



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

JAN 15 1992

MEMORANDUM

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

SUBJECT: Dietary Exposure Analysis Using Anticipated Residue
Information for the Proposed Use of Clethodim (Select®)
in/on Soybeans, Cottonseed, and Animal Commodities
(PP#09F3743)

FROM: Stephen A. Schaible *Stephen A. Schaible*
Dietary Exposure Section
HED/SACB (H7509C)

TO: Joanne I. Miller, PM 23
Fungicide-Herbicide Branch
Registration Division (H7505C) *W. J. Bunn*

THROUGH: James P. Kariya *Kariya*
Chief, Dietary Exposure Section
Health Effects Division

Action Requested

Provide a dietary exposure analysis for the proposed use of clethodim in/on soybeans, cottonseed, and animal commodities, using anticipated residues and 100 percent crop treated. Two previous analyses on this chemical have been performed, one using tolerance level residues and 100 percent crop treated (S. Schaible, 6/26/91) and the other using anticipated residues and assuming 8% of the soybean crop is treated with clethodim (S. Schaible, 8/26/91). Clethodim is a new chemical with **no established tolerances**.

Discussion

1. Toxicological Endpoint: The DRES chronic exposure analysis used a Reference Dose (RfD) of 0.01 mg/kg body weight/day, based on a no observed effect level (NOEL) of 1.0 mg/kg bwt/day and an uncertainty factor of 100. The NOEL is based upon a 1 year feeding study in dogs which demonstrated as effects increases in absolute and relative liver weights in females and alterations in hematology and clinical chemistry of males and females. The RfD has been reviewed by the Peer Review Committee (RfD work group) (9/7/90). This RfD has not been reviewed by the HED or Agency reference dose committees.

2. Residue Information: Food uses evaluated were the proposed uses of clethodim on soybeans, cottonseed, and animal commodities (milk, eggs, and meat, fat, and meat byproducts of cattle, goats, hogs, horses, sheep, and poultry). Anticipated residue information used in this analysis was supplied by Chemistry Branch (F.D. Griffith)



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memo, 1/14/92). The residue values for soybeans and cottonseed used in the analysis were the average residue values listed in the memo (3.5 ppm and 0.21 ppm, respectively), not the values given for the maximum residue expected on these commodities. The default concentration factors in DRES for soybean oil, cottonseed oil, and cottonseed meal were replaced by concentration factors supplied by Chemistry Branch in the aforementioned memo as well (soybean oil-0.1, cottonseed oil (refined)-0.1, cottonseed meal-1.69). Default concentration factors in DRES for all other commodities were left unchanged.

Residues for milk used in the DRES analysis were taken from the national market values in the memo instead of local milk shed values. The residues given for the liver, kidney, fat, and muscle of beef cattle were also assumed for the liver, kidney, fat, and muscle of goats, hogs, horses, and sheep. In the case of the commodity "horse", where there was no distinction of liver, kidney, fat, and muscle made, the residue value of 0.0118 ppm for kidney was assumed, this being the highest value of the four beef cattle residue values given. The DRES RACs of "beef-meat byproduct" and "beef-other" (as well as the "meat byproducts" and "others" for goat, pork and sheep) were also assigned this residue value, as there were no residue values for these specific items given by Chemistry Branch. A summary of the residue information used in this analysis is attached as Table 1.

3. Exposure Analysis: This DRES routine chronic exposure analysis used anticipated residue data and 100 percent crop treated to estimate the Anticipated Residue Contribution (ARC) for the overall U.S. population and 22 population subgroups. The ARC differs from the Theoretical Maximum Residue Contribution, or TMRC, in that it is a more refined estimate of exposure. The ARC for the overall U.S. population from the proposed uses of clethodim is 0.000211 mg/kg bwt/day, which represents 2.1% of the RfD. The subgroup most highly exposed, non-nursing infants less than one year old, has an ARC of 0.001582 mg/kg bwt/day, or 15.8% of the RfD. A summary of the TMRC, ARC, and percent of the RfD occupied by each for the overall population and each of the 22 subgroups is attached as Table 2.

So far, three analyses have been performed addressing these proposed uses of clethodim, each yielding different exposure values depending on the degree of refinement in the residues, percent crop treated information, and concentration factors used. The ARCs from these three analyses for the overall U.S. population and the highest exposed subgroup are listed on the following page.

<u>ARC (mg/kg bwt/day)</u>	<u>Overall U.S. pop (%RfD)</u>	<u>Highest exposed subgroup (%RfD)</u>
-using tolerance level residues and 100% crop treated (6/26/91 memo)	0.004610 (46.1%)	0.020339 (203.4%)
-using anticipated resi- dues and 100 percent crop treated information (8/26/91 memo)	0.000022 (0.2%)*	0.000133 (1.3%)*
-using anticipated resi- dues and 100% crop treated (analysis in present memo)	0.000211 (2.1%)*	0.001582 (15.8%)*

* Chemistry supplied concentration factors were used in the analysis

As is shown in the table, by excluding the percent crop treated information used in the previous analysis (8/26/91 memo) and assuming 100 percent crop treated instead, the ARC is raised from 0.000022 mg/kg bwt/day (0.2% of the RfD) to 0.000211 mg/kg bwt/day (2.1% of the RfD) for the overall U.S. population. The ARC for the subgroup most highly exposed, non-nursing infants less than one year old, is raised from 0.000133 mg/kg bwt/day (1.3% of the RfD) to 0.001582 mg/kg bwt/day (15.8% of the RfD).

Of all the commodities which were evaluated in these analyses, soybean oil is the largest contributor of exposure, due to its high consumption rate. The concentration factor supplied by Chemistry Branch for this commodity, 0.1, applies to soybean crude oil. While the RAC "soybean-oil" in DRES most likely refers to refined soybean oil, the concentration factor for crude oil was used. This allows more accurate estimation of exposure than assuming the DRES default concentration factor of 1.0, and it probably still overestimates the concentration of clethodim in soybean oil. The DRES analysis for clethodim dated 6/26/91 used the default concentration factor for soybean oil as well as for cottonseed oil and meal (as did the TMRC calculations in the two more recent memos), and this accounts to a large degree for the much higher exposure values seen for the TMRC compared to the ARC.

The exposure values arrived at by using anticipated residue information and 100 percent crop treated reflect minimal risk from the use of this chemical on these commodities.

Attachments

cc: DES, CBTS, C. Frick, Caswell # 721F

Table 1

ANTICIPATED RESIDUE INFORMATION FOR CASHWELL NUMBER 721F

DATE: 01/15/92

PAGE: 1

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)		
Clethodim (Select) Caswell #721F CAS No. 99129-21-2 A.I. CODE: 121011 CFR No. 180.	1yr feeding- dog NOEL= 1.0000 mg/kg 0.00 ppm LEL= 75.0000 mg/kg 0.00 ppm ONCO: Negative- 2 species.	Incr absolute & relative liver wts in F; Alterations in hematology & clinical chemistry M & F. No evidence of oncogenicity in rat and mouse.	ADI UF -->100 OPP Rfd= 0.010000 EPA Rfd= 0.000000	Review of historical control data for reproduction and teratology studies is requested.	Rfd/PR reviewed 09/07/90.					
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 10.00000	3.500000		100.00	3.500000		
270030A	COTTONSEED-OIL	18 PROCESSED OIL	09F3743	N 1.000000	0.210000		100.00	0.210000		
27003WA	COTTONSEED-MEAL	18 PROCESSED OIL	09F3743	N 2.000000	0.210000		100.00	0.210000		
270100A	SOYBEANS-OIL	18 PROCESSED OIL	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AB	SOYBEANS-DRY	21 COOKED-NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	09F3743	N 10.00000	3.500000		100.00	3.500000		
28023WC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	09F3743	N 10.00000	3.500000		100.00	3.500000		
500000B	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000B	MILK-NON-FAT SOL	21 COOKED-NFS	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000B	MILK-NON-FAT SOL	51 COOKED-CANNED	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000FA	MILK-FAT SOLIDS	21 COOKED-NFS	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000SA	MILK SUG (LACT)	21 COOKED-NFS	09F3743	N 0.050000	0.002100		100.00	0.002100		
500000SA	MILK SUG (LACT)	51 COOKED-CANNED	09F3743	N 0.050000	0.002100		100.00	0.002100		
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800		
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	09F3743	N 0.200000	0.011800		100.00	0.011800		
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800		
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	09F3743	N 0.200000	0.011800		100.00	0.011800		
53001DA	BEEF-DRIED	21 COOKED-NFS	09F3743	N 0.200000	0.001300		100.00	0.001300		
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001FA	BEEF-FAT	21 COOKED-NFS	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.002800		100.00	0.002800		
53001KA	BEEF-KIDNEY	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800		
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.009700		100.00	0.009700		

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
Clethodim (Select)	1yr feeding- dog, NOEL= 1.0000 mg/kg	Incr absolute & relative liver wts in F; Altera- tions in hematology & clinical chemistry M & F.	ADI	UF	OPP RfD= 0.010000 EPA RfD= 0.000000	Review of historical con- trol data for reproduct- ion and teratology studies is requested.	RfD/PR reviewed 09/07/90.	
Caswell #721F	0.00 ppm							
CAS No. 99129-21-2	LEL= 75.0000 mg/kg	No evidence of oncogenic- ity in rat and mouse.						
A.I. CODE: 121011	0.00 ppm							
CFR No. 180.	ONCO: Negative- 2 species.							
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	09F3743	N 0.200000	0.009700		100.00	0.009700
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.001300		100.00	0.001300
53001MA	BEEF-LEAN	21 COOKED-NFS	09F3743	N 0.200000	0.001300		100.00	0.001300
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	09F3743	N 0.200000	0.001300		100.00	0.001300
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.001300		100.00	0.001300
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.001300		100.00	0.001300
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011800		100.00	0.011800
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011800		100.00	0.011800
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.002800		100.00	0.002800
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.002800		100.00	0.002800
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011800		100.00	0.011800
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.009700		100.00	0.009700
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.001300		100.00	0.001300
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.001300		100.00	0.001300
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011800		100.00	0.011800
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53005FA	SHEEP-FAT	21 COOKED-NFS	09F3743	N 0.200000	0.002800		100.00	0.002800
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.009700		100.00	0.009700
53005MA	SHEEP-LEAN	21 COOKED-NFS	09F3743	N 0.200000	0.001300		100.00	0.001300
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	09F3743	N 0.200000	0.001300		100.00	0.001300
53006BA	PORK-MEAT BYP	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	09F3743	N 0.200000	0.011800		100.00	0.011800
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.002800		100.00	0.002800
53006FA	PORK-FAT	21 COOKED-NFS	09F3743	N 0.200000	0.002800		100.00	0.002800
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.002800		100.00	0.002800
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.002800		100.00	0.002800
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	09F3743	N 0.200000	0.002800		100.00	0.002800
53006KA	PORK-KIDNEY	21 COOKED-NFS	09F3743	N 0.200000	0.011800		100.00	0.011800
53006LA	PORK-LIVER	21 COOKED-NFS	09F3743	N 0.200000	0.009700		100.00	0.009700
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.009700		100.00	0.009700
53006MA	PORK-LEAN	21 COOKED-NFS	09F3743	N 0.200000	0.001300		100.00	0.001300
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.001300		100.00	0.001300
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	09F3743	N 0.200000	0.001300		100.00	0.001300
55008BA	TURKEY-BYP	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	09F3743	N 0.200000	0.011000		100.00	0.011000
55008LA	TURKEY ORGAN	21 COOKED-NFS	09F3743	N 0.200000	0.001600		100.00	0.001600
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.001600		100.00	0.001600

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 721F

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DATE: 01/15/92

CHEMICAL		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
Clethodim (Select)	1Yr feeding- dog	Incr absolute & relative	ADI	UF	OPP RfD= 0.010000	Review of historical con- trol data for reproduct- ion and teratology studies is requested.	RfD/PR reviewed 09/07/90.	
Caswell #721F	NOEL= 1.0000 mg/kg	liver wts in F; Altera-			EPA RfD= 0.000000			
CAS No. 99129-21-2	0.00 ppm	tions in hematology &						
A.I. CODE: 121011	LEL= 75.0000 mg/kg	clinical chemistry M & F.						
CFR No. 180.	0.00 ppm	No evidence of oncogenic- ity in rat and mouse.						
ONCO: Negative- 2 species.								
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	09F3743	N 0.200000	0.011000		100.00	0.011000
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	09F3743	N 0.200000	0.011000		100.00	0.011000
55008MB	TURKEY+SKIN	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.011000		100.00	0.011000
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011000		100.00	0.011000
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.001600		100.00	0.001600
55013MA	POULTRY,OTHER	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AA	EGGS-WHOLE	21 COOKED-NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.006500		100.00	0.006500
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	09F3743	N 0.200000	0.006500		100.00	0.006500
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	09F3743	N 0.200000	0.011000		100.00	0.011000
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	09F3743	N 0.200000	0.001600		100.00	0.001600
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.001600		100.00	0.001600
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	09F3743	N 0.200000	0.001600		100.00	0.001600
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOTTLED	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MB	CHICKEN+SKIN	21 COOKED-NFS	09F3743	N 0.200000	0.011000		100.00	0.011000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	09F3743	N 0.200000	0.011000		100.00	0.011000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS			
Clethodim (Select) Caswell #721F CAS No. 99129-21-2 A.I. CODE: 121011 CFR No. 180.		1yr feeding- dog NOEL= 1.0000 mg/kg 0.00 ppm LEL= 75.0000 mg/kg 0.00 ppm ONCO: Negative- 2 species.		Incr absolute & relative liver wts in F; Altera- tions in hematology & clinical chemistry M & F. No evidence of oncogenic- ity in rat and mouse.		ADI UF -->100 OPP RfD= 0.010000 EPA RfD= 0.000000		Review of historical con- trol data for reproduct- ion and teratology studies is requested.		RfD/PR reviewed 09/07/90.			
POPULATION SUBGROUP													
TOTAL TMRC (MG/KG BODY WEIGHT/DAY)				CURRENT TMRC*		NEW TMRC**		NEW TMRC AS PERCENT OF RFD		DIFFERENCE AS PERCENT OF RFD		EFFECT OF ANTICIPATED RESIDUES ARC %RFD	
U.S. POPULATION - 48 STATES				0.000000		0.004610		46.101920		46.101920		0.000211 2.11331	
U.S. POPULATION - SPRING SEASON				0.000000		0.004553		44.526880		44.526880		0.000205 2.04710	
U.S. POPULATION - SUMMER SEASON				0.000000		0.004598		45.978160		45.978160		0.000209 2.09402	
U.S. POPULATION - FALL SEASON				0.000000		0.004751		47.513190		47.513190		0.000217 2.17426	
U.S. POPULATION - WINTER SEASON				0.000000		0.004639		46.394270		46.394270		0.000214 2.13810	
NORTHEAST REGION				0.000000		0.004306		43.057320		43.057320		0.000195 1.94667	
NORTH CENTRAL REGION				0.000000		0.004644		46.443060		46.443060		0.000211 2.10552	
SOUTHERN REGION				0.000000		0.004572		45.719670		45.719670		0.000206 2.05572	
WESTERN REGION				0.000000		0.005038		50.382000		50.382000		0.000245 2.45006	
HISPANICS				0.000000		0.005083		50.828760		50.828760		0.000231 2.30692	
NON-HISPANIC WHITES				0.000000		0.004612		46.121570		46.121570		0.000212 2.12193	
NON-HISPANIC BLACKS				0.000000		0.004371		43.712690		43.712690		0.000189 1.89206	
NON-HISPANIC OTHERS				0.000000		0.004637		46.366900		46.366900		0.000277 2.76979	
NURSING INFANTS (< 1 YEAR OLD)				0.000000		0.004973		49.732380		49.732380		0.000334 3.33906	
NON-NURSING INFANTS (< 1 YEAR OLD)				0.000000		0.020339		203.394430		203.394430		0.001582 15.81769	
FEMALES (13+ YEARS, PREGNANT)				0.000000		0.003124		31.239160		31.239160		0.000137 1.36815	
FEMALES 13+ YEARS, NURSING				0.000000		0.004000		40.003460		40.003460		0.000186 1.86056	
CHILDREN (1-6 YEARS OLD)				0.000000		0.009229		92.287570		92.287570		0.000439 4.39226	
CHILDREN (7-12 YEARS OLD)				0.000000		0.006761		67.610900		67.610900		0.000291 2.90650	
MALES (13-19 YEARS OLD)				0.000000		0.004839		48.390290		48.390290		0.000204 2.04195	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)				0.000000		0.003968		39.679530		39.679530		0.000170 1.70498	
FEMALES (20 YEARS AND OLDER)				0.000000		0.003601		36.011470		36.011470		0.000154 1.54026	
MALES (20 YEARS AND OLDER, NOT PREG. OR NURS)				0.000000		0.003168		31.681020		31.681020		0.000139 1.39433	

Commodity Contribution Table

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
		Incr absolute & relative liver wts in F; Alterations in hematology & clinical chemistry M & F.	No evidence of oncogenicity in rat and mouse.	ADI	UF -->100 OPP RfD= 0.010000 EPA RfD= 0.000000		
Clethodim (Select) Caswell #721F CAS No. 99129-21-2 A.I. CODE: 121011 CFR No. 180.	1yr feeding- dog NOEL= 1.0000 mg/kg 0.00 ppm LEL= 75.0000 mg/kg 0.00 ppm ONCO: Negative- 2 species.					Review of historical control data for reproduction and teratology studies is requested.	RfD/PR reviewed 09/07/90.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)		%RFD		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD
270030A	COTTONSEED-OIL	1.000	N	0.020408		0.204		0.21000	0.000429			0.004
270034A	18 PROCESSED OIL											
270034A	COTTONSEED-MEAL	2.000	N	0.000236		0.002		0.21000	0.000042			0.000
	18 PROCESSED OIL											
CROP GROUP TOTALS FOR UNSPECIFIED:												
15029AA	SOYBEANS-SPROUTED SEEDS	10.000	N	0.000003		0.000		3.50000	0.000007			0.000
	00 NOT SPECIFIED (NO CONSUMPTION)											
270100A	SOYBEANS-OIL	10.000	N	3.221553		32.216		3.50000	0.112754			1.128
28023AA	18 PROCESSED OIL											
28023AA	SOYBEANS-UNSPECIFIED	10.000	N	0.005217		0.052		3.50000	0.001826			0.018
	21 COOKED-NFS											
28023AB	SOYBEANS-MATURE, SEEDS DRY	10.000	N	0.008997		0.090		3.50000	0.000994			0.010
	10 RAW-FRESH OR NFS							3.50000	0.000470			0.005
	21 COOKED-NFS							3.50000	0.000415			0.004
	23 COOKED-FRESH-BOILED							3.50000	0.000878			0.009
	25 COOKED-FRESH-FRIED							3.50000	0.000392			0.004
	31 COOKED-FRESH OR CANNED											
280234A	SOYBEANS-FLOUR, FULL FAT	10.000	N	0.029214		0.292		3.50000	0.003172			0.032
	21 COOKED-NFS							3.50000	0.004972			0.050
	22 COOKED-FRESH-BAKED							3.50000	0.002080			0.021
280234B	31 COOKED-FRESH OR CANNED											
280234B	SOYBEANS-FLOUR, LOW FAT	10.000	N	0.009523		0.095		3.50000	0.003333			0.033
	21 COOKED-NFS											
280234C	SOYBEANS-FLOUR, DEFATTED	10.000	N	0.124592		1.246		3.50000	0.002209			0.022
	10 RAW-FRESH OR NFS							3.50000	0.002863			0.029
	21 COOKED-NFS							3.50000	0.018308			0.183
	22 COOKED-FRESH-BAKED							3.50000	0.010985			0.110
	51 COOKED-CANNED							3.50000	0.009243			0.092
	53 COOKED-CANNED-BOILED											
CROP GROUP TOTALS FOR LEGUME VEGETABLES:												
		3.399099		33.991				0.174895				1.749

530018A	BEEF-MEAT BYPRODUCTS	0.200	N	0.003532		0.035		0.01180	0.000193			0.002
	21 COOKED-NFS							0.01180	0.000015			0.000
530018B	26 COOKED-FRESH-PICKLED, CORNED, OR CURED											
530018B	BEEF(ORGAN MEATS)-OTHER	0.200	N	0.001207		0.012		0.01180	0.000061			0.001
	21 COOKED-NFS							0.01180	0.000010			0.000
53001DA	51 COOKED-CANNED											
53001DA	BEEF-ORIED	0.200	N	0.000507		0.005		0.00130	0.000003			0.000
	21 COOKED-NFS											

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Clethodim (Select) Caswell #721F CAS No. 99129-21-2 A.I. CODE: 121011 CFR No. 180.		1yr feeding- dog		Incr absolute & relative		ADI		Review of historical con-		RfD/PR reviewed 09/07/90.	
		NOEL= 1.0000 mg/kg		liver wts in F; Altera-		OPR RfD= 0.010000		tion data for reproduct-			
		LEL= 75.0000 mg/kg		tions in hematology &		EPA RfD= 0.000000		ion and teratology			
		ONCO: Negative- 2 species.		clinical chemistry M & F.				studies is requested.			

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)		%RFD		ANTICIPATED RESIDUE (PPM)		%RFD	
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.200	N	0.074415		0.744		0.00280	0.000004	0.000	
	10 RAW-FRESH OR NFS							0.00280	0.000415	0.004	
	21 COOKED-NFS							0.00280	0.000070	0.001	
	22 COOKED-FRESH-BAKED							0.00280	0.000093	0.001	
	23 COOKED-FRESH-BOILED							0.00280	0.000399	0.004	
	24 COOKED-FRESH-BROILED							0.00280	0.000061	0.001	
	25 COOKED-FRESH-FRIED										
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.200	N	0.000096		0.001		0.01180	0.000006	0.000	
	21 COOKED-NFS										
53001LA	BEEF(ORGAN MEATS)-LIVER	0.200	N	0.004140		0.041		0.00970	0.000198	0.002	
	25 COOKED-FRESH-FRIED							0.00970	0.000003	0.000	
	31 COOKED-FRESH OR CANNED										
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.200	N	0.232398		2.324		0.00130	0.000000	0.000	
	10 RAW-FRESH OR NFS							0.00130	0.000900	0.009	
	21 COOKED-NFS							0.00130	0.000062	0.001	
	22 COOKED-FRESH-BAKED							0.00130	0.000096	0.001	
	23 COOKED-FRESH-BOILED							0.00130	0.000453	0.005	
	24 COOKED-FRESH-BROILED										
53002BA	GOAT-MEAT BYPRODUCTS	0.200	N	0.000000		0.000		0.01180	0.000000	0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)										
53002BB	GOAT(ORGAN MEATS)-OTHER	0.200	N	0.000000		0.000		0.01180	0.000000	0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)										
53002FA	GOAT(BONELESS)-FAT	0.200	N	0.000008		0.000		0.00280	0.000000	0.000	
	23 COOKED-FRESH-BOILED							0.00280	0.000000	0.000	
	25 COOKED-FRESH-FRIED										
53002KA	GOAT(ORGAN MEATS)-KIDNEY	0.200	N	0.000000		0.000		0.01180	0.000000	0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)										
53002LA	GOAT(ORGAN MEATS)-LIVER	0.200	N	0.000000		0.000		0.00970	0.000000	0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)										
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.200	N	0.000038		0.000		0.00130	0.000000	0.000	
	23 COOKED-FRESH-BOILED							0.00130	0.000000	0.000	
	25 COOKED-FRESH-FRIED										
53003AA	HORSE	0.200	N	0.000000		0.000		0.01180	0.000000	0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)										
53005BA	SHEEP-MEAT BYPRODUCTS	0.200	N	0.000010		0.000		0.01180	0.000001	0.000	
	21 COOKED-NFS										
53005BB	SHEEP(ORGAN MEATS)-OTHER	0.200	N	0.000004		0.000		0.01180	0.000000	0.000	
	21 COOKED-NFS										
53005FA	SHEEP(BONELESS)-FAT	0.200	N	0.000859		0.009		0.00280	0.000012	0.000	
	21 COOKED-NFS										
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	0.200	N	0.000002		0.000		0.01180	0.000000	0.000	
	21 COOKED-NFS										

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Clethodim (Select)		1yr feeding- dog	Incr absolute & relative liver wts in F; Altera-	ADI UF -->100	Review of historical con-	Rfd/PR reviewed 09/07/90.
Caswell #721F		NOEL= 1.0000 mg/kg	tions in F; Altera-	OPP Rfd= 0.010000	trol data for reproduct-	
CAS No. 99129-21-2		0.00 ppm	clinical chemistry M & F.	EPA Rfd= 0.000000	ion and teratology	
A.I. CODE: 121011		LEL= 75.0000 mg/kg	No evidence of oncogenic-		studies is requested.	
CFR No. 180.		0.00 ppm	ity in rat and mouse.			
		ONCO: Negative- 2 species.				

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)		%RFD
							ARC (UG/KG/DAY)	
53005LA	SHEEP(ORGAN MEATS)-LIVER	0.200	N	0.000000	0.000	0.00970	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT	0.200	N	0.002497	0.025	0.00130	0.000015	0.000
	21 COOKED-NFS					0.00130	0.000001	0.000
53006BA	PORK-MEAT BYPRODUCTS	0.200	N	0.005016	0.050	0.01180	0.000296	0.003
	31 COOKED-FRESH OR CANNED							
53006BB	PORK(ORGAN MEATS)-OTHER	0.200	N	0.000770	0.008	0.01180	0.000042	0.000
	21 COOKED-NFS					0.01180	0.000003	0.000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.200	N	0.041640	0.416	0.00280	0.000005	0.000
	10 RAW-FRESH OR NFS					0.00280	0.000272	0.003
	21 COOKED-NFS					0.00280	0.000064	0.001
	23 COOKED-FRESH-BOILED					0.00280	0.000068	0.001
	25 COOKED-FRESH-FRIED					0.00280	0.000173	0.002
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.00280	0.000000	0.000
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.200	N	0.000002	0.000	0.01180	0.000000	0.000
	21 COOKED-NFS							
53006LA	PORK(ORGAN MEATS)-LIVER	0.200	N	0.000964	0.010	0.00970	0.000042	0.000
	21 COOKED-NFS					0.00970	0.000005	0.000
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.200	N	0.078249	0.782	0.00130	0.000236	0.002
	21 COOKED-NFS					0.00130	0.000062	0.001
	25 COOKED-FRESH-FRIED					0.00130	0.000211	0.002
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							
CROP GROUP TOTALS FOR RED MEAT:					4.464	0.004550		0.046
55008BA	TURKEY-BYPRODUCTS	0.200	N	0.000047	0.000	0.01100	0.000000	0.000
	21 COOKED-NFS					0.01100	0.000002	0.000
55008LA	TURKEY-GIBLETS (LIVER)	0.200	N	0.000011	0.000	0.00160	0.000000	0.000
	21 COOKED-NFS					0.00160	0.000000	0.000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.200	N	0.001595	0.016	0.01100	0.000054	0.001
	21 COOKED-NFS					0.01100	0.000022	0.000
	31 COOKED-FRESH OR CANNED					0.01100	0.000012	0.000
	62 COOKED-FRESH OR FROZEN-BAKED							
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	0.200	N	0.009633	0.096	0.01100	0.000499	0.005
	21 COOKED-NFS					0.01100	0.000031	0.000
	25 COOKED-FRESH-FRIED							

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Clethodim (Select)	1yr feeding- dog	Incr absolute & relative	AD1	UF	AD1	UF	AD1	UF	AD1	UF	AD1
Caswell #721F	NOEL= 1.0000 mg/kg	liver wts in F; Altera-	OPP RfD= 0.010000		OPP RfD= 0.010000		OPP RfD= 0.010000		OPP RfD= 0.010000		OPP RfD= 0.010000
CAS No. 99129-21-2	0.00 ppm	tions in hematology &	EPA RfD= 0.000000		EPA RfD= 0.000000		EPA RfD= 0.000000		EPA RfD= 0.000000		EPA RfD= 0.000000
A.I. CODE: 121011	LEL= 75.0000 mg/kg	clinical chemistry M & F.									
CFR No. 180.	0.00 ppm	No evidence of oncogenic-									
	ONCO: Negative- 2 species.	ity in rat and mouse.									

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE (UG/KG/DAY)		%RFD		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD	
55008MC	TURKEY-UNSPECIFIED	0.200	N	0.000019		0.000		0.01100		0.000001		0.000	
	21 COOKED-NFS												
550138A	POULTRY, OTHER-BYPRODUCTS	0.200	N	0.000000		0.000		0.01100		0.000000		0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)												
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	0.200	N	0.000046		0.000		0.00160		0.000000		0.000	
	25 COOKED-FRESH-FRIED												
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	0.200	N	0.001078		0.011		0.01100		0.000059		0.001	
	21 COOKED-NFS												
550158A	CHICKEN-BYPRODUCTS	0.200	N	0.000000		0.000		0.01100		0.000000		0.000	
	00 NOT SPECIFIED (NO CONSUMPTION)												
55015LA	CHICKEN-GIBLETS(LIVER)	0.200	N	0.001013		0.010		0.00160		0.000007		0.000	
	21 COOKED-NFS												
	25 COOKED-FRESH-FRIED												
55015WA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	0.200	N	0.012027		0.120		0.00160		0.000001		0.000	
	21 COOKED-NFS												
	22 COOKED-FRESH-BAKED												
	25 COOKED-FRESH-FRIED												
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	0.200	N	0.075864		0.759		0.01100		0.002271		0.023	
	21 COOKED-NFS												
	25 COOKED-FRESH-FRIED												
CROP GROUP TOTALS FOR POULTRY:				0.101333		1.013		0.01100		0.005521		0.055	
50000DB	MILK-NON-FAT SOLIDS	0.050	N	0.355643		3.556		0.00210		0.011979		0.120	
	10 RAW-FRESH OR NFS												
	21 COOKED-NFS												
50000FA	MILK-FAT SOLIDS	0.050	N	0.169181		1.692		0.00210		0.002427		0.024	
	10 RAW-FRESH OR NFS												
	21 COOKED-NFS												
50000SA	MILK SUGAR (LACTOSE)	0.050	N	0.001871		0.019		0.00210		0.000530		0.005	
	21 COOKED-NFS												
	25 COOKED-FRESH-BAKED												
55014AA	EGGS-WHOLE	0.200	N	0.112900		1.129		0.00210		0.005594		0.056	
	10 RAW-FRESH OR NFS												
	21 COOKED-NFS												
	22 COOKED-FRESH-BAKED												
	25 COOKED-FRESH-FRIED												

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS	
Clethodim (Select)		1yr feeding- dog	Incr absolute & relative	ADI	UF	Review of historical control data for reproduction and teratology studies is requested.	RfD/PR reviewed 09/07/90.
Caswell #721F		NOEL= 1.0000 mg/kg	Liver wts in F; Alterations in hematology & clinical chemistry M & F.	OPP RfD= 0.010000	EPA RfD= 0.000000		
CAS No. 99129-21-2		0.00 ppm					
A.I. CODE: 121011		LEL= 75.0000 mg/kg					
CFR No. 180.		0.00 ppm	No evidence of oncogenicity in rat and mouse.				
		ONCO: Negative- 2 species.					

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
55014AB	23 COOKED-FRESH-BOILED				0.00650	0.000160	0.002
	25 COOKED-FRESH-FRIED				0.00650	0.001063	0.011
	EGGS-WHITE ONLY	0.200	N	0.018			
	10 RAW-FRESH OR NFS				0.00650	0.000001	0.000
	21 COOKED-NFS				0.00650	0.000005	0.000
	22 COOKED-FRESH-BAKED				0.00650	0.000042	0.000
	62 COOKED-FRESH OR FROZEN-BAKED				0.00650	0.000004	0.000
	81 COOKED-FROZEN				0.00650	0.000009	0.000
55014AC	EGGS-YOLK ONLY	0.200	N	0.013			
	10 RAW-FRESH OR NFS				0.00650	0.000005	0.000
	21 COOKED-NFS				0.00650	0.000013	0.000
	25 COOKED-FRESH-FRIED				0.00650	0.000016	0.000
	31 COOKED-FRESH OR CANNED				0.00650	0.000009	0.000
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				6.428	0.025894		0.259

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

0.211331 2.113

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

365
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