



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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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.

Chemistry Commodity
Cattle, Meat Byproducts

Corn, Grain

Cottonseed

Eggs

Goats, Meat Byproducts

Hogs, Meat Byproducts

Horses, Meat, Fat, and
Meat Byproducts

Legume Vegetables, Succu-
lent or Dried (Except
Soybeans)

DRES Commodity(ies)

Cattle, Meat Byproducts

Beef (Organ Meats)-Other

Beef-Kidney

Beef-Liver

Corn, Grain-Endosperm

Corn, Grain-Bran

Corn Sugar

Cotton, Seed, Oil

Cotton, Seed, Meal

Eggs

Eggs-White Only

Eggs-Yolk Only

Goats, Meat Byproducts

Goats (Organ Meats)-Other

Goats-Kidney

Goats-Liver

Hogs, Meat Byproducts

Hogs, Organ Meats-Other

Hogs, Kidney

Hogs, Liver

Horses (All or

Unspecified)

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	10.3% "
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	6.8% "
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
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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

DATE: 10/29/92 PAGE: 1

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 ONCD: 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)
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
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)	6W5505	P 0.100000	0.005000		100.00	0.005000
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
01010AA	CRANBERRIES	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	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	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	6W5505	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)	6W5505	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)	6W5505	P 0.100000	0.005000		100.00	0.005000

Attachment 1

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 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)
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	31 COOKED-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
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	0.100000	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	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	1.000000		39.00	0.390000
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-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	1.000000		39.00	0.390000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
02008AA	TANGERINES	15 RAW-FRESH OR CANNED	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02008JA	ALMONDS	10 RAW-FRESH OR NFS	1F2575	P 1.000000	0.100000	PROCESS. STUDY	39.00	0.039000
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P 0.200000	0.050000C	PROCESS. STUDY	39.00	0.019500
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		16.00	0.032000
03002AA	BRAZIL NUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000

DATE: 10/29/92

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 4

DATE: 10/29/92

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PADI UF -->10		New chronic/onco rat		HED complete 2/21/86.	
Caswell #219AA		MOEL= 0.0300 mg/kg		No other systemic effects		OPP RfD= 0.003000		study has been reviewed;		EPA verified 3/11/86.	
CAS No. 2921-88-2		0.00 ppm		identified.		EPA RfD= 0.003000		RfD to be reevaluated.		HED reassess 3/04/88.	
A.I. CODE: 059101		LEL= 0.1000 mg/kg		Negative for oncogenicity						WHO last reviewed 1982.	
CFR No. 180.342		0.00 ppm		in the mouse, rat study						On IRIS.	
		OMCD: Negative- 1 species.		Inadequate.							
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUM (ppm)			
050010A	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	6W5505	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		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	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		60.00	0.006000			
05005AA	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	22 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000		9.00	0.000900			
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		9.00	0.000900			
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.050000	0.010000		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	6W5505	P 0.100000	0.005000		100.00	0.010000			
06003DA	COCONUT-COPRA	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.010000			
06003DA	COCONUT-COPRA	21 COOKED-NFS	6W5505	P 0.100000	0.005000C		100.00	0.005000			
06003DA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000C		100.00	0.005000			
06003DA	COCONUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	6W5505	P 0.100000	0.005000C		100.00	0.005000			
06004AA	DATES	10 RAW-FRESH OR NFS	6E3439	P 0.500000	0.005000		100.00	0.005000			
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.500000	0.005000		100.00	0.005000			
06004AA	DATES	22 COOKED-FRESH-BAKED	6E3439	P 0.500000	0.005000		100.00	0.005000			
06005AA	FIGS	10 RAW-FRESH OR NFS	2E2668	P 0.100000	0.010000		100.00	0.500000			
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.500000			

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 5

DATE: 10/29/92

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 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)
06005AA	FIGS	22 COOKED-FRESH-BAKED	2E2668	P 0.100000	0.010000		7.00	0.000700
06006AA	GUAVA	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	6M5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOES	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6M5505	P 0.100000	0.005000		100.00	0.005000
06009AA	OLIVES	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06011AA	PAPPAUS	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	6M5505	P 0.100000	0.005000		100.00	0.005000
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
06015AA	POMEGRANATES	21 COOKED-NFS	6M5505	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)	6M5505	P 0.100000	0.005000		100.00	0.005000
06017DA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	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)	6M5505	P 0.100000	0.005000		100.00	0.005000
06021AA	GINKGO NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06022AA	MANEY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06023AA	PITANGA	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06024AA	SOURSOP	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P 0.100000	0.005000		100.00	0.005000

Attachment 1 (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 OMCQ: 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)
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	CARAMELO	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06030AA	CHERIMOYA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06031AA	LONGAN FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
06032AA	GENIP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
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
08006AA	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	CARAWAY	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	NOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.100000
08022AA	MORSEADISH	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	MUTNEG	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08029AB	NACE	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)	1E2523	P 1.000000	1.000000		100.00	0.005000
08049AA	PUPPY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		7.00	0.070000
							100.00	0.005000

Attachment 1 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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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 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	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELLOWS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10007AA	PERSON MELLOWS	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	6H5505	P 0.100000	0.005000		100.00	0.005000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, 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	0.000500
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	TOMELGOURD	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
10013AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AA	PEPPERS, SWEET	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AB	CHILI PEPPERS	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
10013AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10004AA	PINIENTOS	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
10004AA	PINIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
10005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	P 0.500000	P 0.500000	0.500000		1.00	0.005000
10005AA	TOMATOES-WHOLE	21 COOKED-NFS	P 0.500000	P 0.500000	0.500000		1.00	0.005000
10005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	P 0.500000	P 0.500000	0.500000		1.00	0.005000
10005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	P 0.500000	P 0.500000	0.500000		1.00	0.005000
10005JA	TOMATOES-JUICE	21 COOKED-NFS	P 0.500000	P 0.500000	0.500000		1.00	0.005000
10005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	P 0.500000	P 0.500000	0.500000		1.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 8

DATE: 10/29/92

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 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)
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 0.500000	0.500000		1.00	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
13003AA	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		22.00	0.220000
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		13.00	0.130000
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	3E2819	P 2.000000	1.000000		100.00	1.000000
13012AA	KOHLRABI	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13013AA	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	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

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PAOI	UF		
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 OMCQ: 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)
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
13026AA	TURNIPS-TOPS	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
13027AA	WATERCRESS	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
14005AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	0E2387	P 0.500000	0.500000		45.00	0.225000
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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[illegible]

4007AA	4009AA	4010AA	4011AA	4012AA	4013AA	4014AA	4015AA	4016AA	4017AA	4018AA	4019AA	4020AA	4021AA	4022AA	4023AA	4024AA	4025AA	4026AA	4027AA	4028AA	4029AA	4030AA	4031AA
GARLIC	ARTICHOKES-JER	LEEKS	ONIONS-DRY-BULB	ONIONS-DRY-BULB	ONIONS-DRY-BULB	ONIONS-DRY-BULB	ONIONS-DRY-BULB	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE	POTATOC(WH)-WHOLE
32 COOKED-FRESH OR CANNED-BAKED	00 NOT SPECIFIED (NO CONSUMPTION)	31 COOKED-FRESH OR CANNED	10 RAW-FRESH OR NFS	21 COOKED-FRESH	22 COOKED-FRESH-BAKED	31 COOKED-FRESH OR CANNED	12 RAW-FRESH-DRIED	10 RAW-FRESH OR NFS	21 COOKED-FRESH	22 COOKED-FRESH-BAKED	23 COOKED-FRESH-BOILED	25 COOKED-FRESH-FRIED	10 RAW-FRESH OR NFS	31 COOKED-FRESH OR CANNED	22 COOKED-FRESH-BAKED	00 NOT SPECIFIED (NO CONSUMPTION)	10 RAW-FRESH OR NFS	21 COOKED-FRESH	22 COOKED-FRESH-BAKED	23 COOKED-FRESH-BOILED	25 COOKED-FRESH-FRIED	10 RAW-FRESH OR NFS	31 COOKED-FRESH OR CANNED
0E2387	6H5505	6E3389	0E2387	0E2387	0E2387	0E2387	0E2387	6H5505	6H5505	6H5505	6H5505	6H5505	6H5505	6H5505	6H5505	6E2038	6H5505	832038	832038	6H5505	6H5505	6H5505	6H5505
P 0.500000	P 0.100000	P 0.500000	P 0.500000	P 0.500000	P 0.500000	P 0.500000	P 0.500000	P 0.100000	P 0.100000	P 0.100000	P 0.100000	P 0.100000	P 0.100000	P 0.100000	P 0.100000	P 3.000000	P 0.100000	P 3.000000	P 3.000000	P 0.100000	P 0.100000	P 0.100000	P 0.100000
0.500000	0.005000	0.500000	0.500000	0.500000	0.500000	0.500000	0.500000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	2.000000	0.005000	0.500000	0.500000	0.005000	0.005000	0.005000	0.005000
45.00	100.00	100.00	46.00	46.00	46.00	46.00	46.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	17.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
0.225000	0.005000	0.500000	0.230000	0.230000	0.230000	0.230000	0.230000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	0.005000	0.340000	0.005000	0.500000	0.500000	0.005000	0.005000	0.005000	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 10/29/92

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.	PAD1 UF -->10 OPP Rfd= 0.003000 EPA Rfd= 0.003000	New chronic/orco 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 RLM (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
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	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
15001AE	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	0.050000		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-NFS	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
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	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	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
15018AA	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		1.00	0.002500
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

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 10/29/92

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 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 3/04/88. 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 RLM (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	6W5505	P 0.100000	0.005000		100.00	0.005000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15028AA	PINE NUTS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
15028AA	PINE NUTS	21 COOKED-NFS	6W5505	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-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	BLUEYEA 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	0.000500
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
16004AA	ONIONS-GREEN	53 COOKED-CANNED-BOILED	6W5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	21 COOKED-NFS	6W5505	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
24002NA	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-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	6W5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6W5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6W5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000

Attachment 1 (cont.)

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.	PD01 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 RLM (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
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005UA	RYE-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24005UA	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		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	A 0.400000	0.495000		100.00	0.005000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.495000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	3F2947	A 0.400000	0.495000		100.00	0.005000
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	A 0.400000	0.495000		100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.495000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	A 0.400000	0.495000		100.00	0.005000
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	0.495000		100.00	0.495000
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	0.495000		100.00	0.495000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.495000		100.00	0.495000
24007NA	WHEAT-BRAN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-BRAN	21 COOKED-NFS	3F2947	A 0.400000	0.495000		100.00	0.005000
24007NA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.495000
24007NA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.495000		100.00	0.005000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.495000		100.00	0.495000
24007NA	WHEAT-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	A 0.400000	0.495000		100.00	0.495000
24007NA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.495000		100.00	0.495000
24007NA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	3F2947	A 0.400000	0.495000		100.00	0.495000
4012AA	MILLET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
4012AA	MILLET	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.495000
5001AA	HONEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
5001AA	HONEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
5001AA	HONEY	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
5002SA	BEET SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	0.005000		25.00	0.005000
5002SA	BEET SUGAR	21 COOKED-NFS	2F2684	P 1.000000	1.000000		25.00	0.250000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 14

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PAD1	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma CHE.	OPP RfD= 0.003000	10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000			EPA verified 3/11/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study				HED reassess 3/04/88.
A.I. CODE: 059101	0.00 ppm	Inadequate.				WHO last reviewed 1982.
CFR No. 180.342	OMQD: 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 RUM (ppm)
250025A	BET SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
250025A	BET 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	QUAR 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
270030A	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
270080A	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	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
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

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	Human 20 day feeding	Decreased plasma ChE.	PADI UF --->10	New chronic/onco rat	HED complete 2/21/86.
Caswell #219AA	NOEL= 0.0500 mg/kg	No other systemic effects	OPP RfD= 0.003000	study has been reviewed;	EPA verified 3/11/86.
CAS No. 2921-88-2	0.00 ppm	identified.	EPA RfD= 0.003000	RfD to be reevaluated.	HED reassess 3/04/88.
A.I. CODE: 059101	LEL= 0.1000 mg/kg	Negative for oncogenicity			WHO last reviewed 1982.
CFR No. 180.342	0.00 ppm	in the mouse, rat study			On IRIS.
	ONCO: Negative- 1 species.	inadequate.			

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
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	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
28023AC	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	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
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	1.000000		100.00	1.000000
28081AA	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	8.000000C		100.00	8.000000
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.000000	1.000000		100.00	1.000000
43057AA	VINEGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
43057AA	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
43058AA	WINE AND SHERRY	21 COOKED-NFS	2E2584	P 0.500000	0.500000		100.00	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
43060AA	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
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000SA	MILK SUG (LACT)	21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
530018A	BEEF-NEAT BYP	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	BEEF-NEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018B	BEEF-OTH ORGAN	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018B	BEEF-OTH ORGAN	51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	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

Attachment 1 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 10/29/92

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

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-NFS	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
53001NA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001NA	BEEF-LEAN	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001NA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001NA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001NA	BEEF-LEAN	24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53002BA	GOAT-NEAT 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
53002NA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002NA	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-NFS	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-NEAT BYP	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BA	SHEEP-OTH ORGAN	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
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	P 1.000000	1.000000		100.00	1.000000
53005NA	SHEEP-LEAN	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005NA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000
53006AA	PORK-NEAT BYP	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006AB	PORK-OTH ORGAN	21 COOKED-NFS	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 NFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT	21 COOKED-NFS	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-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-NFS	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
53006NA	PORK-LEAN	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 10/29/92

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.	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,CORNEED,OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000
53010AA	FISH-UNSPEC	21 COOKED-NFS	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-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
53014AA	MEAT,GAME	21 COOKED-NFS	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-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
53015AA	FISH-ROE,CAVIAR	51 COOKED-CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH,FIN-FRESH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
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-NFS	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-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
55008BA	TURKEY-BYP	21 COOKED-NFS	6F1673	P 0.500000	0.005000	FEEDING STUDY	100.00	0.005000
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
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	21 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 0.100000	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-NFS	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 OR FROZEN-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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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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: 050101 CFR No. 180.342	Human 20 day feeding NOEL= 0.0300 mg/kg LEL= 0.00 ppm 0.1000 mg/kg 0.00 ppm OMCO: 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.	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
550158A	CHICKEN-BYP	31 COOKED-FRESH OR CANNED	6F1673	P 0.100000	0.010000		100.00	0.010000
55015LA	CHICKEN-ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	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

DATE: 10/29/92

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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 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.

TOTAL TMRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP

POPULATION SUBGROUP	CURRENT TMRC*	NEW TMRC**	NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
					ARC	20RFD
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	108.84687
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.

Attachment 2

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 1

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)
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)	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	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		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 - 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 - RAISINS	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
01014AA	GRAPES - JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		1.00	0.005000
01015AA	HUCKLEBERRIES	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

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 10/29/92

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.	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)	6W5505	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	LINES-UNSPEC	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
02005NA	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
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
02006JA	ORANGES-JUICE	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	0.019500
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		16.00	0.032000
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
03002AA	BRAZIL NUTS	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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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
33003AA	CASHEWS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33003AA	CASHEWS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33004AA	CHESTNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33005AA	FILBERTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
33005AA	FILBERTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		69.00	0.138000
33005AA	FILBERTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		69.00	0.138000
33006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33008AA	PECANS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
33008AA	PECANS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		5.00	0.010000
33008AA	PECANS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
33008AA	PECANS	23 COOKED-FRESH-BOILED	4F2999	P 0.200000	0.200000		5.00	0.010000
33008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	4F2999	P 0.200000	0.200000		5.00	0.010000
33009AA	WALNUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
33009AA	WALNUTS	21 COOKED-NFS	4F2999	P 0.200000	0.200000		10.00	0.020000
33009AA	WALNUTS	22 COOKED-FRESH-BAKED	4F2999	P 0.200000	0.200000		10.00	0.020000
33010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	4F2999	P 0.200000	0.200000		100.00	0.200000
33011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000		100.00	0.200000
33013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
33013AA	BEECHNUTS	4F2999	4F2999	P 0.200000	0.200000		100.00	0.200000
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	21 COOKED-NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	22 COOKED-FRESH-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	62 COOKED-FRESH OR FROZEN-BAKED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	15 RAW-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	31 COOKED-FRESH OR CANNED	2F2620	P 1.500000	0.500000	FIELD TRIALS	35.00	0.175000
33013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.100000C	PROCESS. STUDY	35.00	0.035000
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.005000	PROCESS. STUDY	100.00	0.005000
33013AA	BEECHNUTS	31 COOKED-FRESH OR CANNED	6F1786	P 0.050000	0.010000	PROCESS. STUDY	54.00	0.005400
33013AA	BEECHNUTS	51 COOKED-CANNED	6F1786	P 0.050000	0.010000	PROCESS. STUDY	54.00	0.005400
33013AA	BEECHNUTS	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	P 0.050000	0.010000	PROCESS. STUDY	54.00	0.005400
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.010000	PROCESS. STUDY	54.00	0.005400
33013AA	BEECHNUTS	21 COOKED-NFS	6F1786	P 0.050000	0.010000	PROCESS. STUDY	54.00	0.005400
33013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000	PROCESS. STUDY	100.00	0.005000
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000	PROCESS. STUDY	100.00	0.005000
33013AA	BEECHNUTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000	PROCESS. STUDY	100.00	0.005000
33013AA	BEECHNUTS	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000	PROCESS. STUDY	100.00	0.005000
33013AA	BEECHNUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C	PROCESS. STUDY	100.00	0.005000

Attachment 3 (cont.)

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DATE: 10/29/92

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PADI UF -->10		New chronic/onco rat		MED complete 2/21/86.	
Casswell #219AA		NOEL= 0.0300 mg/kg		No other systemic effects		OPP RfD= 0.003000		study has been reviewed;		EPA verified 3/11/86.	
CAS No. 2921-88-2		0.00 ppm		identified.		EPA RfD= 0.003000		RfD to be reevaluated.		MED reassess 3/04/88.	
A.I. CODE: 059101		LEL= 0.1000 mg/kg		Negative for oncogenicity							
CFR No. 180.342		0.00 ppm		in the mouse, rat study							
		OMCO: Negative- 1 species.		inadequate.						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)
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
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	1E2529	P 2.000000	1.000000		4.00	0.040000
050020A	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		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	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
050040A	PEACHES-DRIED	51 COOKED-CANNED	3F1306	P 0.050000	0.010000		60.00	0.006000
050040A	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-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	0.000900
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	3F1370	P 0.050000	0.010000		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
06002BA	BANANAS-DRIED	10 RAW-FRESH OR NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06002BA	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	0.005000		100.00	0.010000
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
060030A	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	0.005000
06004AA	DATES	21 COOKED-NFS	6E3439	P 0.500000	0.500000		100.00	0.005000
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	0.500000
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS						7.00	0.000700

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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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 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.	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-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	GINNCO 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.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 6

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos Cassell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342	Human 20 day feeding	Decreased plasma ChE.	OPP RfD= 0.003000	10	New chronic/onco rat	HED complete 2/21/86.
	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000		Study has been reviewed;	EPA verified 3/11/86.
	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study			RfD to be reevaluated.	HED reassess 3/04/88.
	0.00 ppm	inadequate.				WHO last reviewed 1982.
	ONCO: 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)
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
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)	1E2529	P 0.100000	0.100000		100.00	0.100000
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
08020AA	HOPS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
08022AA	HORSERADISH	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6H5505	P 0.100000	0.005000		100.00	0.005000
08023AA	ROSEMARY	00 NOT SPECIFIED (NO CONSUMPTION)	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	MUTNEG	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	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
08048AA	PAPRIKA	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.005000
08049AA	POPPY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 7

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlordane	Human 20 day feeding	Decreased plasma ChE.	OPP RfD= 0.003000	10	New chronic/onco rat	HED complete 2/21/86.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects	EPA RfD= 0.003000		study has been reviewed;	EPA verified 3/11/86.
CAS No. 2921-88-2	0.00 ppm	Identified.			RfD to be reevaluated.	HED reassess 3/04/88.
A.I. CODE: 059101	LEL= 0.1000 mg/kg	Negative for oncogenicity				
CFR No. 180.342	0.00 ppm	in the mouse, rat study				
	OMCO: Negative- 1 species.	inadequate.				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	PERSON 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, CORNED, 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
10013AA	SQUASH-SUMMER	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P 0.100000	0.005000		100.00	0.005000
10013AA	SQUASH-SUMMER	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
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	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

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 8

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 MOEL= 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.	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)
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 0.500000	0.500000	1.00	0.005000
13001AA	BEEETS-TOPS	31	COOKED-FRESH OR CANNED	P 0.100000	0.005000	100.00	0.005000
13001AA	BEEETS-TOPS	63	COOKED-FRESH OR FROZEN-BOILED	P 0.100000	0.005000	100.00	0.005000
13002AA	CELERY	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13002AA	CELERY	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
13003AA	CHICORY	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13003AA	BROCCOLI	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
13005AA	BROCCOLI	31	COOKED-FRESH OR CANNED	P 2.000000	1.000000	14.00	0.140000
13005AA	BROCCOLI	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	14.00	0.140000
13006AA	BRUSSEL SPROUTS	23	COOKED-NFS	P 2.000000	1.000000	22.00	0.220000
13007AA	CABBAGE	10	RAW-FRESH OR NFS	P 2.000000	1.000000	13.00	0.130000
13007AA	CABBAGE	11	RAW-FRESH-PICKLED,CORNEED,OR CURED	P 2.000000	1.000000	13.00	0.130000
13007AA	CABBAGE	21	COOKED-NFS	P 2.000000	1.000000	13.00	0.130000
13008AA	CAULIFLOWER	10	RAW-FRESH OR NFS	P 2.000000	1.000000	12.00	0.120000
13009AA	COLLARDS	51	COOKED-CANNED	P 2.000000	1.000000	12.00	0.120000
13009AA	COLLARDS	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	17.00	0.170000
13010AA	CABBAGE-CHINESE	10	RAW-FRESH OR NFS	P 2.000000	1.000000	17.00	0.170000
13010AA	CABBAGE-CHINESE	21	COOKED-NFS	P 2.000000	1.000000	37.00	0.370000
13011AA	KALE	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	100.00	1.000000
13012AA	KOHLRABI	21	COOKED-NFS	P 2.000000	1.000000	100.00	1.000000
13013AA	LETTUCE-LEAFY	10	RAW-FRESH OR NFS	P 2.000000	0.005000	100.00	0.005000
13014AA	DANDELION	63	COOKED-FRESH OR FROZEN-BOILED	P 0.100000	0.005000	100.00	0.005000
13015AA	ENDIVE	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13015AA	ENDIVE	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
13016AA	FENNEL	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000	100.00	0.005000
13017AA	CRESS	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000	100.00	0.005000
13018AA	ARTICHOKE-GLOBE	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
13020AA	LETTUCE-UNSPEC	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13021AA	MUSTARD GREENS	21	COOKED-NFS	P 2.000000	1.000000	100.00	1.000000
13021AA	MUSTARD GREENS	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	100.00	1.000000

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 9

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PM01	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.	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
13026AA	TURNIPS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	DE2411	P 1.000000	0.300000		100.00	0.300000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	DE2411	P 1.000000	0.300000		100.00	0.300000
13027AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	DE2411	P 1.000000	0.300000		100.00	0.300000
13027AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	TURNIPS-TOPS	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	DE2387	P 0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	DE2387	P 0.500000	0.500000		45.00	0.225000

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASMELL NUMBER 219AA

PAGE: 10

DATE: 10/20/92

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

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	ARTICHOKES-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 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(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)-UNPEE	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
14013DA	POTATO(UH)-DRY	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
14013AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	6E2038	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	SALSTIFY	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	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	0E2411	P 3.000000	1.000000		100.00	1.000000
14021AA	PARSNIPS	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

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 11

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.	PAOI 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	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14031AA	WATER CHESTNUTS	6H5505	P 0.100000	0.005000		100.00	0.005000
15001AA	BEANS-DRY-GRT 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-LIMA 31 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-NAVY 21 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS	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
15002AA	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-GREEN 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-WAX 21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15004AA	CORN, POP 21 COOKED-NFS	6H5505	P 0.100000	0.050000		1.00	0.000500
15005AA	CORN, SWEET 10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.100000		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-NFS	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
15009AA	PEAS SUCC-GARDEN 21 COOKED-NFS	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	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	0.100000		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 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	0.002500
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

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 12

DATE: 10/29/92

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	OPP RfD= 0.003000	10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000			EPA verified 3/11/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.				HED reassess 3/04/88.
A.I. CODE: 059101	ONCO: Negative- 1 species.					WHO last reviewed 1982.
CFR No. 180.342						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-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	0.000500
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.000500
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15028AA	PINE NUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
15028AA	PINE NUTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.500000	0.300000		1.00	0.000500
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	BLU EYE PEAS-DRY	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15032AA	BEANS-DRY	21 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	0.000500
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	0.000500
16004AA	ONIONS-GREEN	21 COOKED-NFS	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-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24001AA	BARLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.005000		100.00	0.000500
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	3F1306	P 0.100000	0.050000		12.00	0.004000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.004000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	3F1306	P 0.100000	0.050000		12.00	0.004000
24002HA	CORN, GRAIN-BRAW	00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.004000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.004000
24002SA	CORN SUGAR	21 COOKED-NFS	3F1306	P 0.100000	0.050000		12.00	0.004000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	3F1306	P 0.100000	0.050000		12.00	0.004000
24003AA	OATS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.000500
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.000500
24004AA	RICE-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24004AA	RICE-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.000500
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.000500
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.000500

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 13

DATE: 10/29/92

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 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.	WED complete 2/21/86. EPA verified 3/11/86. WED 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
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-FLOUR	21 COOKED-NFS	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		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	A 0.400000	0.034000		100.00	0.005000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.034000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	3F2947	A 0.400000	0.034000		100.00	0.005000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.034000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.034000		100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	6H5505	P 0.100000	0.005000		100.00	0.034000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	A 0.400000	0.034000		100.00	0.005000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.034000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.034000		100.00	0.005000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.034000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.034000		100.00	0.005000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.034000
24007NA	WHEAT-BRAN	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.034000		100.00	0.005000
24007NA	WHEAT-BRAN	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.090000
24007NA	WHEAT-BRAN	21 COOKED-NFS	3F2947	A 0.400000	0.090000		100.00	0.005000
24007NA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.090000
24007NA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.090000		100.00	0.005000
24007NA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	A 0.400000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	A 0.400000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	3F2947	A 0.400000	0.005000		100.00	0.005000
24007NA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007NA	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-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	BET SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.005000
25002SA	BET SUGAR	21 COOKED-NFS	2F2684	P 1.000000	1.000000		25.00	0.250000

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 14

DATE: 10/20/92

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS		
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	PADI UF -->10	New chronic/onco rat	MED complete 2/21/86.			
Caswell #219AA	MOEL= 0.0300 mg/kg	No other systemic effects	OPP RfD= 0.003000	study has been reviewed;	EPA verified 3/11/86.			
CAS No. 2921-88-2	0.00 ppm	identified.	EPA RfD= 0.003000	RfD to be reevaluated.	MED reassess 3/04/88.			
A.I. CODE: 059101	LEL= 0.1000 mg/kg	Negative for oncogenicity						
CFR No. 180.342	0.00 ppm	in the mouse, rat study						
	ONCO: Negative- 1 species.	inadequate.			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	BET SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BET SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE 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-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
26001AA	BUCKWHEAT	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.005000
270010A	GUAR 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
27003AA	COTTONSEED-MEAL	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
270080A	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	6H5505	P 0.100000	0.005000		1.00	0.003000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	9F2270	P 0.500000	0.300000		1.00	0.002500
270150A	COCOAUT-OIL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOAUT-OIL	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOAUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOAUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOAUT-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

Attachment 3 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

DATE: 10/29/92

PAGE: 15

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 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)	ARTICULATED 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			
28023AA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000			
28023AA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000			
28023AB	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			
28023AC	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000			
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P 0.500000	0.300000		1.00	0.003000			
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P 0.500000	0.300000		1.00	0.003000			
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000			
28024AB	ORNTL MOLEAF VEG	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000			
28040AA	SEEDS-OTHER	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000			
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P 1.000000	1.000000		100.00	1.000000			
28080AA	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			
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P 10.00000	8.000000C		100.00	8.000000			
43057AA	VINEGAR	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000			
43057AA	VINEGAR	21 COOKED-NFS	6M5505	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			
43058AA	WINE AND SHERRY	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000			
43059AA	DIST ALCOHOL	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000			
43060AA	GELATIN	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000			
43060AA	GELATIN	21 COOKED-NFS	6M5505	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			
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	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			
530018A	BEEF-MEAT BYP	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000			
530018A	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000			
530018B	BEEF-OTH ORGAN	21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000			
530018B	BEEF-OTH ORGAN	51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000			
53001FA	BEEF-DRIED	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			

Attachment 3 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 16

DATE: 10/29/92

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 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.	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-NFS	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 NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	21 COOKED-NFS	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	3F02884	100.00	1.000000
53002BA	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	0.250000	3F02884	100.00	0.250000
53004AA	RABBIT	21 COOKED-NFS	6W5505	P 0.100000	0.005000	3F02884	100.00	0.005000
53004AA	RABBIT	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000	3F02884	100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005BA	SHEEP-OTH ORGAN	21 COOKED-NFS	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005MA	SHEEP-LEAN	21 COOKED-NFS	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000	3F02884	100.00	1.000000
53006BA	PORK-MEAT BYP	21 COOKED-NFS	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006BA	PORK-OTH ORGAN	21 COOKED-NFS	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006BA	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006FA	PORK-FAT	21 COOKED-NFS	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006KA	PORK-KIDNEY	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006LA	PORK-LIVER	21 COOKED-NFS	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000	3F02884	100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-NFS	3F1306	P 0.500000	0.500000	3F02884	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
			PADI	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	OPP RfD= 0.003000	--> 10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	HED complete 2/21/86.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000			EPA verified 3/11/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.				HED reassess 3/04/88.
A.I. CODE: 059101	OMCO: Negative- 1 species.					WHO last reviewed 1982.
CFR No. 180.342						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
55000BA	TURKEY-BYP	21 COOKED-NFS	6F1673	P 0.500000	0.005000C	FEEDING STUDY	100.00	0.005000
55000BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY ORGAN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY W/O SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55000BA	TURKEY-UNSPEC	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY, OTN-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
55013BA	POULTRY, OTHER	21 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.)

DATE: 10/29/92

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 0.1000000	0.0100000		100.00	0.0100000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	6F1673	P 0.1000000	0.0100000		100.00	0.0100000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	6F1673	P 0.1000000	0.0100000		100.00	0.0100000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	6F1673	P 0.1000000	0.0100000		100.00	0.0100000
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015NA	CHICKEN-W/O SKIN	21 COOKED-NFS	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015NA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015NA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015NA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015NA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015HB	CHICKEN+SKIN	21 COOKED-NFS	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000
55015HB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.5000000	0.0100000	FEEDING STUDY	100.00	0.0100000

Attachment 3 (cont.)

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 10/29/92

PAGE: 1

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

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	2RFD
U.S. POPULATION - 48 STATES	0.010737	0.011302	376.723733	18.811000	0.001443	48.08753
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	47.90047
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	0.012424	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.

Attachment 4

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 1

DATE: 02/16/93

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.	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	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	10 RAW-FROZEN	7E3557	P 1.000000	1.000000		100.00	1.000000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 1.000000	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
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
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	MUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	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	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	21 COOKED-NFS	0E2283	P 0.500000	0.200000		5.00	0.010000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 2

DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS
				PAOI UF -->10	New chronic/onco rat study has been reviewed; Rfd to be reevaluated.	
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	OPP Rfd= 0.003000			WHO last reviewed 1982.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA Rfd= 0.003000			MED complete 02/21/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.				EPA verified 03/11/86.
A.I. CODE: 059101	ONCO: Negative- 1 species.					MED complete 03/04/88.
CFR No. 180.342						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	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)	6W5505	P 0.100000	0.005000		100.00	0.005000
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	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	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	1.000000		39.00	0.390000
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
02005AA	LEMONS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P 1.000000	0.050000C	PROCESS. STUDY	39.00	0.019500
02005AB	LINES-PULP	10 RAW-FRESH OR NFS	1F2575	P 1.000000	1.000000		39.00	0.390000
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-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 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

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 4

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 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)
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
040040A	QUINCES	21 COOKED-NFS		M -0.040000	0.000000		54.00	0.000000
050010A	APRICOTS-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)		P 0.100000	0.005000		100.00	0.005000
050010A	APRICOTS-FRESH	10 RAW-FRESH OR NFS		P 0.100000	0.005000		100.00	0.005000
050010A	APRICOTS-FRESH	21 COOKED-NFS		P 0.100000	0.005000		100.00	0.005000
050010A	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED		P 0.100000	0.005000		100.00	0.005000
050010A	APRICOTS-FRESH	10 RAW-FRESH OR NFS		P 0.100000	0.005000		100.00	0.005000
050010A	APRICOTS-FRESH	22 COOKED-FRESH-BAKED		P 0.100000	0.005000		100.00	0.005000
050020A	CHERRIES-FRESH	10 RAW-FRESH OR NFS		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	10 RAW-FRESH OR NFS		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	21 COOKED-NFS		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	21 COOKED-NFS		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	00 NOT SPECIFIED (NO CONSUMPTION)		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	15 RAW-FRESH OR CANNED		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	15 RAW-FRESH OR CANNED		P 2.000000	1.000000		4.00	0.040000
050020A	CHERRIES-FRESH	21 COOKED-NFS		M -1.000000	0.000000		4.00	0.000000
050020A	CHERRIES-FRESH	21 COOKED-NFS		P 2.000000	1.000000		4.00	0.040000
050030A	NECTARINES	10 RAW-FRESH OR NFS		M -1.000000	0.000000		4.00	0.000000
050030A	NECTARINES	10 RAW-FRESH OR NFS		P 0.050000	0.010000		6.00	0.000600
050040A	PEACHES-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		6.00	0.000000
050040A	PEACHES-FRESH	10 RAW-FRESH OR NFS		P 0.050000	0.010000		60.00	0.006000
050040A	PEACHES-FRESH	21 COOKED-NFS		M -0.040000	0.000000		60.00	0.000000
050040A	PEACHES-FRESH	21 COOKED-NFS		P 0.050000	0.010000		60.00	0.006000
050040A	PEACHES-FRESH	31 COOKED-FRESH OR CANNED		M -0.040000	0.000000		60.00	0.000000
050040A	PEACHES-FRESH	31 COOKED-FRESH OR CANNED		P 0.050000	0.010000		60.00	0.006000
050040A	PEACHES-FRESH	51 COOKED-CANNED		M -0.040000	0.000000		60.00	0.000000
050040A	PEACHES-FRESH	51 COOKED-CANNED		P 0.050000	0.010000		60.00	0.006000
050040A	PEACHES-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		60.00	0.000000
050040A	PEACHES-FRESH	10 RAW-FRESH OR NFS		P 0.050000	0.010000		60.00	0.006000
050040A	PEACHES-FRESH	21 COOKED-NFS		M -0.040000	0.000000		60.00	0.000000
050040A	PEACHES-FRESH	21 COOKED-NFS		P 0.050000	0.010000		60.00	0.006000
050050A	PLUMS-FRESH	10 RAW-FRESH OR NFS		M -0.040000	0.000000		9.00	0.000000
050050A	PLUMS-FRESH	10 RAW-FRESH OR NFS		P 0.050000	0.010000		9.00	0.000900

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA CAPS/COMMENTS	STATUS
			PADI	UF		
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 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	-->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	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05005AA	PLUMS-FRESH	6F1786	P 0.050000	0.010000		9.00	0.000900
05005AA	PLUMS-FRESH		N -0.040000	0.000000		9.00	0.000000
05005DA	PLUMS-PRUNES	6F1786	P 0.050000	0.010000		9.00	0.000900
05005DA	PLUMS-PRUNES		P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE	6F1786	P 0.050000	0.010000		9.00	0.000900
05005JA	PRUNE-JUICE		P 0.050000	0.010000		9.00	0.000900
06001AA	AVOCADOS	6F1786	P 0.050000	0.010000		9.00	0.000900
06002AA	BANANAS-UNSPEC	6F5505	P 0.100000	0.005000		100.00	0.005000
06002AA	BANANAS-UNSPEC	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH		N -0.040000	0.000000		100.00	0.000000
06002AB	BANANAS-FRESH	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH		N -0.040000	0.000000		100.00	0.000000
06002AB	BANANAS-FRESH	3F1370	P 0.050000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH		N -0.040000	0.000000		100.00	0.000000
06002DA	BANANAS-DRIED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED		N -0.040000	0.000000		100.00	0.000000
06002DA	BANANAS-DRIED	3F1370	P 0.050000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED		N -0.040000	0.000000		100.00	0.000000
06003AA	COCOMUT-FRESH	6F5505	P 0.100000	0.005000		100.00	0.005000
06003DA	COCOMUT-COPRA	6F5505	P 0.100000	0.005000		100.00	0.005000
06003DA	COCOMUT-COPRA		P 0.100000	0.005000		100.00	0.005000
06003DA	COCOMUT-COPRA	6F5505	P 0.100000	0.005000		100.00	0.005000
06003DA	COCOMUT-COPRA		P 0.100000	0.005000		100.00	0.005000
06004AA	DATES	6E3439	P 0.300000	0.300000		100.00	0.300000
06004AA	DATES		P 0.300000	0.300000		100.00	0.300000
06005AA	FIGS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS		N -0.090000	0.000000		7.00	0.000000
06005AA	FIGS	2E2668	P 0.100000	0.010000		7.00	0.000700
06005AA	FIGS		N -0.090000	0.000000		7.00	0.000000
06006AA	GUAVA	6F5505	P 0.100000	0.005000		100.00	0.005000
06006AA	GUAVA		P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOS	6F5505	P 0.100000	0.005000		100.00	0.005000
06007AA	MANGOS		P 0.100000	0.005000		100.00	0.005000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 02/16/93

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 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	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-UNSPEC	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
06010AB	PAPAYAS-PULP	6H5505	P 0.100000	0.005000		100.00	0.005000
06010DA	PAPAYAS-DRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
06010JA	PAPAYAS-JUICE	6H5505	P 0.100000	0.005000		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	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P 0.100000	0.005000		100.00	0.005000
06013JA	PINEAPPLE-JUICE	6H5505	P 0.100000	0.005000		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	6H5505	P 0.100000	0.005000		100.00	0.005000
06016AA	PLANTAINS	6H5505	P 0.100000	0.005000		100.00	0.005000
06017AA	LYCHEES	6H5505	P 0.100000	0.005000		100.00	0.005000
06017DA	LYCHEE-DRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
06018AA	KIWI	6H5505	P 0.100000	0.005000		100.00	0.005000
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	MANEY	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

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 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)			
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			
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			
08009AA	CINNAMON	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	0.005000			
08020AA	HOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.100000			
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			
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	MUTNEG	21 COOKED-NFS	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			
08048AA	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	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			
10003AA	CASABAS	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

PAGE: 8

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 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)
11007AA	PERSTON MELONS						
11008AA	WATERMELON	6H5505	P	0.100000	0.005000	100.00	0.005000
11008AA	WATERMELON	6H5505	P	0.100000	0.005000	100.00	0.005000
11010AA	CUCUMBERS	6H5505	P	0.100000	0.005000	100.00	0.005000
11010AA	CUCUMBERS	9F2221	P	0.100000	0.050000	1.00	0.000500
11010AA	CUCUMBERS	9F2221	M	-0.050000	0.000000	1.00	0.000000
11010AA	CUCUMBERS	9F2221	M	-0.050000	0.050000	1.00	0.000500
11010AA	CUCUMBERS	9F2221	M	-0.050000	0.000000	1.00	0.000000
11010AA	CUCUMBERS	9F2221	P	0.100000	0.050000	1.00	0.000500
11011AA	PUMPKIN	9F2221	P	0.100000	0.000000	1.00	0.000500
11011AA	PUMPKIN	9F2221	M	-0.050000	0.050000	1.00	0.000000
11011AA	PUMPKIN	9F2221	M	-0.050000	0.000000	5.00	0.002500
11011AA	PUMPKIN	9F2221	M	-0.050000	0.050000	5.00	0.000000
11011AA	PUMPKIN	9F2221	M	-0.050000	0.000000	5.00	0.000000
11011AA	PUMPKIN	9F2221	M	-0.050000	0.050000	5.00	0.002500
11013AA	SQUASH-SUMMER	6H5505	P	0.100000	0.005000	5.00	0.002500
11013AA	SQUASH-SUMMER	6H5505	P	0.100000	0.005000	100.00	0.005000
11014AA	SQUASH-WINTER	6H5505	P	0.100000	0.005000	100.00	0.005000
11014AA	SQUASH-WINTER	6H5505	P	0.100000	0.005000	100.00	0.005000
11014AA	SQUASH-WINTER	6H5505	P	0.100000	0.005000	100.00	0.005000
11017AA	BITTER MELON	6H5505	P	0.100000	0.005000	100.00	0.005000
11020AA	TOMELGOLD	6H5505	P	0.100000	0.005000	100.00	0.005000
11001AA	EGGPLANT	6H5505	P	0.100000	0.005000	100.00	0.005000
11001AA	EGGPLANT	6H5505	P	0.100000	0.005000	100.00	0.005000
11003AA	PEPPERS-SWEET	6H5505	P	0.100000	0.005000	100.00	0.005000
11003AA	PEPPERS-SWEET	6H5505	P	0.100000	0.005000	100.00	0.005000
11003AB	CHILLI PEPPERS	1E2523	P	1.000000	1.000000	7.00	0.070000
11003AD	PEPPERS-OTHER	1E2523	P	1.000000	1.000000	7.00	0.070000
11003AD	PEPPERS-OTHER	1E2523	P	1.000000	1.000000	7.00	0.070000
11003AD	PEPPERS-OTHER	1E2523	P	1.000000	1.000000	7.00	0.070000
11004AA	PIMIENTOS	1E2523	P	1.000000	1.000000	7.00	0.070000
11004AA	PIMIENTOS	1E2523	P	1.000000	1.000000	7.00	0.070000
11005AA	TOMATOES-WHOLE	1E2523	P	1.000000	1.000000	7.00	0.070000
11005AA	TOMATOES-WHOLE	1E2523	P	1.000000	1.000000	7.00	0.070000
11005AA	TOMATOES-WHOLE	1E2523	P	1.000000	1.000000	7.00	0.070000
11005JA	TOMATOES-JUICE	1E2523	P	1.000000	1.000000	1.00	0.005000
11005JA	TOMATOES-JUICE	1E2523	P	1.000000	1.000000	1.00	0.005000
11005JA	TOMATOES-JUICE	1E2523	P	1.000000	1.000000	1.00	0.005000
11005RA	TOMATOES-PUREE	1E2523	P	1.000000	1.000000	1.00	0.005000

Attachment 5 (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
			PM01	UF --> 10		
Chlorpyrifos	Human 20 day feeding	Decreased plasma CHE.	0.0300 mg/kg	0.003000	New chronic/onco rat	WHO last reviewed 1982.
Caswell #219AA	NOEL=	No other systemic effects	0.00 ppm	EPA RfD= 0.003000	study has been reviewed;	HED complete 02/21/86.
CAS No. 2921-88-2	LEL=	identified.	0.1000 mg/kg	EPA RfD= 0.003000	RfD to be reevaluated.	EPA verified 03/11/86.
A.I. CODE: 059101	OMCO: Negative- 1 species.	Negative for oncogenicity	0.00 ppm			HED complete 03/04/88.
CFR No. 180.342		in the mouse, rat study				On IRIS.
		inadequate.				

FOOD CODE	FOOD	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
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
11005TA	TOMATOES-PASTE	31	COOKED-NFS	P 0.500000	0.500000	1.00	0.005000
11006AA	GROUNDCHERRIES	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.500000	0.500000	1.00	0.005000
13001AA	BEEETS-TOPS	31	COOKED-FRESH OR CANNED	P 0.100000	0.005000	100.00	0.005000
13001AA	BEEETS-TOPS	63	COOKED-FRESH OR FROZEN-BOILED	P 0.100000	0.005000	100.00	0.005000
13002AA	CELERY	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13002AA	CELERY	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
13003AA	CHICORY	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
13003AA	BROCCOLI	21	COOKED-NFS	P 2.000000	1.000000	14.00	0.005000
13003AA	BROCCOLI	21	COOKED-NFS	M -1.000000	0.000000	14.00	0.000000
13005AA	BROCCOLI	31	COOKED-FRESH OR CANNED	M 2.000000	1.000000	14.00	0.000000
13005AA	BROCCOLI	31	COOKED-FRESH OR CANNED	M -1.000000	0.000000	14.00	0.000000
13005AA	BROCCOLI	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	14.00	0.000000
13005AA	BROCCOLI	63	COOKED-FRESH OR FROZEN-BOILED	M -1.000000	0.000000	14.00	0.000000
13006AA	BRUSSEL SPROUTS	21	COOKED-NFS	P 2.000000	1.000000	22.00	0.000000
13006AA	BRUSSEL SPROUTS	21	COOKED-NFS	M -1.000000	0.000000	22.00	0.000000
13006AA	BRUSSEL SPROUTS	23	COOKED-FRESH-BOILED	P 2.000000	1.000000	22.00	0.000000
13006AA	BRUSSEL SPROUTS	23	COOKED-FRESH-BOILED	M -1.000000	0.000000	22.00	0.000000
13007AA	CABBAGE	10	RAW-FRESH OR NFS	P 2.000000	1.000000	22.00	0.000000
13007AA	CABBAGE	10	RAW-FRESH OR NFS	M -1.000000	0.000000	13.00	0.000000
13007AA	CABBAGE	11	RAW-FRESH-PICKLED,CORNEED,OR CURED	P 2.000000	1.000000	13.00	0.000000
13007AA	CABBAGE	11	RAW-FRESH-PICKLED,CORNEED,OR CURED	M -1.000000	0.000000	13.00	0.000000
13007AA	CABBAGE	21	COOKED-NFS	P 2.000000	1.000000	13.00	0.000000
13007AA	CABBAGE	21	COOKED-NFS	M -1.000000	0.000000	13.00	0.000000
13008AA	CAULIFLOWER	10	RAW-FRESH OR NFS	P 2.000000	1.000000	13.00	0.000000
13008AA	CAULIFLOWER	10	RAW-FRESH OR NFS	M -1.000000	0.000000	12.00	0.000000
13008AA	CAULIFLOWER	21	COOKED-NFS	P 2.000000	1.000000	12.00	0.000000
13008AA	CAULIFLOWER	21	COOKED-NFS	M -1.000000	0.000000	12.00	0.000000
13009AA	COLLARDS	51	COOKED-CANNED	P 2.000000	1.000000	12.00	0.000000
13009AA	COLLARDS	63	COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000	17.00	0.000000
13010AA	CABBAGE-CHINESE	10	RAW-FRESH OR NFS	P 2.000000	1.000000	17.00	0.000000
13010AA	CABBAGE-CHINESE	10	RAW-FRESH OR NFS	M -1.000000	0.000000	37.00	0.000000
13010AA	CABBAGE-CHINESE	21	COOKED-NFS	P 2.000000	1.000000	37.00	0.000000
13010AA	CABBAGE-CHINESE	21	COOKED-NFS	M -1.000000	0.000000	37.00	0.000000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 10

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 OMCO: 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. 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)
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
13016AA	ENDIVE	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13017AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13018AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13019AA	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	3E2819	P 2.000000	1.000000		100.00	1.000000
13022AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P 2.000000	1.000000		100.00	1.000000
13023AA	PARSLEY	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13024AA	PARSLEY	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13025AA	RHUBARB	53 COOKED-CANNED-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13026AA	RHUBARB	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13027AA	RHUBARB	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13028AA	RHUBARB	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13029AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
13030AA	SPINACH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13031AA	SPINACH	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13032AA	SPINACH	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13033AA	SWISS CHARD	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13034AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
13035AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P 0.100000	0.005000		100.00	0.005000
13036AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13037AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	0E2411	M -0.700000	0.000000		100.00	0.000000
13038AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	P 1.000000	0.300000		100.00	0.300000
13039AA	TURNIPS-TOPS	21 COOKED-NFS	0E2411	M -0.700000	0.000000		100.00	0.000000
13040AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	P 1.000000	0.300000		100.00	0.300000
13041AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	0E2411	M -0.700000	0.000000		100.00	0.000000
13042AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13043AA	TURNIPS-TOPS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13044AA	TURNIPS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13045AA	TURNIPS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13046AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13047AA	TURNIPS-TOPS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13048AA	TURNIPS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
13049AA	TURNIPS-TOPS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 5 (cont.)

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.	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. 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)
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	6H5505	P 0.100000	0.005000		100.00	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 0.200000	0.200000		100.00	0.005000
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
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
14013MA	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	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	M -1.000000	0.000000		17.00	0.000000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	P 3.000000	0.005000		100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	M -2.500000	0.000000		100.00	0.500000
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 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	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14015AA	RUTABAGAS-ROOTS	21	COOKED-NFS	N -2.500000	0.000000	100.00	0.000000
14015AB	RUTABAGAS-TOPS	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000	100.00	0.005000
14016AA	SALSIFY	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
14017AA	SHALLOTS	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000	100.00	0.005000
14018AA	SWEET POTATOES	21	COOKED-NFS	P 0.100000	0.050000	64.00	0.032000
14018AB	SWEET POTATOES	21	COOKED-FRESH OR CANNED	N -0.050000	0.000000	64.00	0.000000
14018AA	SWEET POTATOES	31	COOKED-FRESH OR CANNED	P 0.100000	0.050000	64.00	0.032000
14018AA	SWEET POTATOES	51	COOKED-CANNED	N -0.050000	0.000000	64.00	0.000000
14019AA	TURNIPS-ROOTS	10	RAW-FRESH OR NFS	N -0.050000	0.000000	64.00	0.000000
14019AA	TURNIPS-ROOTS	10	RAW-FRESH OR NFS	P 3.000000	1.000000	100.00	1.000000
14019AA	TURNIPS-ROOTS	21	COOKED-NFS	N -2.000000	0.000000	100.00	0.000000
14019AA	TURNIPS-ROOTS	21	COOKED-NFS	P 3.000000	1.000000	100.00	1.000000
14021AA	PARSHIPS	21	COOKED-NFS	N -2.000000	0.000000	100.00	0.000000
14024AA	YAMBEAN, TUBER	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
14026AA	CASSAVA	23	COOKED-FRESH-BOILED	P 0.100000	0.005000	100.00	0.005000
14026AB	TAPIOCA	10	RAW-FRESH OR NFS	P 0.100000	0.005000	100.00	0.005000
14026AB	TAPIOCA	31	COOKED-FRESH OR CANNED	P 0.100000	0.005000	100.00	0.005000
14028AA	YAUTIA, TANNIER	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
14030AA	PARSLEY ROOTS	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	21	COOKED-NFS	P 0.100000	0.005000	100.00	0.005000
14031AA	WATER CHESTNUTS	25	COOKED-FRESH-FRIED	P 0.100000	0.005000	100.00	0.005000
15001AA	BEANS-DRY-GRY NO	00	NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.050000	1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	21	COOKED-NFS	N -0.050000	0.000000	1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	21	COOKED-NFS	P 0.100000	0.050000	1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	N -0.050000	0.000000	1.00	0.000000
15001AB	BEANS-DRY-KIDNEY	31	COOKED-FRESH OR CANNED	P 0.100000	0.050000	1.00	0.000000
15001AC	BEANS-DRY-LIMA	21	COOKED-NFS	N -0.050000	0.000000	1.00	0.000000
15001AD	BEANS-DRY-LIMA	21	COOKED-NFS	P 0.100000	0.050000	1.00	0.000000
15001AD	BEANS-DRY-NAVY	21	COOKED-NFS	N -0.050000	0.000000	1.00	0.000000
15001AD	BEANS-DRY-NAVY	31	COOKED-FRESH OR CANNED	P 0.100000	0.050000	1.00	0.000000
15001AD	BEANS-DRY-NAVY	31	COOKED-FRESH OR CANNED	N -0.050000	0.000000	1.00	0.000000
15001AE	BEANS-DRY-OTHER	21	COOKED-NFS	P 0.100000	0.050000	1.00	0.000000
15001AE	BEANS-DRY-OTHER	21	COOKED-NFS	N -0.050000	0.000000	1.00	0.000000
15001AE	BEANS-DRY-OTHER	25	COOKED-FRESH-FRIED	P 0.100000	0.050000	1.00	0.000000
15001AE	BEANS-DRY-OTHER	25	COOKED-FRESH-FRIED	N -0.050000	0.000000	1.00	0.000000

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 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)
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15001AF	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	9F2221	N -0.050000	0.000000		1.00	0.000000
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	N -0.050000	0.000000		1.00	0.000000
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	N -0.050000	0.000000		1.00	0.000000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AB	BEANS-SUCC-OTHER	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15003AB	BEANS-SUCC-OTHER	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15004AA	CORN, POP	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15005AA	CORN, SWEET	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.100000		1.00	0.001000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2221	N -0.050000	0.000000		1.00	0.000000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2221	P 0.100000	0.050000		1.00	0.000500
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	9F2221	N -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
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	N -0.050000	0.000000		1.00	0.000000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
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	N -0.050000	0.000000		1.00	0.000000
15011AA	LENTILS-WHOLE	31 COOKED-FRESH OR CANNED	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15011AB	LENTILS-SPLIT	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9F2221	N -0.050000	0.000000		1.00	0.000000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9F2221	N -0.050000	0.000000		1.00	0.000000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 14

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)
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	0.000000
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	0.000000
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	0.000000
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	0.000000
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	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-UNSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.005000		100.00	0.000500
15027AA	BEANS-UNSPEC	21 COOKED-NFS		M -0.050000	0.000000		1.00	0.000000
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	0.000000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 0.500000	0.300000		1.00	0.000000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)		M -0.200000	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
15030AA	BEANS-DRY-HYACIN	00 NOT SPECIFIED (NO CONSUMPTION)		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)		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-BOILED	2E2644	P 5.000000	5.000000		5.00	0.250000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	3E2686	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	21 COOKED-NFS	3E2686	P 0.100000	0.100000		100.00	0.100000

Attachment 5 (cont.)

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

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
16003AA	MUSHROOMS	3E2886	P 0.100000	0.100000		100.00	0.100000
16003AA	MUSHROOMS	3E2886	P 0.100000	0.100000		100.00	0.100000
16004AA	ONIONS-GREEN	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	6H5505	P 0.100000	0.005000		100.00	0.005000
16004AA	ONIONS-GREEN	6H5505	P 0.100000	0.005000		100.00	0.005000
16007AA	POKE GREENS	6H5505	P 0.100000	0.005000		100.00	0.005000
16008AA	BAMBOO SHOOTS	6H5505	P 0.100000	0.005000		100.00	0.005000
24001AA	BARLEY	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 10 RAW-FRESH OR NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002EA	CORN, GRAIN-ENDO 21 COOKED-NFS	3F1306	P 0.100000	0.050000		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	0.050000		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	0.050000		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-BRAN 00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	P 0.100000	0.050000		12.00	0.000000
24002EA	CORN, GRAIN-BRAN 00 NOT SPECIFIED (NO CONSUMPTION)	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	3F1306	P 0.100000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	3F1306	P 0.100000	0.050000		12.00	0.000000
24002SA	CORN SUGAR	3F1306	M -0.050000	0.000000		12.00	0.000000
24003AA	OATS	3F1306	P 0.100000	0.000000		12.00	0.000000
24003AA	OATS	3F1306	M -0.050000	0.000000		12.00	0.000000
24004AA	RICE-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AA	RICE-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	6H5505	P 0.100000	0.005000		100.00	0.005000
24004AB	RICE-MILLED	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24005AA	RYE-ROUGH	6H5505	P 0.100000	0.005000		100.00	0.005000
24005GA	RYE-GERM	6H5505	P 0.100000	0.005000		100.00	0.005000
24005WA	RYE-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24005WA	RYE-FLOUR	6H5505	P 0.100000	0.005000		100.00	0.005000
24006AA	SORGHUM	6H5505	P 0.100000	0.005000		100.00	0.005000
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

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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.		PAD1 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-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	0.100000	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	0.090000	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			
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	M	0.400000	0.005000	100.00	0.005000			
24007HA	WHEAT-FLOUR	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000			
24007HA	WHEAT-FLOUR	21 COOKED-NFS	3F2947	M	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	M	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	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	BEET SUGAR	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000			
25002SA	BEET SUGAR	21 COOKED-NFS	2F2684	P	1.000000	1.000000	25.00	0.250000			
25002SA	BEET SUGAR	22 COOKED-FRESH-BAKED	2F2684	P	1.000000	1.000000	25.00	0.250000			
25002SA	BEET SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P	1.000000	1.000000	25.00	0.250000			
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000			
25003SA	CANE SUGAR	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000			
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	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			

Attachment 5 (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.	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)
250035B	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		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	1H5123	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
270030A	COTTONSEED-OIL	18 PROCESSED OIL		M -0.300000	0.000000		2.00	0.000000
27003AA	COTTONSEED-MEAL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
27003AA	COTTONSEED-MEAL	18 PROCESSED OIL		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		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		1.00	0.003000
270100A	SOYBEANS-OIL	18 PROCESSED OIL		M -0.200000	0.000000		1.00	0.000000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	2F2588	P 0.250000	0.250000		1.00	0.002500
270110A	SUNFLOWER-OIL	18 PROCESSED OIL		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
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS		M -0.200000	0.000000		1.00	0.000000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS		M -0.200000	0.000000		1.00	0.000000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	21 COOKED-NFS		M -0.200000	0.000000		1.00	0.000000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9F2270	P 0.500000	0.300000		1.00	0.003000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED		M -0.200000	0.000000		1.00	0.000000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9F2270	P 0.500000	0.300000		1.00	0.003000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 02/16/93

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= 0.003000 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)
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-NFS	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS		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-NFS	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AB	SOY-FL, LOW FAT	21 COOKED-NFS		M	-0.200000	0.000000	1.00	0.000000
28023AB	SOY-FL, DEFAT	10 RAW-FRESH OR NFS	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AB	SOY-FL, DEFAT	10 RAW-FRESH OR NFS		M	-0.200000	0.000000	1.00	0.000000
28023AC	SOY-FL, DEFAT	21 COOKED-NFS	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AC	SOY-FL, DEFAT	21 COOKED-NFS		M	-0.200000	0.000000	1.00	0.000000
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AC	SOY-FL, DEFAT	22 COOKED-FRESH-BAKED		M	-0.200000	0.000000	1.00	0.000000
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AC	SOY-FL, DEFAT	51 COOKED-CANNED		M	-0.200000	0.000000	1.00	0.000000
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED	9F2270	P	0.500000	0.300000	1.00	0.003000
28023AC	SOY-FL, DEFAT	53 COOKED-CANNED-BOILED		M	-0.200000	0.000000	1.00	0.000000
28023AC	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	0.100000	0.005000	100.00	0.005000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000	1.000000	100.00	1.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P	10.000000	8.000000C	100.00	8.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		M	-2.000000	0.000000C	100.00	0.000000
28081AA	PEPPERMINT	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
28081AA	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		M	-2.000000	0.000000C	100.00	0.000000
43057AA	VINEGAR	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
43057AA	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
43058AA	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
43060AA	GELATIN	21 COOKED-NFS	6H5505	P	0.100000	0.005000	100.00	0.005000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	6H5505	P	0.020000	0.020000	100.00	0.020000
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	6H5505	P	0.020000	0.020000	100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M	-0.010000	-0.010000	100.00	-0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	P	0.020000	0.020000	100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS		M	-0.010000	-0.010000	100.00	-0.010000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 19

DATE: 02/16/93

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

FOOD CODE	FOOD	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		M -0.010000	-0.010000		100.00	-0.010000
500000A	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS	0F2281	P 0.500000	0.500000		100.00	0.500000
500000A	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS		M -0.250000	-0.250000		100.00	-0.250000
500000A	MILK-FAT SOLIDS 21 COOKED-NFS	0F2281	P 0.500000	0.500000		100.00	0.500000
500000A	MILK-FAT SOLIDS 21 COOKED-NFS		M -0.250000	-0.250000		100.00	-0.250000
500000A	MILK-FAT SOLIDS 51 COOKED-CANNED	0F2281	P 0.500000	0.500000		100.00	0.500000
500000A	MILK-FAT SOLIDS 51 COOKED-CANNED		M -0.250000	-0.250000		100.00	-0.250000
500000A	MILK SUG (LACT) 21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000A	MILK SUG (LACT) 21 COOKED-NFS		M -0.010000	-0.010000		100.00	-0.010000
500000A	MILK SUG (LACT) 51 COOKED-CANNED	0F2281	P 0.020000	0.020000		100.00	0.020000
500000A	MILK SUG (LACT) 51 COOKED-CANNED		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	0.050000
530018A	BEEF-MEAT BYPROD 21 COOKED-NFS		M -1.950000	0.000000		100.00	0.000000
530018A	BEEF-MEAT BYPROD 26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	BEEF-MEAT BYPROD 26 COOKED-FRESH-PICKLED, CORNED OR CURED		M -1.950000	0.000000		100.00	0.000000
530018B	BEEF-OTHER ORGAN 21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN 21 COOKED-NFS		M -1.950000	0.000000		100.00	0.000000
530018B	BEEF-OTHER ORGAN 51 COOKED-CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN 51 COOKED-CANNED		M -1.950000	0.000000		100.00	0.000000
530018A	BEEF-DRIED 21 COOKED-NFS	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
530018A	BEEF-DRIED 21 COOKED-NFS		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 10 RAW-FRESH OR NFS		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 21 COOKED-NFS		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 22 COOKED-FRESH-BAKED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 22 COOKED-FRESH-BAKED		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 23 COOKED-FRESH-BOILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 23 COOKED-FRESH-BOILED		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 24 COOKED-FRESH-BROILED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 24 COOKED-FRESH-BROILED		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-FAT 25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530018A	BEEF-FAT 25 COOKED-FRESH-FRIED		M -1.700000	0.000000		100.00	0.000000
530018A	BEEF-KIDNEY 21 COOKED-NFS	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	BEEF-KIDNEY 21 COOKED-NFS		M -1.950000	0.000000		100.00	0.000000
530018A	BEEF-LIVER 25 COOKED-FRESH-FRIED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	BEEF-LIVER 25 COOKED-FRESH-FRIED		M -1.950000	0.000000		100.00	0.000000
530018A	BEEF-LIVER 31 COOKED-FRESH OR CANNED	3F1306	M 2.000000	0.050000	3F02884	100.00	0.050000
530018A	BEEF-LIVER 31 COOKED-FRESH OR CANNED		M -1.950000	0.000000		100.00	0.000000

Attachment 5 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 20

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.	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)
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 -1.950000	-0.150000		100.00	-0.150000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
53002BA	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002BA	GOAT-OTHER ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P 1.000000	1.000000		100.00	1.000000
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
53002NA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002NA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P 1.000000	1.000000		100.00	1.000000
53002NA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53002NA	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	P 0.100000	0.005000		100.00	0.005000
53004AA	RABBIT	21 COOKED-NFS	645505	M 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BA	SHEEP-OTH ORGANS	21 COOKED-NFS	9F2270	M -0.950000	-0.950000		100.00	-0.950000
53005BA	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 -0.950000	-0.950000		100.00	-0.950000
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

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	PADI UF --> 10	New chronic/onco rat	WHO last reviewed 1982.
Caswell #219AA	MOEL= 0.0300 mg/kg	No other systemic effects	OPP RfD= 0.003000	study has been reviewed;	RED complete 02/21/86.
CAS No. 2921-88-2	0.00 ppm	identified.	EPA RfD= 0.003000	RfD to be reevaluated.	EPA verified 03/11/86.
A.I. CODE: 059101	LEL= 0.1000 mg/kg	Negative for oncogenicity			RED complete 03/04/88.
CFR No. 180.342	0.00 ppm	in the mouse, rat study			
	ONCO: Negative- 1 species.	inadequate.			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-LEAN	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
530068A	PORK-LEAN	21 COOKED-MFS		M -0.450000	-0.450000		100.00	-0.450000
530068B	PORK-MEAT BYP	21 COOKED-MFS	3F1306	P 0.500000	0.500000		100.00	0.500000
530068B	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	6W5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	10 RAW-FRESH OR MFS	6W5505	P 0.100000	0.005000		100.00	0.005000
53013AA	FISH-SHELL	21 COOKED-MFS	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-MFS	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-MFS	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

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	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53016AA	FISH, FIN-FRESH	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
53016AA	FISH, FIN-FRESH	25 COOKED-FRESH-FRIED	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH, FIN-SALT	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH, FIN-SALT	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
53017AA	FISH, FIN-SALT	25 COOKED-FRESH-FRIED	P 0.100000	0.005000		100.00	0.005000
53017DA	FISH, FIN-SLT-DRY	12 RAW-FRESH-DRIED	P 0.100000	0.005000C		100.00	0.005000
53017DA	FISH, FIN-SLT-DRY	21 COOKED-NFS	P 0.100000	0.005000C		100.00	0.005000
55008BA	TURKEY-BYPRODUCT	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY-BYPRODUCT	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	M -0.400000	0.000000		100.00	0.000000
55008LA	TURKEY ORGAN	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008LA	TURKEY ORGAN	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	M -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	M -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	M -0.400000	0.000000		100.00	0.000000
55008NB	TURKEY+SKIN	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008NB	TURKEY+SKIN	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55008NB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008NB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	M -0.400000	0.000000		100.00	0.000000
55008NC	TURKEY-UNSPEC	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55008NC	TURKEY-UNSPEC	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55013BA	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	M -0.400000	0.000000		100.00	0.000000
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	M -0.400000	0.000000		100.00	0.000000
55013MA	POULTRY, OTHER	21 COOKED-NFS	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY, OTHER	21 COOKED-NFS	M -0.400000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	21 COOKED-NFS	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	21 COOKED-NFS	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	P 0.100000	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	M -0.090000	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	P 0.100000	0.010000		100.00	0.010000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos	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.	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)
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	N	0.090000	0.000000	100.00	0.000000
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	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	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	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	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	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	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	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	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	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	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)	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	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	P	0.500000	0.010000	100.00	0.010000

Attachment 5 (cont.)

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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
			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.	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		AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
			PPM	RESIDUE (ppm)			
55015MB	CHICKEN*SKIN	21 COOKED-NFS	N -0.400000	0.000000	100.00	100.00	0.000000
55015MB	CHICKEN*SKIN	25 COOKED-FRESH-FRIED	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN*SKIN	25 COOKED-FRESH-FRIED	N -0.400000	0.000000	100.00	100.00	0.000000

Attachment 5 (cont.)

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/16/93

PAGE: 1

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 MOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: Negative- 1 species. inadequate.	Decreased plasma ChE.		PAD1 UF -->10		New chronic/onco rat		WHO last reviewed 1992.			
		No other systemic effects identified.		OPP RfD= 0.003000		study has been reviewed;		EPA verified 03/11/86.			
		Negative for oncogenicity in the mouse, rat study		EPA RfD= 0.003000		RfD to be reevaluated.		EPA verified 03/11/86.			
		inadequate.						EPA verified 03/04/88.		On IRIS.	

TOTAL THRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP	CURRENT THRC*	NEW THRC**	AS PERCENT OF RFD	AS PERCENT OF RFD	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	-145.966799	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	224.828500	-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	0.005586	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	28.38650
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	257.838267	-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	0.015889	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	0.000681	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	-103.585332	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
			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.	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	CURRANTS	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01011AA	CURRANTS	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 NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	6W5505	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
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

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

DATE: 02/16/93

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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 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)
01016AA	STRAWBERRIES	70 RAW-FROZEN	0E2263	P	0.500000			0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN		M	-0.300000		5.00	0.000000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P	0.100000		5.00	0.000000
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6M5505	P	0.100000		100.00	0.005000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	1F2575	P	1.000000		100.00	0.005000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.019500
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	1F2575	P	1.000000		39.00	0.039000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.039000
02004HA	LEMONS-PEEL	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02005AA	LINES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P	1.000000		39.00	0.019500
02005AB	LINES-PULP	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02005HA	LINES-PEEL	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02005JA	LINES-JUICE	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02005JA	LINES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02005JA	LINES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	1F2575	P	1.000000		39.00	0.019500
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.390000
02006AB	ORANGES-PULP	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02006HA	ORANGES-PEEL	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.039000
02006HA	ORANGES-PEEL	21 COOKED-NFS	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	1F2575	P	1.000000		39.00	0.390000
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.019500
02007AA	TANGELOS	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.039000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	1F2575	P	1.000000		39.00	0.039000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	1F2575	P	1.000000	PROCESS. STUDY	39.00	0.039000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	4F2999	P	0.200000		16.00	0.019500
03001AA	ALMONDS	21 COOKED-NFS	4F2999	P	0.200000	PROCESS. STUDY	16.00	0.032000

Attachment 8 (cont.)

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PAOI UF -->10		New chronic/onco rat		WHO last reviewed 1982.	
Caswell #219AA		NOEL= 0.0300 mg/kg		No other systemic effects		OPP RfD= 0.003000		study has been reviewed;		MED complete 02/21/86.	
CAS No. 2921-88-2		0.00 ppm		identified.		EPA RfD= 0.003000		RfD to be reevaluated.		EPA verified 03/11/86.	
A.I. CODE: 059101		LEL= 0.1000 mg/kg		Negative for oncogenicity						MED complete 03/04/88.	
CFR No. 180.342		0.00 ppm		in the mouse, rat study						On IRIS.	
		ONCO: Negative- 1 species.		inadequate.							
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	0.200000			
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	0.200000			
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			
03009AA	WALNUTS	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	4F2999	P 0.200000	0.200000		100.00	0.005000			
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.200000			
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	4F2999	P 0.200000	0.200000	FIELD TRIALS	100.00	0.005000			
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)	6W5505	P 0.100000	0.100000C	PROCESS. STUDY	35.00	0.035000			
04002AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	P 0.050000	0.005000	PROCESS. STUDY	35.00	0.035000			
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	6F1786	N -0.040000	0.010000		100.00	0.005000			
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	6F1786	N -0.040000	0.000000		54.00	0.005400			
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	N -0.040000	0.000000		54.00	0.000000			
04003AA	PEARS-FRESH	51 COOKED-CANNED	6F1786	N -0.040000	0.010000		54.00	0.000000			
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	6F1786	N -0.040000	0.000000		54.00	0.005400			
04003AA	PEARS-FRESH	62 COOKED-FRESH OF FROZEN-BAKED	6F1786	N -0.040000	0.010000		54.00	0.005400			
04003AA	PEARS-FRESH	62 COOKED-FRESH OF FROZEN-BAKED	6F1786	N -0.040000	0.000000		54.00	0.000000			

Attachment 8 (cont.)

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Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PAD1 UF -->10		New chronic/onco rat		WHO last reviewed 1982.	
Caswell #219AA		NOEL= 0.0300 mg/kg		No other systemic effects		OPP RfD= 0.003000		study has been reviewed;		MED complete 02/21/86.	
CAS No. 2921-88-2		0.00 ppm		identified.		EPA RfD= 0.003000		RfD to be reevaluated.		EPA verified 03/11/86.	
A.I. CODE: 059101		LEL= 0.1000 mg/kg		Negative for oncogenicity						MED complete 03/04/88.	
CFR No. 180.342		0.00 ppm		in the mouse, rat study						On IRIS.	
		OMCO: Negative- 1 species.		inadequate.							
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	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			
06010BA	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	PAIPANS	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	6H5505	P 0.100000	0.005000		100.00	0.005000			
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	6H5505	P 0.100000	0.005000		100.00	0.005000			
06020AA	ACEROLA	00 NOT SPECIFIED (NO CONSUMPTION)	3E2766	P 2.000000	2.000000		100.00	2.000000			
06021AA	GINNGO NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000			
06022AA	MANEY	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000			
06023AA	PITANGA	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000			
06024AA	SOURSOP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000			
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000			
06026AA	BREAD FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	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			

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos	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.
Caswell #219AA					On IRIS.
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)
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
07004AA	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	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	MORSEADISH	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
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	MUTNEG	21 COOKED-NFS	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	0.005000		100.00	0.005000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		7.00	0.005000
10002AB	CANTALOUPE-PULP	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
10003AA	CASABAS	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10004AA	CRENSHAUS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
10005AA	HONEYDEW MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000
		10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 8

DATE: 02/16/93

CHEMICAL		STUDY TYPE		EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.		PADI	UF	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.	
Caswell #219AA	NOEL= 0.0300 mg/kg			OPP RfD= 0.003000					
CAS No. 2921-88-2	0.00 ppm			EPA RfD= 0.003000					
A.I. CODE: 059101	LEL= 0.1000 mg/kg								
CFR No. 180.342	0.00 ppm								
ONCO: 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)	
10007AA	PERSEON 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	10 RAW-FRESH OR NFS	9F2221	N -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	N -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	N -0.050000	0.000000		1.00	0.000000	
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		5.00	0.002500	
10011AA	PUMPKIN	21 COOKED-NFS	9F2221	N -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	22 COOKED-FRESH-BAKED	9F2221	N -0.050000	0.000000		5.00	0.002500	
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	P 0.100000	0.050000		5.00	0.002500	
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9F2221	N -0.050000	0.000000		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	CHILLI 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		P 0.500000	0.500000		1.00	0.005000	
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS		N 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		N 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		N 0.500000	0.500000		1.00	0.005000	

Attachment 8 (cont.)

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 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.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS		P	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS		N	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005JA	TOMATOES-JUICE	21 COOKED-NFS		M	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS		N	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	21 COOKED-NFS		N	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED		N	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED		N	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED		P	0.500000		1.00	0.005000
11005RA	TOMATOES-PUREE	51 COOKED-CANNED		N	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	21 COOKED-NFS		N	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED		P	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED		N	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED		P	0.500000		1.00	0.005000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED		N	0.500000		1.00	0.005000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS		P	0.500000		1.00	0.005000
11005UA	TOMATOES-CATSUP	21 COOKED-NFS		N	0.500000		1.00	0.005000
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000		100.00	0.005000
3001AA	BEEFS-TOPS	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000		100.00	0.005000
3001AA	BEEFS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	6H5505	P	0.100000		100.00	0.005000
3002AA	CELERY	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
3002AA	CELERY	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
3003AA	CHICORY	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
3003AA	BROCCOLI	21 COOKED-NFS	3E2819	P	2.000000		14.00	0.005000
3003AA	BROCCOLI	21 COOKED-NFS	3E2819	N	1.000000		14.00	0.000000
3003AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	P	2.000000		14.00	0.000000
3003AA	BROCCOLI	31 COOKED-FRESH OR CANNED	3E2819	N	1.000000		14.00	0.000000
3003AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	P	2.000000		14.00	0.000000
3003AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	3E2819	N	1.000000		14.00	0.000000
3006AA	BRUSSEL SPROUTS	21 COOKED-NFS	3E2819	P	2.000000		22.00	0.000000
3006AA	BRUSSEL SPROUTS	21 COOKED-NFS	3E2819	N	1.000000		22.00	0.000000
3006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3E2819	P	2.000000		22.00	0.000000
3006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	3E2819	N	1.000000		22.00	0.000000
3007AA	CABBAGE	10 RAW-FRESH OR NFS	3E2819	P	2.000000		13.00	0.000000
3007AA	CABBAGE	10 RAW-FRESH OR NFS	3E2819	N	1.000000		13.00	0.000000

Attachment 8 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 10

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	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13007AA	CABBAGE	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	P 2.000000	1.000000		13.00	0.130000
13007AA	CABBAGE	21 COOKED-NFS	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	10 RAW-FRESH OR NFS	M -1.000000	0.000000		12.00	0.000000
13008AA	CAULIFLOWER	21 COOKED-NFS	P 2.000000	1.000000		12.00	0.120000
13008AA	CAULIFLOWER	21 COOKED-NFS	M -1.000000	0.000000		12.00	0.000000
13009AA	COLLARDS	51 COOKED-CANNED	P 2.000000	1.000000		12.00	0.120000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	P 2.000000	1.000000		17.00	0.170000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	M -1.000000	0.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	P 2.000000	1.000000		37.00	0.370000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	M -1.000000	0.000000		37.00	0.370000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000		100.00	1.000000
13012AA	KOHLRABI	21 COOKED-NFS	P 2.000000	1.000000		100.00	1.000000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13014AA	DANDELION	63 COOKED-FRESH OR FROZEN-BOILED	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13015AA	ENDIVE	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000		100.00	0.005000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	P 0.100000	0.005000		100.00	0.005000
13018AA	ARTICHOKES-GLOBE	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	P 2.000000	1.000000		100.00	1.000000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13022AA	PARSLEY	53 COOKED-CANNED-BOILED	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	P 0.100000	0.005000		100.00	0.005000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	21 COOKED-NFS	P 0.100000	0.005000		100.00	0.005000
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	P 0.100000	0.005000		100.00	0.005000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	P 0.100000	0.005000		100.00	0.005000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	P 1.000000	0.300000		100.00	0.300000

Attachment 8 (cont.)

DATE: 02/16/93

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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

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	OE2411	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	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	P	0.100000	0.005000		100.00	0.005000
13027AA	WATERCRESS	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
13039AA	CRESS, UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
13047AA	LAMBSQUARTER	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
13049AA	GRAPES-LEAVES	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
13999AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	P	0.100000	0.005000		100.00	0.005000
14001AA	BEEETS-ROOTS	31 COOKED-FRESH OR CANNED	P	0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	P	0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	P	0.100000	0.005000		100.00	0.005000
14003AA	CARROTS	51 COOKED-CANNED	P	0.100000	0.005000		100.00	0.005000
14004AA	CELERYAC	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
14005AA	CHIVES	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
14007AA	GARLIC	10 RAW-FRESH OR NFS	P	0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	21 COOKED-NFS	P	0.500000	0.500000		45.00	0.225000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	P	0.500000	0.500000		45.00	0.225000
14009AA	ARTICHOKES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	P	0.100000	0.005000		100.00	0.005000
14010AA	LEEK	31 COOKED-FRESH OR FROZEN	P	0.200000	0.200000		100.00	0.200000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	P	0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	P	0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	P	0.500000	0.500000		46.00	0.230000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	P	0.500000	0.500000		46.00	0.230000
14011DA	ONIONS-DRIED	12 RAW-FRESH-DRIED	P	0.500000	0.500000		46.00	0.230000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	P	0.100000	0.005000		100.00	0.005000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 12

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)
14013AB	POTATO(UH)-UNSP	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	23 COOKED-FRESH-BOILED	6W5505	P 0.100000	0.005000		100.00	0.005000
14013AC	POTATO(UH)-PULP	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
14013DA	POTATO(UH)-DRY	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000C		100.00	0.005000
14013DA	POTATO(UH)-DRY	31 COOKED-FRESH OR CANNED	6W5505	P 0.100000	0.005000C		100.00	0.005000
14013NA	POTATO(UH)-PEEL	22 COOKED-FRESH-BAKED	6W5505	P 0.100000	0.005000		100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS	8E2038	P 3.000000	2.000000		100.00	0.005000
14014AA	RADISHES-ROOTS	10 RAW-FRESH OR NFS		P -1.000000	0.000000		17.00	0.340000
14014AB	RADISHES-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		17.00	0.000000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	832038	P 3.000000	0.500000		100.00	0.005000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS		P -2.500000	0.000000		100.00	0.500000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	832038	P 3.000000	0.500000		100.00	0.000000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)		P -2.500000	0.000000		100.00	0.500000
14016AA	SALSIFY	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.000000
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.005000
14018AA	SWEET POTATOES	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED	6F1786	P -0.050000	0.000000		64.00	0.005000
14018AA	SWEET POTATOES	31 COOKED-FRESH OR CANNED		P -0.050000	0.000000		64.00	0.000000
14018AA	SWEET POTATOES	51 COOKED-CANNED	6F1786	P 0.100000	0.050000		64.00	0.000000
14018AA	SWEET POTATOES	51 COOKED-CANNED		P -0.050000	0.000000		64.00	0.000000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	0E2411	P 3.000000	1.000000		100.00	0.000000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS		P -2.000000	0.000000		100.00	0.000000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	0E2411	P 3.000000	1.000000		100.00	0.000000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS		P -2.000000	0.000000		100.00	0.000000
14021AA	PARSNIPS	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.000000
14024AA	YAMBEAN, TUBER	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.000000
14026AA	CASSAVA	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	6W5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14026AB	TAPIOCA	31 COOKED-FRESH OR CANNED	6W5505	P 0.100000	0.005000		100.00	0.005000
14028AA	YAUTIA, TANNIER	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	P 0.100000	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
14031AA	WATER CHESTNUTS	25 COOKED-FRESH-FRIED	6W5505	P 0.100000	0.005000		100.00	0.005000
15001AA	BEANS-DRY-GRT NO	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		100.00	0.005000
15001AA	BEANS-DRY-GRT NO	00 NOT SPECIFIED (NO CONSUMPTION)		P -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 NOEL= 0.0300 mg/kg LEL= 0.1000 mg/kg ONCO: Negative- 1 species.	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)	WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.	
FOOD CODE	FOOD										
15001AB	BEANS-DRY-KIDNEY 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15001AB	BEANS-DRY-KIDNEY 21	COOKED-NFS		N	-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		
15001AC	BEANS-DRY-LIMA 21	COOKED-NFS	9F2221	N	-0.050000	0.000000		1.00	0.000000		
15001AC	BEANS-DRY-LIMA 21	COOKED-NFS		N	-0.050000	0.050000		1.00	0.000000		
15001AD	BEANS-DRY-NAVY 21	COOKED-NFS	9F2221	N	-0.050000	0.000000		1.00	0.000000		
15001AD	BEANS-DRY-NAVY 21	COOKED-NFS		N	-0.050000	0.050000		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		N	-0.050000	0.000000		1.00	0.000000		
15001AE	BEANS-DRY-OTHER 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15001AE	BEANS-DRY-OTHER 21	COOKED-NFS		N	-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		N	-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		N	-0.050000	0.000000		1.00	0.000000		
15001AF	BEANS-DRY-PINTO 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15001AF	BEANS-DRY-PINTO 21	COOKED-NFS		N	-0.050000	0.000000		1.00	0.000000		
15002AA	BEANS-SUCC-LIMA 10	RAW-FRESH OR NFS	9F2221	N	-0.050000	0.000000		1.00	0.000000		
15002AA	BEANS-SUCC-LIMA 10	RAW-FRESH OR NFS		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		
15002AA	BEANS-SUCC-LIMA 21	COOKED-NFS		N	-0.050000	0.000000		1.00	0.000000		
15003AA	BEANS-SUCC-GREEN 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15003AA	BEANS-SUCC-GREEN 21	COOKED-NFS		N	-0.050000	0.000000		1.00	0.000000		
15003AB	BEANS-SUCC-OTHER 10	RAW-FRESH OR NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15003AB	BEANS-SUCC-OTHER 10	RAW-FRESH OR NFS		N	-0.050000	0.000000		1.00	0.000000		
15003AB	BEANS-SUCC-OTHER 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15003AB	BEANS-SUCC-OTHER 21	COOKED-NFS		N	-0.050000	0.000000		1.00	0.000000		
15003AC	BEANS-SUCC-WAX 21	COOKED-NFS	9F2221	P	0.100000	0.050000		1.00	0.000500		
15003AC	BEANS-SUCC-WAX 21	COOKED-NFS		N	-0.050000	0.000000		1.00	0.000000		
15004AA	CORN, POP			N	-0.050000	0.000000		1.00	0.000500		
15005AA	CORN, SHEET	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.005000		100.00	0.005000		
15005AA	CORN, SHEET	21 COOKED-NFS	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 NFS	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	N	-0.300000	0.000000		26.00	0.000000		
15006AA	PEANUTS-WHOLE	21 COOKED-NFS		N	-0.300000	0.200000		26.00	0.052000		
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9F2193	P	0.500000	0.200000		26.00	0.052000		
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED		N	-0.300000	0.000000		26.00	0.000000		

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 14

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)
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	9F2221	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-NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	9F2221	M -0.050000	0.000000		1.00	0.000000
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	9F2221	P 0.100000	0.050000		1.00	0.000500
15011AB	LENTILS-SPLIT	21 COOKED-NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15011AB	LENTILS-SPLIT	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
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	M -0.050000	0.000000		1.00	0.000000
15013AA	MUNG BEANS	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15015AA	OKRA	21 COOKED-NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
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 0.100000	0.100000		10.00	0.010000
15020AA	CAROB	10 RAW-FRESH OR NFS	6M5505	P 0.250000	0.250000		1.00	0.002500
15020AA	CAROB	10 RAW-FRESH OR NFS	6M5505	M -0.050000	0.005000		100.00	0.005000
15020AA	CAROB	21 COOKED-NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15020AA	CAROB	21 COOKED-NFS	6M5505	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
15020AA	CAROB	22 COOKED-FRESH-BAKED	6M5505	M -0.050000	0.000000		100.00	0.000000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	6M5505	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)	9F2221	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)	9F2221	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	9F2221	M -0.050000	0.000000		1.00	0.000000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6M5505	P 0.100000	0.050000		100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9F2221	M -0.050000	0.000000		1.00	0.000000
15028AA	PINENUTS	10 RAW-FRESH OR NFS	6M5505	P 0.100000	0.005000		100.00	0.005000
15028AA	PINENUTS	21 COOKED-NFS	6M5505	P 0.100000	0.050000		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)	9F2270	M -0.200000	0.000000		1.00	0.000000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 15

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 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-NFS	9F2221	P 0.100000	0.050000		1.00	0.000500
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	9F2221	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	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-NFS	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 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	10 RAW-FRESH OR NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
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	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	23 COOKED-FRESH-BOILED	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
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	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
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	3F1306	M -0.050000	0.000000		12.00	0.000000
24002SA	CORN SUGAR	21 COOKED-NFS	3F1306	P 0.100000	0.050000		12.00	0.006000
24002SA	CORN SUGAR	21 COOKED-NFS	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-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

Attachment 8 (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.	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)
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
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
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	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
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	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	10 RAW-FRESH OR NFS	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
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	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	10 RAW-FRESH OR 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	21 COOKED-NFS	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
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
24007JA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	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	21 COOKED-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	22 COOKED-FRESH-BAKED	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	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

PAGE: 17

DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos	Human 20 day feeding MOEL= 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.	OPP RfD= 0.003000 EPA RfD= 0.003000	-->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)
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	BET SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BET SUGAR	21 COOKED-NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BET SUGAR	22 COOKED-FRESH-BAKED	2F2684	P 1.000000	1.000000		25.00	0.250000
25002SA	BET SUGAR	31 COOKED-FRESH OR CANNED	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	2F2684	P 1.000000	1.000000		25.00	0.250000
25003SA	CANE SUGAR	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000		100.00	0.005000
25003SA	CANE 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	0.005000		100.00	0.005000
270010A	CANARY 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	P 0.500000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	6F1786	P 0.500000	0.200000		2.00	0.004000
270030A	COTTONSEED-OIL	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	0.005000
270080A	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
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	6H5505	P 0.100000	0.005000		100.00	0.005000
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.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 18

DATE: 02/16/93

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS		
Chlorpyrifos	Caswell #219AA	Human 20 day feeding	Decreased plasma ChE.	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.		
	CAS No. 2921-88-2	NOEL= 0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000				
	A.I. CODE: 059101	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000				
	CFR No. 180.342	0.00 ppm						
		OMCO: 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)
270150A	COCOAUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000
270150A	COCOAUT-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 MOLEAF VEG	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	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	0.005000		100.00	0.005000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	P 10.000000	8.000000C			100.00	1.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	M -2.000000	0.000000C			100.00	8.000000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)					100.00	0.000000

Attachment 8 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 19

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)
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	0.005000		100.00	0.005000
43057AA	VINEGAR	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	2E2584	P 0.100000	0.500000		1.00	0.005000
43058AA	WINE AND SHERRY	21 COOKED-NFS	2E2584	P 0.500000	0.500000		1.00	0.005000
43059AA	DIST ALCOHOL	21 COOKED-NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	10 RAW-FRESH OR NFS	6W5505	P 0.100000	0.005000		100.00	0.005000
43060AA	GELATIN	21 COOKED-NFS	6W5505	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	0.005000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M -0.010000	-0.010000		100.00	0.020000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M -0.020000	0.020000		100.00	-0.010000
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	0F2281	M -0.010000	-0.010000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	M -0.010000	-0.010000		100.00	-0.010000
500000A	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	0F2281	P 0.500000	0.500000C		100.00	0.500000
500000A	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	M -0.250000	-0.250000C		100.00	-0.250000
500000A	MILK-FAT SOLIDS	21 COOKED-NFS	0F2281	M -0.250000	0.500000C		100.00	0.500000
500000A	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	M -0.250000	-0.250000C		100.00	-0.250000
500000A	MILK-FAT SOLIDS	51 COOKED-CANNED	0F2281	M -0.250000	0.500000C		100.00	0.500000
500000A	MILK-SUG (LACT)	21 COOKED-NFS	0F2281	P 0.020000	0.020000		100.00	0.020000
500000A	MILK-SUG (LACT)	51 COOKED-NFS	0F2281	M -0.010000	-0.010000		100.00	-0.010000
500000A	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	0.050000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.000000
530018A	BEEF-MEAT BYPROD	26 COOKED-FRESH-PICKLED, CORNED OR CURED	3F1306	M -1.950000	0.050000	3F02884	100.00	0.050000
530018B	BEEF-OTHER ORGAN	21 COOKED-NFS	3F1306	M 2.000000	0.000000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M -1.950000	0.000000	3F02884	100.00	0.000000
530018B	BEEF-OTHER ORGAN	51 COOKED-CANNED	3F1306	M -1.950000	0.050000	3F02884	100.00	0.050000
530010A	BEEF-DRIED	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530010A	BEEF-DRIED	21 COOKED-NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.000000
530010A	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530010A	BEEF-FAT	10 RAW-FRESH OR NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.000000
530010A	BEEF-FAT	21 COOKED-NFS	3F1306	M 2.000000	0.200000	3F02884	100.00	0.200000
530010A	BEEF-FAT	21 COOKED-NFS	3F1306	M -1.700000	0.000000	3F02884	100.00	0.000000

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 219AA

PAGE: 20

DATE: 02/16/93

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

Attachment 8 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 21

DATE: 02/16/93

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

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53003AA	HORSE	9F2270	P 1.000000	0.250000		100.00	0.250000
53003AA	HORSE		N -0.750000	-0.750000		100.00	-0.750000
53004AA	RABBIT	6W5505	P 0.100000	0.005000		100.00	0.005000
53004AA	RABBIT		N 0.100000	0.005000		100.00	0.005000
53005BA	SHEEP-MEAT BYP	6W5505	P 1.000000	1.000000		100.00	1.000000
53005BA	SHEEP-MEAT BYP		N -0.950000	-0.950000		100.00	-0.950000
53005BB	SHEEP-MEAT BYP	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BB	SHEEP-MEAT BYP		N -0.950000	-0.950000		100.00	-0.950000
53005BB	SHEEP-OTH ORGANS	9F2270	P 1.000000	1.000000		100.00	1.000000
53005BB	SHEEP-OTH ORGANS		N -0.950000	-0.950000		100.00	-0.950000
53005FA	SHEEP-FAT	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-FAT		N -0.950000	-0.950000		100.00	-0.950000
53005FA	SHEEP-KIDNEY	9F2270	P 1.000000	1.000000		100.00	1.000000
53005FA	SHEEP-KIDNEY		N -0.800000	-0.800000		100.00	-0.800000
53005KA	SHEEP-KIDNEY	9F2270	P 1.000000	1.000000		100.00	1.000000
53005KA	SHEEP-KIDNEY		N -0.950000	-0.950000		100.00	-0.950000
53005LA	SHEEP-LIVER	9F2270	P 1.000000	1.000000		100.00	1.000000
53005LA	SHEEP-LIVER		N -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN		N -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN		N -0.950000	-0.950000		100.00	-0.950000
53005MA	SHEEP-LEAN	9F2270	P 1.000000	1.000000		100.00	1.000000
53005MA	SHEEP-LEAN		N -0.950000	-0.950000		100.00	-0.950000
53006BA	PORK-MEAT BYP	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BA	PORK-MEAT BYP		N -0.450000	-0.450000		100.00	-0.450000
53006BA	PORK-MEAT BYP	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BA	PORK-MEAT BYP		N -0.450000	-0.450000		100.00	-0.450000
53006BB	PORK-OTH ORGANS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS		N -0.450000	-0.450000		100.00	-0.450000
53006BB	PORK-OTH ORGANS	3F1306	P 0.500000	0.500000		100.00	0.500000
53006BB	PORK-OTH ORGANS		N -0.450000	-0.450000		100.00	-0.450000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006FA	PORK-FAT	3F1306	P 0.500000	0.500000		100.00	0.500000
53006FA	PORK-FAT		N -0.300000	-0.300000		100.00	-0.300000
53006							

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 02/16/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA CAPS/COMMENTS	STATUS
Chlordpyrifos 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.	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	PORK-LEAN	3F1306	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	21 COOKED-NFS	N -0.450000	-0.450000		100.00	-0.450000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	N -0.450000	-0.450000		100.00	-0.450000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	P 0.500000	0.500000		100.00	0.500000
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	N -0.450000	-0.450000		100.00	-0.450000
53010AA	FISH-UNSPEC	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH-SHELL	10 RAW-FRESH OR NFS	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH-SHELL	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53013AA	FISH-SHELL	25 COOKED-FRESH-FRIED	P 0.100000	0.100000		100.00	0.100000
53014AA	MEAT, GAME	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53014AA	MEAT, GAME	25 COOKED-FRESH-FRIED	P 0.100000	0.100000		100.00	0.100000
53015AA	FISH-ROE, CAVIAR	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53015AA	FISH-ROE, CAVIAR	51 COOKED-CANNED	P 0.100000	0.100000		100.00	0.100000
53016AA	FISH, FIN-FRESH	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53016AA	FISH, FIN-FRESH	25 COOKED-FRESH-FRIED	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH, FIN-SALT	10 RAW-FRESH OR NFS	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH, FIN-SALT	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
53017AA	FISH, FIN-SALT	25 COOKED-FRESH-FRIED	P 0.100000	0.100000		100.00	0.100000
53017DA	FISH, FIN-SLT-DRY	12 RAW-FRESH-DRY	P 0.100000	0.100000		100.00	0.100000
53017DA	FISH, FIN-SLT-DRY	21 COOKED-NFS	P 0.100000	0.100000		100.00	0.100000
55008BA	TURKEY-BYPRODUCT	21 COOKED-NFS	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY-BYPRODUCT	21 COOKED-NFS	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY ORGAN	21 COOKED-NFS	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY ORGAN	21 COOKED-NFS	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	21 COOKED-NFS	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY W/O SKIN	21 COOKED-NFS	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY+SKIN	21 COOKED-NFS	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY+SKIN	21 COOKED-NFS	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	N -0.400000	0.000000		100.00	0.000000
55008BA	TURKEY-UNSPEC	21 COOKED-NFS	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000
55008BA	TURKEY-UNSPEC	21 COOKED-NFS	N -0.400000	0.000000		100.00	0.000000

Attachment 8 (cont.)

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
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.	OPP RfD= 0.003000 EPA RfD= 0.003000	-->10	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	COOKED-NFS	0.000000	FEEDING STUDY	100.00	0.000000
55013BA	POULTRY, OTH-BYP	00	NOT SPECIFIED (NO CONSUMPTION)	0.010000	FEEDING STUDY	100.00	0.010000
55013BA	POULTRY, OTH-BYP	00	NOT SPECIFIED (NO CONSUMPTION)	0.000000		100.00	0.000000
55013LA	POULTRY, ORGAN	25	COOKED-FRESH-FRIED	0.010000	FEEDING STUDY	100.00	0.010000
55013LA	POULTRY, ORGAN	25	COOKED-FRESH-FRIED	0.000000		100.00	0.000000
55013MA	POULTRY, OTHER	21	COOKED-NFS	0.010000	FEEDING STUDY	100.00	0.010000
55013MA	POULTRY, OTHER	21	COOKED-NFS	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	10	RAW-FRESH OR NFS	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	10	RAW-FRESH OR NFS	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	21	COOKED-NFS	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	21	COOKED-NFS	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	22	COOKED-FRESH-BAKED	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	22	COOKED-FRESH-BAKED	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	23	COOKED-FRESH-BOILED	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	23	COOKED-FRESH-BOILED	0.000000		100.00	0.000000
55014AA	EGGS-WHOLE	25	COOKED-FRESH-FRIED	0.010000		100.00	0.010000
55014AA	EGGS-WHOLE	25	COOKED-FRESH-FRIED	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	10	RAW-FRESH OR NFS	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	10	RAW-FRESH OR NFS	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	21	COOKED-NFS	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	21	COOKED-NFS	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	22	COOKED-FRESH-BAKED	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	22	COOKED-FRESH-BAKED	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	62	COOKED-FRESH OR FROZEN-BAKED	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	62	COOKED-FRESH OR FROZEN-BAKED	0.000000		100.00	0.000000
55014AB	EGGS-WHITE ONLY	81	COOKED-FROZEN	0.010000		100.00	0.010000
55014AB	EGGS-WHITE ONLY	81	COOKED-FROZEN	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	10	RAW-FRESH OR NFS	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	10	RAW-FRESH OR NFS	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	21	COOKED-NFS	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	21	COOKED-NFS	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	25	COOKED-FRESH-FRIED	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	25	COOKED-FRESH-FRIED	0.000000		100.00	0.000000
55014AC	EGGS-YOLK ONLY	31	COOKED-FRESH OR CANNED	0.010000		100.00	0.010000
55014AC	EGGS-YOLK ONLY	31	COOKED-FRESH OR CANNED	0.000000		100.00	0.000000
55015BA	CHICKEN-BYPROD	00	NOT SPECIFIED (NO CONSUMPTION)	0.010000	FEEDING STUDY	100.00	0.010000
55015BA	CHICKEN-BYPROD	00	NOT SPECIFIED (NO CONSUMPTION)	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	21	COOKED-NFS	0.010000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	21	COOKED-NFS	0.000000		100.00	0.000000
55015LA	CHICKEN-ORGAN	25	COOKED-FRESH-FRIED	0.010000	FEEDING STUDY	100.00	0.010000

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
			PM01	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma CHE.	OPP RfD= 0.003000	10	New chronic/onco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000			WHO complete 02/21/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study				EPA verified 03/11/86.
A.I. CODE: 059101	0.00 ppm	Inadequate.				WHO complete 03/04/88.
CFR No. 180.342	OMCO: Negative- 1 species.					On IRIS.

FOOD CODE	FOOD	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		100.00	0.000000
55015LA	CHICKEN-ORGAN	26	COOKED-FRESH-PICKLED, CORNED OR CURED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015LA	CHICKEN-ORGAN	26	COOKED-FRESH-PICKLED, CORNED OR CURED	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	21	COOKED-NFS	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	21	COOKED-NFS	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	22	COOKED-FRESH-BAKED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	22	COOKED-FRESH-BAKED	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	25	COOKED-FRESH-FRIED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	25	COOKED-FRESH-FRIED	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	31	COOKED-FRESH OR CANNED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	31	COOKED-FRESH OR CANNED	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	53	COOKED-FRESH OR CANNED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	53	COOKED-FRESH OR CANNED	M -0.400000		100.00	0.000000
55015MA	CHICKEN-W/O SKIN	53	COOKED-CANNED-BOILED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	53	COOKED-CANNED-BOILED	M -0.400000		100.00	0.000000
55015MB	CHICKEN+SKIN	21	COOKED-NFS	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	21	COOKED-NFS	M -0.400000		100.00	0.000000
55015MB	CHICKEN+SKIN	25	COOKED-FRESH-FRIED	P 0.500000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	25	COOKED-FRESH-FRIED	M -0.400000		100.00	0.000000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/16/93

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
		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.		
Chlorpyrifos Caswell #219AA CAS No. 2921-88-2 A.I. CODE: 059101 CFR No. 180.342							WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88. On IRIS.

TOTAL THRC (MG/KG BODY WEIGHT/DAY)

POPULATION SUBGROUP

U.S. POPULATION - 48 STATES

U.S. POPULATION - SPRING SEASON
U.S. POPULATION - SUMMER SEASON
U.S. POPULATION - FALL SEASON
U.S. POPULATION - WINTER SEASON

NORTHEAST REGION

NORTH CENTRAL REGION
SOUTHERN REGION
WESTERN REGION

HISPANICS

NON-HISPANIC WHITES
NON-HISPANIC BLACKS
NON-HISPANIC OTHERS

NURSING INFANTS (< 1 YEAR OLD)

NON-NURSING INFANTS (< 1 YEAR OLD)
FEMALES (13+ YEARS, PREGNANT)

FEMALES 13+ YEARS, NURSING

CHILDREN (1-6 YEARS OLD)

CHILDREN (7-12 YEARS OLD)

MALES (13-19 YEARS OLD)

FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)

MALES (20 YEARS AND OLDER)

FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)

CURRENT THRC*	NEW THRC**	NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	ARC	2RFD
0.010728	0.007158	238.584700	-119.021666	0.000818	27.27210
0.010446	0.006873	229.095700	-119.104532	0.000778	25.92067
0.010350	0.006724	224.144300	-120.862899	0.000704	26.13133
0.011051	0.007416	247.215600	-121.159432	0.000851	28.35993
0.010924	0.007481	249.357300	-114.763932	0.000814	27.14320
0.011681	0.008116	270.543033	-118.814599	0.000821	27.37703
0.010568	0.007011	233.697967	-118.559099	0.000812	27.07127
0.009714	0.006239	207.961433	-115.848866	0.000777	25.90227
0.011241	0.007485	249.483833	-125.227532	0.000830	27.67633
0.012418	0.008077	269.222867	-144.709099	0.000860	28.67247
0.010595	0.007104	236.798000	-116.363932	0.000796	26.51770
0.010281	0.006660	222.002600	-120.712766	0.000837	27.90857
0.012717	0.008364	278.809367	-145.096699	0.000948	31.60343
0.014991	0.012551	418.353067	-81.360466	0.000911	30.37903
0.026784	0.019875	662.503100	-230.281699	0.002113	70.44403
0.007826	0.005520	183.995200	-76.877366	0.000582	19.39897
0.008600	0.005905	196.845567	-89.809032	0.000697	23.23023
0.024425	0.017293	576.444500	-237.723132	0.001837	61.22807
0.015253	0.010188	339.583333	-168.851566	0.001225	40.83340
0.010144	0.006316	210.531333	-127.593099	0.000814	27.14567
0.008805	0.005739	191.313467	-102.192232	0.000688	22.92373
0.008021	0.004915	143.848600	-103.528399	0.000599	19.95740
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:	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:	-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
THE NEW ARC WILL OCCUPY	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:	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:	-36.654	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.002113	MG/KG/DAY
THE NEW ARC WILL OCCUPY	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:	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:	-24.009	% OF THE ADI.
IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)		
ARE APPROVED THE RESULTANT ARC WILL BE:	0.001837	MG/KG/DAY
THE NEW ARC WILL OCCUPY	61.228	% 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:	-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

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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.	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.

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	1.000000	1.000000		100.00	1.000000
0101002AA	BLACKBERRIES	21 COOKED-NFS	7E3557	1.000000	1.000000		100.00	1.000000
0101002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	1.000000	1.000000		100.00	1.000000
0101003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7E3557	1.000000	1.000000		100.00	1.000000
0101004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	1.000000	1.000000		100.00	1.000000
0101005AA	LOGANBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	7E3557	1.000000	1.000000		100.00	1.000000
0101006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7E3557	1.000000	1.000000		100.00	1.000000
0101006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7E3557	1.000000	1.000000		100.00	1.000000
0101006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7E3557	1.000000	1.000000		100.00	1.000000
0101006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3557	1.000000	1.000000		100.00	1.000000
0101006AA	RASPBERRIES	70 RAW-FROZEN	7E3557	1.000000	1.000000		100.00	1.000000
011007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	0.100000	0.005000		100.00	0.005000
011009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	7E3466	2.000000	2.000000		100.00	2.000000
011009AA	BLUEBERRIES	21 COOKED-NFS	7E3466	2.000000	2.000000		100.00	2.000000
011009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	7E3466	2.000000	2.000000		100.00	2.000000
011009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7E3466	2.000000	2.000000		100.00	2.000000
011010AA	CRANBERRIES	10 RAW-FRESH OR NFS	2E2682	1.000000	1.000000		31.00	0.310000
011010AA	CRANBERRIES	21 COOKED-NFS	2E2682	1.000000	1.000000		31.00	0.310000
011010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	2E2682	1.000000	1.000000		31.00	0.310000
011010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	2E2682	1.000000	1.000000		31.00	0.310000
011010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	2E2682	1.000000	1.000000		31.00	0.310000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	6H5505	0.100000	0.005000		100.00	0.005000
01011AA	CURRENTS	21 COOKED-NFS	6H5505	0.100000	0.005000		100.00	0.005000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	6H5505	0.100000	0.005000		100.00	0.005000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	6H5505	0.100000	0.005000		100.00	0.005000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	6H5505	0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	6H5505	0.100000	0.005000		100.00	0.005000
01014AA	GRAPES-FRESH	21 COOKED-NFS	2E2584	0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	2E2584	0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	2E2584	0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	21 COOKED-NFS	2E2584	0.500000	0.500000		1.00	0.005000
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	2E2584	0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR NFS	2E2584	0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	21 COOKED-NFS	2E2584	0.500000	0.500000		1.00	0.005000
01014JA	GRAPES-JUICE	22 COOKED-FRESH-BAKED	2E2584	0.500000	0.500000		1.00	0.005000
01015AA	HUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	0.100000	0.005000		100.00	0.005000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	0E2283	0.500000	0.200000		5.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	0E2283	0.500000	0.200000		5.00	0.010000

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

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DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos Cassell #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)
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	6W5505	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
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	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	0.100000	PROCESS. STUDY	39.00	0.039000
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	0.050000C	PROCESS. STUDY	39.00	0.019500
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	0.032000
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		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 11 (cont.)

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DATE: 02/11/93

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 4

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PAOI	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	0.0300 mg/kg	10	New chronic/onco rat	WHO last reviewed 1982.
Caswell #219AA	NOEL = 0.00 ppm	No other systemic effects identified.	0.00 ppm	10	Study has been reviewed;	MED complete 02/21/86.
CAS No. 2921-88-2	LEL = 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study	0.1000 mg/kg	10	RfD to be reevaluated.	EPA verified 03/11/86.
A.I. CODE: 059101	0.00 ppm					MED complete 03/04/88.
CFR No. 180.342	ONCO: Negative- 1 species.	Inadequate.				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
05005AA	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
06002DA	BANANAS-DRIED	21 COOKED-NFS	3F1370	P 0.050000	0.010000		100.00	0.010000
06003AA	COCOMUT-FRESH	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003AA	COCOMUT-COPRA	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003AA	COCOMUT-COPRA	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
06003AA	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	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		7.00	0.000700
06005AA	FIGS	21 COOKED-NFS	2E2668	P 0.100000	0.010000		7.00	0.000700

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 5

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 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-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	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-PULP	31 COOKED-FRESH OR CANNED	6H5505	P 0.100000	0.005000		100.00	0.005000
06013AA	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	0.005000
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	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

Attachment 11 (cont.)

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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 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	PET.#	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	CHERIMOLA	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	0.005000		100.00	0.005000
08020AA	HOPS	6H5505	P 0.100000	0.005000		100.00	0.005000
08022AA	HORSERADISH	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	MACE	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	BAV	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		100.00	0.005000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 7

DATE: 02/11/93

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS		
Chlorpyrifos		Human 20 day feeding	Decreased plasma ChE.	PADI UF -->10	New chronic/onco rat study has been reviewed;	WHO last reviewed 1982.		
Caswell #219AA		MOEL= 0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000	RfD to be reevaluated.	NED complete 02/21/86.		
CAS No. 2921-88-2		LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000		EPA verified 03/11/86.		
A.I. CODE: 059101						NED complete 03/04/88.		
CFR No. 180.342		ONCO: 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)
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	PERSIMON 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	0.005000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, 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		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	TOMELGOURD	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
1003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
1003AA	PEPPERS, SWEET	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
1003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	1E2523	P 1.000000	1.000000		7.00	0.070000
1003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
1003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
1003AD	PEPPERS-OTHER	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
1003AD	PEPPERS-OTHER	51 COOKED-CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
1004AA	PIMIENTOS	10 RAW-FRESH OR NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
1004AA	PIMIENTOS	21 COOKED-NFS	1E2523	P 1.000000	1.000000		7.00	0.070000
1004AA	PIMIENTOS	31 COOKED-FRESH OR CANNED	1E2523	P 1.000000	1.000000		7.00	0.070000
1005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	P 0.500000	0.500000			7.00	0.070000
1005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	P 0.500000	0.500000			1.00	0.005000
1005AA	TOMATOES-WHOLE	21 COOKED-NFS	M 0.500000	0.500000			1.00	0.005000
1005AA	TOMATOES-WHOLE	21 COOKED-NFS	M 0.500000	0.500000			1.00	0.005000
1005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	P 0.500000	0.500000			1.00	0.005000
1005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	N 0.500000	0.500000			1.00	0.005000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

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DATE: 02/11/93

DATE: 02/11/93

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PAOI UF -->10		New chronic/orco rat		WHO last reviewed 1982. MED complete 02/21/86. EPA verified 03/11/86. MED complete 03/04/88.
Caswell #219AA		NOEL= 0.0300 mg/kg		No other systemic effects identified.		OPP RfD= 0.003000		study has been reviewed;		
CAS No. 2921-88-2		0.00 ppm		Negative for oncogenicity in the mouse, rat study inadequate.		EPA RfD= 0.003000		RfD to be reevaluated.		
A.I. CODE: 059101		LEL= 0.1000 mg/kg								
CFR No. 180.342		0.00 ppm								
		ONCO: 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)		
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	P	0.500000	0.500000		1.00	0.005000		
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	M	0.500000	0.500000		1.00	0.005000		
11005JA	TOMATOES-JUICE	21 COOKED-NFS	P	0.500000	0.500000		1.00	0.005000		
11005JA	TOMATOES-JUICE	21 COOKED-NFS	M	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		
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	M	0.500000	0.500000		1.00	0.005000		
11005RA	TOMATOES-PUREE	21 COOKED-NFS	P	0.500000	0.500000		1.00	0.005000		
11005RA	TOMATOES-PUREE	21 COOKED-NFS	M	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	31 COOKED-FRESH OR CANNED	M	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	32 COOKED-FRESH OR CANNED-BAKED	M	0.500000	0.500000		1.00	0.005000		
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	P	0.500000	0.500000		1.00	0.005000		
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	M	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	21 COOKED-NFS	M	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	22 COOKED-FRESH-BAKED	M	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		
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	M	0.500000	0.500000		1.00	0.005000		
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	P	0.500000	0.500000		1.00	0.005000		
11005UA	TOMATOES-CATSUP	21 COOKED-NFS	M	0.500000	0.500000		1.00	0.005000		
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)					1.00	0.005000		
13001AA	BEETS-TOPS	31 COOKED-FRESH OR CANNED	P	0.100000	0.005000		100.00	0.005000		
13001AA	BEETS-TOPS	63 COOKED-FRESH OR CANNED	P	0.100000	0.005000		100.00	0.005000		
13002AA	CELERY	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000		
13002AA	CELERY	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000		
13003AA	CHICORY	10 RAW-FRESH OR NFS	P	0.100000	0.005000		100.00	0.005000		
13003AA	CHICORY	21 COOKED-NFS	P	0.100000	0.005000		100.00	0.005000		
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	P	2.000000	1.000000		14.00	0.140000		
13005AA	BROCCOLI	63 COOKED-FRESH OR CANNED	P	2.000000	1.000000		14.00	0.140000		
13005AA	BROCCOLI	21 COOKED-NFS	P	2.000000	1.000000		22.00	0.220000		
13005AA	BROCCOLI	23 COOKED-FRESH-BOILED	P	2.000000	1.000000		22.00	0.220000		
13006AA	BRUSSEL SPROUTS	10 RAW-FRESH OR NFS	P	2.000000	1.000000		13.00	0.130000		
13006AA	BRUSSEL SPROUTS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	P	2.000000	1.000000		13.00	0.130000		
13007AA	CABBAGE	21 COOKED-NFS	P	2.000000	1.000000		12.00	0.120000		
13007AA	CABBAGE	10 RAW-FRESH OR NFS	P	2.000000	1.000000		17.00	0.170000		
13007AA	CABBAGE	21 COOKED-NFS	P	2.000000	1.000000		17.00	0.170000		
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	P	2.000000	1.000000		17.00	0.170000		
13008AA	CAULIFLOWER	21 COOKED-NFS	P	2.000000	1.000000		17.00	0.170000		
13009AA	COLLARDS	51 COOKED-CANNED	P	2.000000	1.000000		17.00	0.170000		
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	P	2.000000	1.000000		17.00	0.170000		

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 9

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos	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.
Caswell #219AA					On IRIS.
CAS No. 2021-88-2					
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)
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	0.005000
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
13027AA	WATERCRESS	00 NOT SPECIFIED (NO CONSUMPTION)	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	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	6H5505	P 0.100000	0.005000		100.00	0.005000
13047AA	LAMBSQUARTER	21 COOKED-NFS	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. 2921-80-2 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		Decreased plasma CHE. No other systemic effects identified. Negative for oncogenicity in the mouse, rat study inadequate.	PAD1 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.	
ONCO: 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)	
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	36 COOKED-FRESH-PICKLED, CORNED, OR CURED	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	6H5505	P 0.100000	0.005000		100.00	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	ARTICHOKEES-JER	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P 0.100000	0.005000		100.00	0.005000	
14010AA	LEEKS	31 COOKED-FRESH OR FROZEN	6H5505	P 0.100000	0.005000		100.00	0.005000	
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(UH)-WHOLE	10 RAW-FRESH OR NFS	0E2387	P 0.500000	0.500000		46.00	0.230000	
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)-UNSP	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	
14013DA	POTATO(UH)-DRY	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.005000		100.00	0.005000	
14013DA	POTATO(UH)-DRY	31 COOKED-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000	
14013HA	RADISHES-ROOTS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.005000C		100.00	0.005000	
14014AA	RADISHES-TOPS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000C		100.00	0.005000	
14014AB	RUTABAGAS-ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	8E2038	P 3.000000	2.000000		17.00	0.340000	
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.005000		100.00	0.005000	
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	
14015AB	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	

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 11

DATE: 02/11/93

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

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 12

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 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)
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	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-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	0.100000		10.00	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 NFS	2F2588	P 0.250000	0.250000		1.00	0.010000
15020AA	CAROB	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.050000		100.00	0.002500
15020AA	CAROB	21 COOKED-NFS	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 NFS	6H5505	P 0.100000	0.050000		1.00	0.005000
15022AA	BEANS-DRY-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)	9F2221	P 0.100000	0.050000		1.00	0.005000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.005000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.050000		1.00	0.000500
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	6H5505	P 0.100000	0.050000		100.00	0.005000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9F2221	P 0.100000	0.050000		1.00	0.005000
15028AA	PINENUTS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.050000		1.00	0.000500
15028AA	PINENUTS	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.005000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9F2221	P 0.100000	0.050000		1.00	0.005000
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-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	23 COOKED-FRESH-BOILED	2E2644	P 5.000000	5.000000		5.00	0.000500
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	3E2886	P 0.100000	0.100000		5.00	0.250000
16003AA	MUSHROOMS	31 COOKED-NFS	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
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.050000		100.00	0.100000
16004AA	ONIONS-GREEN	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.005000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.050000		100.00	0.005000
16007AA	POKE GREENS	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.005000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.005000
24001AA	BARLEY	21 COOKED-NFS	6H5505	P 0.100000	0.050000		100.00	0.005000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	3F1306	P 0.100000	0.050000		12.00	0.006000

Attachment 11 (cont.)

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ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 219AA

PAGE: 13

DATE: 02/11/93

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 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 revised 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-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
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-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	0.050000	100.00	0.006000
24003AA	OATS	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24003AA	OATS	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AA	RICE-ROUGH	21 COOKED-NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AA	RICE-ROUGH	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AB	RICE-MILLED	21 COOKED-NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.050000	100.00	0.005000
24005AA	RYE-ROUGH	31 COOKED-FRESH OR CANNED	6H5505	P	0.100000	0.050000	100.00	0.005000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.100000	0.050000	100.00	0.005000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24005UA	RYE-FLOUR	21 COOKED-NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24005UA	RYE-FLOUR	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	6H5505	P	0.750000	0.750000	5.00	0.037500
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.050000	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	0.050000	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	0.050000	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	0.050000	100.00	0.005000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	3F2947	M	0.400000	0.034000	100.00	0.034000
24007GA	WHEAT-GERM	23 COOKED-FRESH-BOILED	6H5505	P	0.100000	0.050000	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	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	3F2947	M	0.400000	0.034000	100.00	0.034000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	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	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24007HA	WHEAT-BRAN	21 COOKED-NFS	3F2947	M	0.400000	0.034000	100.00	0.034000
24007HA	WHEAT-BRAN	21 COOKED-NFS	6H5505	P	0.100000	0.050000	100.00	0.005000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	3F2947	M	0.400000	0.034000	100.00	0.034000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	6H5505	P	0.100000	0.050000	100.00	0.005000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	3F2947	M	0.400000	0.034000	100.00	0.034000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	6H5505	P	0.100000	0.050000	100.00	0.005000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

DATE: 02/11/93

PAGE: 14

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PMO1	UF -->10		
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 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		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-FLOUR	3F2947	N	0.400000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	6W5505	P	0.100000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	3F2947	N	0.400000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	6W5505	P	0.100000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	3F2947	N	0.400000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	6W5505	P	0.100000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	3F2947	N	0.400000	0.005000	100.00	0.005000
24007AA	WHEAT-FLOUR	6W5505	P	0.100000	0.005000	100.00	0.005000
24012AA	MILLET	3F2947	N	0.400000	0.005000	100.00	0.005000
24012AA	MILLET	6W5505	P	0.100000	0.005000	100.00	0.005000
25001AA	HONEY	6W5505	P	0.100000	0.005000	100.00	0.005000
25001AA	HONEY	6W5505	P	0.100000	0.005000	100.00	0.005000
25001AA	HONEY	6W5505	P	0.100000	0.005000	100.00	0.005000
25002SA	BET SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25002SA	BET SUGAR	2F2684	P	1.000000	1.000000	25.00	0.250000
25002SA	BET SUGAR	2F2684	P	1.000000	1.000000	25.00	0.250000
25002SA	BET SUGAR	2F2684	P	1.000000	1.000000	25.00	0.250000
25003SA	CANE SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SA	CANE SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SA	CANE SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SA	CANE SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SA	CANE SUGAR	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SB	SUGAR-MOLASSES	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SB	SUGAR-MOLASSES	6W5505	P	0.100000	0.005000	100.00	0.005000
25003SB	SUGAR-MOLASSES	6W5505	P	0.100000	0.005000	100.00	0.005000
25004SA	MAPLE SYRUP	6W5505	P	0.100000	0.005000	100.00	0.005000
25004SA	MAPLE SYRUP	6W5505	P	0.100000	0.005000	100.00	0.005000
26001AA	BUCKWHEAT	6W5505	P	0.100000	0.005000	100.00	0.005000
26001AA	BUCKWHEAT	6W5505	P	0.100000	0.005000	100.00	0.005000
26001AA	BUCKWHEAT	6W5505	P	0.100000	0.005000	100.00	0.005000
26001AA	BUCKWHEAT	6W5505	P	0.100000	0.005000	100.00	0.005000
26001AA	BUCKWHEAT	6W5505	P	0.100000	0.005000	100.00	0.005000
270010A	CASTOR BEANS	9F2221	P	0.100000	0.050000	1.00	0.000500
270010A	CASTOR BEANS	6W5505	P	0.100000	0.005000	100.00	0.005000
270020A	CORN, GRAIN-OIL	1W323	P	3.000000	3.000000C	12.00	0.360000
270030A	COTTONSEED-OIL	6F1786	P	0.500000	0.200000	2.00	0.004000
270030A	COTTONSEED-OIL	6F1786	P	0.500000	0.200000	2.00	0.004000
270030A	COTTONSEED-OIL	6F1786	P	0.500000	0.200000	2.00	0.004000
27004AA	FLAX SEED	6W5505	P	0.100000	0.005000	100.00	0.005000
270070A	PEANUTS-OIL	9W3226	P	1.500000	0.400000C	26.00	0.104000
270080A	SAFFLOWER-SEED	6W5505	P	0.100000	0.005000C	100.00	0.005000
270080A	SAFFLOWER-SEED	6W5505	P	0.100000	0.005000	100.00	0.005000
270090A	SESAME-OIL	6W5505	P	0.100000	0.005000	100.00	0.005000
270100A	SOYBEANS-OIL	9F2270	P	0.500000	0.300000	1.00	0.003000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 15

DATE: 02/11/93

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Chlorpyrifos	Human 20 day feeding	Decreased plasma ChE.	OPP RfD= 0.003000	10	New chronic/orco rat study has been reviewed; RfD to be reevaluated.	WHO last reviewed 1982.
Caswell #219AA	NOEL= 0.0300 mg/kg	No other systemic effects identified.	EPA RfD= 0.003000			RED complete 02/21/86.
CAS No. 2921-88-2	LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.				EPA verified 03/11/86.
A.I. CODE: 059101	ONCO: Negative- 1 species.					RED complete 03/04/88.
CFR No. 180.342						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	COCOAUT-OIL	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
270150A	COCOAUT-OIL	21 COOKED-NFS	6H5505	P	0.100000		100.00	0.005000
270150A	COCOAUT-OIL	22 COOKED-FRESH-BAKED	6H5505	P	0.100000		100.00	0.005000
270150A	COCOAUT-OIL	25 COOKED-FRESH-FRIED	6H5505	P	0.100000		100.00	0.005000
270150A	COCOAUT-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		100.00	0.005000
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	10.000000		100.00	1.000000
280810A	SPEARMINT	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		100.00	8.000000
280810A	SPEARMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)		P	1.000000		100.00	1.000000
430577A	VINEGAR	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	8.000000
430577A	VINEGAR	21 COOKED-NFS	6H5505	P	0.100000		100.00	8.000000
430580A	WINE AND SHERRY	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
430580A	WINE AND SHERRY	21 COOKED-NFS	2E2584	P	0.500000		100.00	0.005000
430590A	DIST ALCOHOL	21 COOKED-NFS	6H5505	P	0.100000		1.00	0.005000
430600A	GELATIN	10 RAW-FRESH OR NFS	6H5505	P	0.100000		100.00	0.005000
430600A	GELATIN	21 COOKED-NFS	6H5505	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	21 COOKED-NFS	0F2281	P	0.020000		100.00	0.020000
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	0F2281	P	0.020000		100.00	0.020000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 16

DATE: 02/11/93

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos	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)
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-DRIED	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
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
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	3F1306	M	2.000000	3F02884	100.00	0.050000
53001MA	BEEF-LEAN	21 COOKED-NFS	3F1306	M	2.000000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	3F1306	M	2.000000	3F02884	100.00	0.200000
53001MA	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	3F02884	100.00	0.200000
53002BA	GOAT-MEAT BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000	3F02884	100.00	0.200000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	9F2270	P	1.000000	3F02884	100.00	1.000000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	9F2270	P	1.000000	3F02884	100.00	1.000000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000	3F02884	100.00	1.000000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000	3F02884	100.00	1.000000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	9F2270	P	1.000000	3F02884	100.00	1.000000
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	9F2270	P	1.000000	3F02884	100.00	1.000000
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000	3F02884	100.00	1.000000
53004AA	RABBIT	21 COOKED-NFS	6W5505	P	0.250000	3F02884	100.00	0.250000
53004AA	RABBIT	25 COOKED-FRESH-FRIED	6W5505	P	0.050000	3F02884	100.00	0.050000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	9F2270	P	1.000000	3F02884	100.00	1.000000
53005BA	SHEEP-OTW ORGANS	21 COOKED-NFS	9F2270	P	1.000000	3F02884	100.00	1.000000
53005FA	SHEEP-FAT	21 COOKED-NFS	9F2270	P	1.000000	3F02884	100.00	1.000000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	9F2270	P	1.000000	3F02884	100.00	1.000000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	9F2270	P	1.000000	3F02884	100.00	1.000000

Attachment 11 (cont.)

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 219AA

PAGE: 17

DATE: 02/11/93

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE.		PAD1 UF -->10		New chronic/onco rat		WHO last reviewed 1982.	
Caswell #219AA		MOEL= 0.0300 mg/kg		No other systemic effects		OPP RfD= 0.003000		study has been reviewed;		MED complete 02/21/86.	
CAS No. 2921-88-2		LEL= 0.1000 mg/kg		Identified.		EPA RfD= 0.003000		RfD to be reevaluated.		EPA verified 03/11/86.	
A.I. CODE: 059101		ONCO: Negative- 1 species.		Negative for oncogenicity						MED complete 03/04/88.	
CFR No. 180.342				inadequate.						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)			
53005AA	SHEEP-LEAN	21 COOKED-NFS	9F2270	P 1.000000	1.000000		100.00	1.000000			
53005AA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	9F2270	P 1.000000	1.000000		100.00	1.000000			
53006AA	PORK-NEAT BYP	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-OTH ORGANS	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-OTH ORGANS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-FAT	10 RAW-FRESH OR NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-FAT	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-FAT	23 COOKED-FRESH-BOILED	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-FAT	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-KIDNEY	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-LIVER	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F1306	P 0.500000	0.500000		100.00	0.500000			
53006AA	PORK-LEAN	21 COOKED-NFS	3F1306	P 0.500000	0.500000		100.00	0.500000			
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	6H5505	P 0.100000	0.100000		100.00	0.100000			
53013AA	FISH-SHELL	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53013AA	FISH-SHELL	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53013AA	FISH-SHELL	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53014AA	MEAT, GAME	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53014AA	MEAT, GAME	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53015AA	FISH-ROE, CAVIAR	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53015AA	FISH-ROE, CAVIAR	51 COOKED-CANNED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53016AA	FISH, FIN-FRESH	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53016AA	FISH, FIN-FRESH	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53017AA	FISH, FIN-SALT	10 RAW-FRESH OR NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53017AA	FISH, FIN-SALT	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
53017AA	FISH, FIN-SALT	25 COOKED-FRESH-FRIED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53017DA	FISH, FIN-SLT-DRY	12 RAW-FRESH-DRIED	6H5505	P 0.100000	0.100000		100.00	0.100000			
53017DA	FISH, FIN-SLT-DRY	21 COOKED-NFS	6H5505	P 0.100000	0.100000		100.00	0.100000			
55008AA	TURKEY-BYPRODUCT	21 COOKED-NFS	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY BYPRODUCT	26 COOKED-FRESH-PICKLED, CORNED OR CURED	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY ORGAN	21 COOKED-NFS	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY W/O SKIN	31 COOKED-NFS	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			
55008AA	TURKEY+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.500000	FEEDING STUDY	100.00	0.500000			

Attachment 11 (cont.)

DATE: 02/11/93

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Chlorpyrifos		Human 20 day feeding		Decreased plasma ChE. No other systemic effects identified.		PAD1 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.	
		NOEL= 0.0300 mg/kg 0.00 ppm LEL= 0.1000 mg/kg 0.00 ppm ONCO: 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)
55009NC	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	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AA	EGGS-WHOLE	21 COOKED-NFS	6F1673	P 0.100000	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
55014AB	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-NFS	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
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	6F1673	P 0.100000	0.010000	FEEDING STUDY	100.00	0.010000
55015BA	CHICKEN-BYPROD	00 NOT SPECIFIED (NO CONSUMPTION)	6F1673	P 0.500000	0.010000	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
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	22 COOKED-FRESH-BAKED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
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	31 COOKED-FRESH OR CANNED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	6F1673	P 0.500000	0.010000	FEEDING STUDY	100.00	0.010000

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Chlorpyrifos	Caswell #219AA	Human 20 day feeding	Decreased plasma ChE.	PA01 UF -->10	New chronic/onco rat	WHO last reviewed 1982.
CAS No. 2921-88-2		NOEL= 0.0300 mg/kg	No other systemic effects identified.	OPP RfD= 0.003000	study has been reviewed;	HED complete 02/21/86.
A.I. CODE: 059101		LEL= 0.1000 mg/kg	Negative for oncogenicity in the mouse, rat study inadequate.	EPA RfD= 0.003000	RfD to be reevaluated.	EPA verified 03/11/86.
CPR No. 180.342		ONCO: Negative- 1 species.				HED complete 03/04/88.
						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**	NEW THRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	ARC	ARC	ARC	ARC
U.S. POPULATION - 48 STATES	0.010737	0.012029	400.969300	43.056567	0.001450	0.001450	48.33000	48.33000
U.S. POPULATION - SPRING SEASON	0.010454	0.011690	389.674500	41.211467	0.001396	0.001396	46.52537	46.52537
U.S. POPULATION - SUMMER SEASON	0.010364	0.011666	388.865933	43.389400	0.001422	0.001422	47.41360	47.41360
U.S. POPULATION - FALL SEASON	0.011059	0.012374	412.477033	43.837533	0.001491	0.001491	49.70280	49.70280
U.S. POPULATION - WINTER SEASON	0.010931	0.012244	408.148267	43.797133	0.001444	0.001444	48.14577	48.14577
NORTHEAST REGION	0.011695	0.013031	434.357367	44.515933	0.001486	0.001486	49.54390	49.54390
NORTH CENTRAL REGION	0.010575	0.011927	397.555500	45.043400	0.001472	0.001472	49.08153	49.08153
SOUTHERN REGION	0.009719	0.010911	363.688133	39.711367	0.001363	0.001363	45.42313	45.42313
WESTERN REGION	0.011253	0.012572	419.080133	43.982367	0.001455	0.001455	48.50693	48.50693
HISPANICS	0.012424	0.013822	460.742467	46.598600	0.001609	0.001609	53.43150	53.43150
NON-HISPANIC WHITES	0.010605	0.011936	397.858267	44.343567	0.001415	0.001415	47.17653	47.17653
NON-HISPANIC BLACKS	0.010283	0.011290	376.324867	33.550033	0.001480	0.001480	49.32763	49.32763
NON-HISPANIC OTHERS	0.012724	0.013891	463.017433	38.870000	0.001678	0.001678	55.92837	55.92837
NURSING INFANTS (< 1 YEAR OLD)	0.015014	0.015316	510.518167	10.060033	0.001352	0.001352	45.05340	45.05340
NON-NURSING INFANTS (< 1 YEAR OLD)	0.026864	0.027762	925.416000	29.946233	0.003593	0.003593	119.77620	119.77620
FEMALES (13+ YEARS, PREGNANT)	0.007832	0.008890	296.316900	35.255133	0.001047	0.001047	34.88640	34.88640
FEMALES 13+ YEARS, NURSING	0.008612	0.009791	326.372233	39.296667	0.001195	0.001195	39.82607	39.82607
CHILDREN (1-6 YEARS OLD)	0.024440	0.027106	903.545033	88.869967	0.003173	0.003173	105.75950	105.75950
CHILDREN (7-12 YEARS OLD)	0.015262	0.017317	577.246133	68.504400	0.002153	0.002153	71.75370	71.75370
MALES (13-19 YEARS OLD)	0.010147	0.011616	387.185633	48.940567	0.001502	0.001502	50.06730	50.06730
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.008811	0.009983	332.775133	39.064600	0.001224	0.001224	40.81187	40.81187
MALES (20 YEARS AND OLDER)	0.008028	0.009057	301.885433	34.299633	0.001131	0.001131	37.68900	37.68900
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.007831	0.008757	291.908633	30.858967	0.000986	0.000986	32.87127	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
CASWELL #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		