



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

MAY 27 1988

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Dietary Exposure Analysis for Methidathion

FROM: J. Robert Tomerlin, Ph.D. *J. R. Tomerlin*  
HED/RCB (TS 769C)

THRU: Karl Arne, Ph.D. *K. Arne*  
Branch Senior Scientist  
HED/RCB (TS 769C)

TO: Dennis Edwards, PM #12  
Registration Division (TS 767)

Action Requested

Provide a dietary exposure analysis for Methidathion as part of the FRSTR process.

Discussion

1. A routine chronic TAS analysis was conducted with a reference dose (ADI) of 0.001 mg/kg body weight/day, based upon a NOEL of 0.1 mg/kg body weight/day and a safety factor of 100 from a 2 year dog feeding study. This value has been approved by TOX Branch (10/30/87).

2. Residues used in the analysis were tolerance values from 40 CFR 180.298 and anticipated residue values for citrus pulp, citrus juice, citrus oil, and cottonseed oil (personal communication, Deborah Edwards, 5/25/88).

The TAS food consumption files break citrus into pulp, peel, juice, and unspecified. Assuming that unspecified citrus is probably pulp, unspecified citrus was assigned an anticipated residue of 0.05 ppm. The anticipated residue for citrus peel was assumed to be the tolerance value of 2 ppm.

The anticipated residue for citrus oil presents a problem because the TAS food files do not include citrus oil as a consumed food commodity. The CRC Handbook of Processing and Utilization in Agriculture (Vol II, 1983) contains figures for per capita disappearance of citrus oil flavorings. Assuming that all the citrus oil flavorings are use in food, it is estimated that 0.53 g/day of citrus oil are consumed, although substantial

amounts of the flavorings are in fact used in non-food products, such as household cleaners. Further assuming that the average person has a mass of 60 kg, the average consumption of citrus oil for the U.S. population was estimated as 0.01 g/kg/day. Because consumption data for citrus oil is unavailable and tenuous assumptions were made to estimate consumption from disappearance data, citrus oil consumption estimates were made only for the overall U.S. population, and not for any population subgroups.

Although a tolerance on potatoes has been published for methidathion, the tolerance was not included in this analysis because methidathion is not registered for use on potatoes. A summary of the tolerance information used in the analysis is attached as Table 1.

3. The TAS routine chronic analysis with anticipated residues estimates the Anticipated Residue Contribution (ARC) for the U.S. population and 22 population subgroups. The ARC for the U.S. population is 0.000935 mg/kg body weight/day (93.5% of the ADI). The two most highly exposed population subgroups, non-nursing infants and children aged 1 to 6, had ARCs of 0.002313 mg/kg body weight/day (231.3% of the ADI) and 0.001395 mg/kg body weight/day (139.5% of the ADI), respectively. The ARC summary for all 23 population subgroups is attached as Table 2.

4. Exposure to methidathion is concentrated in a few raw agricultural commodities (RACs), shown in the table below.

| RAC          | U.S. Average                             | Non-nursing<br>Infants <1 yr | Children<br>1-6 yrs |
|--------------|------------------------------------------|------------------------------|---------------------|
| Milk         | 31.6 <sup>a</sup><br>(33.8) <sup>b</sup> | 195.8<br>(84.7)              | 99.3<br>(71.2)      |
| Red Meat     | 11.2<br>(12.0)                           | 10.7<br>(4.6)                | 20.4<br>(14.6)      |
| Citrus       | 44.5<br>(47.6)                           | 10.0<br>(4.3)                | 12.4<br>(8.9)       |
| Poultry      | 2.5<br>(2.7)                             | 5.3<br>(2.3)                 | 5.2<br>(3.7)        |
| Pome Fruits  | 0.4<br>(0.4)                             | 4.8<br>(2.1)                 | 1.5<br>(1.1)        |
| Stone Fruits | 0.2<br>(0.2)                             | 1.6<br>(0.7)                 | 0.4<br>(0.3)        |

<sup>a</sup>ARC for the commodity expressed as per cent of the ADI

<sup>b</sup>ARC for the commodity expressed as per cent of the total ARC.

Although the anticipated residue in citrus oil contributes significantly to the ARC of the citrus crop group for the U.S. population, no reasonable estimate of citrus oil consumption may be made for the two highly exposed juvenile subgroups. However, the exclusion of citrus oil consumption from the juvenile analyses may be of little consequence in that the ARC for milk alone exceeds the ADI for non-nursing infants and comprises 99 per cent of the ADI for children.

cc: TAS Files  
Reading File  
PMSD  
D. Edwards (RCB)

TOX (Rathman)  
circ.  
Methidathion SF

| CHEMICAL  |                  | STUDY TYPE                        |        | EFFECTS         |                           | REFERENCE DOSES |                | DATA GAPS/COMMENTS               |  | STATUS |  |
|-----------|------------------|-----------------------------------|--------|-----------------|---------------------------|-----------------|----------------|----------------------------------|--|--------|--|
| FOOD CODE | FOOD             | FOOD FORM                         | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE         | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |  |        |  |
| 02002AA   | GRAPEFRUIT-UNSP  | 00 NOT SPECIFIED (NO CONSUMPTION) | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02002AB   | GRAPEFRUIT-PULP  | 10 RAW-FRESH OR NFS               | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02002AB   | GRAPEFRUIT-PULP  | 21 COOKED-NFS                     | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02002JA   | GRAPEFRUIT-JUICE | 15 RAW-FRESH OR CANNED            | 2F1229 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02002JA   | GRAPEFRUIT-JUICE | 31 COOKED-FRESH OR CANNED         | 2F1229 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02004AA   | LEMONS-UNSPEC    | 10 RAW-FRESH OR NFS               | 5F1555 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02004AB   | LEMONS-UNSPEC    | 22 COOKED-FRESH-BAKED             | 5F1555 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02004AB   | LEMONS-PULP      | 10 RAW-FRESH OR NFS               | 5F1555 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02004AB   | LEMONS-PULP      | 31 COOKED-FRESH OR CANNED         | 5F1555 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02004HA   | LEMONS-PEEL      | 10 RAW-FRESH OR NFS               | 5F1555 | P 2.000000      | 2.000000                  |                 | 10.00          | 0.200000                         |  |        |  |
| 02004HA   | LEMONS-PEEL      | 21 COOKED-NFS                     | 5F1555 | P 2.000000      | 2.000000                  |                 | 10.00          | 0.200000                         |  |        |  |
| 02004JA   | LEMONS-JUICE     | 10 RAW-FRESH OR NFS               | 5F1555 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02004JA   | LEMONS-JUICE     | 15 RAW-FRESH OR CANNED            | 5F1555 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02004JA   | LEMONS-JUICE     | 31 COOKED-NFS                     | 5F1555 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02004JA   | LEMONS-JUICE     | 21 COOKED-FRESH OR CANNED         | 5F1555 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02006AA   | ORANGES-UNSPEC   | 00 NOT SPECIFIED (NO CONSUMPTION) | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02006AB   | ORANGES-PULP     | 10 RAW-FRESH OR NFS               | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02006AB   | ORANGES-PULP     | 21 COOKED-NFS                     | 2F1229 | P 2.000000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 02006HA   | ORANGES-PEEL     | 21 COOKED-FRESH-BAKED             | 2F1229 | P 2.000000      | 2.000000                  |                 | 10.00          | 0.200000                         |  |        |  |
| 02006HA   | ORANGES-PEEL     | 31 COOKED-FRESH OR CANNED         | 2F1229 | P 2.000000      | 2.000000                  |                 | 10.00          | 0.200000                         |  |        |  |
| 02006JA   | ORANGES-JUICE    | 15 RAW-FRESH OR CANNED            | 2F1229 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 02006JA   | ORANGES-JUICE    | 31 COOKED-FRESH OR CANNED         | 2F1229 | P 2.000000      | 0.200000                  |                 | 10.00          | 0.020000                         |  |        |  |
| 033001AA  | ALMONDS          | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033001AA  | ALMONDS          | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033001AA  | ALMONDS          | 22 COOKED-FRESH-BAKED             | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033002AA  | BRAZIL NUTS      | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033002AA  | BRAZIL NUTS      | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033003AA  | CASHEWS          | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033003AA  | CASHEWS          | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033004AA  | CHESTNUTS        | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033005AA  | FILBERTS         | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033005AA  | FILBERTS         | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033005AA  | FILBERTS         | 22 COOKED-FRESH-BAKED             | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033006AA  | HICKORY NUTS     | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033007AA  | MACADAMIA NUTS   | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033008AA  | PECANS           | 10 RAW-FRESH OR NFS               | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033008AA  | PECANS           | 21 COOKED-NFS                     | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033008AA  | PECANS           | 22 COOKED-FRESH-BAKED             | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |
| 033008AA  | PECANS           | 23 COOKED-FRESH-BOILED            | 6F1782 | P 0.050000      | 0.050000                  |                 | 10.00          | 0.005000                         |  |        |  |

Table 1. continued

| ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 378B |  |            |  |         |  |                 |  |                    |  | DATE: 05/26/88 | PAGE: 2 |
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| CHEMICAL                                                |  | STUDY TYPE |  | EFFECTS |  | REFERENCE DOSES |  | DATA GAPS/COMMENTS |  | STATUS         |         |
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Table 1. continued

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 378B

DATE: 05/26/88

PAGE: 3

| CHEMICAL          |                  | STUDY TYPE                                | EFFECTS | REFERENCE DOSES             |                           | DATA GAPS/COMMENTS |                | STATUS                           |
|-------------------|------------------|-------------------------------------------|---------|-----------------------------|---------------------------|--------------------|----------------|----------------------------------|
| FOOD CODE         | FOOD             | FOOD FORM                                 | PET.#   | TOLERANCE (ppm)             | ANTICIPATED RESIDUE (ppm) | AR TYPE            | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
| Methidathion      |                  | 2yr feeding- dog                          |         | Alterations in liver his-   | ADI SF --> 100            | No data gaps.      |                | TOX complete 10/30/87.           |
| Caswell #378B     |                  | NOEL=                                     |         | tology, inc. serum AP and   | OPP RfD= 0.001000         |                    |                |                                  |
| CAS No. 950-37-8  |                  | 4.00 ppm                                  |         | SGPT, RBC CHE inhibition at | EPA RfD= 0.000000         |                    |                | WHO last reviewed 1975.          |
| A.I. CODE: 100301 |                  | LEL=                                      |         | 64 ppm only. Evidence of    |                           |                    |                |                                  |
| CFR No. 180.298   |                  | 16.00 ppm                                 |         | oncogenicity in mice (li-   |                           | Q* not calculated. |                |                                  |
|                   |                  | ONCO: Class C (TOX NOTE).                 |         | vet/, negative in rat.      |                           |                    |                |                                  |
| 050004DA          | PEACHES-DRIED    | 10 RAW-FRESH OR NFS                       | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050004DA          | PEACHES-DRIED    | 21 COOKED-NFS                             | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005AA          | PLUMS-FRESH      | 10 RAW-FRESH OR NFS                       | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005AA          | PLUMS-FRESH      | 31 COOKED-FRESH OR CANNED                 | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005DA          | PLUMS-PRUNES     | 10 RAW-FRESH OR NFS                       | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005DA          | PLUMS-PRUNES     | 21 COOKED-NFS                             | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005DA          | PLUMS-PRUNES     | 31 COOKED-FRESH OR CANNED                 | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005JA          | PRUNE-JUICE      | 10 RAW-FRESH OR NFS                       | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 050005JA          | PRUNE-JUICE      | 62 COOKED-FRESH OR FROZEN-BAKED           | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060007AA          | MANGOES          | 10 RAW-FRESH OR NFS                       | 9E2194  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060007AA          | MANGOES          | 21 COOKED-NFS                             | 9E2194  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060008AA          | LOQUATS          | 00 NOT SPECIFIED (NO CONSUMPTION)         | 7F1984  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060009AA          | OLIVES           | 10 RAW-FRESH OR NFS                       | 7F1986  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060009AA          | OLIVES           | 11 RAW-FRESH-PICKLED, CORNED, OR CURED    | 7F1986  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 060009AA          | OLIVES           | 21 COOKED-NFS                             | 7F1986  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 13018AA           | ARTICHOKE-GLOBE  | 21 COOKED-NFS                             | 7F1987  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 15018AA           | SUNFLOWER-SEEDS  | 10 RAW-FRESH OR NFS                       | 4F1513  | P 0.500000                  | 0.500000                  |                    | 40.00          | 0.200000                         |
| 24006AA           | SORGHUM          | 00 NOT SPECIFIED (NO CONSUMPTION)         | 4F1512  | P 0.200000                  | 0.200000                  |                    | 10.00          | 0.020000                         |
| 270030A           | COTTONSEED-OIL   | 18 PROCESSED OIL                          | OF0892  | P 0.200000                  | 0.400000                  |                    | 10.00          | 0.040000                         |
| 270030A           | COTTONSEED-MEAL  | 18 PROCESSED OIL                          | OF0892  | P 0.200000                  | 0.200000                  |                    | 10.00          | 0.020000                         |
| 270080A           | SAFFLOWER-SEED   | 00 NOT SPECIFIED (NO CONSUMPTION)         | 7E1991  | P 0.500000                  | 0.500000                  |                    | 10.00          | 0.050000                         |
| 270080A           | SAFFLOWER-OIL    | 18 PROCESSED OIL                          | 7E1991  | P 0.500000                  | 0.500000                  |                    | 10.00          | 0.050000                         |
| 270110A           | SUNFLOWER-OIL    | 18 PROCESSED OIL                          | 4F1513  | P 0.500000                  | 0.500000                  |                    | 40.00          | 0.200000                         |
| 270160A           | OLIVE OIL        | 18 PROCESSED OIL                          | 7F1986  | P 0.050000                  | 0.050000                  |                    | 10.00          | 0.005000                         |
| 500000DB          | MILK-NON-FAT SOL | 10 RAW-FRESH OR NFS                       | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000DB          | MILK-NON-FAT SOL | 21 COOKED-NFS                             | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000DB          | MILK-NON-FAT SOL | 51 COOKED-CANNED                          | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000FA          | MILK-FAT SOLIDS  | 10 RAW-FRESH OR NFS                       | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000FA          | MILK-FAT SOLIDS  | 21 COOKED-NFS                             | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000FA          | MILK-FAT SOLIDS  | 51 COOKED-CANNED                          | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000SA          | MILK SUG (LACT)  | 51 COOKED-NFS                             | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 500000SA          | MILK SUG (LACT)  | 51 COOKED-CANNED                          | OF0892  | P 0.030000                  | 0.030000                  |                    | 100.00         | 0.030000                         |
| 530010BA          | BEEF-MEAT BYP    | 21 COOKED-NFS                             | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010BA          | BEEF-MEAT BYP    | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010BB          | BEEF-OTH ORGAN   | 21 COOKED-NFS                             | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010BB          | BEEF-OTH ORGAN   | 51 COOKED-CANNED                          | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010DA          | BEEF-DRIED       | 21 COOKED-NFS                             | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010FA          | BEEF-FAT         | 10 RAW-FRESH OR NFS                       | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010FA          | BEEF-FAT         | 21 COOKED-NFS                             | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |
| 530010FA          | BEEF-FAT         | 22 COOKED-FRESH-BAKED                     | OF0892  | P 0.050000                  | 0.050000                  |                    | 100.00         | 0.050000                         |

Table 1. continued

| ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 3788 |                           |                                           |                   |                    |                           |         |                |                                  |  | DATE: 05/26/88 | PAGE: 4 |
|---------------------------------------------------------|---------------------------|-------------------------------------------|-------------------|--------------------|---------------------------|---------|----------------|----------------------------------|--|----------------|---------|
| CHEMICAL                                                | STUDY TYPE                | EFFECTS                                   | REFERENCE DOSES   |                    | DATA GAPS/COMMENTS        | STATUS  |                |                                  |  |                |         |
|                                                         |                           |                                           | ADI               | SF -->             |                           |         |                |                                  |  |                |         |
| Methodation                                             | 2yr feeding- dog          | Alterations in liver his-                 | 100               | No data gaps.      | TOX complete 10/30/87..   |         |                |                                  |  |                |         |
| Caswell #378B                                           | NOEL= 0.1000 mg/kg        | tology, inc. serum AP and                 | OPP RfD= 0.001000 |                    |                           |         |                |                                  |  |                |         |
| CAS No. 950-37-8                                        | 4.00 ppm                  | SGPT, RBC ChE inhibition at               | EPA RfD= 0.000000 |                    | WHO last reviewed 1975.   |         |                |                                  |  |                |         |
| A.I. CODE: 100301                                       | LEL= 0.4000 mg/kg         | 64 ppm only. Evidence of                  |                   |                    |                           |         |                |                                  |  |                |         |
| CFR No. 180.298                                         | 16.00 ppm                 | oncogenicity in mice (li-                 |                   | Q* not calculated. |                           |         |                |                                  |  |                |         |
|                                                         | ONCO: Class C (TOX NOTE). | ver), negative in rat.                    |                   |                    |                           |         |                |                                  |  |                |         |
| FOOD CODE                                               | FOOD                      | FOOD FORM                                 | PET. #            | TOLERANCE (ppm)    | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |  |                |         |
| 53001FA                                                 | BEEF-FAT                  | 23 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001FA                                                 | BEEF-FAT                  | 24 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001FA                                                 | BEEF-FAT                  | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001KA                                                 | BEEF-KIDNEY               | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001LA                                                 | BEEF-LIVER                | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001LA                                                 | BEEF-LIVER                | 31 COOKED-FRESH OR CANNED                 | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001MA                                                 | BEEF-LEAN                 | 10 RAW-FRESH OR NFS                       | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001MA                                                 | BEEF-LEAN                 | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001MA                                                 | BEEF-LEAN                 | 22 COOKED-FRESH-BAKED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001MA                                                 | BEEF-LEAN                 | 23 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53001MA                                                 | BEEF-LEAN                 | 24 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002BA                                                 | GOAT-MEAT BYP             | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002BB                                                 | GOAT-OTH ORGAN            | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002FA                                                 | GOAT-FAT                  | 23 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002FA                                                 | GOAT-FAT                  | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002KA                                                 | GOAT-KIDNEY               | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002LA                                                 | GOAT-LIVER                | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002MA                                                 | GOAT-LEAN                 | 23 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53002MA                                                 | GOAT-LEAN                 | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53003AA                                                 | HORSE                     | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005BA                                                 | SHEEP-MEAT BYP            | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005BB                                                 | SHEEP-OTH ORGAN           | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005FA                                                 | SHEEP-FAT                 | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005KA                                                 | SHEEP-KIDNEY              | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005LA                                                 | SHEEP-LIVER               | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005MA                                                 | SHEEP-LEAN                | 31 COOKED-FRESH OR CANNED                 | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53005MA                                                 | SHEEP-LEAN                | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006BA                                                 | PORK-MEAT BYP             | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006BB                                                 | PORK-OTH ORGAN            | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006BB                                                 | PORK-OTH ORGAN            | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006FA                                                 | PORK-FAT                  | 10 RAW-FRESH OR NFS                       | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006FA                                                 | PORK-FAT                  | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006FA                                                 | PORK-FAT                  | 23 COOKED-FRESH-BOILED                    | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006FA                                                 | PORK-FAT                  | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006FA                                                 | PORK-FAT                  | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006KA                                                 | PORK-KIDNEY               | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006LA                                                 | PORK-LIVER                | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006LA                                                 | PORK-LIVER                | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006MA                                                 | PORK-LEAN                 | 21 COOKED-NFS                             | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |
| 53006MA                                                 | PORK-LEAN                 | 25 COOKED-FRESH-FRIED                     | OF0892            | P 0.050000         | 0.050000                  |         | 100.00         | 0.050000                         |  |                |         |

Table 1. continued

| ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 378B |                  |                   |                                           |                             |                    |                              |                    |                |                                     | DATE: 05/26/88          | PAGE: 5 |
|---------------------------------------------------------|------------------|-------------------|-------------------------------------------|-----------------------------|--------------------|------------------------------|--------------------|----------------|-------------------------------------|-------------------------|---------|
| FOOD CODE                                               | FOOD             | CHEMICAL          | STUDY TYPE                                | EFFECTS                     | REFERENCE DOSES    |                              | DATA GAPS/COMMENTS | % CROP TREATED | RES. VALUE USED<br>IN TAS RUN (ppm) | STATUS                  |         |
|                                                         |                  |                   |                                           |                             | ADI                | SF -->                       |                    |                |                                     |                         |         |
|                                                         |                  | Methidathion      | 2yr feeding- dog                          | Alterations in liver his-   | 100                | No data gaps.                |                    |                |                                     | TOX complete 10/30/87.  |         |
|                                                         |                  | Caswell #378B     | NOEL= 0.1000 mg/kg                        | tology, inc. serum AP and   | OPP RfD= 0.001000  |                              |                    |                |                                     | WHO last reviewed 1975. |         |
|                                                         |                  | CAS No. 950-37-8  | 4.00 ppm                                  | SGPT, RBC ChE inhibition at | EPA RfD= 0.000000  |                              |                    |                |                                     |                         |         |
|                                                         |                  | A.I. CODE: 100301 | LEL= 0.4000 mg/kg                         | 64 ppm only. Evidence of    |                    |                              |                    |                |                                     |                         |         |
|                                                         |                  | CFR No. 180.298   | 16.00 ppm                                 | oncogenicity in mice (li-   |                    |                              |                    |                |                                     |                         |         |
|                                                         |                  |                   | ONCO: Class C (TOX WOTE).                 | ver), negative in rat.      |                    |                              |                    |                |                                     |                         |         |
|                                                         |                  |                   | FOOD FORM                                 | PET. #                      | TOLERANCE<br>(ppm) | ANTICIPATED<br>RESIDUE (ppm) | AR TYPE            |                |                                     |                         |         |
| 53006MA                                                 | PORK-LEAN        |                   | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008BA                                                 | TURKEY-BYP       |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008BA                                                 | TURKEY-BYP       |                   | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008LA                                                 | TURKEY ORGAN     |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008LA                                                 | TURKEY ORGAN     |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MA                                                 | TURKEY W/O SKIN  |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MA                                                 | TURKEY W/O SKIN  |                   | 31 COOKED-FRESH OR CANNED                 | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MA                                                 | TURKEY W/O SKIN  |                   | 62 COOKED-FRESH OR FROZEN-BAKED           | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MB                                                 | TURKEY+SKIN      |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MB                                                 | TURKEY+SKIN      |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55008MC                                                 | TURKEY-UNSPEC    |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55013BA                                                 | POULTRY,OTH-BYP  |                   | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55013LA                                                 | POULTRY,ORGAN    |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55013MA                                                 | POULTRY,OTHER    |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AA                                                 | EGGS-WHOLE       |                   | 10 RAW-FRESH OR NFS                       | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AA                                                 | EGGS-WHOLE       |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AA                                                 | EGGS-WHOLE       |                   | 22 COOKED-FRESH-BAKED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AA                                                 | EGGS-WHOLE       |                   | 23 COOKED-FRESH-BOILED                    | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AA                                                 | EGGS-WHOLE       |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AB                                                 | EGGS-WHITE ONLY  |                   | 10 RAW-FRESH OR NFS                       | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AB                                                 | EGGS-WHITE ONLY  |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AB                                                 | EGGS-WHITE ONLY  |                   | 22 COOKED-FRESH-BAKED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AB                                                 | EGGS-WHITE ONLY  |                   | 62 COOKED-FRESH OR FROZEN-BAKED           | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AC                                                 | EGGS-YOLK ONLY   |                   | 81 COOKED-FROZEN                          | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AC                                                 | EGGS-YOLK ONLY   |                   | 10 RAW-FRESH OR NFS                       | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AC                                                 | EGGS-YOLK ONLY   |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AC                                                 | EGGS-YOLK ONLY   |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55014AC                                                 | EGGS-YOLK ONLY   |                   | 31 COOKED-FRESH OR CANNED                 | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015BA                                                 | CHICKEN-BYP      |                   | 00 NOT SPECIFIED (NO CONSUMPTION)         | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015LA                                                 | CHICKEN-ORGAN    |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015LA                                                 | CHICKEN-ORGAN    |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015LA                                                 | CHICKEN-ORGAN    |                   | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MA                                                 | CHICKEN-W/O SKIN |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MA                                                 | CHICKEN-W/O SKIN |                   | 22 COOKED-FRESH-BAKED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MA                                                 | CHICKEN-W/O SKIN |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MA                                                 | CHICKEN-W/O SKIN |                   | 31 COOKED-FRESH OR CANNED                 | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MA                                                 | CHICKEN-W/O SKIN |                   | 53 COOKED-CANNED-BOILED                   | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MB                                                 | CHICKEN+SKIN     |                   | 21 COOKED-NFS                             | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 55015MB                                                 | CHICKEN+SKIN     |                   | 25 COOKED-FRESH-FRIED                     | OF0892                      | P 0.050000         | 0.050000                     | 100.00             |                | 0.050000                            |                         |         |
| 90999AB                                                 | CITRUS OIL       |                   | 10 FRESH                                  |                             | P 1.000000         | 400.000000                   | 10.00              |                | 40.000000                           |                         |         |



Table 2

## TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 05/26/88

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| CHEMICAL INFORMATION                            |                  | STUDY TYPE                | EFFECTS                                                                                                                                                | REFERENCE DOSES                                          | DATA GAPS/COMMENTS           | STATUS                         |
|-------------------------------------------------|------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------|--------------------------------|
| Methidathion                                    | 2yr feeding- dog | NOEL= 0.1000 mg/kg        | Alterations in liver histology, inc. serum AP and SGPT. RBC ChE inhibition at 64 ppm only. Evidence of oncogenicity in mice (li-ver), negative in rat. | ADI SF --> 100<br>OPP RfD= 0.001000<br>EPA RfD= 0.000000 | 100 No data gaps.            | TOX complete 10/30/87.         |
| Caswell #378B                                   |                  | 4.00 ppm                  |                                                                                                                                                        |                                                          |                              |                                |
| CAS No. 950-37-8                                |                  | LEL= 0.4000 mg/kg         |                                                                                                                                                        |                                                          |                              | WHO last reviewed 1975.        |
| A.I. CODE: 100301                               |                  | 16.00 ppm                 |                                                                                                                                                        |                                                          | Q* not calculated.           |                                |
| CFR No. 180.298                                 |                  | ONCO: Class C (TOX NOTE). |                                                                                                                                                        |                                                          |                              |                                |
| 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 |
| POPULATION SUBGROUP                             |                  |                           |                                                                                                                                                        |                                                          | ARC                          | \$RFD                          |
| U.S. POPULATION - 48 STATES                     |                  | 0.005571                  | 0.005571                                                                                                                                               | 557.130200                                               | 0.000000                     | 0.000935 93.496200             |
| U.S. POPULATION - SPRING SEASON                 |                  | 0.005579                  | 0.005579                                                                                                                                               | 557.878200                                               | 0.000000                     | 0.000512 51.182700             |
| U.S. POPULATION - SUMMER SEASON                 |                  | 0.005188                  | 0.005188                                                                                                                                               | 518.750400                                               | 0.000000                     | 0.000529 52.898000             |
| U.S. POPULATION - FALL SEASON                   |                  | 0.005630                  | 0.005630                                                                                                                                               | 563.011300                                               | 0.000000                     | 0.000553 55.318200             |
| U.S. POPULATION - WINTER SEASON                 |                  | 0.005869                  | 0.005869                                                                                                                                               | 586.874300                                               | 0.000000                     | 0.000546 54.592800             |
| NORTHEAST REGION                                |                  | 0.006962                  | 0.006962                                                                                                                                               | 696.157000                                               | 0.000000                     | 0.000563 56.265700             |
| NORTH CENTRAL REGION                            |                  | 0.005543                  | 0.005543                                                                                                                                               | 554.264400                                               | 0.000000                     | 0.000545 54.544500             |
| SOUTHERN REGION                                 |                  | 0.004489                  | 0.004489                                                                                                                                               | 448.850200                                               | 0.000000                     | 0.000482 48.175500             |
| WESTERN REGION                                  |                  | 0.005589                  | 0.005589                                                                                                                                               | 558.893600                                               | 0.000000                     | 0.000575 57.460800             |
| HISPANICS                                       |                  | 0.007495                  | 0.007495                                                                                                                                               | 749.509700                                               | 0.000000                     | 0.000683 68.296700             |
| NON-HISPANIC WHITES                             |                  | 0.005358                  | 0.005358                                                                                                                                               | 535.820100                                               | 0.000000                     | 0.000527 52.657900             |
| NON-HISPANIC BLACKS                             |                  | 0.005735                  | 0.005735                                                                                                                                               | 573.450300                                               | 0.000000                     | 0.000510 50.969400             |
| NON-HISPANIC OTHERS                             |                  | 0.007917                  | 0.007917                                                                                                                                               | 791.653700                                               | 0.000000                     | 0.000619 61.852500             |
| NURSING INFANTS (< 1 YEAR OLD)                  |                  | 0.005759                  | 0.005759                                                                                                                                               | 575.914000                                               | 0.000000                     | 0.000606 60.570300             |
| NON-NURSING INFANTS (< 1 YEAR OLD)              |                  | 0.013147                  | 0.013147                                                                                                                                               | 1314.674500                                              | 0.000000                     | 0.002313 231.314700            |
| FEMALES (13+ YEARS, PREGNANT)                   |                  | 0.004576                  | 0.004576                                                                                                                                               | 457.598600                                               | 0.000000                     | 0.000383 38.343300             |
| FEMALES 13+ YEARS, NURSING                      |                  | 0.004380                  | 0.004380                                                                                                                                               | 438.035500                                               | 0.000000                     | 0.000463 46.344800             |
| CHILDREN (1-6 YEARS OLD)                        |                  | 0.014968                  | 0.014968                                                                                                                                               | 1496.771800                                              | 0.000000                     | 0.001395 139.539200            |
| CHILDREN (7-12 YEARS OLD)                       |                  | 0.008228                  | 0.008228                                                                                                                                               | 822.829800                                               | 0.000000                     | 0.000867 86.700800             |
| MALES (13-19 YEARS OLD)                         |                  | 0.004750                  | 0.004750                                                                                                                                               | 475.017300                                               | 0.000000                     | 0.000569 56.857500             |
| FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING) |                  | 0.004461                  | 0.004461                                                                                                                                               | 446.089400                                               | 0.000000                     | 0.000447 44.744500             |
| MALES (20 YEARS AND OLDER)                      |                  | 0.003355                  | 0.003355                                                                                                                                               | 335.480900                                               | 0.000000                     | 0.000349 34.912600             |
| FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS) |                  | 0.004164                  | 0.004164                                                                                                                                               | 416.384800                                               | 0.000000                     | 0.000313 31.302100             |

\*Current TMRC does not include new or pending tolerances.

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