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OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

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MEMORANDUM

SUBJECT: Chlorpyrifos Dietary Exposure Analysis:
Anticipated Residues on Wheat, Separation of
Trichloropyridinol (TCP) From the Tolerance
Expression, and Increase in Tomato Tolerances

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A. ACTIONS REQUESTED

This analysis presents, in stepwise fashion, the effects of several different Chlorpyrifos dietary exposure analysis requests. Initially, Registration Division requested an analysis of the dietary exposure/risk impact of the addition of anticipated residue data for Chlorpyrifos on/in Wheat of 0.034 ppm for Wheat Grain, 0.09 ppm for Wheat Bran, and 0.005 ppm for Wheat Flour. The results of this analysis left two child subgroups a little above the RfD, so guidance on how to proceed was requested of Toxicology Branch 2. Before final guidance was received from Tox. Branch 2, however, an additional request, to analyze the changes resulting from separation of the Chlorpyrifos metabolite Trichloropyridinol (TCP) from the tolerance expression, and also another request, to analyze the dietary impacts resulting from the increase in the tolerance for Tomatoes from 0.5 to 1.0 ppm, were also received from Registration Division. The Tomato dietary exposure impacts of the tolerance increase request were, additionally, analyzed both before and after the impacts of the separation of TCP from the tolerance expression were considered.

B. METHODS AND ASSUMPTIONS

1. Toxicological Endpoint

These routine chronic DRES analyses used a Reference Dose (RfD) of 0.003 mg/kg body weight per day, based on a No. Observed Effect Level (NOEL) of 0.03 mg/kg bodyweight per day and an Uncertainty Factor of 10. The NOEL is based on a 20-day human feeding study that demonstrated decreased plasma cholinesterase as the endpoint effect. This value has been approved by the HED (2/21/86) and by the Agency (3/11/86) reference dose committees.

2. Residue Information

Food uses evaluated include published tolerances from § 40 CFR 180.342, § 40 CFR 185.1000, and the Tolerance Index System (TIS), modified in many cases by percent-crop-treated data and/or anticipated residues (both contained in a memorandum dated 21 December 1988 from Susan Stanton to Charles W. Kent and Dennis Edwards and a second memorandum, dated 29 March 1989, from Susan Stanton to Joanne Edwards and Albin Kocialski; percent crop treated data developed by BEAD). All other commodities in the vocabulary that were not already covered by specific tolerances were also present for Chlorpyrifos at a tolerance of 0.1 ppm and an anticipated residue of 0.005 ppm, the result of a general tolerance for residues from use at food handling establishments (§ 40 CFR 185.1000).

a. Data Quality Control

As is usual, the data that were already in DRES were checked, to make sure that they portrayed the available tolerance data as accurately as possible. Also as usual, some adjustments were needed before the new tolerance data were added. The adjustments were:

i. The commodity "Blueberries" was present in the database at the food-handling establishment tolerance and anticipated residue level but was found to actually have a specific tolerance of 2.0 ppm for Chlorpyrifos (see § 40 CFR 180.342). The Blueberry tolerance and anticipated residue for Chlorpyrifos were therefore both increased to 2.0 ppm.

ii. Both TIS and the CFR contain both the group commodity "Legume Vegetables, Succulent or Dried (Except Soybeans)", at a tolerance of 0.1 ppm and the individual legume vegetables "Beans, Lima" and "Beans, Snap", at tolerances of 0.05 ppm. The

result of this is that Snap Beans and Lima Beans are published as having two, different Chlorpyrifos tolerances. This problem was referred to Mike Metzger of Chemistry Branch. Mike informed us that this situation was an error and needed to be corrected. In the meantime, he also informed us, we should use the highest tolerance that applied (0.1 ppm, in this case) since it was the legally enforceable one. The DRES database was changed to reflect this opinion.

Some other notes about the Chlorpyrifos data in DRES, TIS and the CFR follow:

i. TIS also has the commodities "Citrus, Oil", "Citrus, Pulp, Dried", "Feijoa", "Sapote, White", and "Sorghum, Milled Fractions" but these do not occur in DRES or in the food consumption data currently being used by DRES. Thus, they could not be used in the analysis.

ii. Both TIS and the CFR contain both the group commodity "Tree Nuts" and also the individual Tree Nut commodities "Almonds" and "Walnuts". In this case the tolerances for each are 0.2 ppm, so no database adjustments were necessary. However, this still appears to be an error condition and should be corrected to whatever is the appropriate configuration. A similar problem exists at the group level between "Seed and Pod Vegetables" and "Legume Vegetables, Dry and Succulent (Except Soybeans)", which overlap considerably in the RACs they contain. Though the tolerance for Chlorpyrifos in/on each is 0.1 ppm, the situation should still be corrected by eliminating one of the two groups and making sure that the non-overlapping commodities in the other group are added to TIS and the CFR.

The residue data that were used in this analysis are presented in Attachment 1.

b. **Wheat and Wheat Processed Products Anticipated Residues**

Next, the Wheat agricultural tolerances (but not the Wheat food handling establishment tolerances) for Chlorpyrifos were changed to 0.034 ppm for "Wheat - Rough" and "Wheat - Germ" (the DRES translations of

"Wheat Grain"), to 0.09 ppm for "Wheat - Bran", and to 0.005 ppm for "Wheat - Flour" and a second analysis was performed. These anticipated residues were contained in an undated memorandum from Michael T. Flood that was received in DRES on 11 August 1992.

The residue data that were used in this analysis can be seen in Attachment 3.

c. Changes Resulting From Separation of the Trichloropyridinol (TCP) Metabolite of Chlorpyrifos From the Tolerance Expression

Third, a large number of changes in tolerances was made as a result of a pair of memoranda from Michael T. Flood that detailed the effects of the separation of the TCP metabolite of Chlorpyrifos from the tolerance expression. The memoranda were dated 8 and 21 January 1993. The 8 January 1993 memorandum reports on a Chlorpyrifos ear tag residue transfer study performed by DowElanco and presents numerous proposed tolerance changes that are contained in a revised Section F submitted by DowElanco. However, CBTS recommended against the revised tolerances in this memo on grounds that the proposed Cattle Fat tolerance was inadequate and that data gaps for several other tolerances still existed. The 21 January memorandum indicates that yet another revised Section F for Chlorpyrifos had been received from DowElanco. It raised the Cattle Fat tolerance to 0.3 ppm and deleted the tolerances for which data gaps existed. The deleted tolerances included Sorghum Grain, Sunflower Seeds, Fresh (Sweet) Corn, and Corn Oil. As a result of these Section F revisions CBTS recommended for the remaining tolerance changes. The changes in the DRES data for Chlorpyrifos made as a result of the data in this memorandum were:

<u>Commodity</u>	<u>Old Tol.</u>		<u>New Tol.</u>		<u>Old A.R.</u>		<u>New A.R.</u>	
Bananas (w/o Peel)	0.5	ppm	0.1	ppm	0.1	ppm	0.1	ppm
Broccoli	2.0	"	1.0	"	0.1	"	0.1	"
Brussels Sprouts	2.0	"	1.0	"	1.0	"	0.1	"
Cabbage	2.0	"	1.0	"	1.0	"	1.0	"
Cattle, Fat	0.2	"	0.3	"	0.2	"	0.2	"
Cattle, Meat and Meat By- products	2.0	"	0.05	"	0.2	"	0.05	"

<u>Commodity</u>	<u>Old Tol.</u>		<u>New Tol.</u>		<u>Old A.R.</u>		<u>New A.R.</u>	
Cauliflower	2.0	"	1.0	"	1.0	"	1.0	"
Cherries	2.0	"	1.0	"	1.0	"	1.0	"
Chinese Cabbage	2.0	"	1.0	"	1.0	"	1.0	"
Corn, Field, Grain	0.1	"	0.05	"	0.05	"	0.05	"
Cottonseed	0.5	"	0.2	"	0.2	"	0.2	"
Cucumbers	0.1	ppm	0.05	ppm	0.05	ppm	0.05	ppm
Eggs	0.1	"	0.01	"	0.01	"	0.01	"
Figs	0.1	"	0.01	"	0.01	"	0.01	"
Goats, Fat	1.0	"	0.2	"	1.0	"	0.2	"
Goats, Meat and Meat Byproducts	1.0	"	0.05	"	1.0	"	0.05	"
Hogs, Fat	0.5	"	0.2	"	0.5	"	0.2	"
Hogs, Meat and Meat Byproducts	0.5	"	0.05	"	0.5	"	0.05	"
Horses, Meat, Fat and Meat Byproducts	1.0	"	0.25	"	0.25	"	0.25	"
Legume Vegetables, Succulent or Dried (Except Soybeans)	0.1	"	0.05	"	0.05	"	0.05	"
Milk, Fat	0.5	"	0.25	"	0.5	"	0.25	"
Milk, Whole	0.02	"	0.01	"	0.02	"	0.01	"
Nectarines	0.05	"	0.01	"	0.01	"	0.01	"
Peaches	0.05	"	0.01	"	0.01	"	0.01	"
Peanuts	0.5	"	0.2	"	0.2	"	0.2	"
Pears	0.05	"	0.01	"	0.01	"	0.01	"
Plums (Fresh Prunes)	0.05	"	0.01	"	0.01	"	0.01	"
Poultry, Meat, Fat, and Meat Byproducts (Incl. Turkeys)	0.5	"	0.1	"	0.01	"	0.01	"
Pumpkins	0.1	"	0.05	"	0.05	"	0.05	"
Radishes	3.0	"	2.0	"	2.0	"	2.0	"
Rutabagas	3.0	"	0.5	"	0.5	"	0.5	"

<u>Commodity</u>	<u>Old Tol.</u>	<u>New Tol.</u>	<u>Old A.R.</u>	<u>New A.R.</u>
Sheep, Fat	1.0 "	0.2 "	1.0 "	0.2 "
Sheep, Meat and Meat Byproducts	1.0 "	0.05 "	1.0 "	0.05 "
Soybean Grain	0.5 "	0.3 "	0.3 "	0.3 "
Strawber- ries	0.5 ppm	0.2 ppm	0.2 ppm	0.2 ppm
Sweet Potatoes	0.1 "	0.05 "	0.05 "	0.05 "
Turnip Greens	1.0 "	0.3 "	0.3 "	0.3 "
Turnips	3.0 "	1.0 "	1.0 "	1.0 "
Mint Oil	10.0 "	8.0 "	8.0 "	8.0 "
Peanut Oil	1.5 "	0.4 "	0.4 "	0.4 "

Most of the above changes had the effect of lowering the commodities' tolerances to the same level as their (preexisting) anticipated residues. In some cases, however, the proposed new tolerances were lower than the preexisting anticipated residues. This occurred primarily with meat and milk commodities. In these cases both the tolerances and the anticipated residues were reduced to the levels of the proposed new tolerances. The only commodity whose tolerance was increased was Cattle, Fat. The commodities that were deleted by DowElanco were retained in the DRES Chlorpyrifos files with the same tolerances and anticipated residues, on the advice of Dennis Edwards, because they are still in § 40 CFR 180.342 and § 40 CFR 185.1000 and it is unclear what their final disposition will be as reregistration progresses.

The separation of TCP from the tolerance expression also required that a few other changes be made in the Chlorpyrifos files because of the wording in § 40 CFR 180.342. Blueberry tolerances and anticipated residues were lowered to 1.0 ppm from 2.0 ppm, Date tolerances and A.R.s were lowered to 0.3 ppm from 0.5 ppm, and Leek tolerances and A.R.s were lowered to 0.2 ppm from 0.5 ppm because these are the limits for Chlorpyrifos alone that are specified in the CFR.

For the commodities listed above, where conversion from Residue Chemistry commodities to DRES commodities is not straightforward, here is how the commodity conversion was done.

<u>Chemistry Commodity</u>	<u>DRES Commodity(ies)</u>
Cattle, Meat Byproducts	Cattle, Meat Byproducts
	Beef (Organ Meats)-Other
	Beef-Kidney
	Beef-Liver
Corn, Grain	Corn, Grain-Endosperm
	Corn, Grain-Bran
	Corn Sugar
Cottonseed	Cotton, Seed, Oil
	Cotton, Seed, Meal
Eggs	Eggs
	Eggs-White Only
	Eggs-Yolk Only
Goats, Meat Byproducts	Goats, Meat Byproducts
	Goats (Organ Meats)-Other
	Goats-Kidney
	Goats-Liver
Hogs, Meat Byproducts	Hogs, Meat Byproducts
	Hogs, Organ Meats-Other
	Hogs, Kidney
	Hogs, Liver
Horses, Meat, Fat, and Meat Byproducts	Horses (All or Unspecified)
Legume Vegetables, Succu- lent or Dried (Except Soybeans)	Beans-Dry-Black-eyed Peas (Cowpeas)
	Beans-Dry-Broad Beans (Mature Seed)
	Beans-Dry-Garbanzo (Chick Peas)
	Beans-Dry-Great Northern
	Beans-Dry-Hyacinth (Mature Seeds)
	Beans-Dry-Kidney
	Beans-Dry-Lima
	Beans-Dry-Navy
	Beans-Dry-Other
	Beans-Dry-Pigeon Peas
	Beans-Dry-Pinto
	Beans-Succulent-Broad Beans (Immature Seed)
	Beans-Succulent-Green
	Beans-Succulent-Hyacinth (Young Pods)
	Beans-Succulent-Lima
	Beans-Succulent-Other
	Beans-Succulent-Yellow Wax

Chemistry Commodity
Legume Vegetables, Succu-
lent or Dried (Except
Soybeans). (cont.)

Milk, Whole

Poultry, Meat, Fat, and
Meat Byproducts

Radishes
Rutabagas
Sheep, Meat and Meat
Byproducts

Soybean, Grain

Mint Oil

DRES Commodity(ies)
Beans-Unspecified
Carob
Lentils-Split
Lentils-Whole
Mung Beans (Sprouts)
Peanuts-Oil
Peanuts-Whole
Peas, Garden-Green Imma-
ture
Peas, Garden-Mature
Seeds, Dry
Milk, Non-fat Solids
Milk Sugar (Lactose)
Chicken
Turkey
Poultry, Other
Radishes, Roots
Rutabagas, Roots
Sheep, Meat Byproducts
Sheep (Organ Meats)-Other
Sheep, Kidney
Sheep, Liver
Sheep, Meat
Soybeans-Oil
Soybeans
Soybeans-Mature, Seeds
Dry
Soybean Flour
Soybeans, Sprouted Seed
Peppermint, Oil
Spearmint, Oil

The residue data that were used in this analysis
appear in Attachment 5.

- d. Increase in Tomato Tolerances (and Anticipated
Residues) After Incorporation of the TCP
Separation Changes into the Analysis

Fourth, the Tomato tolerance increase was analyzed
after the impacts of the separation of TCP from the
tolerance expression were analyzed. To do so, all
Tomato tolerances--and anticipated residues, which are
the same as the Tomato tolerances--in the DRES
Chlorpyrifos files were changed from 0.5 ppm to 1.0 ppm
as a result of a Leung Chung memorandum dated 12
January 1993. The proposed new value was contained in
another revised Section F submitted by DowElanco in
response to correspondence with OPP concerning several
of the Chlorpyrifos tolerances.

The tolerance and anticipated residue figures used in this analysis are stated in Attachment 8.

- e. Increase in Tomato Tolerances (and Anticipated Residues) Before Incorporation of the TCP Separation Changes into the Analysis

This last analysis was performed as a what-if type of analysis, to see what the effect of denial of the proposed separation of the TCP metabolite from the tolerance expression, coupled with acceptance of the proposed increase of Chlorpyrifos Tomato tolerances from 0.5 ppm to 1.0 ppm, would be. To perform this analysis the Chlorpyrifos files in DRES were returned to the same configurations they had been in during the Wheat anticipated residues analysis. Then the Tomato tolerances and anticipated residues in the DRES Chlorpyrifos files were increased from 0.5 ppm to 1.0 ppm, just as they had been for the previously-described Tomato tolerance/anticipated residue analysis.

The tolerances and anticipated residues used in this analysis are presented in Attachment 11.

3. Chronic Exposure Analysis

Each of the DRES chronic exposure analyses that is reported here used tolerance-level residues and treatment of 100% of each crop to estimate the Theoretical Maximum Residue Contribution (TMRC) for the overall U.S. population and for 22 population subgroups.

Each analysis, however, made various assumptions about the different commodities in which Chlorpyrifos may legally appear in the process of calculating the Anticipated Residue Contribution (ARC), a more refined estimate of exposure and risk than the TMRC:

- a. Some commodities were assumed to have tolerance-level residues and 100% of the crop treated.
- b. Other commodities were assumed to have tolerance-level residues but a percentage of less than 100% (and sometimes as low as 1%) of the crop treated.
- c. Still other commodities used anticipated residues and 100% of the crop treated.
- d. Another group used anticipated residues and a percentage of the crop treated that was less than 100%.

- e. All other commodities in the vocabulary were present at the food handling tolerance and anticipated residue levels.

C. RESULTS

1. Data Clean-up and Analysis

The post-clean-up data produced high TMRCs, with the U.S. population and its 22 analyzed subgroups each having an estimated exposure to Chlorpyrifos in the diet of between about 270 and 910% of the RfD. However, when the ARC was calculated the U.S. population as a whole had an estimated exposure to Chlorpyrifos in the diet of only about 0.002129 mg/kg bodyweight per day, or about 71.0% of the RfD. Of the 22 analyzed U.S. population subgroups, all but three had estimated dietary exposures to Chlorpyrifos of less than 80% of the RfD. The other three subgroups, however, had estimated exposures that exceeded the RfD:

- Children (One to Six Years Old) 156.4% RfD
- Non-nursing Infants (Less Than One Year Old) 136.3% RfD
- Children (Seven to Twelve Years Old) 108.8% RfD

See Attachment 2 for the summary results of this analysis of the U.S. population and all subgroups.

The commodities that contributed the most to the overall dietary exposures of the U.S. population and the three subgroups with the highest exposure estimates are presented below.

a) U.S. Population

Wheat	23.5% RfD
Milk	11.9% "
Pork	10.6% "
Beef	<u>10.3% "</u>
TOTAL	56.3% RfD

b) Children (One to Six Years Old)

Wheat	52.6% RfD
Milk	34.4% "
Pork	19.9% "
Beef	18.6% "
Apples	8.3% "
Beet Sugar	<u>6.8% "</u>
TOTAL	140.6% RfD

c) Non-nursing Infants (Less Than One Year Old)

Milk	59.8%	RfD
Apples	20.7%	"
Wheat	17.3%	"
Pork	10.1%	"
Beef	9.5%	"
Blueberries	5.4%	"
TOTAL	122.8%	RfD

d) Children (Seven to Twelve Years Old)

Wheat	38.5%	RfD
Milk	21.4%	"
Beef	14.6%	"
Pork	14.1%	"
Beet Sugar	4.8%	"
TOTAL	93.4%	RfD

2. Addition of Wheat Anticipated Residues

Following the addition of anticipated residues for Wheat and its fractions to the Chlorpyrifos file the analyses still produced the same high TMRCs as had been encountered after the clean-up work. This is because the tolerance data had not changed. The ARCs for the U.S. population and its subgroups were substantially reduced, however, by the addition of the anticipated residues for Wheat. The ARC for dietary exposure to Chlorpyrifos of the U.S. population as a whole was estimated as being only about 0.001443 mg/kg bodyweight per day, or 48.1% of the RfD. Of the 22 analyzed U.S. population subgroups, all but two had estimated dietary exposures to Chlorpyrifos of less than 75% of the RfD. The other two subgroups, however, had estimated exposures that still exceeded the RfD:

- Non-nursing Infants (Less Than One Year Old) 119.6% RfD
- Children (One to Six Years Old) 105.3% RfD

The contribution of the same commodities that were detailed in § C.1. of this memorandum to the overall dietary exposures of the U.S. population and the same three subgroups are presented below.

a) U.S. Population

Wheat	0.6%	RfD
Milk	11.9%	"
Pork	10.6%	"
Beef	10.3%	"
TOTAL	33.4%	RfD

b) Children (One to Six Years Old)

Wheat	1.4%	RfD
Milk	34.4%	"
Pork	19.9%	"
Beef	18.6%	"
Apples	8.3%	"
Beet Sugar	6.8%	"
TOTAL	89.4%	RfD

c) Non-nursing Infants (Less Than One Year Old)

Milk	59.8%	RfD
Apples	20.7%	"
Wheat	0.5%	"
Pork	10.1%	"
Beef	9.5%	"
Blueberries	5.4%	"
TOTAL	106.0%	RfD

d) Children (Seven to Twelve Years Old)

Wheat	1.0%	RfD
Milk	21.4%	"
Beef	14.6%	"
Pork	14.1%	"
Beet Sugar	4.8%	"
TOTAL	55.9%	RfD

Subsequent analyses did not interact with the changes that resulted from the addition of Wheat anticipated residues to the Chlorpyrifos anticipated residue file. The changes in tolerances and anticipated residues that resulted from the separation of Trichloropyridinol from the tolerance equation did not affect any Wheat tolerances or anticipated residues. The changes made to the Tomato tolerances and anticipated residues in the Tomato tolerance increase analyses also, of course, produced no change in the Wheat tolerances and anticipated residues. Thus, the Wheat anticipated residue analysis reported here is a free-standing one.

The summary results of this analysis can be perused in Attachment 4.

3. Separation of the TCP Metabolite of Chlorpyrifos From the Tolerance Expression

The third analysis, which reflected substantially reduced tolerances as a result of the separation of the metabolite TCP from the tolerance expression, produced substantially lower TMRCs, with the U.S. population and its

22 analyzed subgroups each having estimated exposures to Chlorpyrifos in the diet of between about 140 and 650% of the RfD. When the ARCs were calculated the U.S. population as a whole had an estimated exposure to Chlorpyrifos in the diet that had declined to only about 0.000811 mg/kg bodyweight per day, or 27.0% of the RfD. Of the 22 analyzed U.S. population subgroups, all had estimated dietary exposures to Chlorpyrifos of less than 75% of the RfD. Thus, following the series of changes caused by the separation of TCP from the tolerance expression the estimated dietary exposure to Chlorpyrifos of the U.S. population and each of the 22 analyzed subpopulations ended up appreciably below the bottom of the exposure range in which they were of concern. See Attachment 6 for the summary results of this analysis for the U.S. population and the 22 subgroups that were examined. Attachment 7 presents, in report form, the contributions of anticipated residues on crops for which there are new, proposed, or published tolerances to the estimated exposure/risk values for the U.S. population and the three subgroups with the highest exposure estimates. These results are restated below. The values for the new tolerances and anticipated residues are negative because the changes from the preexisting tolerances and anticipated residues to the new tolerances and anticipated residues were made by adding a new record for each affected old record. Each new record contained the appropriate tolerance value to change the old value by either addition (a positive value) or subtraction (a negative value). In the large majority of cases the change was a subtraction.

	<u>Published</u>	<u>Pending</u>	<u>Proposed</u>	<u>Total*</u>
U.S. Population	37.1%RfD	0.0%RfD	-10.0%RfD	27.0%RfD
Non-nursing Infants (< One Year Old)	107.1 "	0.0 "	-36.8 "	70.3 "
Children (1-6 Years Old)	85.2 "	0.0 "	-24.5 "	60.8 "
Children (7-12 Years Old)	55.8 "	0.0 "	-15.4 "	40.5 "

*The tolerance type numbers do not always add up to the total because of rounding

4. Increase in Tomato Tolerances (and Anticipated Residues) After Incorporation of the TCP Separation Changes into the Analysis

This fourth analysis, increase in Tomato tolerances (and anticipated residues) from 0.5 to 1.0 ppm following incorporation of the TCP separation changes into the DRES Chlorpyrifos files, produced TMRCs that were increased somewhat over the TMRCs that were calculated in the previous analysis, the U.S. population and its 22 analyzed subgroups each having estimated exposures to Chlorpyrifos in the diet of between about 160 and 665% of the RfD. The ARCs that were calculated were also slightly increased over the ARCs that were calculated during the last analysis. The U.S. population as a whole had an estimated exposure to Chlorpyrifos in the diet of only about 0.000818 mg/kg bodyweight per day, or 27.3% of the RfD. This is an increase of only 0.24% of the RfD over the results of the previous analysis. Of the 22 analyzed U.S. population subgroups, all had estimated dietary exposures to Chlorpyrifos of less than 75% of the RfD and exposure estimates for each increased less than one percent of the RfD over the results of the previous analysis. Thus, following this change the estimated dietary exposure to Chlorpyrifos of the U.S. population and all of the 22 analyzed subpopulations remained appreciably below the bottom of the exposure range in which they become of concern. See Attachment 9 for the summary results of this analysis for the U.S. population and the 22 subgroups that were looked at. Attachment 10 presents, in report form, the contributions of anticipated residues on crops for which there are new, proposed, or published tolerances to the estimated exposure/risk values for the U.S. population and the three subgroups with the highest exposure estimates. These results are restated below. These are the total, cumulative dietary Chlorpyrifos exposure contribution estimates after addition of Wheat anticipated residues, TCP tolerance expression separation changes, and the increase in the Tomato tolerances. The numbers in parentheses indicate the size and direction of the change between this analysis and the previous analysis. They do not always add up properly to give the total because of rounding.

	<u>Published</u>	<u>Pending</u>	<u>Proposed</u>	<u>Total*</u>
U.S. Popu- lation	37.1%RfD (0.0 ")	0.0%RfD (0.0 ")	-9.8%RfD (+ 0.2 ")	27.3%RfD (+ 0.3 ")
Non- nursing Infants (<1 Year Old)	107.1 " (0.0 ")	0.0 " (0.0 ")	-36.7 " (+ 0.1 ")	70.4 " (+ 0.1 ")
Children (1-6 Years Old)	85.2 " (0.0 ")	0.0 " (0.0 ")	-24.0 " (+ 0.5 ")	61.2 " (+ 0.6 ")
Children (7-12 Years Old)	55.8 " (0.0 ")	0.0 " (0.0 ")	-15.0 " (+ 0.4 ")	40.8 " (+ 0.3 ")

*The tolerance type numbers do not always add up to the total because of rounding

See Attachment 9 for the summary results of this analysis for the U.S. population and the 22 subgroups that were examined. Attachment 10 contains the contributions of anticipated residues on crops for which there are new, proposed, or published tolerances to the estimated exposure/risk values for the U.S. population and the three subgroups with the highest exposure estimates.

5. Increase in Tomato Tolerances (and Anticipated Residues) Before Incorporation of the TCP Separation Changes into the Analysis

As would be expected, the increase in the Tomato tolerances and anticipated residues before incorporation of the TCP separation changes into the analysis increased the TMRCs somewhat over their levels following the Wheat anticipated residue analysis. The TMRCs calculated for the U.S. population and the 22 subgroups in this analysis ranged from about 290% to 930% of the RfD. The ARCs for all groups and subgroups also increased somewhat, though in all cases less than 0.5% of the RfD. The U.S. population as a whole had an estimated exposure to Chlorpyrifos in the diet of about 0.001450 mg/kg bodyweight per day, or 48.3% of the RfD. This is an increase of only 0.24% of the RfD over the results of the previous analysis. The increases for the U.S. population as a whole and the three most highly exposed subgroups were:

	Total Exposure Before Tolerance <u>Increase</u>	Total Exposure After Tolerance <u>Increase</u>	<u>Change</u>
- U.S. Popula- tion	48.1%RfD	48.3%RfD	0.2%RfD
- Non-nursing Infants (<1 Year Old)	119.6% "	119.8% "	0.2% "
- Children (1-6 Years Old)	105.3% "	105.860% "	0.5% "
- Children (7-12 Years Old)	71.4% "	71.8% "	0.4% "

All other subgroups had ARCs that were less than 60% of the RfD. See Attachment 12 for the summary results of this analysis for the U.S. population and the 22 subgroups that were examined. Attachment 13 details the contributions of anticipated residues on crops for which there are new, proposed, or published tolerances to the estimated exposure/risk values for the U.S. population and the three subgroups with the highest exposure estimates.

D. DISCUSSION

The addition of Wheat anticipated residues for Chlorpyrifos substantially lowered the estimated dietary exposures of the U.S. population and all 22 analyzed subgroups. However, the child subgroups Non-nursing Infants (Less Than One Year Old) and Children (One through Six Years Old) remained about five to 20% above the RfD. Separation of TCP from the tolerance equation also substantially lowered the estimated dietary exposures of the U.S. population and all 22 subgroups to Chlorpyrifos. These two changes together reduced all estimated dietary exposures (ARCs) to less than 70% of the RfD. The increase in the Tomato tolerance from 0.5 ppm to 1.0 ppm increased the estimated dietary exposure of each group or subgroup by one-half percent or less.

Thus, the numerous changes detailed in the Residue Information section of this memorandum cumulatively lowered the estimated dietary exposure to Chlorpyrifos of the U.S. Population and each of its 22 analyzed subgroups substantially and reduced the ARC of each group and subgroup to

less than 70% of the RfD (see Attachment 9). In so doing, this cluster of changes also reduced the estimated dietary exposure to Chlorpyrifos of the only three subgroups that were still of concern after the data clean-up:

- 1) Non-nursing Infants (Less Than One Year Old),
- 2) Children (One to Six Years Old), and
- 3) Children (Seven to Twelve Years Old)

to levels that no longer create dietary exposure/risk concerns.

However, should the proposed separation of the TCP metabolite from the tolerance expression not be accepted, DRES would continue to have dietary exposure/risk concerns for the subgroups Non-nursing Infants (Less Than One Year Old) and Children (One to Six Years Old). These subgroups would be left at about 20% and 5%, respectively, above the RfD. This is true even though these exposures are quite close to the Reference Dose and there is uncertainty as to the significance of the endpoint effect, cholinesterase inhibition. In this case, Toxicology Branch 2 would need to be consulted as to whether the overages for these two subgroups (both of them child subgroups) posed a significant concern or not. If concern was expressed that was great enough to cause further work to be recommended, meat and milk anticipated residues would be a good place to start. If milk (in particular) anticipated residues are found to be substantially below the tolerances, the dietary exposure estimate effect would probably be to lower the total estimates for the two over-RfD subgroups to less than the RfD.

Should any of the proposed tolerance changes not be accepted it would be desirable for DRES to be notified quickly. In particular, denial of the proposal to separate TCP from the tolerance expression would cause the estimated dietary exposure for two child subgroups to increase to above the RfD again.

Below is a summary of the results of each analysis for the U.S. population and the three subgroups that have the highest exposures.

	<u>Post- clean-up</u>	<u>Wheat A.R.s</u>	<u>TCP Separation</u>	<u>Tomato Tol. Incr.</u> ^{1,2}
U.S. Pop- ulation	70.0%RfD	48.1%RfD	27.0%RfD	27.3%RfD
Non- nursing Infants (< One Year Old)	136.4 "	119.6 "	70.3 "	70.4 "
Children (1-6 Years Old)	156.4 "	105.3 "	60.8 "	61.2 "
Children (7-12 Years Old)	108.8 "	71.4 "	40.5 "	40.8 "

¹The tolerance type numbers do not always add up to the total because of rounding.

²For Tomato tolerances that were increased after the TCP separation analysis was performed.

Attachments

cc: CBRS
CBTS
Chemical Manager
Toxicology Branch 2
Caswell File #219AA (Chlorpyrifos)
DRES

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Baseline Analysis
- Appendix 3.....Tolerances and Anticipated Residues Used
in the Wheat Anticipated Residue
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Appendix 11.....Tolerances and Anticipated Residues Used
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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	70 RAW-FROZEN	7E3557	P 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	1.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	P 2.000000	2.000000		100.00	0.005000
01009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P 1.000000	1.000000		100.00	2.000000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P 1.000000	1.000000		31.00	2.000000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.310000
01011AA	CURRENTS	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01015AA	MUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.500000	0.500000		100.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2283	P 0.500000	0.200000		5.00	0.010000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative: 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT - JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT - JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02003AA	KIMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004JA	LEMONS - JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS - JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS - JUICE	21 COOKED-NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS - JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02005HA	LIMES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005JA	LIMES - JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES - JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES - JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES - JUICE	15 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES - JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000
02008JA	TANGERINE - JUICE	15 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	100.00	0.200000
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	100.00	0.200000
03002AA	ALMONDS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	100.00	0.200000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative: 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
03003AA	CASHEWS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		69.00	0.138000
03007AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		10.00	0.020000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
04001AA	APPLES-FRESH	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000	PROCESS. STUDY	100.00	0.005000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003DA	PEARS-DRIED	21 COOKED-NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04004AA	OUTRICES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCD: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/86. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES, VALUE USED IN TAS RUM (ppm)
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000C		100.00	0.0050000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.0400000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.0400000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.0060000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.0060000
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		6.00	0.0060000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1306	P 0.050000	0.010000		6.00	0.0060000
05004DA	PEACHES-DRIED	51 COOKED-CANNED	3F1306	P 0.050000	0.010000		6.00	0.0060000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.0060000
05005AA	PLUMS-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		6.00	0.0060000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.0090000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.0090000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	6F1786	P 0.050000	0.010000		9.00	0.0090000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.0090000
05005JA	PRUNE - JUICE	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.0090000
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.0050000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.050000	0.010000		100.00	0.0100000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.0100000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.0100000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F1370	P 0.050000	0.010000		100.00	0.0100000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.0100000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.0100000
06003AA	COCONUT-FRESH	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.0050000
06003DA	COCONUT-COPRA	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000C		100.00	0.0050000
06003DA	COCONUT-COPRA	21 COOKED-NFS	6W5505	P 0.100000	0.005000C		100.00	0.0050000
06003DA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000C		100.00	0.0050000
06003JA	COCONUT-WATER	62 COOKED-FRESH OR FROZEN-BAKED	6W5505	P 0.100000	0.005000C		100.00	0.0050000
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.500000	0.005000		100.00	0.0050000
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.500000	0.005000		100.00	0.0050000
06004AA	DATES	22 COOKED-FRESH-BAKED	6E3439	P 0.500000	0.005000		100.00	0.0050000
06005AA	FIGS	10 RAW-FRESH OR NFS	2E2668	P 0.100000	0.010000		100.00	0.0100000
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.0007000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 10/29/92

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	STATUS HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000700
06006AA	GUAVA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06011AA	PAPAYAS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000C		100.00	0.005000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
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
06013JA	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
06014AA	PASSION FRUIT	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06015AA	POMEGRANATES	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	3F1370	P 0.050000	0.010000		100.00	0.010000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3F1370	P 0.050000	0.010000		100.00	0.010000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	3F1370	P 0.050000	0.010000		100.00	0.010000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06017DA	LYCHEE-DRIED	10 RAW-FRESH OR NFS	3E2766	P 2.000000	2.000000		100.00	2.000000
06018AA	KIWI	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
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	SOORSOP	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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	CHEMICAL Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative - 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
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
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
06033AA	GENIP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
07001FA	COCOA BUTTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	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
07002AA	COFFEE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07003AA	TEA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07006AA	CHICORY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08006AA	ANICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08007AA	BASIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08008AA	CARRAWAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08009AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08011AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08012AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08013AA	CORIANDER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08014AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 0.100000	0.100000		100.00	0.005000
08020AA	MOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.100000
08022AA	MORSERADISH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08023AA	ROSEMARY	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08024AA	MARJORAM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AA	OREGANO	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AA	MUSTARD SEED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AB	MUTNEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08035AA	NACE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08036AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08038AA	SAVORY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08042AA	BAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08043AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08047AA	TURMERIC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08048AA	ALLSPICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08048DA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		100.00	0.005000
08049AA	POPPY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		7.00	0.070000
							100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF --> 10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RID to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10003AA	CASABAS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10007AA	PERSTON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10008AA	WATERMELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	CUCUMBERS	11 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
10017AA	BITTER MELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10020AA	TOMEGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	EGGPLANT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	EGGPLANT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PINIENTOS	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PINIENTOS	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PINIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS		P 0.500000	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS		P 0.500000	0.500000		1.00	0.005000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
11005RA	TOMATOES-PUREE	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)		P 0.100000	0.005000		100.00	0.005000
13001AA	BEEETS-TOPS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13001AA	BEEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13003AA	CHICORY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13005AA	BROCCOLI	21 COOKED-NFS	3E2819	P 2.000000	1.000000		14.00	0.140000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	P 2.000000	1.000000		14.00	0.140000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		14.00	0.140000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	3E2819	P 2.000000	1.000000		22.00	0.220000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3E2819	P 2.000000	1.000000		22.00	0.220000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED,CORNED,OR CURED	3E2819	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	21 COOKED-NFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	3E2819	P 2.000000	1.000000		12.00	0.120000
13008AA	CAULIFLOWER	21 COOKED-NFS	3E2819	P 2.000000	1.000000		12.00	0.120000
13009AA	COLLARDS	51 COOKED-CANNED	3E2819	P 2.000000	1.000000		17.00	0.170000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	3E2819	P 2.000000	1.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	3E2819	P 2.000000	1.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13011AA	KALE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13012AA	KOHLRABI	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13013AA	LETTUCE-LEAFY	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13014AA	DANDELION	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13017AA	CRESS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13018AA	ARTICHOKE-GLOBE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-NFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding	Decreased plasma ChE.	10	10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. On IRIS.
	NOEL= 0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000			
	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000			
	OMCQ: Negative- 1 species.					

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13022AA	PARSLEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	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
13023AA	RHUBARB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	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	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P 1.000000	0.300000		100.00	0.300000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	WATERCRESS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13039AA	CRESS, UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	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	6H5505	P 0.100000	0.005000		100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13049AA	GRAPES-LEAVES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13999AA	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
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	0E2387	P 0.500000	0.500000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	0E2387	P 0.500000	0.500000		45.00	0.225000

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CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative: 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PAD1 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RFD to be reevaluated.	STATUS HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RJM (ppm)
14031AA	WATER CHESTNUTS	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
15001AA	BEANS-DRY-GRY NO	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	21 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AA	BEANS-SUCC-OTH	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-MAX	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15004AA	CORN, POP	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15005AA	CORN, SWEET	21 COOKED-NFS	3F1306	P 0.100000	0.100000		65.00	0.065000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	3F1306	P 0.100000	0.100000		65.00	0.065000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15007AA	PEAS DRY-GARDEN	21 COOKED-FRESH-BAKED	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AA	LENTILES-WHOLE	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AB	LENTILES-SPLIT	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15015AA	OKRA	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15015AA	OKRA	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.100000		10.00	0.010000
15020AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	2F2588	P 0.250000	0.250000		10.00	0.010000
15020AA	CAROB	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCD: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.0030000 EPA RfD= 0.0030000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
15027AA	BEANS-UNISPEC	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15028AA	PIENUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15028AA	PIENUTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.500000	0.300000		1.00	0.003000
15030AA	BEANS-DRY-NYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AB	BEANS-SUCC-NYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
16002AA	ASPARAGUS	21 COOKED-NFS	2E2644	P 5.000000	5.000000		5.00	0.000500
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E2644	P 5.000000	5.000000		5.00	0.025000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	21 COOKED-NFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	21 COOKED-NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24003AA	OATS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMQD: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
250025A	BEEF SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
250025A	BEEF SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
250035A	CAME SUGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
250035A	CAME SUGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
250035A	CAME SUGAR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
250035A	CAME SUGAR	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
250035B	SUGAR-NOLASSES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
250035B	SUGAR-NOLASSES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
250035B	SUGAR-NOLASSES	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
250035B	SUGAR-NOLASSES	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
250045A	MAPLE SYRUP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
250045A	MAPLE SYRUP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
26011AA	GIAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
270010A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	1H5323	P 3.000000	3.000000C		12.00	0.360000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
27003AA	COTTONSEED-NEAL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9H5226	P 1.500000	0.400000C		26.00	0.104000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270080A	SAFFLOWER-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270090A	SESAME-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.003000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P 0.250000	0.250000		1.00	0.002500
270150A	COCOMUT-OIL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOMUT-OIL	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOMUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOMUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOMUT-OIL	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
270160A	OLIVE OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270190A	PALM OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P 0.500000	0.300000		1.00	0.003000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0500 mg/kg LEL= 0.1000 mg/kg OMCO; Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MB	SOY-FL, LOW FAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MC	SOY-FL,DEFAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023NC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023BC	SOY-FL,DEFAT	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28024AB	ORNTL MOLEAF VEG	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
28040AA	SEEDS-OTHER	10 RAW-FRESH OR NFS	6H5505	P 1.000000	1.000000		100.00	1.000000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	8.000000C		100.00	8.000000
28080BA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	1.000000		100.00	1.000000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	8.000000C		100.00	8.000000
28081BA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	1.000000		100.00	1.000000
43057AA	VINEGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43057BA	VINEGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43058BA	WINE AND SHERRY	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43059AA	DIST ALCOHOL	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43060BA	GELATIN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
53001BA	BEEF-NEAT BYP	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BA	BEEF-NEAT BYP	26 COOKED-FRESH-PICKLED,CORMED,OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001DA	BEEF-ORTED	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMOD: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PM01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001KA	BEEF-KIDNEY	21 COOKED-WFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001MA	BEEF-LEAN	10 RAW-FRESH OR WFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	21 COOKED-WFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.200000	3F02884	100.00	0.200000
53002BA	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.200000	3F02884	100.00	0.200000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000		100.00	1.000000
53003AA	MORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.250000		100.00	0.250000
53004AA	RABBIT	21 COOKED-WFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53004AA	RABBIT	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-WFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BA	SHEEP-OTH ORGAN	21 COOKED-WFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BB	SHEEP-FAT	21 COOKED-WFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-KIDNEY	21 COOKED-WFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005KA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	21 COOKED-WFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53006AA	PORK-MEAT BYP	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006AB	PORK-OTH ORGAN	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006AB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006KA	PORK-KIDNEY	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-WFS	3F1306	P 0.500000	0.500000		100.00	0.500000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day Feeding MOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RfM (ppm)
53006AA	PORK-LEAN	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006AA	PORK-LEAN	26 COOKED-FRESH-PICKLED,CORMED,OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53010AA	FISH-UNSPEC	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	21 COOKED-MFS	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
53014AA	MEAT,GAME	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53014AA	MEAT,GAME	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE,CAVIAR	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE,CAVIAR	21 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH,FIN-FRESH	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH,FIN-FRESH	25 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-FRESH	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017DA	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-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
55008BA	TURKEY-BYP	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.005000
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORMED,OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY ORGAN	25 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	21 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY+SKIN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY+SKIN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY,OTHER	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	21 COOKED-MFS	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative. 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RID= 0.003000 EPA RID= 0.003000	New chronic/onco rat study has been reviewed; RID to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	6F1673	P 0.100000	0.010000		100.00	0.010000
550158A	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000		FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HA	CHICKEN-W/O SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HB	CHICKEN+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015HB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**			ARC	XRFD
U.S. POPULATION - 48 STATES	0.010737	0.011302	376.723733	18.811000	0.002129	70.95990
U.S. POPULATION - SPRING SEASON	0.010454	0.011002	366.728867	18.265833	0.002055	68.49837
U.S. POPULATION - SUMMER SEASON	0.010364	0.010913	363.762033	18.285500	0.002082	69.40260
U.S. POPULATION - FALL SEASON	0.011059	0.011642	388.064267	19.424767	0.002192	73.07317
U.S. POPULATION - WINTER SEASON	0.010931	0.011509	383.619467	19.268333	0.002140	71.33363
NORTHEAST REGION	0.011695	0.012284	409.468567	19.627133	0.002195	73.18277
NORTH CENTRAL REGION	0.010575	0.011162	372.079933	19.567833	0.002178	72.61117
SOUTHERN REGION	0.009719	0.010258	341.928967	17.952200	0.002012	67.07897
WESTERN REGION	0.011253	0.011796	393.187400	18.089633	0.002104	70.14490
HISPANICS	0.012424	0.012964	432.147767	18.003900	0.002259	75.28460
NON-HISPANIC WHITES	0.010605	0.011182	372.722067	19.207367	0.002108	70.26627
NON-HISPANIC BLACKS	0.010283	0.010785	359.511300	16.736467	0.002087	69.57347
NON-HISPANIC OTHERS	0.012724	0.013261	442.046333	17.898900	0.002324	77.46937
NURSING INFANTS (< 1 YEAR OLD)	0.015014	0.015182	506.069333	5.611200	0.001555	51.81940
NON-NURSING INFANTS (< 1 YEAR OLD)	0.026864	0.027277	909.227333	13.757567	0.004090	136.34580
FEMALES (13+ YEARS, PREGNANT)	0.007832	0.008241	274.694133	13.632367	0.001537	51.22367
FEMALES 13+ YEARS, NURSING	0.008612	0.009121	304.023833	16.948267	0.001801	60.04627
CHILDREN (1-6 YEARS OLD)	0.024440	0.025702	856.735900	42.060833	0.004693	156.43773
CHILDREN (7-12 YEARS OLD)	0.015262	0.016185	539.508033	30.766300	0.003265	108.04687
MALES (13-19 YEARS OLD)	0.010147	0.010808	360.273400	22.028333	0.002299	76.62383
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.008811	0.009315	310.498100	16.787567	0.001831	61.04727
MALES (20 YEARS AND OLDER)	0.008028	0.008477	282.558200	14.972400	0.001671	55.68980
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.007831	0.008203	273.421333	12.371667	0.001431	47.70337

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

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	RASPBERRIES	70 RAW-FROZEN	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	1.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	15 RAW-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY - JUICE	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY - JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	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	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	15 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2283	P 0.500000	0.200000		5.00	0.010000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004NA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004NA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	21 COOKED-NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LIMES-UNSPEC	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005NA	LIMES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006NA	ORANGES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02006NA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02006NA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		16.00	0.032000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		16.00	0.032000
02008JA	TANGERINE - JUICE	15 RAW-FRESH OR CANNED	4F2999	P 0.200000	0.200000		100.00	0.200000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		100.00	0.200000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000

Attachment 3 (cont.)

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
03003AA	CASHEWS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		69.00	0.138000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.100000C	PROCESS, STUDY	35.00	0.035000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000	PROCESS, STUDY	35.00	0.035000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		54.00	0.005400
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003DA	PEARS-DRIED	21 COOKED-NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	6W5505	P 0.100000	0.005000		100.00	0.005000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000C		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate. OMCO: Negative- 1 species.	OPP RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.	
	MOEL= 0.0300 mg/kg		0.003000			
	LEL= 0.1000 mg/kg		0.003000			

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
050010A	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.040000
05002DA	CHERRIES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	1E2529	P 2.000000	1.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 2.000000	1.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.040000
05003AA	NECTARINES	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.006000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1306	P 0.050000	0.010000		60.00	0.006000
05004DA	PEACHES-DRIED	51 COOKED-CANNED	3F1306	P 0.050000	0.010000		60.00	0.006000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05005AA	PLUMS-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	21 COOKED-NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PLUME - JUICE	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PLUME - JUICE	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.000900
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6H5505	P 0.050000	0.010000		9.00	0.000900
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.100000	0.005000		100.00	0.005000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06003AA	COCONUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.010000
06003AA	COCONUT-COPRA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCONUT-COPRA	21 COOKED-NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCONUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.500000	0.500000		100.00	0.500000
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.500000	0.500000		100.00	0.500000
06004AA	DATES	22 COOKED-FRESH-BAKED	6E3439	P 0.500000	0.500000		100.00	0.500000
06005AA	FIGS	10 RAW-FRESH OR NFS	2E2668	P 0.100000	0.010000		100.00	0.000700
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000700
06006AA	GUAVA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06011AA	PAPAYAS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
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	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		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	3F1370	P 0.050000	0.010000		100.00	0.010000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3F1370	P 0.050000	0.010000		100.00	0.010000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	3F1370	P 0.050000	0.010000		100.00	0.010000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06017DA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06018AA	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	GINNKO 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

Attachment 3 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF --> 10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
06-026AA	BREAD FRUIT	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06-027AA	BREAD NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06-029AA	CARAMBOLA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06-030AA	CHERIMOYA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06-031AA	LONGAN FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06-033AA	GEMIP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
07-001FA	COCOA BUTTER	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07-001SA	CHOCOLATE	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07-001SA	CHOCOLATE	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07-001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
07-002AA	COFFEE	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07-003AA	TEA	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07-006AA	CHICORY	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08-004AA	ANICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-006AA	BASIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-007AA	CARRAMAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-008AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-011AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-012AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-013AA	CORIANDER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-014AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 0.100000	0.100000		100.00	0.100000
08-019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-020AA	HOPS	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08-022AA	HORSERADISH	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08-023AA	ROSEMARY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-026AA	MARJORAM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-026AB	OREGANO	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-028AA	MUSTARD SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08-029AA	MUSTARD SEED	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08-029AB	MUTNEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-035AA	MACE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-036AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-036AB	SAVORY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-042AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-043AA	TURMERIC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-047AA	ALLSPICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08-048AA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.070000
08-049AA	POPPY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10003AA	CASABAS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10004AA	CREMSHANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10007AA	PERSTON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10008AA	WATERMELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED,CORNEED,OR CURED	9F2221	P 0.100000	0.050000		1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		5.00	0.002500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
10017AA	BITTER MELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
11001AA	EGGPLANT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
11003AA	PEPPERS,SWEET	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AA	PEPPERS,SWEET	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	0.500000	P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	0.500000	P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	0.500000	P 0.500000	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	0.500000	P 0.500000	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	0.500000	P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	0.500000	P 0.500000	0.500000		1.00	0.005000

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 10/29/92

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative: 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	STATUS HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
11005RA	TOMATOES-PUREE	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005UA	TOMATOES-CATSUP	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)		P 0.100000	0.500000		1.00	0.005000
13001AA	BEETS-TOPS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13001AA	BEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13003AA	CHICORY	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13005AA	BROCCOLI	21 COOKED-MFS	3E2819	P 2.000000	1.000000		14.00	0.140000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	P 2.000000	1.000000		14.00	0.140000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		22.00	0.220000
13006AA	BRUSSEL SPROUTS	21 COOKED-MFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	10 RAW-FRESH OR MFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	11 RAW-FRESH OR MFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13008AA	CABBAGE	21 COOKED-MFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13009AA	CAULIFLOWER	10 RAW-FRESH OR MFS	3E2819	P 2.000000	1.000000		12.00	0.120000
13009AA	CAULIFLOWER	21 COOKED-CANNED	3E2819	P 2.000000	1.000000		12.00	0.120000
13009AA	COLLARDS	51 COOKED-CANNED	3E2819	P 2.000000	1.000000		17.00	0.170000
13010AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR MFS	3E2819	P 2.000000	1.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-MFS	3E2819	P 2.000000	1.000000		37.00	0.370000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13012AA	KOHLRABI	21 COOKED-MFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR MFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13018AA	ARTICHOKE-GLOBE	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-MFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative. 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PM01 UF -->10 Opp RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
13022AA	PARSLEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	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
13023AA	RHUBARB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	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	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P 1.000000	0.300000		100.00	0.300000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	WATERCRESS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13039AA	CRESS-UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	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	LAMBQUARTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13049AA	GRAPES-LEAVES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13999AA	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
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	0E2387	P 0.500000	0.500000		45.00	0.225000

Attachment 3 (cont.)

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	0E2387	P 0.500000	0.500000		45.00	0.225000
14009AA	ARTICHOXES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14010AA	LEEK	31 COOKED-FRESH OR CANNED	6E3389	P 0.500000	0.500000		100.00	0.500000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	32 COOKED-FRESH-BAKED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	0E2387	P 0.500000	0.500000		46.00	0.230000
14013AA	POTATO(UH)-WHOLE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(UH)-WHOLE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(UH)-WHOLE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AB	POTATO(UH)-UNWPE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(UH)-DRY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(UH)-DRY	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013MA	POTATO(UH)-PEEL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	8E2038	P 3.000000	2.000000		17.00	0.340000
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	P 3.000000	0.500000		100.00	0.500000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	832038	P 3.000000	0.500000		100.00	0.500000
14015AA	RUTABAGAS-ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14016AA	SALSIFY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14018AA	SWEETPOTATOES	21 COOKED-NFS	6F1786	P 0.100000	0.050000		64.00	0.032000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	6F1786	P 0.100000	0.050000		64.00	0.032000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	6F1786	P 0.100000	0.050000		64.00	0.032000
14019AA	TURNIIPS-ROOTS	10 RAW-FRESH OR NFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14019AA	TURNIIPS-ROOTS	21 COOKED-NFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14021AA	PARSHIPS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14024AA	YAMBEAN, TUBER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AA	CASSAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14028AA	YAUTIA, TANNIER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

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CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14031AA	WATER CHESTNUTS	25	COOKED-FRESH-FRIED	6H5505	P 0.100000	100.00	0.005000
15007AA	BEANS-DRY-GRT NO 00	00	NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	1.00	0.000500
15007AB	BEANS-DRY-KIDNEY 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AC	BEANS-DRY-KIDNEY 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15007AD	BEANS-DRY-LIMA 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AE	BEANS-DRY-NAVY 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AF	BEANS-DRY-NAVY 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15007AG	BEANS-DRY-OTHER 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AH	BEANS-DRY-OTHER 25	25	COOKED-FRESH-FRIED	9F2221	P 0.100000	1.00	0.000500
15007AI	BEANS-DRY-OTHER 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15007AJ	BEANS-DRY-PINTO 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AK	BEANS-SUCC-LIMA 10	10	RAW-FRESH OR NFS	9F2221	P 0.100000	1.00	0.000500
15007AL	BEANS-SUCC-LIMA 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AM	BEANS-SUCC-LIMA 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AN	BEANS-SUCC-GREEN 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AO	BEANS-SUCC-OTH 10	10	RAW-FRESH OR NFS	9F2221	P 0.100000	1.00	0.000500
15007AP	BEANS-SUCC-OTH 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AQ	BEANS-SUCC-WAX 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AR	CORN, POP 21	21	COOKED-MFS	6H5505	P 0.100000	1.00	0.000500
15007AS	CORN, SWEET 10	10	RAW-FRESH OR NFS	3F1306	P 0.100000	100.00	0.000500
15007AT	CORN, SWEET 21	21	COOKED-MFS	3F1306	P 0.100000	65.00	0.065000
15007AU	CORN, SWEET 31	31	COOKED-FRESH OR CANNED	3F1306	P 0.100000	65.00	0.065000
15007AV	PEANUTS-WHOLE 10	10	RAW-FRESH OR NFS	9F2193	P 0.500000	26.00	0.052000
15007AW	PEANUTS-WHOLE 21	21	COOKED-MFS	9F2193	P 0.500000	26.00	0.052000
15007AX	PEANUTS-WHOLE 22	22	COOKED-FRESH-BAKED	9F2193	P 0.500000	26.00	0.052000
15007AY	PEAS DRY-GARDEN 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007AZ	PEAS DRY-GARDEN 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15007BA	PEAS SUCC-GARDEN 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15007BB	PEAS SUCC-GARDEN 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15011AA	LENTILES-WHOLE 31	31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	1.00	0.000500
15011AB	LENTILES-SPLIT 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15013AA	MUNG BEANS 10	10	RAW-FRESH OR NFS	9F2221	P 0.100000	1.00	0.000500
15013AB	MUNG BEANS 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15013AC	MUNG BEANS 21	21	COOKED-MFS	9F2221	P 0.100000	1.00	0.000500
15013AD	OKRA 25	25	COOKED-FRESH-FRIED	9F2221	P 0.100000	10.00	0.010000
15013AE	OKRA 10	10	RAW-FRESH OR NFS	2F2588	P 0.250000	10.00	0.010000
15013AF	SUNFLOWER-SEEDS 10	10	RAW-FRESH OR NFS	6H5505	P 0.100000	100.00	0.002500
15020AA	CAROB 10	10	RAW-FRESH OR NFS	6H5505	P 0.100000	100.00	0.005000
15020AB	CAROB 21	21	COOKED-MFS	6H5505	P 0.100000	100.00	0.005000
15020AC	CAROB 22	22	COOKED-FRESH-BAKED	6H5505	P 0.100000	100.00	0.005000
15021AA	ALFALFA SPROUTS 10	10	RAW-FRESH OR NFS	6H5505	P 0.100000	100.00	0.005000
15022AA	BEANS-DRY-BROAD 00	00	NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	1.00	0.000500

Attachment 3 (cont.)

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	OPP RfD= 0.003000 EPA RfD= 0.003000	-->10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15023AA	BEANS-DRY-PIGEON	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15026AA	SESAME SEEDS	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
15027AA	BEANS-UNSPEC	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.000500
15028AA	PINENUTS	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15029AA	PINENUTS	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
15029AA	PINENUTS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
15030AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2220	P 0.500000	0.300000		1.00	0.003000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLUKEYE PEAS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
16002AA	ASPARAGUS	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
16002AA	ASPARAGUS	21 COOKED-MFS	2E2644	P 5.000000	5.000000		1.00	0.000500
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E2644	P 5.000000	5.000000		5.00	0.250000
16003AA	MUSHROOMS	10 RAW-FRESH OR MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	21 COOKED-MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
16004AA	ONIONS-GREEN	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.000500
16007AA	POKE GREENS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
16008AA	BAMBOO SHOOTS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24001AA	BARLEY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24002EA	CORN, GRAIN-ENDO	21 COOKED-MFS	3F1306	P 0.100000	0.005000		12.00	0.000500
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	21 COOKED-MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24003AA	OATS	21 COOKED-MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000

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DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HEP complete 2/21/86. EPA verified 3/11/86. HEP reassess 3/04/88. WHO last reviewed 1982. 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)
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-FLOUR	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.750000	0.005000		5.00	0.037500
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	21 COOKED-FRS	3F2947	A 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P 0.400000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	A 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.090000		100.00	0.090000
24007HA	WHEAT-BRAN	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	21 COOKED-FRS	3F2947	A 0.400000	0.090000		100.00	0.090000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.090000		100.00	0.090000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	21 COOKED-FRS	3F2947	A 0.400000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	3F2947	A 0.400000	0.005000		100.00	0.005000
24012AA	MILLET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24012AA	MILLET	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	21 COOKED-FRS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25002SA	BET SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.005000
25002SA	BET SUGAR	21 COOKED-FRS	2F2684	P 1.000000	1.000000		25.00	0.250000

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 14

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
25002SA	BEEF SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEF SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.005000		100.00	0.005000
270010A	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		100.00	0.005000
270020A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		1.00	0.005000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	1M5323	P 3.000000	3.000000		12.00	0.360000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
27003AA	COTTONSEED-MEAL	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
27004AA	FLAX SEED	18 PROCESSED OIL	9M5226	P 1.500000	0.400000		26.00	0.104000
270070A	PEANUTS-OIL	18 PROCESSED OIL	6M5505	P 0.100000	0.005000		100.00	0.005000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
270080A	SAFFLOWER-OIL	18 PROCESSED OIL	6M5505	P 0.100000	0.005000		100.00	0.005000
270090A	SESAME-OIL	18 PROCESSED OIL	6M5505	P 0.100000	0.005000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.003000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P 0.250000	0.005000		1.00	0.002500
270150A	COCONUT-OIL	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	51 COOKED-CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
270160A	OLIVE OIL	18 PROCESSED OIL	6M5505	P 0.100000	0.005000		100.00	0.005000
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
270190A	PALM OIL	18 PROCESSED OIL	6M5505	P 0.100000	0.005000		100.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P 0.500000	0.300000		1.00	0.003000

Attachment 3 (cont.)

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Cassell #219AA CAS No. 2921-80-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MED complete 2/21/86. EPA verified 3/11/86. MED reassess 3/04/88. WHO last reviewed 1982. 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)
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023NA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MB	SOY-FL, LOW FAT	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023MC	SOY-FL, DEFAT	10 RAW-FRESH OR MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAT	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023BC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023CC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023DC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
28024AB	ORNTL MOLEAF VEG	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
28040AA	SEEDS-OTHER	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	8.000000C		100.00	1.000000
28080BA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	8.000000C		100.00	8.000000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	1.000000		100.00	1.000000
28081BA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	8.000000C		100.00	8.000000
43057AA	VINEGAR	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
43057BA	VINEGAR	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR MFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43058BA	WINE AND SHERRY	21 COOKED-MFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43059AA	DIST ALCOHOL	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
500000A	MILK-NON-FAT SOL	10 RAW-FRESH OR MFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-MFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000C	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR MFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
50000FB	MILK-FAT SOLIDS	21 COOKED-MFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	P 0.500000	0.500000C		100.00	0.500000
50000SA	MILK SUG (LACT)	21 COOKED-MFS	0F2281	P 0.020000	0.020000		100.00	0.020000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
53001BA	BEEF-MEAT BYP	21 COOKED-MFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BB	BEEF-OTH ORGAN	21 COOKED-MFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001DA	BEEF-DRIED	21 COOKED-MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	10 RAW-FRESH OR MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	21 COOKED-MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 10/29/92

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-86-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative: 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001KA	BEEF-KIDNEY	21 COOKED-MFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001MA	BEEF-LEAN	10 RAW-FRESH OR MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	21 COOKED-MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	0.250000		100.00	0.250000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.005000		100.00	0.005000
53004AA	RABBIT	21 COOKED-MFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53004AA	RABBIT	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BB	SHEEP-OTH ORGAN	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005KA	SHEEP-KIDNEY	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53006BA	PORK-MEAT BYP	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGAN	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006KA	PORK-KIDNEY	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 17

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF --> 10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. 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)
53006AA	PORK-LEAN	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006AA	PORK-LEAN	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53010AA	FISH-UNSPEC	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53014AA	MEAT,GAME	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53014AA	MEAT,GAME	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE,CAVIAR	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE,CAVIAR	51 COOKED-CANNED	6W5505	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH,FIN-FRESH	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH,FIN-FRESH	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH,FIN-SALT	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53017DA	FISH,FIN-SLT-DRY	12 RAW-FRESH-DRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
53017DA	FISH,FIN-SLT-DRY	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
550008A	TURKEY-BYP	21 COOKED-NFS	6F1673	P 0.500000	0.005000C		100.00	0.005000
550008A	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	6F1673	P 0.500000	0.005000C		100.00	0.005000
55008LA	TURKEY ORGAN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MB	TURKEY+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY,OTHER	25 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000

Attachment 3 (cont.)

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlordyris Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.00 ppm 0.1000 mg/kg 0.00 ppm ONCO: Negative - 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RFD= 0.003000 EPA RFD= 0.003000	New chronic/onco rat study has been reviewed; RFD to be reevaluated.	HED complete 2/21/86. EPA verified 3/11/86. HED reassess 3/04/88. WHO last reviewed 1982. On IRIS.

POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**			ARC	ZMFD
U.S. POPULATION - 48 STATES	0.010737	0.011302	376.723733	18.811000	0.001443	48.00753
U.S. POPULATION - SPRING SEASON	0.010454	0.011002	366.728867	18.265833	0.001389	46.29600
U.S. POPULATION - SUMMER SEASON	0.010364	0.010913	363.762033	18.285500	0.001415	47.16253
U.S. POPULATION - FALL SEASON	0.011059	0.011642	388.064267	19.424767	0.001484	49.45867
U.S. POPULATION - WINTER SEASON	0.010931	0.011509	383.619467	19.268333	0.001437	47.90067
NORTHEAST REGION	0.011695	0.012204	409.448567	19.627133	0.001479	49.29497
NORTH CENTRAL REGION	0.010575	0.011162	372.079933	19.567833	0.001465	48.82683
SOUTHERN REGION	0.009719	0.010258	341.928967	17.952200	0.001356	45.20550
WESTERN REGION	0.011253	0.011796	393.187400	18.089633	0.001447	48.24797
HISPANICS	0.012624	0.012964	432.147767	18.003900	0.001600	53.34553
NON-HISPANIC WHITES	0.010405	0.011182	372.722067	19.207367	0.001408	46.92517
NON-HISPANIC BLACKS	0.010283	0.010785	359.511300	16.736467	0.001475	49.15953
NON-HISPANIC OTHERS	0.012724	0.013261	442.046333	17.898900	0.001672	55.71863
NURSING INFANTS (< 1 YEAR OLD)	0.015014	0.015182	506.069333	5.611200	0.001350	45.00890
NON-NURSING INFANTS (< 1 YEAR OLD)	0.026864	0.027277	909.227333	13.757567	0.003588	119.61430
FEMALES (13+ YEARS, PREGNANT)	0.007832	0.008241	276.694133	13.632367	0.001040	34.67020
FEMALES 13+ YEARS, NURSING	0.008612	0.009121	304.023833	16.948267	0.001188	39.60257
CHILDREN (1-6 YEARS OLD)	0.024440	0.025702	856.735900	42.060833	0.003159	105.29140
CHILDREN (7-12 YEARS OLD)	0.015262	0.016185	539.508033	30.766300	0.002141	71.37630
MALES (13-19 YEARS OLD)	0.010147	0.010808	360.273400	22.028333	0.001494	49.79820
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.008811	0.009315	310.498100	16.787567	0.001218	40.58910
MALES (20 YEARS AND OLDER)	0.008028	0.008477	282.558200	14.972400	0.001125	37.49570
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.007831	0.008203	273.421333	12.371667	0.000981	32.68637

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

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

DATE: 02/16/93

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAP/COMMENTS	STATUS
Chlorpyrifos Cassell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF --> 10 OPP RfD = 0.003000 EPA RfD = 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WMO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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	7E3557	P	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	P	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P	1.000000		100.00	1.000000
01003AA	BOTSEBERRIES	10 RAW-FRESH OR NFS	7E3557	P	1.000000		100.00	1.000000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P	1.000000		100.00	1.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	P	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	P	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	P	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P	1.000000		100.00	1.000000
01006AA	RASPBERRIES	70 RAW-FROZEN	7E3557	P	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	P	1.000000		100.00	0.005000
01009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	P	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7E3466	P	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	P	1.000000		100.00	1.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P	1.000000		100.00	1.000000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P	1.000000		31.00	1.000000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P	1.000000		31.00	0.310000
01010JA	CRANBERRY - JUICE	15 RAW-FRESH OR CANNED	2E2682	P	1.000000		31.00	0.310000
01010JA	CRANBERRY - JUICE	31 COOKED-FRESH OR CANNED	2E2682	P	1.000000		31.00	0.310000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	6W5505	P	1.000000		100.00	1.000000
01011AA	CURRENTS	21 COOKED-NFS	6W5505	P	0.100000		100.00	0.005000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	6W5505	P	0.100000		100.00	0.005000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	6W5505	P	0.100000		100.00	0.005000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6W5505	P	0.100000		100.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	2E2584	P	0.500000		100.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	P	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	P	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	2E2584	P	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	22 COOKED-NFS	2E2584	P	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	62 COOKED-FRESH-BAKED	2E2584	P	0.500000		1.00	0.005000
01014JA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P	0.500000		1.00	0.005000
01014JA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	P	0.500000		1.00	0.005000
01014JA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P	0.500000		1.00	0.005000
01014JA	GRAPES-RAISINS	15 RAW-FRESH OR CANNED	2E2584	P	0.500000		1.00	0.005000
01014JA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P	0.500000		1.00	0.005000
01015AA	MUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P	0.500000		1.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2283	P	0.100000		100.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2283	P	0.500000		5.00	0.005000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	P	0.500000		5.00	0.005000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	N	-0.300000		5.00	0.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-80-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species. Inadequate.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN YAS RUN (ppm)
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN		M -0.300000	0.000000		5.00	0.000000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	N 0.100000	0.005000		100.00	0.005000
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
02001AA	CITRUS CITRUS	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	21 COOKED-NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02005HA	LIMES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.019500
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.200000	PROCESS. STUDY	16.00	0.032000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		16.00	0.032000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.136000
03005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.136000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		69.00	0.136000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOTTLED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.200000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.005000
04001AA	APPLES-FRESH	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.035000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.100000C	PROCESS. STUDY	35.00	0.035000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.035000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	N -0.040000	0.000000		54.00	0.000000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR FROZEN	6F1786	N -0.040000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1786	P 0.050000	0.010000		54.00	0.000000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	N -0.040000	0.000000		54.00	0.000000
04003AA	PEARS-FRESH	62 COOKED-FRESH OF FROZEN-BAKED	6F1786	N -0.040000	0.010000		54.00	0.005400

Attachment 5 (cont.)

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PAD1 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS MND last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
040030A	PEARS-DRIED	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
040030A	PEARS-DRIED	10 RAW-FRESH OR NFS		M -0.040000	0.000000		54.00	0.000000
040030A	PEARS-DRIED	21 COOKED-NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04004AA	QUINCES	21 COOKED-NFS		M -0.040000	0.000000		54.00	0.000000
05001AA	APRICOTS-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	1E2529	P 2.000000	1.000000		4.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS		M -1.000000	0.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.000000
05002AA	CHERRIES-FRESH	21 COOKED-NFS		M -1.000000	0.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.000000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED		M -1.000000	0.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1E2529	P 2.000000	1.000000		4.00	0.000000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED		M -1.000000	0.000000		4.00	0.040000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 2.000000	1.000000		4.00	0.000000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)		M -1.000000	0.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.000000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED		M -1.000000	0.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.000000
05002JA	CHERRIES-JUICE	21 COOKED-NFS		M -1.000000	0.000000		4.00	0.040000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.000000
05003AA	NECTARINES	10 RAW-FRESH OR NFS		M -0.040000	0.000000		6.00	0.000000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.000000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		60.00	0.000000
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.000000
05004AA	PEACHES-FRESH	21 COOKED-NFS		M -0.040000	0.000000		60.00	0.000000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1306	P 0.050000	0.010000		60.00	0.000000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED		M -0.040000	0.000000		60.00	0.000000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	3F1306	P 0.050000	0.010000		60.00	0.000000
05004AA	PEACHES-FRESH	51 COOKED-CANNED		M -0.040000	0.000000		60.00	0.000000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.000000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS		M -0.040000	0.000000		60.00	0.000000
05004DA	PEACHES-DRIED	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.000000
05004DA	PEACHES-DRIED	21 COOKED-NFS		M -0.040000	0.000000		60.00	0.000000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		9.00	0.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PAOI UF -->10	OPP RfD= 0.003000 EPA RfD= 0.003000		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.			New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88.

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	6F1786	P 0.050000	0.010000		9.00	0.000900
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED		N -0.040000	0.000000		9.00	0.000000
05005DA	PLUMS-PRIMES	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRIMES	21 COOKED-NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRIMES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.000900
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.000900
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	N 0.040000	0.010000		100.00	0.005000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED		N -0.040000	0.000000		100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.000000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS		N -0.040000	0.000000		100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.000000
06002AB	BANANAS-FRESH	21 COOKED-NFS		N -0.040000	0.000000		100.00	0.010000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F1370	P 0.050000	0.010000		100.00	0.000000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED		N -0.040000	0.000000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.000000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS		N -0.040000	0.000000		100.00	0.010000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.000000
06002DA	BANANAS-DRIED	21 COOKED-NFS		N -0.040000	0.000000		100.00	0.010000
06003AA	COCONUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCONUT-COPRA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCONUT-COPRA	21 COOKED-NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCONUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.300000	0.300000		100.00	0.300000
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.300000	0.300000		100.00	0.300000
06004AA	DATES	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700
06004AA	DATES	21 COOKED-NFS		N -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000000
06005AA	FIGS	10 RAW-FRESH OR NFS		N -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	10 RAW-FRESH OR NFS		N -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	21 COOKED-NFS		N -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	22 COOKED-FRESH-BAKED		N -0.090000	0.000000		7.00	0.000000
06006AA	GUJAVA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUJAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUJAVA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-80-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/86. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
06008AA	LOQUATS	6H5505	P	0.100000	0.005000	100.00	0.005000
06009AA	OLIVES	6H5505	P	0.100000	0.005000	100.00	0.005000
06009AA	OLIVES	6H5505	P	0.100000	0.005000	100.00	0.005000
06009AA	OLIVES	6H5505	P	0.100000	0.005000	100.00	0.005000
06010AA	PAPAYAS-UMSPEC	6H5505	P	0.100000	0.005000	100.00	0.005000
06010AB	PAPAYAS-PULP	6H5505	P	0.100000	0.005000	100.00	0.005000
06010AB	PAPAYAS-PULP	6H5505	P	0.100000	0.005000	100.00	0.005000
06010DA	PAPAYAS-DRIED	6H5505	P	0.100000	0.005000C	100.00	0.005000
06010JA	PAPAYAS-JUICE	6H5505	P	0.100000	0.005000C	100.00	0.005000
06011AA	PAPAYAS	6H5505	P	0.100000	0.005000	100.00	0.005000
06012AA	PERSIMMONS	6H5505	P	0.100000	0.005000	100.00	0.005000
06013AA	PINEAPPLE-PULP	6H5505	P	0.100000	0.005000	100.00	0.005000
06013AA	PINEAPPLE-PULP	6H5505	P	0.100000	0.005000	100.00	0.005000
06013AA	PINEAPPLE-PULP	6H5505	P	0.100000	0.005000	100.00	0.005000
06013DA	PINEAPPLE-DRIED	6H5505	P	0.100000	0.005000C	100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P	0.100000	0.005000C	100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P	0.100000	0.005000C	100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P	0.100000	0.005000C	100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P	0.100000	0.005000C	100.00	0.005000
06014AA	PASSION FRUIT	6H5505	P	0.100000	0.005000	100.00	0.005000
06015AA	POMEGRANATES	6H5505	P	0.100000	0.005000	100.00	0.005000
06015AA	POMEGRANATES	6H5505	P	0.100000	0.005000	100.00	0.005000
06016AA	PLANTAINS	6H5505	P	0.100000	0.005000	100.00	0.005000
06016AA	PLANTAINS	3F1370	P	0.050000	0.010000	100.00	0.010000
06016AA	PLANTAINS	3F1370	P	0.050000	0.010000	100.00	0.010000
06017AA	LYCHEES	6H5505	P	0.100000	0.005000	100.00	0.005000
06017DA	LYCHEE-DRIED	6H5505	P	0.100000	0.005000C	100.00	0.005000
06018AA	KIWI	3E2766	P	2.000000	2.000000	100.00	2.000000
06020AA	ACEROLA	6H5505	P	0.100000	0.005000	100.00	0.005000
06021AA	GINKGO NUTS	6H5505	P	0.100000	0.005000	100.00	0.005000
06022AA	MAIZE	6H5505	P	0.100000	0.005000	100.00	0.005000
06023AA	PITANGA	6H5505	P	0.100000	0.005000	100.00	0.005000
06024AA	SOURSOP	6H5505	P	0.100000	0.005000	100.00	0.005000
06025AA	SUGAR APPLES	6H5505	P	0.100000	0.005000	100.00	0.005000
06026AA	BREAD FRUIT	6H5505	P	0.100000	0.005000	100.00	0.005000
06027AA	BREAD NUTS	6H5505	P	0.100000	0.005000	100.00	0.005000
06029AA	CARAMBOLA	6H5505	P	0.100000	0.005000	100.00	0.005000
06030AA	CHERIMOYA	6H5505	P	0.100000	0.005000	100.00	0.005000
06031AA	LONGAN FRUIT	6H5505	P	0.100000	0.005000	100.00	0.005000
06033AA	GENIP	6H5505	P	0.100000	0.005000	100.00	0.005000

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 Species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF --> 10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/86.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
07001FA	COCOA BUTTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	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
07002AA	CHOCOLATE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
07002AA	COFFEE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07003AA	TEA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07006AA	CHICORY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08004AA	ANICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08006AA	BASIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08007AA	CARRAWAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08008AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08011AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08012AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08013AA	CORIANDE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08014AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 0.100000	0.100000		100.00	0.100000
08020AA	HOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08022AA	HORSERADISH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08023AA	ROSEMARY	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AA	MARJORAM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AB	OREGANO	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AA	NUTMEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AB	MACE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08035AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08036AA	SAVORY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08038AA	BAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08042AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08043AA	TUMERIC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08047AA	ALLSPICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08048AA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08049AA	POPPY	1E2523	6H5505	P 1.000000	1.000000		100.00	0.005000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10003AA	CASABAS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-86-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF --> 10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. HED complete 02/21/86. EPA verified 03/11/86. HED complete 03/04/88. 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)
10007AA	PERSON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)		P	0.100000		100.00	0.005000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10009AA	WATERMELON	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	P	0.100000		1.00	0.000500
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	P	0.050000		1.00	0.000500
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9F2221	P	0.100000		1.00	0.000500
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9F2221	P	0.050000		1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P	0.100000		1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P	0.050000		1.00	0.000500
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P	0.100000		1.00	0.000500
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P	0.050000		1.00	0.000500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P	0.100000		5.00	0.002500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P	0.050000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P	0.100000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P	0.050000		5.00	0.002500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	P	0.100000		5.00	0.002500
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
10017AA	BITTER MELON	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10020AA	TOMELGOLD	00 NOT SPECIFIED (NO CONSUMPTION)		P	0.100000		100.00	0.005000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
11001AA	EGGPLANT	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	6H5505	P	0.100000		100.00	0.005000
11003AA	PEPPERS-SWEET	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
11003AA	PEPPERS-SWEET	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
11003AB	CHILLI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	21 COOKED-NFS	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P	1.000000		7.00	0.070000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		P	0.500000		7.00	0.070000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		P	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS		P	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS		P	0.500000		1.00	0.005000

Attachment 5 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PM1 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
11005RA	TOMATOES-PUREE	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED		P 0.500000	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005UA	TOMATOES-CATSUP	21 COOKED-MFS		P 0.500000	0.500000		1.00	0.005000
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)		P 0.100000	0.005000		100.00	0.005000
13001AA	BEEETS-TOPS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13001AA	BEEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13002AA	CELERY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13003AA	CHICORY	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13005AA	BROCCOLI	21 COOKED-MFS	3E2819	P 2.000000	1.000000		14.00	0.005000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	M -1.000000	0.000000		14.00	0.000000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	M 2.000000	1.000000		14.00	0.000000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	M -1.000000	0.000000		14.00	0.000000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	M 2.000000	1.000000		14.00	0.000000
13006AA	BRUSSEL SPROUTS	21 COOKED-MFS	3E2819	M -1.000000	0.000000		14.00	0.000000
13006AA	BRUSSEL SPROUTS	21 COOKED-MFS	3E2819	M 2.000000	1.000000		22.00	0.000000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3E2819	M -1.000000	0.000000		22.00	0.000000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3E2819	M 2.000000	1.000000		22.00	0.000000
13007AA	CABBAGE	10 RAW-FRESH OR MFS	3E2819	M -1.000000	0.000000		22.00	0.000000
13007AA	CABBAGE	10 RAW-FRESH OR MFS	3E2819	M 2.000000	1.000000		13.00	0.000000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED,CORMED,OR CURED	3E2819	M -1.000000	0.000000		13.00	0.000000
13007AA	CABBAGE	21 COOKED-MFS	3E2819	M 2.000000	1.000000		13.00	0.000000
13007AA	CABBAGE	21 COOKED-MFS	3E2819	M -1.000000	0.000000		13.00	0.000000
13007AA	CABBAGE	21 COOKED-MFS	3E2819	M 2.000000	1.000000		13.00	0.000000
13008AA	CAULIFLOWER	10 RAW-FRESH OR MFS	3E2819	M -1.000000	0.000000		12.00	0.000000
13008AA	CAULIFLOWER	10 RAW-FRESH OR MFS	3E2819	M 2.000000	1.000000		12.00	0.000000
13008AA	CAULIFLOWER	21 COOKED-MFS	3E2819	M -1.000000	0.000000		12.00	0.000000
13008AA	CAULIFLOWER	21 COOKED-MFS	3E2819	M 2.000000	1.000000		12.00	0.000000
13009AA	COLLARDS	51 COOKED-CANNED	3E2819	M -1.000000	0.000000		17.00	0.000000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		17.00	0.000000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR MFS	3E2819	M -1.000000	0.000000		37.00	0.000000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR MFS	3E2819	M 2.000000	1.000000		37.00	0.000000
13010AA	CABBAGE-CHINESE	21 COOKED-MFS	3E2819	M -1.000000	0.000000		37.00	0.000000
13010AA	CABBAGE-CHINESE	21 COOKED-MFS	3E2819	M 2.000000	1.000000		37.00	0.000000

Attachment 5 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13012AA	KOHLRABI	21 COOKED-WFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13018AA	ARTICHOKE-GLOBE	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13020AA	LETTUCE-UMSPEC	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-WFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13022AA	PARSLEY	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	21 COOKED-WFS	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 WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR WFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR WFS	0E2411	M -0.700000	0.000000		100.00	0.000000
13026AA	TURNIPS-TOPS	21 COOKED-WFS	0E2411	M -0.700000	0.000000		100.00	0.000000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	M -0.700000	0.000000		100.00	0.000000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	0E2411	M -0.700000	0.000000		100.00	0.000000
13027AA	WATERCRESS	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	WATERCRESS	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13039AA	CRESS,UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13047AA	LAMBQUARTER	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13049AA	GRAPES-LEAVES	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MRD last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
1399AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)						
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
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	00 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	0E2387	P 0.500000	0.500000		100.00	0.005000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14010AA	LEEKS	31 COOKED-FRESH OR FROZEN	6E3389	P 0.200000	0.200000		100.00	0.200000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	12 RAW-FRESH-DRIED	0E2387	P 0.500000	0.500000		46.00	0.230000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	0E2038	P 3.000000	2.000000		17.00	0.340000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	832038	P 3.000000	0.500000		100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	P -2.500000	0.000000		100.00	0.000000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	832038	P 3.000000	0.500000		100.00	0.500000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. Code: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 ppm 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14015AA	RUTABAGAS-ROOTS	21	COOKED-NFS	0.000000		100.00	0.000000
14015AB	RUTABAGAS-TOPS	00	NOT SPECIFIED (NO CONSUMPTION)	0.100000		100.00	0.005000
14016AA	SALSIFY	21	COOKED-NFS	0.100000		100.00	0.005000
14017AA	SHALLOTS	00	NOT SPECIFIED (NO CONSUMPTION)	0.100000		100.00	0.005000
14018AA	SWEET POTATOES	21	COOKED-NFS	0.050000		64.00	0.032000
14018AA	SWEET POTATOES	31	COOKED-FRESH OR CANNED	0.000000		64.00	0.000000
14018AA	SWEET POTATOES	31	COOKED-FRESH OR CANNED	0.050000		64.00	0.032000
14018AA	SWEET POTATOES	51	COOKED-CANNED	0.000000		64.00	0.000000
14019AA	TURNIPS-ROOTS	10	RAW-FRESH OR NFS	0.000000		64.00	0.000000
14019AA	TURNIPS-ROOTS	10	RAW-FRESH OR NFS	1.000000		100.00	1.000000
14019AA	TURNIPS-ROOTS	21	COOKED-NFS	0.000000		100.00	0.000000
14021AA	PARSNIPS	21	COOKED-NFS	0.000000		100.00	0.000000
14024AA	YAMBEAN, TUBER	21	COOKED-NFS	0.005000		100.00	0.005000
14026AA	CASSAVA	21	COOKED-FRESH-BOILED	0.005000		100.00	0.005000
14026AA	CASSAVA	23	COOKED-FRESH-BOILED	0.005000		100.00	0.005000
14026AB	TAPIOCA	10	RAW-FRESH OR NFS	0.005000		100.00	0.005000
14026AB	TAPIOCA	31	COOKED-FRESH OR CANNED	0.005000		100.00	0.005000
14028AA	YAUTIA, TANNIER	21	COOKED-NFS	0.100000		100.00	0.005000
14030AA	PARSLEY ROOTS	00	NOT SPECIFIED (NO CONSUMPTION)	0.100000		100.00	0.005000
14031AA	WATER CHESTNUTS	21	COOKED-NFS	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	25	COOKED-FRESH-FRIED	0.005000		100.00	0.005000
15001AA	BEANS-DRY-GRY NO	00	NOT SPECIFIED (NO CONSUMPTION)	0.050000		1.00	0.005000
15001AA	BEANS-DRY-GRY NO	00	NOT SPECIFIED (NO CONSUMPTION)	0.000000		1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	21	COOKED-NFS	0.050000		1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	21	COOKED-NFS	0.000000		1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	0.000000		1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	0.050000		1.00	0.000000
15001AC	BEANS-DRY-LIMA	21	COOKED-NFS	0.000000		1.00	0.000000
15001AC	BEANS-DRY-LIMA	21	COOKED-NFS	0.050000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	21	COOKED-NFS	0.000000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	21	COOKED-NFS	0.050000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	31	COOKED-FRESH OR CANNED	0.000000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	31	COOKED-FRESH OR CANNED	0.050000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	21	COOKED-NFS	0.000000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	21	COOKED-NFS	0.050000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	25	COOKED-FRESH-FRIED	0.000000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	25	COOKED-FRESH-FRIED	0.050000		1.00	0.000000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg LEL= 0.00 ppm 0.000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000000
15001AF	BEANS-DRY-PINTO	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-PINTO	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR MFS	9F2221	P 0.050000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000
15002AA	BEANS-SUCC-LIMA	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AA	BEANS-SUCC-GREEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AA	BEANS-SUCC-GREEN	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AC	BEANS-SUCC-MAX	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-MAX	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AC	BEANS-SUCC-MAX	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-MAX	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15004AA	CORN, POP	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000500
15005AA	CORN, SWEET	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.000000
15005AA	CORN, SWEET	21 COOKED-MFS	3F1306	P 0.100000	0.100000		65.00	0.005000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	3F1306	P 0.100000	0.100000		65.00	0.065000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.100000		65.00	0.065000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR MFS	9F2193	P 0.500000	0.200000		26.00	0.065000
15006AA	PEANUTS-WHOLE	21 COOKED-MFS		M -0.300000	0.000000		26.00	0.000000
15006AA	PEANUTS-WHOLE	21 COOKED-MFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED		M -0.300000	0.000000		26.00	0.000000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2193	P 0.500000	0.200000		26.00	0.052000
15007AA	PEAS DRY-GARDEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		26.00	0.000000
15007AA	PEAS DRY-GARDEN	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000500
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000000
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000000
15009AA	PEAS SUCC-GARDEN	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000000
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000500
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.000000		1.00	0.000000
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000000
15011AB	LENTILS-SPLIT	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.000000		1.00	0.000000
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS		M -0.050000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000

Attachment 5 (cont.)

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	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative. 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
15013AA	MUNG BEANS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	21 COOKED-NFS		M -0.050000	0.000000		1.00	0.000000
15015AA	OKRA	21 COOKED-NFS	9F2221	P 0.100000	0.100000		10.00	0.010000
15015AA	OKRA	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.100000		10.00	0.010000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	2F2588	P 0.250000	0.250000		1.00	0.002500
15020AA	CAROB	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	10 RAW-FRESH OR NFS		M -0.050000	0.000000		100.00	0.000000
15020AA	CAROB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	21 COOKED-NFS		M -0.050000	0.000000		100.00	0.000000
15020AA	CAROB	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	22 COOKED-FRESH-BAKED		M -0.050000	0.000000		100.00	0.000000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS		M -0.050000	0.000000		1.00	0.000000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.000000		1.00	0.000000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.000000
15027AA	BEANS-UMSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.005000		100.00	0.005000
15027AA	BEANS-UMSPEC	21 COOKED-NFS		M -0.050000	0.050000		1.00	0.000500
15028AA	PINENUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.000000		1.00	0.000000
15028AA	PINENUTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
15029AA	SOYBEAM-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.500000	0.300000		1.00	0.003000
15029AA	SOYBEAM-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.200000	0.000000		1.00	0.000000
15036AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15036AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS		M -0.050000	0.000000		1.00	0.000000
15032AA	BEANS-DRY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 COOKED-NFS		M -0.050000	0.000000		1.00	0.000000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000000
16002AA	ASPARAGUS	21 COOKED-NFS	2E2644	P 5.000000	5.000000		1.00	0.000000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOTTLED	2E2644	P 5.000000	5.000000		5.00	0.250000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	21 COOKED-NFS	3E2886	P 0.100000	0.100000		100.00	0.100000

CHEMICAL	STUDY TYPE	EFFECTS		REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
		Human 20 day feeding	Decreased plasma ChE.			
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	OPP RfD= 0.003000 EPA RfD= 0.003000	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)
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-NFS	3F1306	P 0.100000	0.005000		100.00	0.005000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	3F1306	M -0.050000	0.000000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	21 COOKED-NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	21 COOKED-NFS	3F1306	P 0.100000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.000000		12.00	0.000000
24003AA	OATS	21 COOKED-NFS	6H5505	M -0.050000	0.000000		12.00	0.000000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005VA	RYE-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		5.00	0.037500
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
24007AA	WHEAT-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	3F2947	M 0.400000	0.034000		100.00	0.034000
24007JA	WHEAT-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	3F2947	M 0.400000	0.034000		100.00	0.034000
24007JA	WHEAT-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	3F2947	M 0.400000	0.034000		100.00	0.034000
24007NA	WHEAT-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	3F2947	M 0.400000	0.034000		100.00	0.034000
24007NA	WHEAT-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	3F2947	M 0.400000	0.034000		100.00	0.034000
24012AA	MILLET	6H5505	P 0.100000	0.005000		100.00	0.005000
24012AA	MILLET	3F2947	M 0.400000	0.034000		100.00	0.034000
25001AA	HONEY	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	3F2947	M 0.400000	0.034000		100.00	0.034000
25001AA	HONEY	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	3F2947	M 0.400000	0.034000		100.00	0.034000
25002SA	BEEF SUGAR	6H5505	P 0.100000	0.005000		100.00	0.005000
25002SA	BEEF SUGAR	3F2947	M 0.400000	0.034000		100.00	0.034000
25002SA	BEEF SUGAR	6H5505	P 0.100000	0.005000		100.00	0.005000
25002SA	BEEF SUGAR	3F2947	M 0.400000	0.034000		100.00	0.034000
25003SA	CANE SUGAR	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	3F2947	M 0.400000	0.034000		100.00	0.034000
25003SA	CANE SUGAR	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	3F2947	M 0.400000	0.034000		100.00	0.034000
25003SB	SUGAR-MOLASSES	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	3F2947	M 0.400000	0.034000		100.00	0.034000
25003SB	SUGAR-MOLASSES	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	3F2947	M 0.400000	0.034000		100.00	0.034000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
26011AA	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		100.00	0.005000
270010A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	1H5323	P 3.000000	3.000000C		12.00	0.005000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	M -0.300000	0.000000		2.00	0.000000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	M -0.300000	0.000000		2.00	0.000000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9H5226	P 1.500000	0.400000C		26.00	0.104000
270070A	PEANUTS-OIL	18 PROCESSED OIL	6H5505	M -1.100000	0.000000		26.00	0.000000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000C		100.00	0.005000
27008AA	SAFFLOWER-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270090A	SESAME-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	6H5505	M -0.200000	0.000000		1.00	0.003000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	M -0.250000	0.250000		1.00	0.002500
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	6H5505	M -0.150000	-0.245000		1.00	-0.002450
270150A	COCONUT-OIL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
270160A	OLIVE OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270190A	PALM OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
26023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
26023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	6H5505	M -0.200000	0.000000		1.00	0.000000
26023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
26023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	6H5505	M -0.200000	0.000000		1.00	0.000000
26023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
26023AB	SOYBEANS-DRY	21 COOKED-NFS	6H5505	M -0.200000	0.000000		1.00	0.000000
26023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
26023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	6H5505	M -0.200000	0.000000		1.00	0.000000
26023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P 0.500000	0.300000		1.00	0.003000
26023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	6H5505	M -0.200000	0.000000		1.00	0.000000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 02/16/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PIAD1	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	OPP Rfd= 0.003000 EPA Rfd= 0.003000	UF -->10	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED		M -0.200000	0.000000		1.00	0.000000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED		M -0.200000	0.000000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	21 COOKED-MFS		M -0.200000	0.000000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED		M -0.200000	0.000000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED		M -0.200000	0.000000		1.00	0.000000
28023AB	SOY-FL, LOW FAT	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOY-FL, LOW FAT	21 COOKED-MFS		M -0.200000	0.000000		1.00	0.000000
28023AC	SOY-FL, DEFAF	10 RAW-FRESH OR MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAF	10 RAW-FRESH OR MFS		M -0.200000	0.000000		1.00	0.000000
28023AC	SOY-FL, DEFAF	21 COOKED-MFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAF	21 COOKED-MFS		M -0.200000	0.000000		1.00	0.000000
28023AC	SOY-FL, DEFAF	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAF	22 COOKED-FRESH-BAKED		M -0.200000	0.000000		1.00	0.000000
28023AC	SOY-FL, DEFAF	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAF	51 COOKED-CANNED		M -0.200000	0.000000		1.00	0.000000
28023AC	SOY-FL, DEFAF	53 COOKED-CANNED-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAF	53 COOKED-CANNED-BOILED		M -0.200000	0.000000		1.00	0.000000
28024AB	ORNTL MEXLEAF VEG	21 COOKED-MFS		M -0.200000	0.000000		1.00	0.000000
28040AA	SEEDS-OTHER	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 1.000000	0.005000		100.00	0.005000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	8.000000C		100.00	8.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		M -2.000000	0.000000C		100.00	0.000000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	1.000000		100.00	1.000000
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	8.000000C		100.00	8.000000
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		M -2.000000	0.000000C		100.00	0.000000
43057AA	VINEGAR	21 COOKED-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43057AA	VINEGAR	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR MFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43058AA	WINE AND SHERRY	21 COOKED-MFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43059AA	DIST ALCOHOL	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR MFS	0F2281	P 0.020000	-0.010000		100.00	-0.010000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR MFS		M -0.010000	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-MFS	0F2281	P 0.020000	-0.010000		100.00	-0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-MFS		M -0.010000	0.020000		100.00	0.020000

Attachment 5 (cont.)

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PAD1 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. WED complete 02/21/86. EPA verified 03/11/86. WED complete 03/04/88. 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)
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	M -0.010000	-0.010000		100.00	-0.010000
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	M -0.250000	-0.250000C		100.00	-0.250000
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	M -0.250000	-0.250000C		100.00	-0.250000
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	M -0.250000	-0.250000C		100.00	-0.250000
500000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	M -0.010000	-0.010000		100.00	-0.010000
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	M -0.010000	-0.010000		100.00	-0.010000
530018A	BEEF-MEAT BYPROD	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	-0.010000
530018A	BEEF-MEAT BYPROD	21 COOKED-NFS	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
530018A	BEEF-DRIED	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.000000
530018A	BEEF-DRIED	21 COOKED-NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M -1.700000	0.000000	3F02884	100.00	0.200000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.000000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.050000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 20

DATE: 02/16/93

STATUS
 WHO last reviewed 1982.
 MED complete 02/21/86.
 EPA verified 03/11/86.
 MED complete 03/04/88.
 On IRIS.

DATA GAPS/COMMENTS
 New chronic/onco rat
 study has been reviewed;
 RfD to be reevaluated.

REFERENCE DOSES
 PAD1 UF -->10
 OPP RfD= 0.003000
 EPA RfD= 0.003000

EFFECTS
 Decreased plasma CHE.
 No other systemic effects
 identified.
 Negative for oncogenicity
 in the mouse, rat study
 inadequate.

STUDY TYPE
 Human 20 day feeding
 NOEL= 0.0300 mg/kg
 0.00 ppm
 LEL= 0.1000 mg/kg
 0.00 ppm
 ONCO: Negative- 1 species.

CHEMICAL
 Chlorpyrifos
 Caswell #219AA
 CAS No. 2921-88-2
 A.I. CODE: 059101
 CFR No. 180.342

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F1306	M -1.950000	-0.150000		100.00	-0.150000
53001MA	BEEF-LEAN	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	21 COOKED-NFS	3F1306	M -1.950000	-0.150000		100.00	-0.150000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M -1.950000	-0.150000		100.00	-0.150000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M -1.950000	-0.150000		100.00	-0.150000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	3F1306	M -1.950000	-0.150000		100.00	-0.150000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M 1.000000	1.000000		100.00	1.000000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002BB	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002BB	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P -0.950000	-0.950000		100.00	-0.950000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	M -0.800000	-0.800000		100.00	-0.800000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.800000	-0.800000		100.00	-0.800000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000		100.00	1.000000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53004AA	RABBIT	21 COOKED-NFS	645505	M -0.750000	-0.750000		100.00	-0.750000
53004AA	RABBIT	21 COOKED-NFS	645505	P 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	645505	M 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	645505	M -0.950000	-0.950000		100.00	-0.950000
53005BB	SHEEP-OTH ORGANS	21 COOKED-NFS	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005BB	SHEEP-OTH ORGANS	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	9F2270	M -0.800000	-0.800000		100.00	-0.800000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
53005MA	SHEEP-LEAN	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	21 COOKED-MFS		M -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED		M -0.950000	-0.950000		100.00	-0.950000
530068A	PORK-MEAT BYP	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
530068A	PORK-MEAT BYP	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
530068B	PORK-OTH ORGANS	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
530068B	PORK-OTH ORGANS	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
530068B	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
530068B	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		M -0.450000	-0.450000		100.00	-0.450000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-MFS		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		M -0.300000	-0.300000		100.00	-0.300000
53006KA	PORK-KIDNEY	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006KA	PORK-KIDNEY	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006LA	PORK-LIVER	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED		M -0.450000	-0.450000		100.00	-0.450000
53006MA	PORK-LEAN	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED		M -0.450000	-0.450000		100.00	-0.450000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		M -0.450000	-0.450000		100.00	-0.450000
53010AA	FISH-UNSPEC	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	21 COOKED-MFS		M -0.005000	-0.005000		100.00	-0.005000
53014AA	MEAT, GAME	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53014AA	MEAT, GAME	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE, CAVIAR	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE, CAVIAR	51 COOKED-CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	IPADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. HED complete 02/21/86. EPA verified 03/11/86. HED complete 03/04/88. 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)
53016AA	FISH, FIN-FRESH	21 COOKED-MFS	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
53017AA	FISH, FIN-SALT	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH, FIN-SALT	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH, FIN-SALT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017DA	FISH, FIN-SLT-DRY	12 RAW-FRESH-DRIED	6H5505	P 0.100000	0.005000C		100.00	0.005000
53017DA	FISH, FIN-SLT-DRY	21 COOKED-MFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
550088A	TURKEY-BYPRODUCT	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY-BYPRODUCT	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED		P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY ORGAN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY ORGAN	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY ORGAN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY W/O SKIN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY W/O SKIN	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED		M -0.400000	0.000000		100.00	0.000000
550088A	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088A	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED		M -0.400000	0.000000		100.00	0.000000
550088B	TURKEY+SKIN	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088B	TURKEY+SKIN	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550088B	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088B	TURKEY+SKIN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000
550088C	TURKEY-UNSPEC	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550088C	TURKEY-UNSPEC	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550138A	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550138A	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.400000	0.000000		100.00	0.000000
550138A	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550138A	POULTRY, ORGAN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000
550138A	POULTRY, OTHER	21 COOKED-MFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
550138A	POULTRY, OTHER	21 COOKED-MFS		M -0.400000	0.000000		100.00	0.000000
550144A	EGGS-WHOLE	10 RAW-FRESH OR MFS	6F1673	P 0.100000	0.010000		100.00	0.010000
550144A	EGGS-WHOLE	10 RAW-FRESH OR MFS		M -0.090000	0.000000		100.00	0.000000
550144A	EGGS-WHOLE	21 COOKED-MFS	6F1673	P 0.100000	0.010000		100.00	0.010000
550144A	EGGS-WHOLE	21 COOKED-MFS		M -0.090000	0.000000		100.00	0.000000
550144A	EGGS-WHOLE	22 COOKED-FRESH-BAKED	6F1673	P 0.100000	0.010000		100.00	0.010000
550144A	EGGS-WHOLE	22 COOKED-FRESH-BAKED		M -0.090000	0.000000		100.00	0.000000
550144A	EGGS-WHOLE	23 COOKED-FRESH-BOILED	6F1673	P 0.100000	0.010000		100.00	0.010000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 23

DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-08-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED		N -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED		N -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS		N -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS		N -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED		N -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED		N -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN		N -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS		N -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS		N -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED		N -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	6F1673	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED		N -0.090000	0.000000		100.00	0.000000
55015BA	CHICKEN-BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015BA	CHICKEN-BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)		N -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS		N -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED		N -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED OR CURED		N -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS		N -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED		N -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED		N -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED		N -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED		N -0.400000	0.000000		100.00	0.000000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	21 COOKED-NFS		N -0.400000	0.000000		100.00	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55015MB	CHICKEN+SKIN	21	COOKED-NFS	0.400000	0.000000	100.00	0.000000
55015MB	CHICKEN+SKIN	25	COOKED-FRESH-FRIED	0.500000	0.010000	100.00	0.010000
55015MB	CHICKEN+SKIN	25	COOKED-FRESH-FRIED	0.400000	0.000000	100.00	0.000000

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	PADI UF -->10	New chronic/onco rat	On IRIS.						
Caswell #219AA	MOEL= 0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000	study has been reviewed;							
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000	RfD to be reevaluated.							
A.I. CODE: 059101	CMCO: Negative- 1 species.										
CFR No. 180.342											

TOTAL THRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP	CURRENT THRC*	NEW THRC**	NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	ARC	XRFD
U.S. POPULATION - 48 STATES	0.010728	0.006430	214.339133	-143.267232	0.000811		27.02963
U.S. POPULATION - SPRING SEASON	0.010446	0.006185	206.150067	-142.050166	0.000771		25.69130
U.S. POPULATION - SUMMER SEASON	0.010350	0.005971	199.040400	-145.946799	0.000776		25.88027
U.S. POPULATION - FALL SEASON	0.011051	0.006684	222.802833	-145.572399	0.000843		28.11580
U.S. POPULATION - WINTER SEASON	0.010924	0.006745	224.826500	-139.292732	0.000807		26.89790
NORTHEAST REGION	0.011681	0.007370	245.654233	-143.703399	0.000814		27.12810
NORTH CENTRAL REGION	0.010568	0.006247	208.222400	-144.035466	0.000804		26.81657
SOUTHERN REGION	0.009714	0.005506	186.202267	-137.608032	0.000771		25.68463
WESTERN REGION	0.011241	0.006708	223.591100	-151.120266	0.000823		27.41737
HISPANICS	0.012418	0.007219	240.628167	-173.304599	0.000852		28.30650
NON-HISPANIC WHITES	0.010595	0.006350	211.661800	-141.500132	0.000788		26.26633
NON-HISPANIC BLACKS	0.010281	0.006156	205.189033	-137.526332	0.000832		27.74047
NON-HISPANIC OTHERS	0.012717	0.007735	257.830267	-166.067799	0.000942		31.39370
MURSING INFANTS (< 1 YEAR OLD)	0.014991	0.012417	413.904233	-85.809299	0.000910		30.33453
NON-MURSING INFANTS (< 1 YEAR OLD)	0.026784	0.019389	646.314433	-246.470366	0.002108		70.28213
FEMALES (13+ YEARS, PREGNANT)	0.007826	0.004871	162.372433	-98.500132	0.000575		19.18277
FEMALES 13+ YEARS, MURSING	0.008600	0.005235	174.497167	-112.157432	0.000690		23.00673
CHILDREN (1-6 YEARS OLD)	0.024425	0.015809	529.635367	-284.532266	0.001823		60.75997
CHILDREN (7-12 YEARS OLD)	0.015253	0.009055	301.845233	-206.589666	0.001214		40.45600
MALES (13-19 YEARS OLD)	0.010144	0.005509	183.619100	-154.505332	0.000806		26.87657
FEMALES (13-19 YEARS OLD, NOT PREG. OR MURSING)	0.008805	0.005071	169.036433	-124.469266	0.000481		22.70097
MALES (20 YEARS AND OLDER)	0.008021	0.004336	144.521367	-122.855632	0.000593		19.76410
FEMALES (20 YEARS AND OLDER, NOT PREG. OR MURS)	0.007822	0.004715	157.160367	-103.565332	0.000554		18.46080

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

TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASWELL #219AA

DATE: 02/16/93

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.001112 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 37.056 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: <0.000001 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: -10.026 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000811 MG/KG/DAY
THE NEW ARC WILL OCCUPY 27.030 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.003213 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 107.099 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: <0.000001 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: -36.816 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.002108 MG/KG/DAY
THE NEW ARC WILL OCCUPY 70.282 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.002557 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 85.238 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: <0.000001 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: -24.477 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.001823 MG/KG/DAY
THE NEW ARC WILL OCCUPY 60.760 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASWELL #219AA

DATE: 02/16/93

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (7-12 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.001674	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	55.814	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	-15.357	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.001214	MG/KG/DAY
THE NEW ARC WILL OCCUPY	40.456	% OF THE ADI.
NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE		

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.542	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	70 RAW-FROZEN	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.005000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	P 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	P 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7E3466	P 1.000000	1.000000		100.00	1.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	P 1.000000	1.000000		100.00	1.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRENTS	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01015AA	HUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2263	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2263	M -0.300000	0.000000		5.00	0.000000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2263	M -0.300000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2263	M -0.300000	0.000000		5.00	0.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species. inadequate.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2263	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN		M -0.300000	0.000000		5.00	0.000000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
01025AA	MULBERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
02001AA	CITRUS CITRUS	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	21 COOKED-NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LINES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02005AB	LINES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02005HA	LINES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005JA	LINES-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LINES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LINES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006HA	ORANGES-PEEL	22 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	1.000000		39.00	0.390000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		16.00	0.019500
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		16.00	0.032000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Cassell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative: 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		16.00	0.032000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		69.00	0.138000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		10.00	0.020000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
04001AA	APPLES-FRESH	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.100000C	PROCESS. STUDY	35.00	0.035000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.100000C	PROCESS. STUDY	35.00	0.035000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.000000		54.00	0.000000
04003AA	PEARS-FRESH	51 COOKED-FRESH OR FROZEN	6F1786	N -0.040000	0.010000		54.00	0.000000
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1786	N 0.050000	0.010000		54.00	0.005400
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	N -0.040000	0.000000		54.00	0.000000
04003AA	PEARS-FRESH	62 COOKED-FRESH OF FROZEN-BAKED	6F1786	N -0.040000	0.010000		54.00	0.005400

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED		M -0.040000	0.000000		9.00	0.000000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	21 COOKED-NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE JUICE	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE JUICE	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.000900
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED		M -0.040000	0.000000		100.00	0.000000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		100.00	0.000000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS		M -0.040000	0.000000		100.00	0.000000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS		M -0.040000	0.000000		100.00	0.000000
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	21 COOKED-NFS		M -0.040000	0.000000		100.00	0.000000
06003AA	COCOMUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003AA	COCOMUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCOMUT-COPRA	21 COOKED-NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCOMUT-COPRA	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCOMUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003AA	COCOMUT-WATER	10 RAW-FRESH OR NFS	6E3439	P 0.300000	0.300000		100.00	0.300000
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.300000	0.300000		100.00	0.300000
06004AA	DATES	22 COOKED-FRESH-BAKED	6E3439	P 0.300000	0.300000		100.00	0.300000
06005AA	FIGS	10 RAW-FRESH OR NFS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS	10 RAW-FRESH OR NFS		M -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS	22 COOKED-FRESH-BAKED		M -0.090000	0.000000		7.00	0.000000
06006AA	GUAVA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.362	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED,CORNED,OR CURED	6H5505	P	0.100000		100.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6H5505	P	0.100000		100.00	0.005000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06011AA	PAMPANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
06015AA	POMEGRANATES	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06016AA	PLANTAINS	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	3F1370	P	0.050000		100.00	0.010000
06017AA	PLANTAINS	25 COOKED-FRESH-FRIED	3F1370	P	0.050000		100.00	0.010000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06017DA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06018AA	KIWI,	10 RAW-FRESH OR NFS	3E2766	P	2.000000		100.00	2.000000
06020AA	ACEROLA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06021AA	GINCKO NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06022AA	WAMEY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06023AA	PITANGA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06024AA	SOURSOP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06026AA	BREAD FRUIT	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
06027AA	BREAD NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06029AA	CARAMBOLA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06030AA	CHERIMOYA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06031AA	LONGAN FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
06033AA	GENIP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. HED complete 02/21/86. EPA verified 03/11/86. HED complete 03/04/88.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
07001FA	COCOA BUTTER	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	CHOCOLATE	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	CHOCOLATE	21 COOKED-MFS	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
07002AA	COFFEE	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07003AA	TEA	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
07004AA	CHICORY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08004AA	ANICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08006AA	BASIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08007AA	CARRAWAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08008AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08011AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08012AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08013AA	CORIANDER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08014AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08015AA	DILL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 0.100000	0.005000		100.00	0.005000
08020AA	HOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08022AA	HORSERADISH	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08023AA	ROSEMARY	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AA	MARJORAM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AB	OREGANO	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AA	MUTHEG	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AB	MACE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08035AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08036AA	SAVORY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08038AA	BAY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08042AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08043AA	TURMERIC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08047AA	ALLSPICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08048DA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08049AA	POPPY	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		100.00	0.005000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10002AB	CANTALOUPE-PULP	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10003AA	CASABAS	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Cassell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR NO. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
10007AA	PERSTON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)						
10008AA	WATERMELON	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10008AA	WATERMELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.005000		1.00	0.005000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9F2221	P 0.100000	0.050000		1.00	0.000500
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9F2221	M -0.050000	0.000000		1.00	0.000000
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	M -0.050000	0.000000		5.00	0.002500
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	M -0.050000	0.000000		5.00	0.000000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	M -0.050000	0.000000		5.00	0.000000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
10017AA	BITTER MELON	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)						
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
11001AA	EGGPLANT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
11003AA	PEPPERS-SWEET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
11003AA	PEPPERS-SWEET	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AB	CHILLI-PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)						
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		M 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		M 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		P 0.500000	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		M 0.500000	0.500000		1.00	0.005000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI	UF -->10	New chronic/onco rat study has been reviewed; RFD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	3E2819	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED		M -1.000000	0.000000		13.00	0.000000
13007AA	CABBAGE	21 COOKED-NFS	3E2819	P 2.000000	1.000000		13.00	0.130000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	3E2819	M -1.000000	0.000000		13.00	0.000000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS		P 2.000000	1.000000		12.00	0.120000
13008AA	CAULIFLOWER	21 COOKED-NFS	3E2819	M -1.000000	0.000000		12.00	0.000000
13008AA	CAULIFLOWER	21 COOKED-NFS		P 2.000000	1.000000		12.00	0.120000
13009AA	COLLARDS	51 COOKED-CANNED	3E2819	M -1.000000	0.000000		12.00	0.000000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	3E2819	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS		P 2.000000	1.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	3E2819	M -1.000000	0.000000		37.00	0.000000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS		P 2.000000	1.000000		37.00	0.370000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	M -1.000000	0.000000		37.00	0.000000
13012AA	KOHLRABI	21 COOKED-NFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	1.000000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13018AA	ARTICHOKES-GLOBE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	3E2819	P 2.000000	1.000000		100.00	1.000000
13022AA	PARSLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	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
13023AA	RHUBARB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	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	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	P 1.000000	0.300000		100.00	0.300000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg OMCO: Negative- 1 species.	Decreased plasmae CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADJ UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/enco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS		M -0.700000	0.000000		100.00	0.000000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	21 COOKED-NFS		M -0.700000	0.000000		100.00	0.000000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED		M -0.700000	0.000000		100.00	0.000000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	WATERCRESS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13039AA	GRESS,UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	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	6H5505	P 0.100000	0.005000		100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13049AA	GRAPES-LEAVES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13999AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-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
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	00 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	0E2387	P 0.500000	0.500000		45.00	0.225000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14010AA	LEEKS	31 COOKED-FRESH OR FROZEN	6E3389	P 0.200000	0.200000		100.00	0.200000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	0E2387	P 0.500000	0.500000		46.00	0.230000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.0030000 EPA RfD= 0.0030000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
14013AB	POTATO(WH)-UNISPE	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
14013AC	POTATO(WH)-PULP	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.005000	100.00	0.005000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6H5505	P	0.100000	0.005000	100.00	0.005000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR MFS	6H5505	P	0.100000	0.005000C	100.00	0.005000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000C	100.00	0.005000
14013NA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.005000	100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR MFS	8E2038	P	3.000000	2.000000	100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR MFS	8E2038	P	3.000000	2.000000	17.00	0.000000
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	M	-1.000000	0.000000	17.00	0.000000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR MFS	832038	P	0.100000	0.005000	100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR MFS	832038	P	3.000000	0.500000	100.00	0.500000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR MFS	832038	M	-2.500000	0.000000	100.00	0.000000
14015AA	RUTABAGAS-ROOTS	21 COOKED-MFS	832038	P	3.000000	0.500000	100.00	0.500000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	M	-2.500000	0.000000	100.00	0.000000
14016AA	SALSIFY	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
14018AA	SWEET POTATOES	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED	6F1786	P	0.050000	0.050000	64.00	0.032000
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED	6F1786	M	-0.050000	0.000000	64.00	0.000000
14018AA	SWEET POTATOES	51 COOKED-CANNED	6F1786	P	0.100000	0.050000	64.00	0.000000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR MFS	0E2411	M	-0.050000	0.000000	64.00	0.000000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR MFS	0E2411	M	-2.000000	0.000000	100.00	0.000000
14019AA	TURNIPS-ROOTS	21 COOKED-MFS	0E2411	P	3.000000	1.000000	100.00	1.000000
14019AA	TURNIPS-ROOTS	21 COOKED-MFS	0E2411	M	-2.000000	0.000000	100.00	0.000000
14021AA	PARSNIPS	21 COOKED-MFS	6H5505	P	0.100000	0.000000	100.00	0.000000
14024AA	YAMBEAN,TUBER	10 RAW-FRESH OR MFS	6H5505	M	0.100000	0.005000	100.00	0.005000
14026AA	CASSAVA	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.005000	100.00	0.005000
14026AB	TAPIOCA	10 RAW-FRESH OR MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14026AB	TAPIOCA	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
14028AA	YAUTIA, TANNIER	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	21 COOKED-MFS	6H5505	P	0.100000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	25 COOKED-FRESH-FRIED	6H5505	P	0.100000	0.005000	100.00	0.005000
15001AA	BEANS-DRY-GRT	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P	0.100000	0.050000	100.00	0.005000
15001AA	BEANS-DRY-GRT	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	M	-0.050000	0.000000	1.00	0.000000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative: 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
15001AB	BEANS-DRY-KIDNEY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AB	BEANS-DRY-KIDNEY	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000000
15001AC	BEANS-DRY-LIMA	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AC	BEANS-DRY-LIMA	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AD	BEANS-DRY-NAVY	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED		M -0.050000	0.000000		1.00	0.000000
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED		M -0.050000	0.000000		1.00	0.000000
15001AF	BEANS-DRY-PINTO	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-PINTO	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000
15002AA	BEANS-SUCC-LIMA	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AA	BEANS-SUCC-GREEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AA	BEANS-SUCC-GREEN	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15003AC	BEANS-SUCC-WAX	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-WAX	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15004AA	CORN,POP	21 COOKED-MFS	6H5505	N -0.050000	0.000000		100.00	0.000000
15005AA	CORN, SHEET	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.005000		65.00	0.005000
15005AA	CORN, SHEET	31 COOKED-MFS	3F1306	P 0.100000	0.100000		65.00	0.065000
15005AA	CORN, SHEET	31 COOKED-FRESH OR CANNED	3F1306	P 0.100000	0.100000		65.00	0.065000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR MFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR MFS		M -0.300000	0.000000		26.00	0.000000
15006AA	PEANUTS-WHOLE	21 COOKED-MFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	21 COOKED-MFS		M -0.300000	0.000000		26.00	0.000000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED		M -0.300000	0.000000		26.00	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
15007AA	PEAS DRY-GARDEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15007AA	PEAS DRY-GARDEN	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	21 COOKED-MFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15009AA	PEAS SUCC-GARDEN	21 COOKED-MFS		M -0.050000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED	9F2221	M -0.050000	0.000000		1.00	0.000000
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED		M -0.050000	0.050000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS		M -0.050000	0.000000		1.00	0.000000
15013AA	MUNG BEANS	21 COOKED-MFS	9F2221	M -0.050000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15015AA	OKRA	21 COOKED-MFS	9F2221	P 0.100000	0.100000		10.00	0.010000
15015AA	OKRA	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.100000		10.00	0.010000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR MFS	2F2588	P 0.250000	0.250000		1.00	0.002500
15020AA	CAROB	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	21 COOKED-MFS		M -0.050000	0.000000		100.00	0.000000
15020AA	CAROB	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	22 COOKED-FRESH-BAKED		M -0.050000	0.000000		100.00	0.000000
15020AA	CAROB	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR MFS	6M5505	M -0.050000	0.000000		1.00	0.000000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	M -0.050000	0.050000		1.00	0.000500
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.050000	0.000000		1.00	0.000000
15023AA	BEANS-DRY-PIGEON	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15023AA	BEANS-DRY-PIGEON	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15026AA	SESAME SEEDS	10 RAW-FRESH OR MFS	6M5505	M -0.050000	0.000000		1.00	0.000000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15027AA	BEANS-UNSPEC	21 COOKED-MFS		M -0.050000	0.000000		1.00	0.000000
15028AA	PINENUTS	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15028AA	PINENUTS	21 COOKED-MFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.500000	0.300000		1.00	0.003000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.200000	0.000000		1.00	0.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.00 ppm 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	M -0.050000	0.000000		1.00	0.000000
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	M -0.050000	0.000000		1.00	0.000000
15031AA	BLKEYE PEAS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLKEYE PEAS-DRY	21 COOKED-MFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15032AA	BEANS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 COOKED-MFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9F2221	M -0.050000	0.000000		1.00	0.000000
16002AA	ASPARAGUS	21 COOKED-MFS	2E2644	P 5.000000	5.000000		5.00	0.250000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E2644	P 5.000000	5.000000		5.00	0.250000
16003AA	MUSHROOMS	10 RAW-FRESH OR MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	21 COOKED-MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR MFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	21 COOKED-MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	21 COOKED-MFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	M -0.050000	0.000000		12.00	0.000000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.006000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	10 RAW-FRESH OR MFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	21 COOKED-MFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	21 COOKED-MFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	M -0.050000	0.000000		12.00	0.000000
24003AA	OATS	21 COOKED-MFS	6H5505	P 0.100000	0.000000		100.00	0.000000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. WED complete 02/21/86. EPA verified 03/11/86. WED complete 03/04/88. 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)
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RICE-MILLED	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005WA	RYE-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24005WA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.750000	0.005000		5.00	0.037500
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	6H5505	P 0.400000	0.005000		100.00	0.034000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.090000		100.00	0.090000
24007HA	WHEAT-BRAN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	21 COOKED-NFS	3F2947	M 0.400000	0.090000		100.00	0.090000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.090000		100.00	0.090000
24007JA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	M 0.400000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	3F2947	M 0.400000	0.005000		100.00	0.005000
24012AA	MILLET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24012AA	MILLET	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2021-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
25001AA	HONEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25002SA	BEEET SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEET SUGAR	21 COOKED-NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEET SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEET SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CAME SUGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
26011AA	GIAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.005000		100.00	0.005000
270010A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.050000		1.00	0.005000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	1H5323	P 3.000000	3.000000C		12.00	0.005000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.300000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.300000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.300000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.300000	0.200000		2.00	0.004000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.500000	0.000000		100.00	0.005000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9H5226	P 1.500000	0.005000		26.00	0.005000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9H5226	P 1.500000	0.005000		26.00	0.005000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.000000		100.00	0.000000
27008AA	SAFFLOWER-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000C		100.00	0.005000
270090A	SESAME-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.003000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.003000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P 0.250000	0.250000		1.00	0.002500
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P 0.250000	0.250000		1.00	0.002500
270150A	COCONUT-OIL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
270150A	COCONUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCONUT-OIL	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
270160A	OLIVE OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270190A	PALM OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AB	SOY-FL, LOW FAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AB	SOY-FL, LOW FAT	21 COOKED-NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AC	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AC	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AC	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AC	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	M -0.200000	0.000000		1.00	0.003000
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	P 0.500000	0.300000		1.00	0.000000
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	M -0.200000	0.000000		1.00	0.003000
28024AB	ORNTL MLEAF VEG	21 COOKED-NFS	6H5505	M -0.200000	0.000000		1.00	0.000000
28040AA	SEEDS-OTHER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 1.000000	1.000000		100.00	1.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	P 10.000000	8.000000C			100.00	8.000000C
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	M -2.000000	0.000000C			100.00	0.000000C

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

CHEMICAL	STUDY TYPE	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
		Human 20 day feeding	Decreased plasma ChE.	PADI UF -->10	NEW chronic/onco rat		
Chlorpyrifos	0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000	Med chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982.	Med complete 02/21/86.	
Caswell #219AA	0.00 ppm	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000		EPA verified 03/11/86.	Med complete 03/04/88.	
CAS No. 2921-88-2	0.1000 mg/kg						
A.I. CODE: 059101	0.00 ppm						
CFR No. 180.342	OMCO: Negative- 1 species.					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)
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)	P	1.000000	1.000000		100.00	1.000000
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	P	10.000000	8.000000C		100.00	8.000000
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	M	-2.000000	0.000000C		100.00	0.000000
43057AA	VINEGAR	10 RAW-FRESH OR NFS	6W5505	P	0.100000		100.00	0.005000
43057AA	VINEGAR	21 COOKED-NFS	6W5505	P	0.100000		100.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	2E2584	P	0.500000		1.00	0.005000
43058AA	WINE AND SHERRY	21 COOKED-NFS	2E2584	P	0.500000		1.00	0.005000
43059AA	DIST ALCOHOL	21 COOKED-NFS	6W5505	P	0.100000		100.00	0.005000
43060AA	GELATIN	10 RAW-FRESH OR NFS	6W5505	P	0.100000		100.00	0.005000
43060AA	GELATIN	21 COOKED-NFS	6W5505	P	0.100000		100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	0F2281	P	0.020000		100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	0F2281	M	-0.010000		100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M	-0.010000		100.00	-0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M	-0.010000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	M	-0.010000		100.00	-0.010000
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P	0.500000		100.00	0.500000
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	M	-0.250000		100.00	-0.250000
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	P	0.500000		100.00	0.500000
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	M	-0.250000		100.00	-0.250000
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	M	-0.250000		100.00	-0.250000
500000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	P	0.020000		100.00	0.020000
500000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	M	-0.010000		100.00	-0.010000
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P	0.020000		100.00	0.020000
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	M	-0.010000		100.00	-0.010000
530018A	BEEF-MEAT BYPROD	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M	-1.950000	3F02884	100.00	0.000000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M	-1.950000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M	-1.950000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M	2.000000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M	-1.950000	3F02884	100.00	0.000000
530018A	BEEF-DRIED	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.000000
530018A	BEEF-DRIED	21 COOKED-NFS	3F1306	M	-1.700000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M	2.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M	-1.700000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.000000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M	-1.700000	3F02884	100.00	0.200000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 219AA

DATE: 02/16/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; RFD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M -1.700000	0.000000		100.00	0.000000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M -1.700000	0.000000		100.00	0.000000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	3F1306	M -1.700000	0.000000		100.00	0.000000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M -1.700000	0.000000		100.00	0.000000
53001KA	BEEF-KIDNEY	21 COOKED-MFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001KA	BEEF-KIDNEY	21 COOKED-MFS	3F1306	M -1.950000	0.000000		100.00	0.000000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M -1.950000	0.000000		100.00	0.000000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M -1.950000	0.000000		100.00	0.000000
53001MA	BEEF-LEAN	10 RAW-FRESH OR MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	10 RAW-FRESH OR MFS	3F1306	M -1.950000	0.150000		100.00	0.150000
53001MA	BEEF-LEAN	21 COOKED-MFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	21 COOKED-MFS	3F1306	M -1.950000	0.150000		100.00	0.150000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M -1.950000	0.150000		100.00	0.150000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M -1.950000	0.150000		100.00	0.150000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M -1.950000	0.150000		100.00	0.150000
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M 1.000000	1.000000		100.00	1.000000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	0.950000		100.00	0.950000
53002BB	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M 1.000000	1.000000		100.00	1.000000
53002BB	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	0.950000		100.00	0.950000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	M 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	M -0.800000	0.800000		100.00	0.800000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	M 1.000000	1.000000		100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	M -0.800000	0.800000		100.00	0.800000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M 1.000000	1.000000		100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	0.950000		100.00	0.950000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M 1.000000	1.000000		100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	0.950000		100.00	0.950000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	M 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	M -0.950000	0.950000		100.00	0.950000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	M 1.000000	1.000000		100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	M -0.950000	0.950000		100.00	0.950000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding NOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PAD1 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.250000		100.00	0.250000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)		N -0.750000	-0.750000		100.00	-0.750000
53004AA	RABBIT	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	25 COOKED-FRESH-FRIED	6H5505	M 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BA	SHEEP-MEAT BYP	21 COOKED-MFS		M -0.950000	-0.950000		100.00	-0.950000
53005BB	SHEEP-OTH ORGANS	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BB	SHEEP-OTH ORGANS	21 COOKED-MFS		M -0.950000	-0.950000		100.00	-0.950000
53005FA	SHEEP-FAT	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-MFS		M -0.800000	-0.800000		100.00	-0.800000
53005KA	SHEEP-KIDNEY	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005KA	SHEEP-KIDNEY	21 COOKED-MFS		M -0.950000	-0.950000		100.00	-0.950000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	21 COOKED-MFS		M -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED		M -0.950000	-0.950000		100.00	-0.950000
53006BA	PORK-MEAT BYP	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BA	PORK-MEAT BYP	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006BB	PORK-OTH ORGANS	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006BB	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		M -0.450000	-0.450000		100.00	-0.450000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-MFS		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED		M -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		M -0.300000	-0.300000		100.00	-0.300000
53006KA	PORK-KIDNEY	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006KA	PORK-KIDNEY	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006LA	PORK-LIVER	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED		M -0.450000	-0.450000		100.00	-0.450000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006MA	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	21 COOKED-NFS	3F1306	N -0.450000	-0.450000		100.00	-0.450000
53006MA	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	25 COOKED-FRESH-FRIED	3F1306	N -0.450000	-0.450000		100.00	-0.450000
53006MA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	N -0.450000	-0.450000		100.00	-0.450000
53010AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53014AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53014AA	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53015AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53015AA	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
53016AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53016AA	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53017AA	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017DA	12 RAW-FRESH-DRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53017DA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
55008BA	TURKEY-BYPRODUCT	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.005000
55008BA	TURKEY-BYPRODUCT	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY BYPRODUCT	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY BYPRODUCT	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY ORGAN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY ORGAN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY W/O SKIN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY W/O SKIN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY W/O SKIN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY W/O SKIN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY W/O SKIN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY W/O SKIN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY+SKIN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY+SKIN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY+SKIN	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY+SKIN	6F1673	N -0.400000	0.000000		100.00	0.010000
55008BA	TURKEY-UNSPEC	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.000000
55008BA	TURKEY-UNSPEC	6F1673	N -0.400000	0.000000		100.00	0.010000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.0030000 EPA RfD= 0.0030000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. HED complete 02/21/86. EPA verified 03/11/86. HED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008MC	TURKEY-UNSPEC	21	M -0.400000	0.000000		100.00	0.000000
55013BA	POULTRY, OTH-BYP	00	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY, OTH-BYP	00	M -0.400000	0.000000		100.00	0.000000
55013LA	POULTRY, ORGAN	25	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY, ORGAN	25	M -0.400000	0.000000		100.00	0.000000
55013MA	POULTRY, OTHER	21	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY, OTHER	21	M -0.400000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	10	P 0.100000	0.000000		100.00	0.010000
55014AA	EGGS-WHOLE	10	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	21	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	21	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	22	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	22	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	23	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	23	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	25	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	25	M -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	10	P 0.100000	0.000000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	10	M -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	21	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	21	M -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	22	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	22	M -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	62	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	62	M -0.090000	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	81	P 0.100000	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	81	M -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	10	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	10	M -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	21	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	21	M -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	25	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	25	M -0.090000	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	31	P 0.100000	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	31	M -0.090000	0.000000		100.00	0.000000
55015BA	CHICKEN-BYPROD	00	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015BA	CHICKEN-BYPROD	00	M -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	21	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	21	M -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	25	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	25	M -0.400000	0.000000		100.00	0.000000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 24

DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-00-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PM01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED OR CURED		M -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	6F1673	M 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS		M -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED		M -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED		M -0.400000	0.000000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED		M -0.400000	0.000000		100.00	0.000000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	21 COOKED-NFS		M -0.400000	0.000000		100.00	0.000000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED		M -0.400000	0.000000		100.00	0.000000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/16/93 PAGE: 1

CHEMICAL INFORMATION

Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species.	EFFECTS Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PAD1 UF -->10 OPP RFD= 0.003000 EPA RFD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RFD to be reevaluated.	STATUS MND last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.
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TOTAL THRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP	CURRENT THRC*	NEW THRC**	NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES ARC	2RFD
U.S. POPULATION - 48 STATES	0.010728	0.007158	238.584700	-119.021666	0.000818	27.27210
U.S. POPULATION - SPRING SEASON	0.010446	0.006873	229.095700	-119.104532	0.000778	25.92067
U.S. POPULATION - SUMMER SEASON	0.010350	0.006724	224.144300	-120.862899	0.000704	26.13133
U.S. POPULATION - FALL SEASON	0.011051	0.007416	247.215600	-121.159632	0.000851	28.35993
U.S. POPULATION - WINTER SEASON	0.010924	0.007481	249.357500	-114.763932	0.000814	27.14320
NORTHEAST REGION	0.011681	0.008116	270.543033	-118.814599	0.000821	27.37703
NORTH CENTRAL REGION	0.010568	0.007011	233.697967	-118.559099	0.000812	27.07127
SOUTHERN REGION	0.009714	0.006239	207.961433	-115.848866	0.000777	25.90227
WESTERN REGION	0.011241	0.007485	249.483833	-125.227532	0.000830	27.67633
HISPANICS	0.012418	0.008077	269.222867	-144.709099	0.000860	28.67247
NON-HISPANIC WHITES	0.010595	0.007104	236.798000	-116.363932	0.000796	26.51770
NON-HISPANIC BLACKS	0.010281	0.006660	222.002600	-120.712766	0.000837	27.90857
NON-HISPANIC OTHERS	0.012717	0.008364	278.809567	-145.096699	0.000948	31.60343
MURSING INFANTS (< 1 YEAR OLD)	0.016991	0.012551	418.353067	-81.360466	0.000911	30.37903
NON-MURSING INFANTS (< 1 YEAR OLD)	0.026784	0.019875	662.503100	-230.281699	0.002113	70.44403
FEMALES (13+ YEARS, PREGNANT)	0.007826	0.005520	183.995200	-76.877366	0.000582	19.39897
FEMALES 13+ YEARS, MURSING	0.008600	0.005905	196.845567	-89.809032	0.000697	23.23023
CHILDREN (1-6 YEARS OLD)	0.024425	0.017293	576.444500	-237.723132	0.001837	61.22807
CHILDREN (7-12 YEARS OLD)	0.015253	0.010188	339.583333	-168.851566	0.001225	40.83340
MALES (13-19 YEARS OLD)	0.010144	0.006316	210.531333	-127.593099	0.000814	27.14567
FEMALES (13-19 YEARS OLD, NOT PREG. OR MURSING)	0.008805	0.005739	191.313467	-102.192232	0.000686	22.92373
MALES (20 YEARS AND OLDER)	0.008021	0.004915	163.848600	-103.528399	0.000599	19.95740
FEMALES (20 YEARS AND OLDER, NOT PREG. OR MURS)	0.007822	0.005269	175.647667	-85.098032	0.000559	18.64570

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

TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASWELL #219AA

DATE: 02/16/93

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF:
THE EXISTING ARC IS EQUIVALENT TO: 0.001112 MG/KG/DAY
37.056 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF:
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: <0.000001 MG/KG/DAY
-9.783 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000818 MG/KG/DAY
27.272 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF:
THE EXISTING ARC IS EQUIVALENT TO: 0.003213 MG/KG/DAY
107.099 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF:
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: <0.000001 MG/KG/DAY
-36.654 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.002113 MG/KG/DAY
70.444 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF:
THE EXISTING ARC IS EQUIVALENT TO: 0.002557 MG/KG/DAY
85.238 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF:
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: <0.000001 MG/KG/DAY
-24.009 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.001837 MG/KG/DAY
61.228 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

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TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASWELL #219AA

DATE: 02/16/93

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (7-12 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.001674	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	55.814	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	<0.000001	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	-14.979	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.001225	MG/KG/DAY
THE NEW ARC WILL OCCUPY	40.833	% OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

Attachment 10 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 1

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CPR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/86. 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	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01004AA	DELBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	P 1.000000	1.000000		100.00	1.000000
01005AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	P 1.000000	1.000000		100.00	1.000000
01006AA	RASPBERRIES	70 RAW-FROZEN	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	1.000000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	P 2.000000	2.000000		100.00	0.005000
01009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	P 2.000000	2.000000		100.00	2.000000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	P 1.000000	1.000000		100.00	2.000000
01010AA	CRANBERRIES	21 COOKED-NFS	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY - JUICE	15 RAW-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01010AA	CRANBERRY - JUICE	31 COOKED-FRESH OR CANNED	2E2682	P 1.000000	1.000000		31.00	0.310000
01011AA	CURRANTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	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	0.500000		100.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	10 RAW-FRESH OR NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	2E2584	P 0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-JUICE	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
01015AA	HUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	2E2584	P 0.500000	0.500000		1.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	P 0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2283	P 0.500000	0.200000		5.00	0.010000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	645505	P 0.100000	0.005000		100.00	0.005000
02001AA	CITRUS CITRUS	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	31 COOKED-NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LEMONS-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AA	LINES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02005AB	LINES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02005HA	LINES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02005JA	LINES-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LINES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005JA	LINES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02006HA	ORANGES-PEEL	21 COOKED-NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P 1.000000	1.000000		39.00	0.390000
02006HA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	15 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
02008AA	TANGERINES	15 RAW-FRESH OR NFS	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02008JA	TANGERINE-JUICE	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		16.00	0.032000
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		16.00	0.032000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		16.00	0.032000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PM01 UF -->10	OPP RfD= 0.0030000 EPA RfD= 0.0030000		
Chlorpyrifos Caswell #219AA CAS No. 2921-00-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.			New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
03003AA	CASHEWS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.130000
03005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.130000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		100.00	0.200000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
03008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	4F2999	P 0.200000	0.200000		5.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.0050000		100.00	0.0050000
03013AA	BECMNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04001AA	APPLES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.0050000		100.00	0.0050000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.0100000		54.00	0.005400
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.0100000		54.00	0.005400
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.0100000		54.00	0.005400
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.0100000		54.00	0.005400
04003AA	PEARS-FRESH	21 COOKED-NFS	6F1786	P 0.050000	0.0100000		54.00	0.005400
04003AA	PEARS-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.0050000		100.00	0.0050000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.0050000		100.00	0.0050000
04003AA	PEARS-FRESH	21 COOKED-NFS	6H5505	P 0.100000	0.0050000		100.00	0.0050000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.0050000		100.00	0.0050000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.0050000		100.00	0.0050000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL = 0.0300 mg/kg 0.00 ppm LEL = 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD = 0.003000 EPA RfD = 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.040000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1E2529	P 2.000000	1.000000		4.00	0.040000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	1E2529	P 2.000000	1.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	1E2529	P 2.000000	1.000000		4.00	0.040000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	1E2529	P 2.000000	1.000000		4.00	0.040000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		6.00	0.000600
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05004AA	PEACHES-FRESH	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	3F1306	P 0.050000	0.010000		60.00	0.006000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	3F1306	P 0.050000	0.010000		60.00	0.006000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05004DA	PEACHES-DRIED	21 COOKED-NFS	3F1306	P 0.050000	0.010000		60.00	0.006000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	21 COOKED-NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.000900
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06003AA	COCOMUT-FRESH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003AA	COCOMUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003DA	COCOMUT-COPRA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCOMUT-COPRA	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003DA	COCOMUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000
06003JA	COCOMUT-WATER	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.500000	0.500000		100.00	0.500000
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.500000	0.500000		100.00	0.500000
06004AA	DATES	22 COOKED-FRESH-BAKED	6E3439	P 0.500000	0.500000		100.00	0.500000
06005AA	FIGS	10 RAW-FRESH OR NFS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000700
06006AA	GUAVA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AA	PAPAYAS-UMSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06011AA	PAUPAMS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
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-DRIED	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		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
06016AA	PLANTAINS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06016AA	PLANTAINS	21 COOKED-FRESH-BOILED	3F1370	P 0.050000	0.010000		100.00	0.010000
06016AA	PLANTAINS	23 COOKED-FRESH-FRIED	3F1370	P 0.050000	0.010000		100.00	0.010000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06017DA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06018AA	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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 6

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PEP.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
06026AA	BREAD FRUIT	6H5505	P 0.100000	0.005000		100.00	0.005000
06027AA	BREAD NUTS	6H5505	P 0.100000	0.005000		100.00	0.005000
06029AA	CARAMBOLA	6H5505	P 0.100000	0.005000		100.00	0.005000
06030AA	CHERTMOYA	6H5505	P 0.100000	0.005000		100.00	0.005000
06031AA	LONGAN FRUIT	6H5505	P 0.100000	0.005000		100.00	0.005000
06033AA	GENIP	6H5505	P 0.100000	0.005000		100.00	0.005000
07001FA	COCOA BUTTER	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	CHOCOLATE	6H5505	P 0.100000	0.005000		100.00	0.005000
07001SA	CHOCOLATE	6H5505	P 0.100000	0.005000		100.00	0.005000
07002AA	COFFEE	6H5505	P 0.100000	0.005000		100.00	0.005000
07003AA	TEA	6H5505	P 0.100000	0.005000		100.00	0.005000
07006AA	CHICORY	6H5505	P 0.100000	0.005000		100.00	0.005000
08004AA	ANICE	6H5505	P 0.100000	0.005000		100.00	0.005000
08006AA	BASIL	6H5505	P 0.100000	0.005000		100.00	0.005000
08007AA	CARRAWAY	6H5505	P 0.100000	0.005000		100.00	0.005000
08008AA	CASSIA	6H5505	P 0.100000	0.005000		100.00	0.005000
08011AA	CINNAMON	6H5505	P 0.100000	0.005000		100.00	0.005000
08012AA	CLOVE	6H5505	P 0.100000	0.005000		100.00	0.005000
08013AA	CORIANDER	6H5505	P 0.100000	0.005000		100.00	0.005000
08014AA	CUMIN	6H5505	P 0.100000	0.005000		100.00	0.005000
08015AA	DILL	6H5505	P 0.100000	0.005000		100.00	0.005000
08019AA	GINGER	1E2529	P 0.100000	0.100000		100.00	0.100000
08020AA	HOPS	6H5505	P 0.100000	0.005000		100.00	0.005000
08022AA	HORSE RADISH	6H5505	P 0.100000	0.005000		100.00	0.005000
08023AA	ROSEMARY	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AA	MARJORAM	6H5505	P 0.100000	0.005000		100.00	0.005000
08026AB	OREGANO	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	6H5505	P 0.100000	0.005000		100.00	0.005000
08028AA	MUSTARD SEED	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AA	NUTMEG	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AB	MACC	6H5505	P 0.100000	0.005000		100.00	0.005000
08035AA	SAGE	6H5505	P 0.100000	0.005000		100.00	0.005000
08036AA	SAVORY	6H5505	P 0.100000	0.005000		100.00	0.005000
08038AA	RAY	6H5505	P 0.100000	0.005000		100.00	0.005000
08042AA	THYME	6H5505	P 0.100000	0.005000		100.00	0.005000
08043AA	TURNERIC	6H5505	P 0.100000	0.005000		100.00	0.005000
08047AA	ALLSPICE	6H5505	P 0.100000	0.005000		100.00	0.005000
08048AA	PAPRIKA	1E2523	P 1.000000	1.000000		100.00	0.005000
08049AA	POPPY	6H5505	P 0.100000	0.005000		7.00	0.070000
08049AA	POPPY	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/86. 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)
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10003AA	CASABAS	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10007AA	PERSTON MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10008AA	WATERMELON	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9F2221	P	0.100000		1.00	0.005000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED,CORNE,OR CURED	9F2221	P	0.100000		1.00	0.005000
10010AA	CUCUMBERS	21 COOKED-NFS	9F2221	P	0.100000		1.00	0.005000
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P	0.100000		1.00	0.005000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9F2221	P	0.100000		5.00	0.002500
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P	0.100000		5.00	0.002500
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
10017AA	BITTER MELON	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
11001AA	EGGPLANT	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
11001AA	EGGPLANT	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
11001AA	EGGPLANT	25 COOKED-FRESH-FRIED	6H5505	P	0.100000		100.00	0.005000
11003AA	PEPPERS,SWEET	10 RAW-FRESH OR NFS	1E2523	P	1.000000		7.00	0.070000
11003AA	PEPPERS,SWEET	21 COOKED-NFS	1E2523	P	1.000000		7.00	0.070000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P	1.000000		7.00	0.070000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	21 COOKED-NFS	1E2523	P	1.000000		7.00	0.070000
11004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P	1.000000		7.00	0.070000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		P	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		M	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS		M	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		P	0.500000		1.00	0.005000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED		N	0.500000		1.00	0.005000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 9

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2021-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	3E2819	P	2.000000	1.000000	37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	3E2819	P	2.000000	1.000000	37.00	0.370000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P	2.000000	1.000000	100.00	1.000000
13012AA	KOHLRABI	21 COOKED-NFS	3E2819	P	2.000000	1.000000	100.00	1.000000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P	0.100000	0.005000	100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13015AA	ENDIVE	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
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	6H5505	P	0.100000	0.005000	100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P	2.000000	1.000000	100.00	1.000000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	3E2819	P	2.000000	1.000000	100.00	1.000000
13022AA	PARSLEY	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13022AA	PARSLEY	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
13023AA	RHUBARB	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
13024AA	SPINACH	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	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.005000	100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P	0.100000	0.005000	100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	P	1.000000	0.300000	100.00	0.300000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	P	1.000000	0.300000	100.00	0.300000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P	1.000000	0.300000	100.00	0.300000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13027AA	WATERCRESS	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
13039AA	CRESS,UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	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	6H5505	P	0.100000	0.005000	100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000
13049AA	GRAPES-LEAVES	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
13999AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.005000	100.00	0.005000

Attachment 11 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-00-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
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
14003AA	CARROTS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		45.00	0.005000
14007AA	GARLIC	21 COOKED-NFS	0E2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	0E2387	P 0.500000	0.500000		45.00	0.225000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14010AA	LEEKS	31 COOKED-FRESH OR FROZEN	6E3389	P 0.500000	0.500000		100.00	0.500000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		100.00	0.500000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	0E2387	P 0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	0E2387	P 0.500000	0.500000		46.00	0.230000
1401DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	0E2387	P 0.500000	0.500000		46.00	0.230000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AB	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(WH)-DRY	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	8E2038	P 3.000000	2.000000		17.00	0.340000
14015AA	RUTABAGAS-ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	P 3.000000	0.500000		100.00	0.500000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	832038	P 3.000000	0.500000		100.00	0.500000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14016AA	SALSIFY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000

CHEMICAL Chlorpyrifos Caswell #219AA CAS No. 2921-86-2 A.I. CODE: 059101 CFR No. 180.342	STUDY TYPE Human 20 day feeding MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	EFFECTS Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	REFERENCE DOSES PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	DATA GAPS/COMMENTS New chronic/onco rat study has been reviewed; RfD to be reevaluated.	STATUS WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
14018AA	SWEET POTATOES	21 COOKED-MFS	6F1786	P 0.100000	0.050000		64.00	0.032000
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED	6F1786	P 0.100000	0.050000		64.00	0.032000
14018AA	SWEET POTATOES	51 COOKED-CANNED	6F1786	P 0.100000	0.050000		64.00	0.032000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR MFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14019AA	TURNIPS-ROOTS	21 COOKED-MFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14021AA	PARSNIPS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14024AA	YAMBEAN, TUBER	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AA	CASSAVA	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
14028AA	YAUTIA, TANNIER	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	25 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
15001AB	BEANS-DRY-GRY NO 00	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AB	BEANS-DRY-KIDNEY 21	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AC	BEANS-DRY-LIMA 31	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AD	BEANS-DRY-NAVY 21	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AD	BEANS-DRY-NAVY 31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER 25	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER 31	COOKED-FRESH-FRIED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-OTHER 31	COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15002AA	BEANS-SUCC-LIMA 10	RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AA	BEANS-SUCC-GREEN 21	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER 10	RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER 21	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-WAX 21	COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15004AA	CORN, POP	21 COOKED-MFS	6H5505	P 0.100000	0.005000		1.00	0.000500
15005AA	CORN, SHEET	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.005000		100.00	0.005000
15005AA	CORN, SHEET	21 COOKED-MFS	3F1306	P 0.100000	0.005000		65.00	0.005000
15005AA	CORN, SHEET	31 COOKED-FRESH OR CANNED	3F1306	P 0.100000	0.005000		65.00	0.005000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR MFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	21 COOKED-MFS	9F2193	P 0.500000	0.200000		26.00	0.052000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2193	P 0.500000	0.200000		26.00	0.052000
15007AA	PEAS DRY-GARDEN	31 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 02/11/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Caswell #219AA CAS No. 2921-80-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	0.0030000	10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	MRD last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15009AA	PEAS SUCC-GARDEN	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15015AA	OKRA	21 COOKED-MFS	9F2221	P 0.100000	0.100000		1.00	0.000500
15015AA	OKRA	25 COOKED-FRESH-FRIED	9F2221	P 0.100000	0.100000		10.00	0.010000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR MFS	2F2588	P 0.250000	0.100000		10.00	0.010000
15020AA	CAROB	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.050000		1.00	0.002500
15020AA	CAROB	21 COOKED-MFS	6H5505	P 0.100000	0.050000		100.00	0.005000
15020AA	CAROB	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.050000		100.00	0.005000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR MFS	6H5505	P 0.100000	0.050000		100.00	0.005000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.050000		1.00	0.000500
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15023AA	BEANS-DRY-PIGEON	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15026AA	SESAME SEEDS	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.050000		100.00	0.000500
15027AA	BEANS-UMSPEC	21 COOKED-MFS	6H5505	P 0.100000	0.050000		100.00	0.000500
15028AA	PINENUTS	10 RAW-FRESH OR MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15028AA	PINENUTS	21 COOKED-MFS	6H5505	P 0.100000	0.050000		100.00	0.000500
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.050000		100.00	0.000500
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.300000		1.00	0.003000
15030AB	BEANS-SUCC-HYACI	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLKEYE PEAS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
16002AA	ASPARAGUS	21 COOKED-MFS	9F2221	P 0.100000	0.050000		1.00	0.000500
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	2E2644	P 5.000000	5.000000		5.00	0.250000
16003AA	MUSHROOMS	10 RAW-FRESH OR MFS	3E2886	P 0.100000	0.100000		5.00	0.250000
16003AA	MUSHROOMS	31 COOKED-MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	53 COOKED-FRESH OR CANNED	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	10 RAW-FRESH OR MFS	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	21 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-MFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR MFS	3F1306	P 0.100000	0.050000		12.00	0.006000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

DATE: 02/11/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Cassell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP RfD= 0.0030000 EPA RfD= 0.0030000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
24002EA	CORN, GRAIN-ENDO	21 COOKED-WFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.050000		12.00	0.006000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	21 COOKED-WFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.006000
24003AA	OATS	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005VA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.750000	0.005000		5.00	0.037500
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	21 COOKED-WFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	21 COOKED-WFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	21 COOKED-WFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	21 COOKED-WFS	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.034000		100.00	0.034000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 11 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
24007AA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	M 0.400000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	M 0.400000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	M 0.400000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007AA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	3F2947	M 0.400000	0.005000		100.00	0.005000
24012AA	MILLET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24012AA	MILLET	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25001AA	HONEY	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25002SA	BEEF SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEF SUGAR	21 COOKED-NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEF SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BEEF SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CAME SUGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CAME SUGAR	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25004SA	MAPLE SYRUP	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
26011AA	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.000500
270010A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	1H323	P 3.000000	3.000000C		12.00	0.360000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
27003AA	FLAX SEED	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
270070A	PEANUTS-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
27008AA	SAFFLOWER-SEED	18 PROCESSED OIL	9H3226	P 1.500000	0.400000C		26.00	0.104000
270080A	SAFFLOWER-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000C		100.00	0.005000
270090A	SESAME-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.003000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/orco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. RED complete 02/21/86. EPA verified 03/11/86. RED complete 03/04/88. 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)
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P	0.250000		1.00	0.002500
270150A	COCOMUT-OIL	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
270150A	COCOMUT-OIL	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
270150A	COCOMUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P	0.100000		100.00	0.005000
270150A	COCOMUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P	0.100000		100.00	0.005000
270150A	COCOMUT-OIL	51 COOKED-CANNED	6H5505	P	0.100000		100.00	0.005000
270160A	OLIVE OIL	18 PROCESSED OIL	6H5505	P	0.100000		100.00	0.005000
270170A	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
270190A	PALM OIL	18 PROCESSED OIL	6H5505	P	0.100000		100.00	0.005000
280234A	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P	0.500000		1.00	0.003000
280234B	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P	0.500000		1.00	0.003000
280234B	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P	0.500000		1.00	0.003000
280234B	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P	0.500000		1.00	0.003000
280234B	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P	0.500000		1.00	0.003000
280234B	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9F2270	P	0.500000		1.00	0.003000
280234A	SOY-FL, FULL FAT	21 COOKED-NFS	9F2270	P	0.500000		1.00	0.003000
280234A	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P	0.500000		1.00	0.003000
280234A	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P	0.500000		1.00	0.003000
280234B	SOY-FL, LOW FAT	21 COOKED-NFS	9F2270	P	0.500000		1.00	0.003000
280234C	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	9F2270	P	0.500000		1.00	0.003000
280234C	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	P	0.500000		1.00	0.003000
280234C	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P	0.500000		1.00	0.003000
280234C	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P	0.500000		1.00	0.003000
280234C	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	P	0.500000		1.00	0.003000
280244B	ORNTL MCLEAF VEG	21 COOKED-NFS	6H5505	P	0.100000		1.00	0.003000
280400A	SEEDS-OTHER	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
280800A	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		100.00	0.005000
280800A	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		100.00	1.000000
280810A	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P	10.000000		100.00	8.000000C
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		100.00	1.000000
430577A	VINEGAR	10 RAW-FRESH OR NFS		P	10.000000		100.00	8.000000C
430577A	VINEGAR	21 COOKED-NFS		P	0.100000		100.00	0.005000
430580A	WINE AND SHERRY	10 RAW-FRESH OR NFS		P	0.100000		100.00	0.005000
430580A	WINE AND SHERRY	21 COOKED-NFS		P	0.500000		100.00	0.500000
430590A	DIST ALCOHOL	21 COOKED-NFS		P	0.500000		1.00	0.005000
430600A	GELATIN	10 RAW-FRESH OR NFS		P	0.100000		100.00	0.005000
430600A	GELATIN	21 COOKED-NFS		P	0.100000		100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS		P	0.020000		100.00	0.005000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS		P	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED		P	0.020000		100.00	0.020000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 02/11/93

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species.	Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	UMD last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P	0.500000		100.00	0.500000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	P	0.500000		100.00	0.500000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	P	0.500000		100.00	0.500000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	P	0.020000		100.00	0.020000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P	0.020000		100.00	0.020000
530018A	BEEF-MEAT BYPROD	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M	2.000000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M	2.000000	3F02884	100.00	0.050000
53001DA	BEEF-ORIED	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	24 COOKED-FRESH-BOILED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	3F1306	M	2.000000	3F02884	100.00	0.050000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	3F1306	M	2.000000	3F02884	100.00	0.050000
53001HA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
53001HA	BEEF-LEAN	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001HA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001HA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001HA	BEEF-LEAN	24 COOKED-FRESH-BOILED	3F1306	M	2.000000	3F02884	100.00	0.200000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P	1.000000		100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P	1.000000		100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53002HA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P	1.000000		100.00	1.000000
53002HA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P	1.000000		100.00	1.000000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53004AA	RABBIT	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.250000
53004AA	RABBIT	25 COOKED-FRESH-FRIED	6H5505	P	0.100000		100.00	0.050000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	P	1.000000		100.00	1.000000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	P	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P	1.000000		100.00	1.000000
53005LA	SHEEP-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000		100.00	1.000000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species.	Decreased plasma ChE No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 DPP RfD= 0.0030000 EPA RfD= 0.0030000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. 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)
53005MA	SHEEP-LEAN	21 COOKED-MFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53006BA	PORK-NEAT BYP	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006KA	PORK-KIDNEY	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53010AA	FISH-UNSPEC	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH,SHELL	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH,SHELL	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH,SHELL	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.100000		100.00	0.100000
53014AA	MEAT,GAME	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53014AA	MEAT,GAME	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.100000		100.00	0.100000
53015AA	FISH-ROE,CAVIAR	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53015AA	FISH-ROE,CAVIAR	51 COOKED-CANNED	6M5505	P 0.100000	0.100000		100.00	0.100000
53016AA	FISH,FIN-FRESH	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53016AA	FISH,FIN-FRESH	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH,FIN-SALT	10 RAW-FRESH OR MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH,FIN-SALT	21 COOKED-MFS	6M5505	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH,FIN-SALT	25 COOKED-FRESH-FRIED	6M5505	P 0.100000	0.100000		100.00	0.100000
53017DA	FISH,FIN-SLT-DRY	12 RAW-FRESH-DRIED	6M5505	P 0.100000	0.100000		100.00	0.100000
53008BA	TURKEY-BYPRODUCT	21 COOKED-MFS	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY-BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY ORGAN	21 COOKED-MFS	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY W/O SKIN	31 COOKED-MFS	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY W/O SKIN	21 COOKED-MFS	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000
53008BA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.010000	0.010000	FEEDING STUDY	100.00	0.010000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 18

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlordyifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg 0.00 ppm 0.00 ppm OMCO: Negative- 1 species.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PADI UF -->10 OPP RfD= 0.003000 EPA RfD= 0.003000	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
5500BMC	TURKEY-UNSPEC	21	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY, OTH-BYP	00	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY, ORGAN	25	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY, OTHER	21	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	10	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	21	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	22	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	23	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	25	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	10	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	21	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	22	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AB	EGGS-WHITE ONLY	62	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	81	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	10	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	21	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	25	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	31	0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55015BA	CHICKEN-BYPROD	00	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	21	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	25	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	26	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	21	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	22	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	25	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	31	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-M/O SKIN	53	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	21	0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	25	0.500000	0.010000	FEEDING STUDY	100.00	0.010000

Attachment 11 (cont.)

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species. inadequate.	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PA01 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/86. On IRIS.

POPULATION SUBGROUP	TOTAL THRC (MG/KG BODY WEIGHT/DAY)		NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
	CURRENT THRC*	NEW THRC**			ARC	TRFD
U.S. POPULATION - 48 STATES	0.010737	0.012029	400.969300	43.056567	0.001450	48.33000
U.S. POPULATION - SPRING SEASON	0.010454	0.011690	389.674500	41.211467	0.001396	46.52537
U.S. POPULATION - SUMMER SEASON	0.010364	0.011666	388.865933	43.389400	0.001422	47.41360
U.S. POPULATION - FALL SEASON	0.011059	0.012374	412.477033	43.837533	0.001491	49.70280
U.S. POPULATION - WINTER SEASON	0.010931	0.012244	408.148267	43.797133	0.001444	48.14577
NORTHEAST REGION	0.011695	0.013031	434.357367	44.515933	0.001486	49.54390
NORTH CENTRAL REGION	0.010575	0.011927	397.555500	45.043400	0.001472	49.08153
SOUTHERN REGION	0.009719	0.010911	363.688133	39.711367	0.001363	45.42313
WESTERN REGION	0.011253	0.012572	419.080133	43.982367	0.001455	48.50693
HISPANICS	0.012424	0.013822	460.742467	46.598600	0.001609	53.63150
NON-HISPANIC WHITES	0.010605	0.011936	397.858267	44.343567	0.001415	47.17653
NON-HISPANIC BLACKS	0.010283	0.011290	376.324867	33.550033	0.001480	49.32763
NON-HISPANIC OTHERS	0.012724	0.013891	463.017433	38.870000	0.001678	55.92837
MURSING INFANTS (< 1 YEAR OLD)	0.015014	0.015316	510.518167	10.060033	0.001352	45.05340
NON-MURSING INFANTS (< 1 YEAR OLD)	0.026864	0.027762	925.416000	29.946233	0.003593	119.77620
FEMALES (13+ YEARS, PREGNANT)	0.007832	0.008890	296.316900	35.255133	0.001047	34.88640
FEMALES 13+ YEARS, MURSING	0.008612	0.009791	326.372233	39.296667	0.001195	39.82607
CHILDREN (1-6 YEARS OLD)	0.024440	0.027106	903.545033	88.869967	0.003173	105.75950
CHILDREN (7-12 YEARS OLD)	0.015262	0.017317	577.246133	68.504400	0.002153	71.75370
MALES (13-19 YEARS OLD)	0.010147	0.011616	387.185633	48.940567	0.001502	50.06730
FEMALES (13-19 YEARS OLD, NOT PREG. OR MURSING)	0.008811	0.009983	332.775133	39.064600	0.001224	40.81187
MALES (20 YEARS AND OLDER)	0.008028	0.009057	301.885433	34.299633	0.001131	37.68900
FEMALES (20 YEARS AND OLDER, NOT PREG. OR MURS)	0.007831	0.008757	291.908633	30.858967	0.000986	32.87127

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

TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASSELL #219AA

DATE: 02/11/93

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.001121 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 37.363 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: 0.000329 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 10.967 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.001450 MG/KG/DAY
THE NEW ARC WILL OCCUPY 48.330 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.003294 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 109.784 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: 0.000300 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 9.992 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.003593 MG/KG/DAY
THE NEW ARC WILL OCCUPY 119.776 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.002572 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 85.745 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: 0.000600 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 20.014 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.003173 MG/KG/DAY
THE NEW ARC WILL OCCUPY 105.760 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

TOLERANCE ASSESSMENT SUMMARY FOR Chlorpyrifos
USING ANTICIPATED RESIDUES
CASWELL #219AA

DATE: 02/11/93

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (7-12 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)		
RESULT IN AN ARC OF:	0.001684	MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO:	56.121	% OF THE ADI.
PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
RESULT IN AN ARC OF:	0.000469	MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:	15.633	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.002153	MG/KG/DAY
THE NEW ARC WILL OCCUPY	71.754	% OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

Attachment 13 (cont.)