

US EPA ARCHIVE DOCUMENT



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

PMSD

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JUN 3 1987

EXPEDITE

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: TAS Analysis of Tolerance Requests for Banner/Tilt
Using Anticipated Residues.
PP #4F3074, 4F3007, and 4E3026.

TO: Lois Rossi (21)
Registration Division (TS-767)

FROM: D. Stephen Saunders, Ph.D. DSS 6/3/87
Program Manager, Tolerance Assessment Program
RCB/HED (TS-769C)

THRU: Charles L. Trichilo, Ph.D.
Chief, Residue Chemistry Branch
Hazard Evaluation Division (TS-769C)

Action Requested

Provide an analysis of the dietary impact of the requested tolerances for small grains, pecans, meat, milk and eggs, and bananas using anticipated residues rather than tolerances to calculate oncogenic risk.

Discussion

1. The Reference Dose (ADI, RFD) used in the analysis was 0.02 mg/kg/day, based on a NOEL of 1.9 mg/kg/day obtained in a 1 year feeding study in dogs, with an Uncertainty Factor of 100. This value has been verified by the Toxicology Branch ADI Committee.

In addition, this compound has been identified as an oncogen in mice, and has been classified as a Category C oncogen by the Toxicology Branch Peer Review Committee. The upper bound potency estimate (Q*) obtained in this study was 7.87×10^{-2} (personal communication, R. Levy).

2. The tolerances evaluated in this analysis have been evaluated in RCB (memo S. Malak to L. Rossi, 5-14-87). The residue values used in the analysis were those identified in the RCB memo of 5-14-87 as appropriate for these uses, rather than the values proposed by the Registrant.

2. (con't) In addition, anticipated residues (ARs) were used to calculate dietary exposure and risk. These ARs were derived from field residue data, processing data (wheat) and percent of crop treated. A listing of these residues is appended in Table 1. The attached memorandum from Dr. Karl Arne of RCB describes the method and rationale by which the values were calculated.

3. Evaluation of proposed uses relative to the ADI: If all pending uses are approved, the TMRC (based on tolerances only) for the U.S. population average will be 0.0011 mg/kg/day, equivalent to 5.3% of the ADI. Among the subgroups considered susceptible to a chronic toxicity effect, the highest calculated exposure was for children 1-6 years old (0.0027 mg/kg/day, equivalent to 13.5% of the ADI).

Incorporation of ARs results in an Anticipated Residue Contribution (ARC) of 0.00017 mg/kg/day for the U.S. Population average (equivalent to 0.8% of the ADI). The corresponding value for children 1-6 years old is 0.00044 mg/kg/day, equivalent to 2.2% of the ADI.

4. Calculation of oncogenic risk: Risk was calculated only for the U.S. Population average, in accordance with current HED policy. This value was calculated by the relationship:

$$\text{Risk} = \text{Exposure} \times Q^*$$

For all pending tolerances, the risk (calculated on the basis of the TMRC) was:

$$0.0011 \times (7.87 \times 10^{-2}) = \underline{8.7 \times 10^{-5}}$$

The breakdown by commodity group is as follows:

Small grains:	$0.00016 \times (7.87 \times 10^{-2}) = \underline{1.3 \times 10^{-5}}$
Meat, milk, eggs:	$0.00086 \times (7.87 \times 10^{-2}) = \underline{6.8 \times 10^{-5}}$
Pecans:	$(5 \times 10^{-7}) \times (7.87 \times 10^{-2}) = \underline{3.9 \times 10^{-8}}$
Bananas:	$0.000046 \times (7.87 \times 10^{-2}) = \underline{3.6 \times 10^{-6}}$

Calculation of risk based on anticipated residues rather than tolerances results in the following estimates of risk:

All uses: $0.00017 \times (7.87 \times 10^{-2}) = \underline{1.3 \times 10^{-5}}$.

Small grains: $0.00001 \times (7.87 \times 10^{-2}) = \underline{9.0 \times 10^{-7}}$.

Meat, milk, eggs: $0.00014 \times (7.87 \times 10^{-2}) = \underline{1.1 \times 10^{-5}}$.

Pecans: $(5 \times 10^{-7}) \times (7.87 \times 10^{-2}) = \underline{3.9 \times 10^{-8}}$.

Bananas: $0.00001 \times (7.87 \times 10^{-2}) = \underline{9.0 \times 10^{-7}}$.

ATTACHMENT

cc: TAS file
Reading file
C. Frick
Banner/Tilt SF
Toxicology Branch
circ.
PMSD

LISTING OF TOLERANCES AND ANTICIPATED RESIDUES
INCLUDING PERCENT OF CROP TREATED DATA

FOOD CODE	FOOD NAME	PET. #	TOLERANCE (ppm)	ANTICIPATED AR RESIDUE (ppm)	TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
** CROP GROUP R							
03008AA	PECANS	4F3007	0.1000	0.0000	NONE	100.00	0.1000
** CROP GROUP A							
06002AA	BANANAS-UNSPECIFIED	4E3026	0.2000	0.0500	MEAN	100.00	0.0500
06002AB	BANANAS-FRESH	4E3026	0.2000	0.0500	MEAN	100.00	0.0500
06002DA	BANANAS-DRIED	4E3026	0.2000	0.0500	MEAN	100.00	0.0500
** CRBP GROUP O							
24001AA	BARLEY	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24004AA	RICE-ROUGH	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24004AB	RICE-MILLED	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24005AA	RYE-ROUGH	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24005GA	RYE-GERM	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24005MA	RYE-FLOUR	4F3074	0.1000	0.0500	SOM	100.00	0.0500
24007AA	WHEAT-ROUGH	4F3074	0.1000	0.0500	SOM	2.00	0.0010
24007GA	WHEAT-GERM	4F3074	0.1000	0.0500	SOM	2.00	0.0010
24007HA	WHEAT-BRAN	4F3074	0.1000	0.0500	SOM	2.00	0.0010
24007MA	WHEAT-FLOUR	4F3074	0.1000	0.0100	PROCESSING	2.00	0.0002
** CROP GROUP X							
50000DB	MILK-NON-FAT SOLIDS	4F3074	0.0500	0.0100	EXTRAPOLATED	100.00	0.0100
50000FA	MILK-FAT SOLIDS	4F3074	0.0500	0.0100	EXTRAPOLATED	100.00	0.0100
50000SA	MILK SUGAR (LACTOSE)	4F3074	0.0500	0.0100	EXTRAPOLATED	100.00	0.0100
** CROP GROUP U							
53001BA	BEEF-MEAT BYPRODUCTS	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
53001BB	BEEF(ORGAN MEATS)-OTHER	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100

TABLE 1 (CONT.)

LISTING OF TOLERANCES AND ANTICIPATED RESIDUES
INCLUDING PERCENT OF CROP TREATED DATA

FOOD CODE	FOOD NAME	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm) TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001DA	BEEF-DRIED	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53001KA	BEEF(ORGAN MEATS)-KIDNEY	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53001LA	BEEF(ORGAN MEATS)-LIVER	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53002BA	GOAT-MEAT BYPRODUCTS	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53002BB	GOAT(ORGAN MEATS)-OTHER	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53002FA	GOAT(BONELESS)-FAT	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53002KA	GOAT(ORGAN MEATS)-KIDNEY	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53002LA	GOAT(ORGAN MEATS)-LIVER	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53003AA	HORSE	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53005BA	SHEEP-MEAT BYPRODUCTS	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53005BB	SHEEP(ORGAN MEATS)-OTHER	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53005FA	SHEEP(BONELESS)-FAT	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53005LA	SHEEP(ORGAN MEATS)-LIVER	4F3074	0.2000	0.0000 NONE	100.00	0.2000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53006BA	PORK-MEAT BYPRODUCTS	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53006BB	PORK(ORGAN MEATS)-OTHER	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	4F3074	0.1000	0.0100 EXTRAPOLATED	100.00	0.0100

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TABLE 1 (CON'T.)

LISTING OF TOLERANCES AND ANTICIPATED RESIDUES
INCLUDING PERCENT OF CROP TREATED DATA

FOOD CODE	FOOD NAME	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006KA	PORK(ORGAN MEATS)-KIDNEY	4F3074	0.2000	0.0000	NONE	100.00	0.2000
53006LA	PORK(ORGAN MEATS)-LIVER	4F3074	0.2000	0.0000	NONE	100.00	0.2000
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
** CROP GROUP V							
55008BA	TURKEY-BYPRODUCTS	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55008LA	TURKEY-GIBLETS (LIVER)	4F3074	0.2000	0.0100	EXTRAPOLATED	100.00	0.0100
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55008MC	TURKEY-UNSPECIFIED	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55013BA	POULTRY, OTHER-BYPRODUCTS	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	4F3074	0.2000	0.0100	EXTRAPOLATED	100.00	0.0100
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
** CROP GROUP X							
55014AA	EGGS-WHOLE	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55014AB	EGGS-WHITE ONLY	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55014AC	EGGS-YOLK ONLY	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
** CROP GROUP V							
55015BA	CHICKEN-BYPRODUCTS	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55015LA	CHICKEN-GIBLETS(LIVER)	4F3074	0.2000	0.0100	EXTRAPOLATED	100.00	0.0100
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	4F3074	0.1000	0.0100	EXTRAPOLATED	100.00	0.0100

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ROUTINE CHRONIC ANALYSIS INCLUDING AR'S

ALL STATISTICS BASED ON INDIVIDUALS' 3-DAY AVERAGE CONSUMPTION

18:04 MONDAY, JUNE 1, 1987 1

 *NAME: TILT
 *CASSELL NO: 323EE CFR NO: CFR
 *CAS NO: 60207-90-1 SHAUGHNESSY NO: 122101 B 00000.0060 000240.000 002000 Subchronic
 *STATUS CODES:
 *RDV INFO: The ADI value used in this analysis is 00000.0200 MG/KG of BODY WEIGHT/DAY (Study A - Provisional)
 *FILE INFO: Published & New Action Tolerance Data Are Used--Without User Modifications.
 AR DATA: No User Modifications

 SUMMARY BY POPULATION SUBGROUP

	TOTAL RESIDUE ADJUSTED FOR BODY WEIGHT				EFFECT OF ANTICIPATED RESIDUE(AR)			
	(MG/KG BODY WEIGHT/DAY)	TMRC	ARC	TMRC	ARC	DIFFERENCE	DIFFERENCE	
	(EXCLUDES AR'S)	(INCLUDES AR'S)	AS PERCENT OF RDV	AS PERCENT OF RDV	AS PERCENT OF TMRC	AS PERCENT OF RDV	AS PERCENT OF RDV	
U.S. POP. --48 STATES--ALL SEASONS	0.001071	0.000167	5.355	0.834	-84.426	-4.521		
U.S. POPULATION--SPRING SEASON	0.001026	0.000158	5.128	0.789	-84.616	-4.339		
U.S. POPULATION--SUMMER SEASON	0.001062	0.000166	5.312	0.830	-84.367	-4.482		
U.S. POPULATION--FALL SEASON	0.001106	0.000173	5.530	0.867	-84.332	-4.664		
U.S. POPULATION--WINTER SEASON	0.001090	0.000170	5.452	0.850	-84.401	-4.602		
NORTHEAST REGION	0.001103	0.000174	5.517	0.870	-84.238	-4.647		
NORTH CENTRAL REGION	0.001086	0.000167	5.432	0.835	-84.635	-4.597		
SOUTHERN REGION	0.000988	0.000150	4.938	0.752	-84.764	-4.186		
WESTERN REGION	0.001150	0.000185	5.750	0.927	-83.876	-4.823		
HISPANICS	0.001353	0.000226	6.764	1.131	-83.279	-5.633		
NON-HISPANIC WHITES	0.001057	0.000163	5.285	0.815	-84.582	-4.470		
NON-HISPANIC BLACKS	0.001008	0.000158	5.039	0.788	-84.356	-4.251		
NON HISPANICS OTHER THAN BLACKS & WHITES	0.001259	0.000219	6.295	1.093	-82.632	-5.202		
NURSING INFANTS (<1 YEAR OLD)	0.001186	0.000241	5.929	1.206	-79.668	-4.724		
NON-NURSING INFANTS (<1 YEAR OLD)	0.004116	0.000827	20.582	4.136	-79.905	-16.446		
FEMALES(13+, PREGNANT, NOT NURSING)	0.000750	0.000113	3.750	0.564	-84.965	-3.186		
FEMALES(13+, NURSING)	0.000919	0.000141	4.593	0.704	-84.665	-3.889		
CHILDREN(1-6 YRS)	0.002688	0.000436	13.442	2.178	-83.795	-11.264		
CHILDREN(7-12 YRS)	0.001706	0.000265	8.529	1.327	-84.442	-7.202		
MALES(13-19 YRS)	0.001151	0.000173	5.756	0.864	-84.996	-4.892		
FEMALES(13-19 YRS, NOT PREG. OR NURSING)	0.000891	0.000133	4.455	0.665	-85.075	-3.790		
MALES(20+ YRS)	0.000755	0.000113	3.777	0.566	-85.013	-3.211		
FEMALES(20+ YRS, NOT PREG. OR NURSING)	0.000657	0.000094	3.183	0.472	-85.177	-2.711		

 *NAME: PROPIONAZOLE (TILT) CASWELL NO: 323EE CAS NO: 60207-90-1 SHAUGHNESSY NO: 122101
 *RFD INFO: The ADI value used in this analysis is 0.0200 MG/KG of BODY WEIGHT/DAY (Study A)
 *FILE INFO: Published & New Action Tolerance Data Are Used--Without User Modifications.

 LIST OF RELEVANT FOODS AND FOOD FORMS FOR U.S. POP.--48 STATES--ALL SEASONS

 AR DATA: No User Modifications*

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	TOLERANCE	SORC PPM TYPE	AR PPM REF.	RESIDUE CONTRIBUTION AS % OF RDV	ANTICIPATED RESIDUE EFFECT AS % OF RDV		
060022A	BANANAS--UNSPECIFIED	: N	0.2000	0.0500 F :	0.003	0.001 :	-0.046	-0.002
060022B	BANANAS--FRESH	: N	0.2000	0.0500 F :	0.224	0.056 :	-3.138	-0.168
060022A	BANANAS--DRIED	: N	0.2000	0.0500 F :	0.002	0.000 :	-0.025	-0.001

***GROUP TOTALS--GROUP UNSPECIFIED

24001AA	BARLEY	: N	0.1000	0.0500 F :	0.029	0.014 :	-0.267	-0.014
24004AA	RICE--ROUGH	: N	0.1000	0.0500 F :	0.002	0.001 :	-0.014	-0.001
24004AB	RICE--MILLED	: N	0.1000	0.0500 F :	0.078	0.039 :	-0.725	-0.039
24005AA	RYE--ROUGH	: N	0.1000	0.0500 F :	0.000	0.000 :	-0.000	-0.000
24005GA	RYE--GERM	: N	0.1000	0.0500 F :	0.000	0.000 :	-0.001	-0.000
24005MA	RYE--FLOUR	: N	0.1000	0.0500 F :	0.002	0.001 :	-0.019	-0.001
24007AA	WHEAT--ROUGH	: N	0.1000	0.0010 F :	0.070	0.001 :	-1.300	-0.070
24007GA	WHEAT--GERM	: N	0.1000	0.0010 F :	0.000	0.000 :	-0.007	-0.000
24007HA	WHEAT--BRAN	: N	0.1000	0.0010 F :	0.006	0.000 :	-0.112	-0.006
24007MA	WHEAT--FLOUR	: N	0.1000	0.0002 F :	0.629	0.001 :	-11.715	-0.627

***GROUP TOTALS--CEREAL GRAINS

03008AA	PECANS	: N	0.1000	:	0.002	0.002 :	0.000	0.000
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***GROUP TOTALS--TREE NUTS

53001BA	BEEF--MEAT BYPRODUCTS	: N	0.1000	0.0100 F :	0.009	0.001 :	-0.148	-0.008
53001BB	BEEF(ORGAN MEATS)--OTHER	: N	0.1000	0.0100 F :	0.003	0.000 :	-0.051	-0.003
53001DA	BEEF--DRIED	: N	0.1000	0.0100 F :	0.001	0.000 :	-0.021	-0.001
53001FA	BEEF(BONELESS)--FAT (BEEF TALLOW)	: N	0.1000	0.0100 F :	0.186	0.019 :	-3.126	-0.167
53001KA	BEEF(ORGAN MEATS)--KIDNEY	: N	0.2000	:	0.000	0.000 :	0.000	0.000
53001LA	BEEF(ORGAN MEATS)--LIVER	: N	0.2000	:	0.021	0.021 :	0.000	0.000
53001MA	BEEF(BONELESS)--LEAN (W/O REMOVEABLE FAT)	: N	0.1000	0.0100 F :	0.581	0.058 :	-9.764	-0.523
53002BA	GOAT--MEAT BYPRODUCTS	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.000	-0.000
53002BB	GOAT(ORGAN MEATS)--OTHER	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.000	-0.000
53002FA	GOAT(BONELESS)--FAT	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.000	-0.000
53002KA	GOAT(ORGAN MEATS)--OTHER	: N	0.2000	:	0.000	0.000 :	0.000	0.000
53002LA	GOAT(ORGAN MEATS)--KIDNEY	: N	0.2000	:	0.000	0.000 :	0.000	0.000
53002MA	GOAT(ORGAN MEATS)--LIVER	: N	0.2000	:	0.000	0.000 :	0.000	0.000
53002LA	GOAT(BONELESS)--LEAN (W/O REMOVEABLE FAT)	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.002	-0.000
53003AA	HORSE	: N	0.1000	0.0100 F :	0.000	0.000 :	0.000	0.000
53005BA	SHEEP--MEAT BYPRODUCTS	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.000	-0.000
53005BB	SHEEP(ORGAN MEATS)--OTHER	: N	0.1000	0.0100 F :	0.000	0.000 :	-0.000	-0.000

ROUTINE CHRONIC ANALYSIS INCLUDING AR IS

 *NAME: PROPIONAZOLE (TILT) CASHELL NO: 323EE CAS NO: 60207-90-1 SHAUGHNESSY NO: 122101
 *RD INFO: The AdI value used in this analysis is 0.0200 MG/KG of BODY WEIGHT/DAY (Study A)
 *FILE INFO: Published & New Action Tolerance Data Are Used - Without User Modifications.

 LIST OF RELEVANT FOODS AND FOOD FORMS FOR
 U.S. POP.--48 STATES--ALL SEASONS

18:04 MONDAY, JUNE 1, 1987

 * AR DATA: No User Modifications *

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	SORC	TOLERANCE PPM TYPE	AR PPM REF.	AS % OF RDV	TOLERANCE	AR	AS % OF SUBPROP.	TMRG	AS % OF RDV	ANTICIPATED RESIDUE EFFECT
53005FA	SHEEP(BONELESS)-FAT	N	0.1000	0.0100 F	0.002	0.000	0.000	-0.036	-0.002	0.000	
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	N	0.2000	0.0100 F	0.000	0.000	0.000	0.000	0.000	0.000	
53005LA	SHEEP(ORGAN MEATS)-LIVER	N	0.2000	0.0100 F	0.000	0.000	0.000	0.000	0.000	0.000	
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	N	0.1000	0.0100 F	0.006	0.001	0.001	-0.105	-0.006	-0.006	
53006BA	PORK-MEAT BYPRODUCTS	N	0.1000	0.0100 F	0.013	0.001	0.001	-0.211	-0.011	-0.011	
53006BB	PORK(ORGAN MEATS)-OTHER	N	0.1000	0.0100 F	0.002	0.000	0.000	-0.032	-0.002	-0.002	
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	N	0.1000	0.0100 F	0.104	0.010	0.010	-1.749	-0.094	-0.094	
53006KA	PORK(ORGAN MEATS)-LIVER	N	0.2000	0.0100 F	0.000	0.000	0.000	0.000	0.000	0.000	
53006LA	PORK(ORGAN MEATS)-LEAN (W/O REMOVEABLE FAT)	N	0.1000	0.0100 F	0.196	0.005	0.005	-3.288	-0.000	-0.000	

***GROUP TOTALS--RED MEAT

55008BA	TURKEY-BYPRODUCTS	N	0.1000	0.0100 F	0.000	0.000	0.000	-0.002	-0.000	-0.000	
55008LA	TURKEY-GIBLETS (LIVER)	N	0.2000	0.0100 F	0.000	0.000	0.000	-0.001	-0.000	-0.000	
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	N	0.1000	0.0100 F	0.004	0.000	0.000	-0.067	-0.004	-0.004	
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	N	0.1000	0.0100 F	0.024	0.002	0.002	-0.405	-0.022	-0.022	
55008MC	TURKEY-UNSPECIFIED	N	0.1000	0.0100 F	0.000	0.000	0.000	-0.001	-0.000	-0.000	
55013BA	POULTRY, OTHER-BYPRODUCTS	N	0.1000	0.0100 F	0.000	0.000	0.000	-0.000	-0.000	-0.000	
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	N	0.2000	0.0100 F	0.000	0.000	0.000	-0.004	-0.000	-0.000	
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	N	0.1000	0.0100 F	0.003	0.000	0.000	-0.045	-0.002	-0.002	
55013BA	CHICKEN-BYPRODUCTS	N	0.1000	0.0100 F	0.000	0.000	0.000	-0.000	-0.000	-0.000	
55015LA	CHICKEN-GIBLETS(LIVER)	N	0.2000	0.0100 F	0.005	0.000	0.000	-0.090	-0.005	-0.005	
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	N	0.1000	0.0100 F	0.030	0.003	0.003	-0.505	-0.027	-0.027	
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	N	0.1000	0.0100 F	0.190	0.019	0.019	-3.187	-0.171	-0.171	

***GROUP TOTALS--POULTRY

50000DB	MILK-NON-FAT SOLIDS	N	0.0500	0.0100 F	1.778	0.356	0.356	-26.563	-1.423	-1.423	
50000FA	MILK-FAT SOLIDS	N	0.0500	0.0100 F	0.846	0.169	0.169	-12.636	-0.677	-0.677	
50000SA	MILK SUGAR (LACTOSE)	N	0.0500	0.0100 F	0.009	0.002	0.002	-0.140	-0.007	-0.007	
55014AA	EGGS-WHOLE	N	0.1000	0.0100 F	0.282	0.028	0.028	-4.743	-0.254	-0.254	
55014AB	EGGS-WHITE ONLY	N	0.1000	0.0100 F	0.005	0.000	0.000	-0.077	-0.004	-0.004	
55014AC	EGGS-YOLK ONLY	N	0.1000	0.0100 F	0.003	0.000	0.000	-0.056	-0.003	-0.003	

***GROUP TOTALS--DAIRY PRODUCTS

2.924					2.924	0.556	0.556	-44.216	-2.368	-2.368	
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TOLERANCE SOURCES: P=PUBLISHED, A=APPROVED, N=NEW ACTION, U=USER-SUPPLIED

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