMARY	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
MARJORAM		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
OREGANO		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08026AB	MUSTARD	SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08028AA	MUSTARD	SEED	21 COOKED-NFS	6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08029AA	NUTMEG	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
MACE		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08035AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
SAVORY		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08036AA	BAY	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08038AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08042AA	TURMERIC	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
ALLSPICE		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08047AA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
08048DA	POLPY	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10002AA	CANTALOUPES-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10002AB	CANTALOUPES-PULP	10 RAW-FRESH OR NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10002AB	CANTALOUPES-PULP	21 COOKED-NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10003AA	CASABAS	10 RAW-FRESH OR NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
CRENSHAW		00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10007AA	PERSIMON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10008AA	WATERMELON	10 RAW-FRESH OR NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10008AA	WATERMELON	21 COOKED-NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS		6H5505 P 0.10000 0.005000	100.00	0.005000	0.005000	
		10 RAW-FRESH OR NFS		6J2884 P 0.05000	1.00			

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CHEMICAL

STUDY TYPE

DATA GAPS/COMMENTS

STATUS

Chlorpyrifos

Caswell #219AA

CAS No. 2921-88-2

A.I. CODE: 059101

CFR No. 180.342

185.1000

No data gaps.

No evidence of carcinogenicity in rats or mice.

WHO reviewed
EPA verified 03/11/86
RfD/PR reviewed 09/09/93
RfD/PR reviewed 05/25/95
RfD/PR reviewed 11/20/95
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)
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	3F2884	P	0.05000	0.05000	1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	3F2884	P	0.05000	0.05000	1.00	0.000500
10011AA	PUMPKIN	21 COOKED-NFS	3F2884	P	0.05000	0.05000	3.00	0.001500
10011AA	PUMPKIN	22 COOKED-FRESH OR FROZEN-BAKED	3F2884	P	0.05000	0.05000	3.00	0.001500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
10017AA	BITTER MELON	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.05000	100.00	0.005000
10020AA	TOWELGOURD	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
11001AA	EGGPLANT	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000
11003AA	PEPPERS, SWEET	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.05000	100.00	0.005000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11003AB	CHILI PEPPERS	21 COOKED-NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P	1.00000	0.14000	100.00	0.140000
11004AA	PIMENTOS	10 RAW-FRESH OR NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11004AA	PIMENTOS	21 COOKED-NFS	1E2523	P	1.00000	0.14000	100.00	0.140000
11004AA	PIMENTOS	31 COOKED-FRESH OR CANNED	1E2523	P	1.00000	0.14000	100.00	0.140000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	4F2999	P	0.50000	0.09500	4.00	0.003800
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	4F3008	A	0.50000	0.09500	4.00	0.003800
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	4F2999	P	0.50000	0.09500	4.00	0.003800
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	4F2999	P	0.50000	0.09500	4.00	0.003800
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	4F3008	A	0.50000	0.09500	4.00	0.003800
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	4F2999	P	0.50000	0.09500	4.00	0.003800
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	4F3008	A	0.50000	0.09500	4.00	0.003800
11005JA	TOMATOES-JUICE	21 COOKED-NFS	4F2999	P	0.50000	0.09500	4.00	0.003800
11005JA	TOMATOES-JUICE	21 COOKED-NFS	4F3008	A	0.50000	0.09500	4.00	0.003800
11005RA	TOMATOES-PUREE	21 COOKED-NFS	4F2999	P	0.50000	0.09500	4.00	0.003800
11005RA	TOMATOES-PUREE	21 COOKED-NFS	4F3008	A	0.50000	0.09500	4.00	0.003800
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	4F2999	P	0.50000	0.09500	4.00	0.003800
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	4F3008	A	0.50000	0.09500	4.00	0.003800

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								STUDY TYPE	REFERENCE DOSES	
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	4F2999	P	0.50000	0.01000	4.00	0.00040		
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	4F3008	A	0.50000	0.01000	4.00	0.00040		
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	4F2999	P	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	51 COOKED-NFS	4F3008	A	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	21 COOKED-NFS	4F2999	P	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	4F3008	A	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	4F2999	P	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	4F3008	A	0.50000	0.01000	4.00	0.00040		
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	4F2999	P	0.50000	0.01000	4.00	0.00040		
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	4F3008	A	0.50000	0.01000	4.00	0.00040		
11006AA	GROUNDBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.00500	100.00	0.00500		
13001AA	BEETS-TOPS	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.00500	100.00	0.00500		
13001AA	BEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P	0.10000	0.00500	100.00	0.00500		
13002AA	CELERI	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.00500	100.00	0.00500		
13003AA	CHICORY	21 COOKED-NFS	6H5505	P	0.10000	0.00500	100.00	0.00500		
13005AA	BROCCOLI	21 COOKED-NFS	3F2884	P	1.00000	1.00000	64.00	0.64000		
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3F2884	P	1.00000	1.00000	64.00	0.64000		
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3F2884	P	1.00000	1.00000	64.00	0.64000		
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3F2884	P	1.00000	1.00000	100.00	1.00000		
13007AA	CABBAGE	10 RAW-FRESH OR NFS	3F2884	P	1.00000	1.00000	56.00	0.56000		
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	3F2884	P	1.00000	1.00000	56.00	0.56000		
13007AA	CABBAGE	21 COOKED-NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13008AA	CAULIFLOWER	21 COOKED-NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13009AA	COLLARDS	51 COOKED-CANNED	3F2884	P	1.00000	1.00000	18.00	0.18000		
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	3F2884	P	1.00000	1.00000	56.00	0.56000		
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	3F2884	P	1.00000	1.00000	56.00	0.56000		
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	3F2884	P	1.00000	1.00000	100.00	1.00000		
13012AA	KOHLRABI	21 COOKED-NFS	3F2884	P	1.00000	1.00000	100.00	1.00000		
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	4F3132	A	0.90000	0.235000	0.235000	0.50000		
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000		
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P	0.10000	0.005000	100.00	0.005000		
13015AA	ENDIVE	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000		
13015AA	ENDIVE	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000		
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000		

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE		ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	DATA GRPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86 RfD/PR reviewed 09/19/93 RfD/PR reviewed 05/25/95 RfD/PR reviewed 11/20/95 On IRIS.
				(ppm)	TYPE						
Chlorpyrifos											
CAS No. 2921-88-2	Human 20 day feeding										
A.I. CODE: 059101	NOEL= 0.0300 mg/kg										
CFR No. 180.342	LEL= 0.1000 ppm										
185.1000	ONCO: E (RfD/PR Committee)					No evidence of carcinogenicity in rats or mice.					
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000			100.00	0.005000	
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	4F3132	A	0.900000	0.235000			100.00	0.235000	
13021AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13021AA	MUSTARD GREENS	21 COOKED-NFS	3F2884	P	1.000000	1.000000			100.00	1.000000	
13022AA	PARSLEY	63 COOKED-FRESH OR FROZEN-BOILED	3F2884	P	1.000000	1.000000			100.00	1.000000	
13022AA	PARSLEY	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13023AA	RHUBARB	53 COOKED-CANNED-BOILED	6H5505	P	0.100000	0.005000			100.00	0.005000	
13023AA	RHUBARB	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13024AA	SPINACH	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000			100.00	0.005000	
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13025AA	SWISS CHARD	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P	0.100000	0.005000			100.00	0.005000	
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13026AA	TURNIPS-TOPS	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13027AA	WATERCRESS	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000			100.00	0.005000	
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13028AA	TARO-GREENS	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13029AA	CRESS, UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000			100.00	0.005000	
13029AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13045AA	LETTUCE-HEAD	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
13047AA	LAMBSQUARTER	21 COOKED-NFS	4F3132	A	0.900000	0.235000			100.00	0.235000	
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000			100.00	0.005000	
13049AA	GRAPES-LEAVES	21 COOKED-NFS	4F3132	A	0.900000	0.235000			100.00	0.235000	
13049AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000			100.00	0.005000	
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
14001AA	BEETS-ROOTS	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	6H5505	P	0.100000	0.005000			100.00	0.005000	
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000			100.00	0.005000	
14003AA	CARROTS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	
14003AA	CARROTS	21 COOKED-NFS	6H5505	P	0.100000	0.005000			100.00	0.005000	

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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)	STATUS
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.005000	100.00	0.005000	WHO reviewed 1982
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.005000	100.00	0.005000	EPA verified 03/11/86
14004AA	CARROTS.	51 COOKED-CANNED	6H5505	P	0.10000	0.005000	100.00	0.005000	OPP RfD= 0.003000
14005AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	EPA RfD= 0.003000
14006AA	CHIVES	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	RfD/PR reviewed 09/09/93
14007AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	RfD/PR reviewed 05/25/95
14007AA	GARLIC	10 RAW-FRESH OR NFS	DE2387	P	0.50000	0.500000	100.00	0.500000	On IRIS.
14007AA	GARLIC	21 COOKED-NFS	DE2387	P	0.50000	0.500000	100.00	0.500000	
14009AA	ARTICHOKES- JER	32 COOKED-FRESH OR CANNED-BAKED	DE2387	P	0.50000	0.500000	100.00	0.500000	
14010AA	LEAKS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	
14011AA	ONIONS	31 COOKED-FRESH OR FROZEN	6H5505	P	0.10000	0.005000	100.00	0.005000	
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	DE2387	P	0.50000	0.500000	38.00	0.190000	
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	DE2387	P	0.50000	0.500000	38.00	0.190000	
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	DE2387	P	0.50000	0.500000	38.00	0.190000	
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	DE2387	P	0.50000	0.500000	38.00	0.190000	
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	DE2387	P	0.50000	0.500000	38.00	0.190000	
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AB	POTATO(WH)-UNSPE	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000	
14014AA	RADISHES- ROOTS	10 RAW-FRESH OR NFS	3F2884	P	2.00000	2.000000	30.00	0.600000	
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	
14015AA	RUTABAGAS- ROOTS	10 RAW-FRESH OR NFS	3F2884	P	0.50000	0.500000	100.00	0.500000	
14015AA	RUTABAGAS- ROOTS	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000	
14016AA	SALSA/FY	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	DE2387	P	0.50000	0.500000	38.00	0.190000	
14018AA	SWEET POTATOES	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000	
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000	
14018AA	SWEET POTATOES	51 COOKED-CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000	
14019AA	TURNIPS- ROOTS	10 RAW-FRESH OR NFS	3F2884	P	1.00000	1.000000	100.00	1.000000	
14019AA	TURNIPS- ROOTS	21 COOKED-NFS	3F2884	P	1.00000	1.000000	100.00	1.000000	
14021AA	PARSNIPS	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000	

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86 RfD/PR reviewed 09/09/93 RfD/PR reviewed 05/25/95 RfD/PR reviewed 11/20/95 On IRIS.
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180-342 185.1000	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 ppm 0.00 ppm mg/kg	Decreased plasma ChE, No other systemic effects identified.	ADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	No data gaps.	

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14024AA	YAMBAN, TUBER	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
14026AA	CASSAVA	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
14026AB	TAPIOCA	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.005000	100.00	0.005000
14028AA	YAUTIA, TANNIER	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
14030AA	PARSLEY, ROOTS	31 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15001AA	BEANS-DRY-GRT NO	NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	3F2884	P	0.05000	0.050000	1.00	0.005000
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15003AB	BEANS-SUCC-OTHER	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15004AA	CORN, POP	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	REREQ	P	0.05000	0.050000	14.00	0.007000
15005AA	CORN, SWEET	21 COOKED-NFS	REREQ	P	0.05000	0.050000	14.00	0.007000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	REREQ	P	0.05000	0.050000	14.00	0.007000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	3F2884	P	0.20000	0.010000	33.00	0.003300
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	3F2884	P	0.20000	0.010000	33.00	0.003300
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	3F2884	P	0.20000	0.010000	33.00	0.003300
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	3F2884	P	0.05000	0.050000	6.00	0.003000
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	6.00	0.003000
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED	3F2884	P	0.05000	0.050000	100.00	0.050000
15011AB	LENTILS-SPLIT	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	3F2884	P	0.05000	0.050000	100.00	0.050000
15013AA	MUNG BEANS	21 COOKED-NFS	3F2884	P	0.05000	0.050000	100.00	0.050000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR NO. 180.342 185.1000	Human 20 day feeding NOEL = 0.0300 mg/kg LEL = 0.00 ppm ONCO: E (RfD/PR Committee)	Decreased plasma ChE. No other systemic effects identified.	AD1 OPP RfD= 0.003000 EPA RfD= 0.003000	No data gaps.	EPA verified 03/11/86 RfD/PR reviewed 09/09/93	RfD/PR reviewed 05/25/95 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)
15015AA	OKRA	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15015AA	OKRA	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.005000	100.00	0.005000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	REREG	P	0.10000	0.046000	100.00	0.004600
15020AA	CAROB	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15020AA	CAROB	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.050000	0.050000	100.00	0.050000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.050000	0.050000	100.00	0.050000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	3F2884	P	0.050000	0.050000	100.00	0.050000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000	100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	3F2884	P	0.050000	0.050000	100.00	0.050000
15028AA	PINEUTS	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15028AA	PINEUTS	21 COOKED-NFS	6H5505	P	0.10000	0.005000	100.00	0.005000
15029AA	SOYBEAN SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.300000	0.010000	3.00	0.003000
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.050000	0.050000	100.00	0.050000
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.050000	0.050000	100.00	0.050000
15031AA	BLK-EYE PEAS-DRY	21 COOKED-NFS	3F2884	P	0.050000	0.050000	100.00	0.050000
15032AA	BEANS-DRY	21 COOKED-NFS	3F2884	P	0.050000	0.050000	100.00	0.050000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	3F2884	P	0.050000	0.050000	100.00	0.050000
16002AA	ASPARAGUS	21 COOKED-NFS	2E2644	P	5.000000	5.000000	96.00	4.800000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E2644	P	5.000000	5.000000	96.00	4.800000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	3E2886	P	0.10000	0.10000	100.00	0.10000
16003AA	MUSHROOMS	21 COOKED-NFS	3E2886	P	0.10000	0.050000	100.00	0.050000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	3E2886	P	0.10000	0.10000	100.00	0.10000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	3E2886	P	0.10000	0.10000	100.00	0.10000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.050000	100.00	0.050000
16004AA	ONIONS-GREEN	21 COOKED-NFS	6H5505	P	0.10000	0.050000	100.00	0.050000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.050000	100.00	0.050000
16007AA	POKE GREENS	21 COOKED-NFS	6H5505	P	0.10000	0.050000	100.00	0.050000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6H5505	P	0.10000	0.050000	100.00	0.050000
24001AA	BARLEY	21 COOKED-NFS	6H5505	P	0.10000	0.050000	100.00	0.050000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	REREG	A	0.10000	0.10000	11.00	0.011000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	REREG	A	0.10000	0.10000	11.00	0.011000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	REREG	A	0.10000	0.10000	11.00	0.011000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	REREG	A	0.10000	0.10000	11.00	0.011000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	REREG	A	0.10000	0.10000	11.00	0.011000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	REREG	A	0.10000	0.10000	11.00	0.011000
24002SA	CORN SUGAR	21 COOKED-NFS	REREG	A	0.10000	0.10000	11.00	0.011000

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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AIR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	
								STUDY TYPE	EFFECTS
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	REREQ	A	0.10000	0.10000	11.00	0.01100	WHO reviewed 1982
24003AA	OATS	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.00500	EPA verified 03/11/86
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.05000	100.00	0.00500	RFD/PR reviewed 09/09/93
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.05000	100.00	0.00500	RFD/PR reviewed 05/25/95
24004AA	RICE-ROUGH	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.00500	RFD/PR reviewed 11/20/95
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.05000	100.00	0.00500	On IRIS.
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.00500	
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.05000	100.00	0.00500	
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P	0.10000	0.05000	100.00	0.00500	
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	6H5505	P	0.10000	0.05000	100.00	0.00500	
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.05000	100.00	0.00500	
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.05000	100.00	0.00500	
24005WA	RYE-FLOUR	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.00500	
24005WA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.05000	100.00	0.00500	
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	REREQ	P	0.50000	0.50000	5.00	0.02500	
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	3F2947	P	0.50000	0.03400	2.00	0.000680	
24007AA	WHEAT-ROUGH	21 COOKED-NFS	3F2947	P	0.50000	0.03400	2.00	0.000680	
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	3F2947	P	0.50000	0.03400	2.00	0.000680	
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	P	0.50000	0.03400	2.00	0.000680	
24007AA	WHEAT-GERM	10 RAW-FRESH OR NFS	3F2947	P	1.50000	0.03400	2.00	0.000680	
24007GA	WHEAT-GERM	22 COOKED-FRESH BAKED	3F2947	P	1.50000	0.03400	2.00	0.000680	
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	P	1.50000	0.090000	2.00	0.001800	
24007HA	WHEAT-BRAN	21 COOKED-NFS	3F2947	P	1.50000	0.090000	2.00	0.001800	
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	P	1.50000	0.090000	2.00	0.001800	
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	P	0.50000	0.05000	2.00	0.00100	
24007WA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	P	0.50000	0.05000	2.00	0.00100	
24007WA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	P	0.50000	0.05000	2.00	0.00100	
24007WA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	P	0.50000	0.05000	2.00	0.00100	
24007WA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	3F2947	P	0.50000	0.05000	2.00	0.00100	
24012AA	MILLET	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.05000	100.00	0.005000	
24012AA	MILLET	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000	
25001AA	HONEY	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.05000	100.00	0.005000	
25001AA	HONEY	21 COOKED-NFS	6H5505	P	0.10000	0.05000	100.00	0.005000	
25002SA	BEET SUGAR	10 RAW-FRESH OR NFS	2F2684	P	1.00000	0.01000	22.00	0.002200	
25002SA	BEET SUGAR	21 COOKED-NFS	2F2684	P	1.00000	0.01000	22.00	0.002200	
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	2F2684	P	1.00000	0.01000	22.00	0.002200	
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P	1.00000	0.01000	22.00	0.002200	
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	3E4192	P	0.01000	0.01000	1.00	0.000100	
25003SA	CANE SUGAR	21 COOKED-NFS	3E4192	P	0.01000	0.01000	1.00	0.000100	
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	3E4192	P	0.01000	0.01000	1.00	0.000100	

ANTICIPATED RESIDUE INFORMATION FOR CASHMELL NUMBER 219AA

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86 RfD/PR reviewed 05/09/93	STATUS
						AD1	UF
		Human 20 day feeding	Decreased plasma ChE. No other systemic effects identified.	OPP RfD= 0.003000 EPA RfD= 0.003000	No data gaps.		-->10
CAS No. 2921-88-2		NOEL= 0.00 ppm					
A.I. CODE: 059101		LEL= 0.1000 mg/kg					
CFR No. 180.342		0.00 ppm					
185.1000		ONCO: E (RfD/PR Committee)	No evidence of carcinogenicity in rats or mice.				

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE		ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
				(ppm)	(ppm)				
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	3E4192	P	0.01000	0.01000		1.00	0.000100
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	3E4192	P	0.01000	0.01000		1.00	0.000100
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	3E4192	P	0.01000	0.01000		1.00	0.000100
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	3E4192	P	0.01000	0.01000		1.00	0.000100
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	3E4192	P	0.01000	0.01000		1.00	0.000100
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6H5505	P	0.10000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	21 COOKED-NFS	6H5505	P	0.10000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000		100.00	0.005000
26001AA	GUAR BEANS	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.005000		100.00	0.005000
27001OA	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P	0.05000	0.05000		100.00	0.050000
27001OA	CORN, GRAIN-OIL	18 PROCESSED OIL	6H5505	P	0.10000	0.005000		100.00	0.005000
27002OA	COTTONSEED-OIL	18 PROCESSED OIL	3F2884	P	0.20000	0.200000		8.00	0.003600
27003WA	COITONSEED-MEAL	18 PROCESSED OIL	3F2884	P	0.20000	0.200000		8.00	0.003600
27006AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000		100.00	0.005000
27007OA	PEANUTS-OIL	18 PROCESSED OIL	3F2884	P	0.40000	0.020000		33.00	0.021000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.10000	0.005000		100.00	0.005000
27008OA	SAFFLOWER-OIL	18 PROCESSED OIL	6H5505	P	0.10000	0.005000		100.00	0.005000
27009OA	SESAME-OIL	18 PROCESSED OIL	6H5505	P	0.10000	0.005000		100.00	0.005000
27010OA	SOYBEANS-OIL	18 PROCESSED OIL	3F2884	P	0.30000	0.001400		3.00	0.000042
27011OA	SUNFLOWER-OIL	18 PROCESSED OIL	RERE	P	0.10000	0.10000		1.00	0.001000
27015OA	COCONUT-OIL	10 RAW-FRESH OR NFS	6H5505	P	0.10000	0.005000		100.00	0.005000
27015OA	COCONUT-OIL	21 COOKED-NFS	6H5505	P	0.10000	0.005000		100.00	0.005000
27015OA	COCONUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P	0.10000	0.005000		100.00	0.005000
27015OA	COCONUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P	0.10000	0.005000		100.00	0.005000
27016OA	OLIVE OIL	51 COOKED-CANNED	6H5505	P	0.10000	0.005000		100.00	0.005000
27017AA	RAPE SEED	18 PROCESSED OIL	6H5505	P	0.10000	0.005000		100.00	0.005000
27019OA	PALM OIL	18 PROCESSED OIL	6H5505	P	0.10000	0.005000		100.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	3F2884	P	0.30000	0.010000		3.00	0.000300
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	3F2884	P	0.30000	0.010000		3.00	0.000300
28023AB	SOYBEANS-DRY	21 COOKED-NFS	3F2884	P	0.30000	0.010000		3.00	0.000300
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	3F2884	P	0.30000	0.010000		3.00	0.000300
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	3F2884	P	0.30000	0.010000		3.00	0.000300
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	3F2884	P	0.30000	0.010000		3.00	0.000300
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	3F2884	P	0.30000	0.010000		3.00	0.000300
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	3F2884	P	0.30000	0.010000		3.00	0.000300
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	3F2884	P	0.30000	0.010000		3.00	0.000300
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	3F2884	P	0.300000	0.010000		3.00	0.000300

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86	STATUS	RES. VALUE USED IN TAS RUN: (ppm)			
								PEI.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE
28023WC	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	Decreased plasma ChE. No other systemic effects identified.	3F2884 P 3F2884 P 3F2884 P 3F2884 P 3F2884 P 6H5505 P	0.300000 0.010000 0.300000 0.010000 0.300000 0.010000 0.300000 0.010000 0.300000 0.010000 0.100000 0.005000	3.00 3.00 3.00 3.00 100.00 100.00	0.000500 0.000500 0.000500 0.000500 0.005000 0.005000	OPP RfD= 0.003000 EPA RfD= 0.003000	WHO reviewed 1982 EPA verified 03/11/86		
28023WC	SOY-FL, DEFAT	21 COOKED-NFS									
28023WC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED									
28023WC	SOY-FL, DEFAT	51 COOKED-CANNED									
28023WC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED									
28024AB	ORNTL NOLEAF VEG	21 COOKED-NFS									
28040AA	SEEDS-OTHER	10 RAW-FRESH OR NFS									
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		3F2884 P	0.800000 0.800000	57.00 57.00	0.456000 4.560000				
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		3F2884 P	8.000000 8.000000	57.00 57.00	0.456000 0.456000				
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		3F2884 P	0.800000 0.800000	57.00 57.00	4.560000 4.560000				
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		3F2884 P	8.000000 8.000000	57.00 57.00	4.560000 4.560000				
43057AA	VINEGAR	10 RAW-FRESH OR NFS		6H5505 P	0.100000 0.005000	100.00 100.00	0.005000 0.005000				
43057AA	VINEGAR	21 COOKED-NFS		6H5505 P	0.100000 0.005000	100.00 100.00	0.005000 0.005000				
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS		2F2584 P	1.000000 0.005000	100.00 100.00	0.005000 0.005000				
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS		3F2872 A	1.000000 0.005000	100.00 100.00	0.005000 0.005000				
43058AA	WINE AND SHERRY	21 COOKED-NFS		2F2584 P	1.000000 0.005000	100.00 100.00	0.005000 0.005000				
43058AA	WINE AND SHERRY	21 COOKED-NFS		3F2872 A	1.000000 0.005000	100.00 100.00	0.005000 0.005000				
43059AA	DIST ALCOHOL	21 COOKED-NFS		6H5505 P	0.100000 0.005000	100.00 100.00	0.005000 0.005000				
43060AA	GELATIN	10 RAW-FRESH OR NFS		6H5505 P	0.100000 0.005000	100.00 100.00	0.005000 0.005000				
43060AA	GELATIN	21 COOKED-NFS		3F2884 P	0.010000 0.010000	100.00 100.00	0.010000 0.010000				
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS		3F2884 P	0.010000 0.010000	100.00 100.00	0.010000 0.010000				
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS		3F2884 P	0.010000 0.010000	100.00 100.00	0.010000 0.010000				
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS		3F2884 P	0.250000 0.250000C	100.00 100.00	0.250000 0.250000				
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS		3F2884 P	0.250000 0.250000C	100.00 100.00	0.250000 0.250000				
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED		3F2884 P	0.250000 0.250000C	100.00 100.00	0.250000 0.250000				
50000SA	MILK SUG (LACT)	21 COOKED-CANNED		3F2884 P	0.010000 0.010000	100.00 100.00	0.010000 0.010000				
50000SA	MILK SUG (LACT)	51 COOKED-CANNED		3F2884 P	0.010000 0.010000	100.00 100.00	0.010000 0.010000				
53001DA	BEEF-DRIED	21 COOKED-NFS		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001BA	BEEF-MEAT BYPROD	21 COOKED-NFS		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001BA	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001BB	BEEF-OTHER ORGAN	21 COOKED-NFS		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001BB	BEEF-OTHER ORGAN	51 COOKED-CANNED		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001FA	BEEF-FAT	21 COOKED-NFS		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED		3F2884 P	0.300000 0.300000	100.00 100.00	0.300000 0.300000				
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED		3F2884 P	0.300000 0.300000	100.00 100.00	0.300000 0.300000				
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED		3F2884 P	0.300000 0.300000	100.00 100.00	0.300000 0.300000				
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED		3F2884 P	0.300000 0.300000	100.00 100.00	0.300000 0.300000				
53001KA	BEEF-KIDNEY	21 COOKED-NFS		3F2884 P	0.050000 0.050000	100.00 100.00	0.050000 0.050000				

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FOOD CODE	CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 05/11/86 RfD/PR reviewed 09/09/93 RfD/PR reviewed 05/25/95 RfD/PR reviewed 11/20/95 On IRIS.	STATUS
53001LA 53001LA 53001MA 53001MA 53001MA 53001MA 53001MA 53001MA 53002BA 53002BB 53002FA 53002FA 53002KA 53002LA 53002MA 53002MA 53003AA 53004AA 53005BA 53005BB 53005FA 53005KA 53005LA 53005MA 53005MA 53006BA 53006BB 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006FA 53006MA 53006MA 53006MA 53010AA	Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342 185.1000 ONCOC: E (RfD/PR Committee)	Human 20 day feeding NOEL= 0.0350 mg/kg LEL= 0.00 ppm mg/kg	Decreased plasma ChE, No other systemic effects identified. No evidence of carcinog- enicity in rats or mice.	AD1 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	No data gaps.		

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (PPM)	ANTICIPATED RESIDUE (PPM)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (PPM)
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F2884	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F2884	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F2884	P 0.050000	0.050000		100.00	0.050000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F2884	P 0.050000	0.050000		100.00	0.050000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P 0.050000	0.050000		100.00	0.050000
53002BB	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P 0.050000	0.050000		100.00	0.050000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	3F2884	P 0.200000	0.200000		100.00	0.200000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	3F2884	P 0.200000	0.200000		100.00	0.200000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P 0.050000	0.050000		100.00	0.050000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P 0.050000	0.050000		100.00	0.050000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	3F2884	P 0.050000	0.050000		100.00	0.050000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.250000	0.250000		100.00	0.250000
53004AA	RABBIT	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.050000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53005BB	SHEEP-OPTH ORGANS	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53005FA	SHEEP-FAT	21 COOKED-NFS	3F2884	P 0.200000	0.200000		100.00	0.200000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53005LB	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006BB	PORK-OTH ORGANS	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006BB	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	3F2884	P 0.200000	0.200000		100.00	0.200000
53006FA	PORK-FAT	21 COOKED-NFS	3F2884	P 0.200000	0.200000		100.00	0.200000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F2884	P 0.200000	0.200000		100.00	0.200000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F2884	P 0.200000	0.200000		100.00	0.200000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F2884	P 0.200000	0.200000		100.00	0.200000
53006FA	PORK-KIDNEY	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	26 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006KA	PORK-KIDNEY	21 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006KA	PORK-KIDNEY	23 COOKED-FRESH-BOILED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006FA	PORK-FAT	27 COOKED-NFS	3F2884	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	26 COOKED-FRESH-FRIED	3F2884	P 0.050000	0.050000		100.00	0.050000
53006MA	PORK-LEAN	27 COOKED-FRESH-FRIED, CORNED, OR CURED	3F2884	P 0.050000	0.050000		100.00	0.050000
53010AA	FISH-UNSPEC	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.050000

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982		STATUS
						AD ¹ OPP Rfd= 0.003000	UF -->10 EPA Rfd= 0.003000	
Chlorpyrifos	Caswell #219AA	Human 20 day feeding	Decreased plasma ChE. No other systemic effects identified.					
	CAS No. 2921-88-2	NOEL = 0.0300 mg/kg						
A.I. CODE: 059101	LEL = 0.00 ppm	0.00 mg/kg	No evidence of carcinogenicity in rats or mice.					
CFR No. 180.342	ONCQ: E (Rfd/PR Committee)	185.1000						
FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	USED	
FISH, SHELL	10	RAW-FRESH OR NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
53013AA FISH, SHELL	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
53013AA FISH, SHELL	25	COOKED-FRESH-FRIED	6H5505 P 0.100000	0.005000	100.00	0.005000		
FISH, SHELL	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
MEAT, GAME	25	COOKED-FRESH-FRIED	6H5505 P 0.100000	0.005000	100.00	0.005000		
53014AA MEAT, GAME	25	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
FISH-ROE, CAVIAR	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
53015AA FISH-ROE, CAVIAR	51	COOKED-CANNED	6H5505 P 0.100000	0.005000	100.00	0.005000		
53016AA FISH, FIN-FRESH	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
53016AA FISH, FIN-FRESH	25	COOKED-FRESH-FRIED	6H5505 P 0.100000	0.005000	100.00	0.005000		
FISH, FIN-SALT	10	RAW-FRESH OR NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
53017AA FISH, FIN-SALT	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
FISH, FIN-SLT-DRY	12	RAW-FRESH-DRIED	6H5505 P 0.100000	0.005000	100.00	0.005000		
53017DA FISH, FIN-SLT-DRY	21	COOKED-NFS	6H5505 P 0.100000	0.005000	100.00	0.005000		
55008BA TURKEY BY-PRODUCT	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008BA TURKEY BY-PRODUCT	26	COOKED-FRESH-PICKLED, CORNED OR CURED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
TURKEY ORGAN	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008LA TURKEY ORGAN	25	COOKED-FRESH-FRIED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008MA TURKEY W/O SKIN	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008MA TURKEY W/O SKIN	31	COOKED-FRESH OR CANNED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
TURKEY W/O SKIN	62	COOKED-FRESH OR FROZEN-BAKED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008MB TURKEY+SKIN	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008MB TURKEY+SKIN	25	COOKED-FRESH-FRIED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55008MC TURKEY+UNSPEC	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
POULTRY, OTH-BYP	00	NOT SPECIFIED (NO CONSUMPTION)	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55013LA POULTRY, ORGAN	25	COOKED-FRESH-FRIED	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55013MA POULTRY, OTHER	21	COOKED-NFS	3F2884 P 0.100000	0.010000	FEEDING STUDY	0.010000		
55014AA EGGS-WHOLE	10	RAW-FRESH OR NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AA EGGS-WHOLE	21	COOKED-NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
EGGS-WHOLE	22	COOKED-FRESH-BAKED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AA EGGS-WHOLE	23	COOKED-FRESH-BOILED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AA EGGS-WHOLE	25	COOKED-FRESH-FRIED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
EGGS-WHITE ONLY	10	RAW-FRESH OR NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AB EGGS-WHITE ONLY	21	COOKED-NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
EGGS-WHITE ONLY	22	COOKED-FRESH-BAKED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AB EGGS-WHITE ONLY	62	COOKED-FRESH OR FROZEN-BAKED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AB EGGS-WHITE ONLY	81	COOKED-FROZEN	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
EGGS-YOLK ONLY	10	RAW-FRESH OR NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AC EGGS-YOLK ONLY	21	COOKED-NFS	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		
55014AC EGGS-YOLK ONLY	25	COOKED-FRESH-FRIED	3F2884 P 0.010000	0.010000	FEEDING STUDY	0.010000		

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86 RfD/PR reviewed 09/09/93 RfD/PR reviewed 05/25/95 RfD/PR reviewed 11/20/95 on IRIS.	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342 185.1000	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCQ: E (RfD/PR Committee)	Decreased plasma ChE. No other systemic effects identified. No evidence of carcinogenicity in rats or mice.	(ADI UF -->10 OPP RfD= 0.00300 EPA RfD= 0.00300)	No data gaps.		

FOOD CODE	FOOD	FOOD FORM	PEI.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	3F2884	P	0.01000	0.01000	100.00	0.01000
55015BA	CHICKEN-BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	3F2884	P	0.10000	0.01000	100.00	0.01000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	3F2884	P	0.10000	0.01000	FEEDING STUDY	0.01000

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Attachment 2: Residue Information for Acute Exposure Analysis

01010AA10	1.0000 CRANBERRIES	03001AA10	0.2000 ALMONDS
01010AA31	1.0000 CRANBERRIES	03001AA21	0.2000 ALMONDS
01010JA15	1.0000 CRANBERRY-JUICE	03001AA22	0.2000 ALMONDS
01010JA31	1.0000 CRANBERRY-JUICE	03002AA10	0.2000 BRAZIL NUTS
01014AA10	1.0000 GRAPES-FRESH	03002AA21	0.2000 BRAZIL NUTS
01014AA21	1.0000 GRAPES-FRESH	03003AA10	0.2000 CASHIERS
01014AA31	1.0000 GRAPES-FRESH	03003AA21	0.2000 CASHIERS
01014DA10	0.12000CGRAPES-RAISINS	03004AA21	0.2000 CHESTNUTS
01014DA21	0.12000CGRAPES-RAISINS	03005AA10	0.2000 FILBERTS
01014DA22	0.12000CGRAPES-RAISINS	03005AA21	0.2000 FILBERTS
01014JA10	0.0100CGRAPES-JUICE	03005AA22	0.2000 FILBERTS
01014JA15	0.0100CGRAPES-JUICE	03006AA10	0.2000 HICKORY NUTS
01014JA21	0.0100CGRAPES-JUICE	03007AA10	0.2000 MACADAMIA NUTS
01016AA10	0.2000 STRAWBERRIES	03008AA10	0.2000 PECANS
01016AA21	0.2000 STRAWBERRIES	03008AA21	0.2000 PECANS
01016AA70	0.2000 STRAWBERRIES	03008AA22	0.2000 PECANS
02001AA22	1.0000 CITRUS CITRON	03008AA23	0.2000 PECANS
02002AA00	1.0000 GRAPEFRUIT-UNSP	03009AA10	0.2000 PECANS
02002AB10	1.0000 GRAPEFRUIT-PULP	03009AA21	0.2000 PECANS
02002AB21	1.0000 GRAPEFRUIT-PULP	03009AA22	0.2000 PECANS
02002JA15	0.0150CGRAPEFRUIT-JUICE	03010AA00	0.2000 BUTTER NUTS
02002JA31	0.0150CGRAPEFRUIT-JUICE	03013AA00	0.2000 BEECHNUTS
02003AA10	1.0000 KUMQUATS	04001AA10	1.5000 APPLES-FRESH
02006AA22	1.0000 LEMONS-UNSPEC	04001AA21	0.0470 APPLES-FRESH
02006AB10	1.0000 LEMONS-PULP	04001AA31	0.0470 APPLES-FRESH
02006AB31	1.0000 LEMONS-PULP	04001AA62	0.0470 APPLES-FRESH
02006HA10	1.0000 LEMONS-PEEL	04001DA10	1.5000 APPLES-DRIED
02006HA21	1.0000 LEMONS-PEEL	04001DA22	0.0470 APPLES-DRIED
02006JA10	0.0150CLEMONS-JUICE	04001JA62	0.0470 APPLES-FRESH
02006JA15	0.0150CLEMONS-JUICE	04001JA31	0.0620CAPPLES-JUICE
02006JA21	0.0150CLEMONS-JUICE	04003AA10	0.0500 PEARS-FRESH
02006JA31	0.0150CLEMONS-JUICE	04003AA31	0.0500 PEARS-FRESH
02005AA00	1.0000 LIMES-UNSPEC	04003AA51	0.0500 PEARS-FRESH
02005AB10	1.0000 LIMES-PULP	04003AA62	0.0500 PEARS-FRESH
02005HA21	1.0000 LIMES-PEEL	04003DA10	0.0500 PEARS-DRIED
02005JA10	0.0150CLIMES-JUICE	04003DA21	0.0500 PEARS-DRIED
02005JA15	0.0150CLIMES-JUICE	05002AA10	1.0000 CHERRIES-FRESH
02005JA31	0.0150CLIMES-JUICE	05002AA21	1.0000 CHERRIES-FRESH
02006AA00	1.0000 ORANGES-UNSPEC	05002AA31	1.0000 CHERRIES-FRESH
02006AB10	1.0000 ORANGES-PULP	05002AA62	1.0000 CHERRIES-FRESH
02006AB21	1.0000 ORANGES-PULP	05002DA00	1.0000 CHERRIES-DRIED
02006HA21	1.0000 ORANGES-PEEL	05002JA15	1.0000 CHERRIES-JUICE
02006HA22	1.0000 ORANGES-PEEL	05002JA21	1.0000 CHERRIES-JUICE
02006HA31	1.0000 ORANGES-PEEL	05003AA10	0.0500 NECTARINES
02006JA15	0.0150CORGANCES-JUICE	05004AA10	0.0500 PEACHES-FRESH
02006JA31	0.0150CORGANCES-JUICE	05004AA21	0.0500 PEACHES-FRESH
02007AA10	1.0000 TANGERINES	05004AA31	0.0500 PEACHES-FRESH
02008AA10	1.0000 TANGERINES	05004AA51	0.0500 PEACHES-FRESH
02008JA15	1.0000CTANGERINE-JUICE	05004DA10	0.0500 PEACHES-DRIED

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05006DA21	0.0500 PEACHES-DRIED	13005AA21	1.0000 BROCCOLI
05005AA10	0.0500 PLUMS-FRESH	13005AA31	1.0000 BROCCOLI
05005AA31	0.0500 PLUMS-FRESH	13005AA63	1.0000 BROCCOLI
05005DA10	0.0500 PLUMS-PRUNES	13006AA21	1.0000 BRUSSEL SPROUTS
05005DA21	0.0500 PLUMS-PRUNES	13006AA23	1.0000 BRUSSEL SPROUTS
05005DA31	0.0500 PLUMS-PRUNES	13007AA10	1.0000 CABBAGE
05005JA10	0.0500 PRUNE-JUICE	13007AA11	1.0000 CABBAGE
05005JA62	0.0500 PRUNE-JUICE	13007AA21	1.0000 CABBAGE
06002AA22	0.0100 BANANAS-UNSPEC	13008AA10	1.0000 CAULIFLOWER
06002AB10	0.0100 BANANAS-FRESH	13008AA21	1.0000 CAULIFLOWER
06002AB21	0.0100 BANANAS-FRESH	13009AA51	1.0000 COLLARDS
06002AB31	0.0100 BANANAS-FRESH	13009AA63	1.0000 COLLARDS
06002DA10	0.0100 BANANAS-DRIED	13010AA10	1.0000 CABBAGE-CHINESE
06002DA21	0.0100 BANANAS-DRIED	13010AA21	1.0000 CABBAGE-CHINESE
06005AA10	0.0100 FIGS	13011AA63	1.0000 KALE
06005AA21	0.0100 FIGS	13012AA21	1.0000 KOHLRABI
06005AA22	0.0100 FIGS	13013AA10	1.0000 LETTUCE-LEAFY
06016AA21	0.0100 PLANTAINS	13020AA10	1.0000 LETTUCE-UNSPEC
06016AA23	0.0100 PLANTAINS	13021AA21	1.0000 MUSTARD GREENS
06016AA25	0.0100 PLANTAINS	13021AA63	1.0000 MUSTARD GREENS
06018AA10	2.0000 KIWI	13026AA10	0.3000 TURNIPS-TOPS
08948DAD0	1.0000 PAPRIKA	13026AA21	0.3000 TURNIPS-TOPS
10010AA10	0.0500 CUCUMBERS	13026AA31	0.3000 TURNIPS-TOPS
10010AA11	0.0500 CUCUMBERS	13045AA10	1.0000 LETTUCE-HEAD
10010AA21	0.0500 CUCUMBERS	13045AA21	1.0000 LETTUCE-HEAD
10011AA21	0.0500 PUMPKIN	14007AA10	0.5000 GARLIC
10011AA22	0.0500 PUMPKIN	14007AA32	0.5000 GARLIC
10011AA62	0.0500 PUMPKIN	14011AA10	0.5000 ONIONS-DRY-BULB
11003AA10	1.0000 PEPPERS-SWEET	14011AA21	0.5000 ONIONS-DRY-BULB
11003AA21	1.0000 PEPPERS-SWEET	14011AA22	0.5000 ONIONS-DRY-BULB
11003AB00	1.0000 CHILI PEPPERS	14011AA31	0.5000 ONIONS-DRY-BULB
11003AD10	1.0000 PEPPERS-OTHER	14011AA12	0.5000 ONIONS-DRIED
11003AD51	1.0000 PEPPERS-OTHER	14014AA10	2.0000 RADISHES-ROOTS
11004AA10	1.0000 PEPPERS-OTHER	14015AA10	0.5000 RUTABAGAS-ROOTS
11004AA21	1.0000 PIIMENTOS	14017AA00	0.5000 SHALLOTS
11004AA31	1.0000 PIIMENTOS	14018AA21	0.0500 SWEETPOTATOES
11005AA10	1.0000 TOMATOES-WHOLE	14018AA31	0.0500 SWEETPOTATOES
11005AA21	1.0000 TOMATOES-WHOLE	14018AA51	0.0500 SWEETPOTATOES
11005AA31	1.0000 TOMATOES-WHOLE	14019AA10	1.0000 TURNIPS-ROOTS
11005JA10	0.0060 TOMATOES-JUICE	14019AA21	1.0000 TURNIPS-ROOTS
11005JA21	0.0060 TOMATOES-JUICE	15001AA00	0.0500 BEANS-DRY-GRIT NO
11005RA10	0.0200 TOMATOES-PUREE	15001AB21	0.0500 BEANS-DRY-KIDNEY
11005RA21	0.0200 TOMATOES-PUREE	15001AB31	0.0500 BEANS-DRY-NAVY
11005RA31	0.0200 TOMATOES-PUREE	15001AE21	0.0500 BEANS-DRY-NAVY
11005RA32	0.0200 TOMATOES-PUREE	15001AE25	0.0500 BEANS-DRY-OTHER
11005RA51	0.0200 TOMATOES-PUREE	15001AE31	0.0500 BEANS-DRY-OTHER
11005TA21	0.0200 TOMATOES-PASTE		
11005TA22	0.0200 TOMATOES-PASTE		
11005TA31	0.0200 TOMATOES-PASTE		
11005UA21	0.0200 TOMATOES-CATSUP		

15001AF21	0.0500	BEANS-DRY-PINTO	24007GA10	0.0900	WHEAT-GERM
15002AA10	0.0500	BEANS-SUCC-LIMA	24007GA22	0.0900	WHEAT-GERM
15002AA21	0.0500	BEANS-SUCC-LIMA	24007HA10	0.0900	WHEAT-BRAN
15003AA21	0.0500	BEANS-SUCC-GREEN	24007HA21	0.0900	WHEAT-BRAN
15003AB10	0.0500	BEANS-SUCC-OTH	24007HA22	0.0900	WHEAT-BRAN
15003AB21	0.0500	BEANS-SUCC-WAX	24007HA10	0.0900	WHEAT-FLOUR
15003AC21	0.0500	BEANS-SUCC-WAX	24007HA21	0.0900	WHEAT-FLOUR
15005AA10	0.0500	CORN, SWEET	24007HA22	0.0900	WHEAT-FLOUR
15005AA21	0.0500	CORN, SWEET	24007HA25	0.0900	WHEAT-FLOUR
15005AA31	0.0500	CORN, SWEET	25002SA10	0.0100	BEET SUGAR
15006AA10	0.0100	PEANUTS-WHOLE	25002SA21	0.0100	BEET SUGAR
15006AA22	0.0100	PEANUTS-WHOLE	25002SA22	0.0100	BEET SUGAR
15007AA21	0.0500	PEAS DRY-GARDEN	25002SA31	0.0100	BEET SUGAR
15007AA31	0.0500	PEAS DRY-GARDEN	25003SA10	0.0100	BEET SUGAR
15009AA21	0.0500	PEAS SUCC-GARDEN	25003SA21	0.0100	CANE SUGAR
15009AA31	0.0500	PEAS SUCC-GARDEN	25003SA22	0.0100	CANE SUGAR
15011AA31	0.0500	LENTILES-WHOLE	25003SA31	0.0100	CANE SUGAR
15011AB21	0.0500	LENTILES-SPLIT	25003SB10	0.0100	SUGAR-MOLASSES
15013AA10	0.0500	MUNG BEANS	25003SB22	0.0100	SUGAR-MOLASSES
15013AA21	0.0500	MUNG BEANS	25003SB31	0.0100	SUGAR-MOLASSES
15018AA10	0.0460	SUNFLOWER-SEEDS	26011AA00	0.0500	GUAR BEANS
15022AA00	0.0500	BEANS-DRY-BROAD	270020A18	0.1500	CORN, GRAIN-OIL
15022AB00	0.0500	BEANS-SUCC-BROAD	270020A18	0.0450	COTTONSEED-OIL
15023AA21	0.0500	BEANS-DRY-PIGEON	27003SA18	0.2000	COTTONSEED-HEAL
15027AA21	0.0500	BEANS-UNSPEC	270070A18	0.0200	PEANUTS-OIL
15029AA00	0.0100	SOYBEAN-SPROUTED	270100A18	0.0014	SOYBEANS-OIL
15030AA00	0.0500	BEANS-DRY-HYAC	270104A18	0.1000	SUNFLOWER-OIL
15030AB00	0.0500	BEANS-SUCC-HYAC	28023AA21	0.0100	SOYBEANS-UNSPEC
15031AA21	0.0500	BALKEYE PEAS-DRY	28023AB10	0.0100	SOYBEANS-DRY
15032AA21	0.0500	BEANS-DRY	28023AB21	0.0100	SOYBEANS-DRY
15032AA31	0.0500	BEANS-DRY	28023AB23	0.0100	SOYBEANS-DRY
16002AA21	5.0000	ASPARAGUS	28023AB25	0.0100	SOYBEANS-DRY
16002AA23	5.0000	ASPARAGUS	28023AB31	0.0100	SOYBEANS-DRY
16003AA10	0.1000	MUSHROOMS	28023MA21	0.0100	SOY-FL, FULL FAT
16003AA21	0.1000	MUSHROOMS	28023MA22	0.0100	SOY-FL, FULL FAT
16003AA31	0.1000	MUSHROOMS	28023MA31	0.0100	SOY-FL, FULL FAT
16003AA53	0.1000	MUSHROOMS	28023MB21	0.0100	SOY-FL, LOW FAT
24002EA10	0.1000	CORN, GRAIN-ENDO	28023MC10	0.0100	SOY-FL, DEFAT
24002EA21	0.1000	CORN, GRAIN-ENDO	28023MC21	0.0100	SOY-FL, DEFAT
24002EA22	0.1000	CORN, GRAIN-ENDO	28023MC22	0.0100	SOY-FL, DEFAT
24002EA23	0.1000	CORN, GRAIN-ENDO	28023MC51	0.0100	SOY-FL, DEFAT
24002HA00	0.1000	CORN, GRAIN-ENDO	28023NC53	0.0100	SOY-FL, DEFAT
24002SA10	0.1000	CORN SUGAR	28080A00	0.8000	PEPPERMINT
24002SA21	0.1000	CORN SUGAR	28080A00	8.0000	PEPPERMINT-OIL
24002SA22	0.1000	CORN SUGAR	28081A00	0.8000	PEPPERMINT
24006AA00	0.5000	SORGHUM	28081A00	8.0000	PEPPERMINT-OIL
24007AA10	0.0340	WHEAT-ROUGH	4305BA10	0.0100	WINE AND SHERRY
24007AA21	0.0340	WHEAT-ROUGH	4305BA21	0.0100	WINE AND SHERRY
24007AA22	0.0340	WHEAT-ROUGH	50000DB810	0.0100	MILK-NON-FAT SOL
24007AA23	0.0340	WHEAT-ROUGH	50000DB821	0.0100	MILK-NON-FAT SOL

53000DB851	0.0100 MILK-NON-FAT SOL	53006LA25	0.0500 PORK-LIVER
50000FA10	0.2500 MILK-FAT SOLIDS	53006MA21	0.0500 PORK-LEAN
50000FA21	0.2500 MILK-FAT SOLIDS	53006MA25	0.0500 PORK-LEAN
50000FA51	0.2500 MILK-FAT SOLIDS	53006MA26	0.0500 PORK-LEAN
50000SA21	0.0100 MILK SUG (LACT)	53008BA21	0.1000 TURKEY-BYP
50000SA51	0.0100 MILK SUG (LACT)	53008BA26	0.1000 TURKEY-BYP
53001BA21	0.0500 BEEF-MEAT BYP	53008LA21	0.1000 TURKEY ORGAN
53001BA26	0.0500 BEEF-MEAT BYP	53008LA25	0.1000 TURKEY ORGAN
53001B821	0.0500 BEEF-OTH ORGAN	53008MA21	0.1000 TURKEY W/O SKIN
53001B851	0.0500 BEEF-OTH ORGAN	53008MA31	0.1000 TURKEY W/O SKIN
53001DA21	0.0500 BEEF-DRIED	53008MA62	0.1000 TURKEY W/O SKIN
53001FA10	0.3000 BEEF-FAT	53008MB21	0.1000 TURKEY-SKIN
53001FA21	0.3000 BEEF-FAT	53008MB25	0.1000 TURKEY+SKIN
53001FA22	0.3000 BEEF-FAT	53008MC21	0.1000 TURKEY-UNSPEC
53001FA23	0.3000 BEEF-FAT	53013BA00	0.1000 POULTRY-OTH-BYP
53001FA24	0.3000 BEEF-FAT	53013LA25	0.1000 POULTRY-ORGAN
53001FA25	0.3000 BEEF-FAT	53013MA21	0.1000 POULTRY-OTHER
53001KA21	0.0500 BEEF-KIDNEY	55014AA10	0.0100 EGGS-WHOLE
53001LA25	0.0500 BEEF-LIVER	55014AA21	0.0100 EGGS-WHOLE
53001LA31	0.0500 BEEF-LIVER	55014AA22	0.0100 EGGS-WHOLE
53001MA10	0.0500 BEEF-LEAN	55014AA23	0.0100 EGGS-WHOLE
53001MA21	0.0500 BEEF-LEAN	55014AA25	0.0100 EGGS-WHOLE
53001MA22	0.0500 BEEF-LEAN	55014AB10	0.0100 EGGS-WHOLE
53001MA23	0.0500 BEEF-LEAN	55014AB21	0.0100 EGGS-WHITE ONLY
53001MA24	0.0500 BEEF-LEAN	55014AB22	0.0100 EGGS-WHITE ONLY
53002BA00	0.0500 GOAT-MEAT BYP	55014AB62	0.0100 EGGS-WHITE ONLY
53002BB800	0.0500 GOAT-OTH ORGAN	55014ABB1	0.0100 EGGS-WHITE ONLY
53002FA23	0.2000 GOAT-FAT	55014AC10	0.0100 EGGS-YOLK ONLY
53002FA25	0.2000 GOAT-FAT	55014AC21	0.0100 EGGS-YOLK ONLY
53002KA00	0.0500 GOAT-KIDNEY	55014AC25	0.0100 EGGS-YOLK ONLY
53002LA00	0.0500 GOAT-LIVER	55014AC31	0.0100 EGGS-YOLK ONLY
53002MA23	0.0500 GOAT-LEAN	55015BA00	0.1000 CHICKEN-BYP
53002MA25	0.0500 GOAT-LEAN	55015LA21	0.1000 CHICKEN-ORGAN
53003AA00	0.2500 HORSE	55015LA25	0.1000 CHICKEN-ORGAN
53005BA21	0.0500 SHEEP-MEAT BYP	55015LA26	0.1000 CHICKEN-ORGAN
53005BB21	0.0500 SHEEP-OTH ORGAN	55015MA21	0.1000 CHICKEN-W/O SKIN
53005FA21	0.2000 SHEEP-FAT	55015MA22	0.1000 CHICKEN-W/O SKIN
53005KA21	0.0500 SHEEP-KIDNEY	55015MA25	0.1000 CHICKEN-W/O SKIN
53005LA00	0.0500 SHEEP-LIVER	55015MA31	0.1000 CHICKEN-W/O SKIN
53005MA21	0.0500 SHEEP-LEAN	55015MA53	0.1000 CHICKEN-W/O SKIN
53005MA31	0.0500 SHEEP-LEAN	55015MB21	0.1000 CHICKEN+SKIN
53006BA21	0.0500 PORK-MEAT BYP	55015MB25	0.1000 CHICKEN+SKIN
53006BB21	0.0500 PORK-OTH ORGAN		
53006FA21	0.2000 PORK-FAT		
53006FA23	0.2000 PORK-FAT		
53006FA25	0.2000 PORK-FAT		
53006FA26	0.2000 PORK-FAT		
53006KA21	0.0500 PORK-KIDNEY		
53006LA21	0.0500 PORK-LIVER		

Attachment 3: Chronic Exposure and Risk Estimates

DATE: 08/30/96

PAGE:

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	WHO reviewed 1982 EPA verified 03/11/86 RfD/PR reviewed 09/09/93	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342 185.1000	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm	Decreased plasma ChE. No other systemic effects identified.	AD ^I UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	No data gaps.	RfD/PR reviewed 05/25/95 RfD/PR reviewed 11/20/95 On IRIS.	

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)	NEW TMRC	DIFFERENCE	EFFECT OF ANTICIPATED RESIDUES
	CURRENT TMRC*	NEW TMRC**	AS PERCENT OF RFD	AS PERCENT OF RFD
U.S. POPULATION - 48 STATES	0.005768	0.006840	227.983567	35.708367
U.S. POPULATION - SPRING SEASON	0.005524	0.006555	218.509500	34.392833
U.S. POPULATION - SUMMER SEASON	0.005376	0.006490	216.340167	37.129333
U.S. POPULATION - FALL SEASON	0.006003	0.007069	235.638133	35.537400
U.S. POPULATION - WINTER SEASON	0.006067	0.007140	238.011900	35.784467
NORTHEAST REGION	0.006450	0.007553	251.917733	37.592167
NORTH CENTRAL REGION	0.005707	0.006799	226.633367	36.413733
SOUTHERN REGION	0.005014	0.005922	197.393400	30.255933
WESTERN REGION	0.006132	0.007380	245.988300	41.602833
HISPANICS	0.006385	0.007622	254.053733	41.220833
NON-HISPANIC WHITES	0.005763	0.006878	229.277533	37.194067
NON-HISPANIC BLACKS	0.005187	0.005909	196.963333	30.51133
NON-HISPANIC OTHERS	0.006822	0.007751	258.355233	30.970767
NURSING INFANTS (< 1 YEAR OLD)	0.009979	0.010158	338.611600	5.986767
NON-NURSING INFANTS (< 1 YEAR OLD)	0.016846	0.017552	585.079133	23.558500
FEMALES (13+ YEARS, PREGNANT)	0.004385	0.005353	178.438000	32.281167
FEMALES 13+ YEARS, NURSING	0.004984	0.006103	203.441967	37.296567
CHILDREN (1-6 YEARS OLD)	0.013922	0.015863	528.781723	64.722733
CHILDREN (7-12 YEARS OLD)	0.008428	0.009977	332.577167	51.650233
MALES (13-19 YEARS OLD)	0.005227	0.006284	209.462367	35.244567
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.004648	0.005590	186.349900	31.403300
MALES (20 YEARS AND OLDER)	0.003987	0.004858	161.924300	29.033600
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.004117	0.005019	167.312267	30.074467

*Current TMRC does not include new or pending tolerances.

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

Attachment 4: Acute Exposure Distributions and MOE Calculations

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*NAME: CHLORPYRIFOS STUDY RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. *
*CASHELL NO: 219AA CFR NO: CFR180.342 A 00000.0030 000002.000 000010 subchronic Human Enzymatic Supplement 000003822*
*CAS NO: 02921-88-2 SHAUGHNESSY NO: 059101 B Chronic Dog Enzymatic Minimum 000004712*
*STATUS CODES:R.S. RPAR Chronic-onco Rat Enzymatic Supplement 000003822*
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*RDV INFO: The LD₅₀ value used in this analysis is 0.01 MG/KG of BODY WEIGHT/DAY

*FILE INFO: No Tolerance Data Are Used-Without User Modifications.

AR DATA: No User Modifications*

U.S. POP -48 STATE

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON TOLERANCES:	PERSON DAYS THAT ARE USER-DAYS 0.00	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY																
		AS PERCENT OF RDV																
ANTICIPATED RESIDUES:	99.83	33.34																
		ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=																
		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES: ANTICIPATED RESIDUES:	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

U.S. population

Exposure = RDV × X

$$= 0.01 \times 3$$

$$= 0.03 \text{ mg/kg/day}$$

MOE = NOEL ÷ Exposure

$$= 0.1 \text{ mg/kg/day} \div 0.03 \text{ mg/kg/day}$$

MOE = 3.3

INFANTS(<1 YEAR)

ESTIMATED % OF POTENTIAL MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON TOLERANCES:	PERSON DAYS THAT ARE USER-DAYS 0.00	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY																
		AS PERCENT OF RDV																
ANTICIPATED RESIDUES:	94.14	49.24																
		ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=																
		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES: ANTICIPATED RESIDUES:	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Infants (<1 year)

Exposure = RDV × X

$$= 0.01 \times 3$$

$$= 0.03 \text{ mg/kg/day}$$

MOE = NOEL ÷ Exposure

$$= 0.1 \text{ mg/kg/day} \div 0.03 \text{ mg/kg/day}$$

MOE = 3.3

CHILDREN(1-6 yrs)

ESTIMATED % OF POTENTIAL

MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON PERSON DAYS THAT ARE USER-DAYS	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY										
	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV									
ANTICIPATED RESIDUES:	0.00	0.00									
	0.00	0.007167									
	0.000000	71.67									
	99.98	0.007167									
	.2	71.67									
	.4	71.67									
	.6	71.67									
	.8	71.67									
	1	71.67									
	1.2	71.67									
	1.4	71.67									
	1.6	71.67									
	1.8	71.67									
	2	71.67									
	3	71.67									
	4	71.67									
	5	71.67									
	10	71.67									
	15	71.67									
	20	71.67									

children (1 through 6 years)

$$\text{Exposure} = \text{RDV} \times X$$

$$= 0.01 \times 4$$

$$= 0.04 \text{ mg/kg/day}$$

$$\text{MOE} = \text{NOEL} \div \text{Exposure}$$

$$= 0.1 \text{ mg/kg/day} \div 0.04 \text{ mg/kg/day}$$

$$\text{MOE} = 2.5$$

FEMALES(13+ yrs)

ESTIMATED % OF POTENTIAL

MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY

ESTIMATES BASED ON TOLERANCES: 0.00	PERSON DAYS THAT ARE USER-DAYS	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY										
		MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV									
ANTICIPATED RESIDUES:	99.87	0.000000	0.00									
	0.002613	0.002613	26.13									
	ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=											
	0	0										
	.2	.2										
	.4	.4										
	.6	.6										
	.8	.8										
	1	1										
	1.2	1.2										
	1.4	1.4										
	1.6	1.6										
	1.8	1.8										
	2	2										
	3	3										
	4	4										
	5	5										
	10	10										
	15	15										
	20	20										

Females (13+ years)

$$\text{Exposure} = \text{RDV} \times X$$

$$= 0.01 \times 1.4$$

$$= 0.014 \text{ mg/kg/day}$$

$$\text{MOE} = \text{NOEL} \div \text{Exposure}$$

$$= 0.1 \text{ mg/kg/day} \div 0.014 \text{ mg/kg/day}$$

$$\text{MOE} = 7.14$$

