



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

PM50/ISB  
1745

11 AUG 1987

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

Subject: Dichlorvos (DDVP)- Tolerance Assessment/Quantitative  
Risk Assessment. Addendum to the Registration Standard.

To: Amy Rispin  
Science Integration Staff  
Hazard Evaluation Division

From: C. Frick  
Tolerance Assessment Program  
Residue Chemistry Branch, HED

*C. Frick 8/10/87*

*DY*  
*8/10/87*

Thru: Charles L. Trichilo, Ph.D.  
Chief, Residue Chemistry Branch  
Hazard Evaluation Division

A large, stylized handwritten signature, likely of Charles L. Trichilo, written in ink.

Tolerance Assessment System (TAS) Program has been requested by the Science Integration Staff (SIS) to perform a tolerance assessment and quantitative risk assessment factoring in values for percent of crop treated and anticipated residues.

# TOLERANCE ASSESSMENT

CHEMICAL: DICLORVOS (DDVP)

1. The Provisional Acceptable Daily Intake (PADI) for this chemical is 0.0008 mg/kg/day, and has been approved by the Toxicology Branch Reference Dose Committee.

In addition, this chemical has been identified as an oncogen in the rat and mouse. The ( $Q^*$ ) of DDVP is  $2.9 \times 10^{-1}$  (mg/kg/day)<sup>-1</sup> (memo. Carol Monroe, SIS).

2. The food uses evaluated by the Tolerance Assessment System (TAS) were published tolerances established under CFR 180.235. Some of the published tolerance values were expressed in terms of the pesticide Naled; in this analysis these values were calculated in terms of DDVP.

3. The Science Integration Staff (SIS) requested information from the Economic Analysis Branch (BUD) on the percent of crops treated with DDVP. The TAS analysis has factored in these data along with data submitted by RCB reflecting anticipated residues of DDVP. The results are found in the analytical summary sheet (page 1a) under the heading "Effects of Anticipated Residues". A comparison of the analytical results using published tolerance residue values, and factoring in the values of anticipated residues and percent of crops treated has been made.

4. Evaluation of DDVP uses relative to the PADI (Published Tolerance Values): The TMRC for the U.S. population average is 0.004302 mg/kg/day, equivalent to 538% of the PADI. The most highly exposed subgroups are non-nursing infants (0.011804 mg/kg/day, equivalent to 1475% of the PADI). and children 1-6 years of age (0.009048 mg/kg/day, equivalent to 1131% of the PADI).

Evaluation of DDVP uses relative to the PADI (factoring in anticipated residue levels and percent of crops treated): The Anticipated Residue Concentration (ARC) for the U.S. population average is 0.000416 mg/kg/day, which is equivalent to 52% of the PADI. The most highly exposed subgroups are non-nursing infants (0.001522 mg/kg/day, which is equivalent to 190% of the PADI) and children 1-6 years of age (0.000976 mg/kg/day, equivalent to 122% of the PADI.

4. Calculation of oncogenic risk: Risk was calculated only for the U.S. population in accordance with current HED policy. This value was calculated as:

$$\text{RISK} = \text{EXPOSURE} \times Q^*$$

Using Published Tolerance Values only:

$$\begin{aligned} & 0.004302 \times (2.9 \times 10^{-1}) \\ \text{or } & 4.3 \times 10^{-3} \times 2.9 \times 10^{-1} = \underline{1.3 \times 10^{-3}} \end{aligned}$$

Using Published Tolerances, and factoring by anticipated residues and percent of crop treated, the risk was calculated as:

$$\begin{aligned} & 0.000416 \times (2.9 \times 10^{-1}) \\ \text{or } & 4.2 \times 10^{-4} \times 2.9 \times 10^{-1} = \underline{1.2 \times 10^{-4}} \end{aligned}$$

### Discussion

For calculation of anticipated residues in the TAS analyses, the published tolerance values were factored by values for percent of crop treated and processing data, when such data was available. It must be pointed out that much of the data on percent of crop treated was derived from indirect inference and cannot be considered as solid data. The following must be noted:

1. Besides the tolerances on specific crops listed in CFR 180.235, tolerances are established for the residues of DDVP on bulk stored nonperishable RACs and packaged or bagged nonperishable RACs and processed foods. The foods in this category, without adjusting for percent of crop treated or anticipated residues, contribute 68% of the TMRC.

2. As calculated in the TAS analysis, the value used for percent of these crops treated was 7.5%. This percentage was the value given by BUD as the average percentage of processors using DDVP, 6/84 through 6/85 (memo. Ed Brandt, 7/29/87). However, this use information is only relevant to food processors. The tolerances also cover registered uses on bulk storage facilities such as warehouses and railroad storage; no information is available on the percent use of DDVP at these locations.

Finally, since the treatment of food occurs at the distribution level, the use of % crop treated correction for this use is debatable. The distribution of residues will not be random, and it is likely that within a given regional distribution area, most of the food will be treated.

4. It must be concluded, that with the sparsity of quantitative data available to TAS on this type of categorical treatment with DDVP, the value of 7.5% crop treated in this treatment category must be considered as arbitrary.

ATTACHMENT

cc. Registration Standard File  
Reading File  
Circ.  
TAS File  
C. Frick (RCB)  
D. Edwards (RCB)  
Toxicology Branch  
PMSD

## TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 08/05/87

PAGE: 1a

| CHEMICAL                                                                              | STUDY TYPE                                                                                                        | EFFECTS                                                                                                                                                         | REFERENCE DOSES                                                                     | DATA GAPS/COMMENTS                                                                                      | STATUS                                                                                             |                                                      |      |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------|------|
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) | Increased liver weights,<br>enlarged hepatocytes, no<br>effect on ChE activity.<br>Evidence of oncogenicity<br>in rats (pancreas, leuk.)<br>and mice (stomach). | PADI 100<br>OPP RfD= 0.000800<br>EPA RfD= 0.002500<br>WHO RfD 0.004000<br>Type: ADI | Chronic feeding- rat<br>(Core-Supplementary)<br>Reproduction<br>(Core-Supplementary)<br>Teratology- rat | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |                                                      |      |
| POPULATION SUBGROUP                                                                   |                                                                                                                   |                                                                                                                                                                 |                                                                                     |                                                                                                         |                                                                                                    |                                                      |      |
| TOTAL TMRC (MG/KG BODY WEIGHT/DAY)                                                    |                                                                                                                   |                                                                                                                                                                 |                                                                                     |                                                                                                         |                                                                                                    |                                                      |      |
| CURRENT TMRC*                                                                         |                                                                                                                   | NEW TMRC**                                                                                                                                                      |                                                                                     | NEW TMRC<br>AS PERCENT<br>OF RFD                                                                        | DIFFERENCE<br>AS PERCENT<br>OF RFD                                                                 | EFFECT OF ANTICIPATED RESIDUES<br>ARC<br>(MG/KG/DAY) | %RFD |
| U.S. POPULATION - 48 STATES                                                           | 0.004302                                                                                                          | 0.004302                                                                                                                                                        | 537.724000                                                                          | 0.000000                                                                                                | 0.000416                                                                                           | 52.008500                                            |      |
| U.S. POPULATION - SPRING SEASON                                                       | 0.004153                                                                                                          | 0.004153                                                                                                                                                        | 519.094250                                                                          | 0.000000                                                                                                | 0.000402                                                                                           | 50.305750                                            |      |
| U.S. POPULATION - SUMMER SEASON                                                       | 0.004346                                                                                                          | 0.004346                                                                                                                                                        | 543.247500                                                                          | 0.000000                                                                                                | 0.000414                                                                                           | 51.803500                                            |      |
| U.S. POPULATION - FALL SEASON                                                         | 0.004349                                                                                                          | 0.004349                                                                                                                                                        | 543.649750                                                                          | 0.000000                                                                                                | 0.000426                                                                                           | 53.281750                                            |      |
| U.S. POPULATION - WINTER SEASON                                                       | 0.004312                                                                                                          | 0.004312                                                                                                                                                        | 539.049000                                                                          | 0.000000                                                                                                | 0.000421                                                                                           | 52.648125                                            |      |
| NORTHEAST REGION                                                                      | 0.004257                                                                                                          | 0.004257                                                                                                                                                        | 532.173500                                                                          | 0.000000                                                                                                | 0.000411                                                                                           | 51.355375                                            |      |
| NORTH CENTRAL REGION                                                                  | 0.004384                                                                                                          | 0.004384                                                                                                                                                        | 548.053250                                                                          | 0.000000                                                                                                | 0.000423                                                                                           | 52.907125                                            |      |
| SOUTHERN REGION                                                                       | 0.004072                                                                                                          | 0.004072                                                                                                                                                        | 508.960250                                                                          | 0.000000                                                                                                | 0.000404                                                                                           | 50.515500                                            |      |
| WESTERN REGION                                                                        | 0.004574                                                                                                          | 0.004574                                                                                                                                                        | 571.800875                                                                          | 0.000000                                                                                                | 0.000433                                                                                           | 54.167000                                            |      |
| HISPANICS                                                                             | 0.004807                                                                                                          | 0.004807                                                                                                                                                        | 600.864625                                                                          | 0.000000                                                                                                | 0.000499                                                                                           | 62.387875                                            |      |
| NON-HISPANIC WHITES                                                                   | 0.004337                                                                                                          | 0.004337                                                                                                                                                        | 542.082125                                                                          | 0.000000                                                                                                | 0.000408                                                                                           | 51.056250                                            |      |
| NON-HISPANIC BLACKS                                                                   | 0.003735                                                                                                          | 0.003735                                                                                                                                                        | 466.932000                                                                          | 0.000000                                                                                                | 0.000422                                                                                           | 52.707125                                            |      |
| NON-HISPANICS OTHER                                                                   | 0.004364                                                                                                          | 0.004364                                                                                                                                                        | 545.543375                                                                          | 0.000000                                                                                                | 0.000454                                                                                           | 56.791625                                            |      |
| NURSING INFANTS (<1 YEAR OLD)                                                         | 0.003654                                                                                                          | 0.003654                                                                                                                                                        | 456.717625                                                                          | 0.000000                                                                                                | 0.000401                                                                                           | 50.065625                                            |      |
| NON-NURSING INFANTS (<1 YEAR OLD)                                                     | 0.011804                                                                                                          | 0.011804                                                                                                                                                        | 1475.508500                                                                         | 0.000000                                                                                                | 0.001522                                                                                           | 190.264625                                           |      |
| FEMALES (13+ YEARS, PREGNANT)                                                         | 0.003153                                                                                                          | 0.003153                                                                                                                                                        | 394.077250                                                                          | 0.000000                                                                                                | 0.000298                                                                                           | 37.240000                                            |      |
| FEMALES 13+ YEARS, NURSING                                                            | 0.003773                                                                                                          | 0.003773                                                                                                                                                        | 471.670625                                                                          | 0.000000                                                                                                | 0.000354                                                                                           | 44.302125                                            |      |
| CHILDREN (1-6 YEARS OLD)                                                              | 0.009048                                                                                                          | 0.009048                                                                                                                                                        | 1130.974125                                                                         | 0.000000                                                                                                | 0.000976                                                                                           | 122.047000                                           |      |
| CHILDREN (7-12 YEARS OLD)                                                             | 0.006623                                                                                                          | 0.006623                                                                                                                                                        | 827.852125                                                                          | 0.000000                                                                                                | 0.000649                                                                                           | 81.154250                                            |      |
| MALES (13-19 YEARS OLD)                                                               | 0.004460                                                                                                          | 0.004460                                                                                                                                                        | 557.511750                                                                          | 0.000000                                                                                                | 0.000440                                                                                           | 55.001250                                            |      |
| FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)                                       | 0.003718                                                                                                          | 0.003718                                                                                                                                                        | 464.766500                                                                          | 0.000000                                                                                                | 0.000353                                                                                           | 44.162125                                            |      |
| MALES (20 YEARS AND OLDER)                                                            | 0.003314                                                                                                          | 0.003314                                                                                                                                                        | 414.254250                                                                          | 0.000000                                                                                                | 0.000304                                                                                           | 38.004375                                            |      |
| FEMALES (20 YEARS AND OLDER)                                                          | 0.002986                                                                                                          | 0.002986                                                                                                                                                        | 373.188250                                                                          | 0.000000                                                                                                | 0.000263                                                                                           | 32.928125                                            |      |

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

# ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 328

DATE: 08/05/87

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| CHEMICAL                                                                               | STUDY TYPE                                                                                                        | EFFECTS                                                                                                                                          | REFERENCE DOSES                                                                     | DATA GAPS/COMMENTS                                                                                | STATUS                                                                                    |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Dichlorvos<br>Casswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) | Increased liver weights, enlarged hepatocytes, no effect on CHE activity. Evidence of oncogenicity in rats (pancreas, leuk.) and mice (stomach). | PADI 100<br>OPP RfD= 0.000800<br>EPA RfD= 0.002500<br>WHO RfD 0.004000<br>Type: ADI | Chronic feeding- rat (Core-Supplementary)<br>Reproduction (Core-Supplementary)<br>Teratology- rat | TOX complete 8/15/86. ORD verified 9/16/86. WHO last reviewed 1977. TOX reassess 7/16/87. |

| FOOD CODE | FOOD           | FOOD FORM                         | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|----------------|-----------------------------------|--------|-----------------|---------------------------|---------|----------------|----------------------------------|
| 01014DA   | GRAPE-RAISINS  | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 01014DA   | GRAPE-RAISINS  | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 01014DA   | GRAPE-RAISINS  | 22 COOKED-FRESH-BAKED             | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 03001AA   | ALMONDS        | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03001AA   | ALMONDS        | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03001AA   | ALMONDS        | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03002AA   | BRAZIL NUTS    | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03002AA   | BRAZIL NUTS    | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03003AA   | CASHEWS        | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03003AA   | CASHEWS        | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03004AA   | CHESTNUTS      | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03005AA   | FILBERTS       | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03005AA   | FILBERTS       | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03006AA   | HICKORY NUTS   | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03007AA   | MACADAMIA NUTS | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03008AA   | PECANS         | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03008AA   | PECANS         | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03008AA   | PECANS         | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03008AA   | PECANS         | 23 COOKED-FRESH-BOILED            | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03008AA   | PECANS         | 62 COOKED-FRESH OR FROZEN-BAKED   | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03009AA   | WALNUTS        | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03009AA   | WALNUTS        | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03009AA   | WALNUTS        | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03010AA   | BUTTER NUTS    | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03011AA   | PISTACHIO NUTS | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 03013AA   | BEECHNUTS      | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 2.000000        | 2.000000                  |         | 7.50           | 0.150000                         |
| 04001DA   | APPLES-DRIED   | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 04001DA   | APPLES-DRIED   | 22 COOKED-FRESH-BAKED             | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 04001DA   | APPLES-DRIED   | 62 COOKED-FRESH OR FROZEN-BAKED   | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 04003DA   | PEARS-DRIED    | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 04003DA   | PEARS-DRIED    | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05001DA   | APRICOTS-DRIED | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05001DA   | APRICOTS-DRIED | 22 COOKED-FRESH-BAKED             | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05002DA   | CHERRIES-DRIED | 00 NOT SPECIFIED (NO CONSUMPTION) | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05004DA   | PEACHES-DRIED  | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05004DA   | PEACHES-DRIED  | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05005DA   | PLUMS-PRUNES   | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05005DA   | PLUMS-PRUNES   | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 05005DA   | PLUMS-PRUNES   | 31 COOKED-FRESH OR CANNED         | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |

# ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 328

DATE: 08/05/87

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| CHEMICAL                                                                              | STUDY TYPE                                                                                                        | EFFECTS                                                                                                                                                         | REFERENCE DOSES                        |                               | DATA GAPS/COMMENTS                                                                                      | STATUS                                                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                       |                                                                                                                   |                                                                                                                                                                 | PADI                                   | 100                           |                                                                                                         |                                                                                                    |
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: class B2 (TOX NOTE) | Increased liver weights,<br>enlarged hepatocytes, no<br>effect on CHE activity.<br>Evidence of oncogenicity<br>in rats (pancreas, leuk.)<br>and mice (stomach). | OPP Rfd= 0.000800<br>EPA Rfd= 0.002500 | WHO Rfd 0.004000<br>Type: ADI | Chronic feeding- rat<br>(Core-Supplementary)<br>Reproduction<br>(Core-Supplementary)<br>Teratology- rat | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |

| FOOD CODE | FOOD            | FOOD FORM                              | PET.#  | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE          | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|-----------------|----------------------------------------|--------|-----------------|---------------------------|------------------|----------------|----------------------------------|
| 06002DA   | BANANAS-DRIED   | 10 RAW-FRESH OR NFS                    | 0H2477 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 06002DA   | BANANAS-DRIED   | 21 COOKED-NFS                          | 0H2477 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 06003DA   | COCONUT-FRESH   | 10 RAW-FRESH OR NFS                    | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06003DA   | COCONUT-FRESH   | 10 RAW-FRESH OR NFS                    | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06003DA   | COCONUT-FRESH   | 21 COOKED-NFS                          | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06003DA   | COCONUT-FRESH   | 22 COOKED-FRESH-BAKED                  | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06003DA   | COCONUT-FRESH   | 62 COOKED-FRESH OR FROZEN-BAKED        | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06003DA   | COCONUT-FRESH   | 10 RAW-FRESH OR NFS                    | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 06005AA   | FIGS            | 10 RAW-FRESH OR NFS                    | 9H5209 | 0.500000        | 0.500000                  |                  | 20.00          | 0.100000                         |
| 06005AA   | FIGS            | 21 COOKED-NFS                          | 9H5209 | 0.500000        | 0.500000                  |                  | 20.00          | 0.100000                         |
| 06005AA   | FIGS            | 22 COOKED-FRESH-BAKED                  | 9H5209 | 0.500000        | 0.500000                  |                  | 20.00          | 0.100000                         |
| 06010DA   | PAPAYAS-DRIED   | 10 RAW-FRESH OR NFS                    | 0H2477 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 06013DA   | PINEAPPLE-DRIED | 10 RAW-FRESH OR NFS                    | 0H2477 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 07001FA   | COCOA BUTTER    | 21 COOKED-NFS                          | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 07001SA   | CHOCOLATE       | 10 RAW-FRESH OR NFS                    | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 07001SA   | CHOCOLATE       | 21 COOKED-NFS                          | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 07001SA   | CHOCOLATE       | 22 COOKED-FRESH-BAKED                  | 1F1132 | 2.000000        | 2.000000                  |                  | 7.50           | 0.150000                         |
| 07002AA   | COFFEE          | 21 COOKED-NFS                          | 1F1132 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 07003AA   | TEA             | 21 COOKED-NFS                          | 1F1132 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 07006AA   | CHICORY         | 21 COOKED-NFS                          | 1F1132 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 08028AA   | MUSTARD SEED    | 11 RAW-FRESH-PICKLED, CORNED, OR CURED | 1F1132 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 08028AA   | MUSTARD SEED    | 21 COOKED-NFS                          | 1F1132 | 0.500000        | 0.500000                  |                  | 7.50           | 0.037500                         |
| 10010AA   | CUCUMBERS       | 10 RAW-FRESH OR NFS                    | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 10010AA   | CUCUMBERS       | 11 RAW-FRESH-PICKLED, CORNED, OR CURED | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 10010AA   | CUCUMBERS       | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005AA   | TOMATOES-WHOLE  | 10 RAW-FRESH OR NFS                    | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005AA   | TOMATOES-WHOLE  | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005AA   | TOMATOES-WHOLE  | 31 COOKED-FRESH OR CANNED              | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005JA   | TOMATOES-JUICE  | 10 RAW-FRESH OR NFS                    | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005JA   | TOMATOES-JUICE  | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005RA   | TOMATOES-PUREE  | 10 RAW-FRESH OR NFS                    | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005RA   | TOMATOES-PUREE  | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005RA   | TOMATOES-PUREE  | 31 COOKED-FRESH OR CANNED              | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005RA   | TOMATOES-PUREE  | 51 COOKED-FRESH OR CANNED-BAKED        | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005TA   | TOMATOES-PASTE  | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005TA   | TOMATOES-PASTE  | 22 COOKED-FRESH-BAKED                  | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005TA   | TOMATOES-PASTE  | 31 COOKED-FRESH OR CANNED              | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 11005UA   | TOMATOES-CATSUP | 21 COOKED-NFS                          | 0E0875 | 0.500000        | 0.300000                  | AS DDVP, NOT NAL | 1.00           | 0.003000                         |
| 13013AA   | LETTUCE-LEAFY   | 10 RAW-FRESH OR NFS                    | 0E0875 | 1.000000        | 0.600000                  | AS DDVP, NOT NAL | 1.00           | 0.006000                         |

# ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 328

DATE: 08/05/87

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| CHEMICAL                                                                              |                  | STUDY TYPE                                                                                                        |        | EFFECTS                                                                                                                                          |                           | REFERENCE DOSES                                                                     |                | DATA GAPS/COMMENTS                                                                                |  | STATUS                                                                                             |  |
|---------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 |                  | 2yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) |        | Increased liver weights, enlarged hepatocytes, no effect on CHE activity. Evidence of oncogenicity in rats (pancreas, leuk.) and mice (stomach). |                           | PADI 100<br>OPP RfD= 0.000800<br>EPA RfD= 0.002500<br>WHO RfD 0.004000<br>Type: ADI |                | Chronic feeding- rat (Core-Supplementary)<br>Reproduction (Core-Supplementary)<br>Teratology- rat |  | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |  |
| FOOD CODE                                                                             | FOOD             | FOOD FORM                                                                                                         | PET. # | TOLERANCE (ppm)                                                                                                                                  | ANTICIPATED RESIDUE (ppm) | AR TYPE                                                                             | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm)                                                                  |  |                                                                                                    |  |
| 13020AA                                                                               | LETTUCE-UNSPEC   | 10 RAW-FRESH OR NFS                                                                                               | 0E0875 | 1.000000                                                                                                                                         | 0.600000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.006000                                                                                          |  |                                                                                                    |  |
| 13045AA                                                                               | LETTUCE-HEAD     | 10 RAW-FRESH OR NFS                                                                                               | 0E0875 | 1.000000                                                                                                                                         | 0.600000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.006000                                                                                          |  |                                                                                                    |  |
| 13045AA                                                                               | LETTUCE-HEAD     | 21 COOKED-NFS                                                                                                     | 0E0875 | 1.000000                                                                                                                                         | 0.600000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.006000                                                                                          |  |                                                                                                    |  |
| 14013DA                                                                               | POTATO(MH)-DRY   | 10 RAW-FRESH OR NFS                                                                                               | 0H2477 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 14013DA                                                                               | POTATO(MH)-DRY   | 31 COOKED-FRESH OR CANNED                                                                                         | 0H2477 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 14014AA                                                                               | RADISHES-ROOTS   | 10 RAW-FRESH OR NFS                                                                                               | 0E0875 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 1.00           | 0.005000                                                                                          |  |                                                                                                    |  |
| 15001AA                                                                               | BEANS-DRY-GRT NO | 00 NOT SPECIFIED (NO CONSUMPTION)                                                                                 | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AB                                                                               | BEANS-DRY-KIDNEY | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AB                                                                               | BEANS-DRY-KIDNEY | 31 COOKED-FRESH OR CANNED                                                                                         | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AC                                                                               | BEANS-DRY-LIMA   | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AD                                                                               | BEANS-DRY-NAVY   | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AD                                                                               | BEANS-DRY-NAVY   | 31 COOKED-FRESH OR CANNED                                                                                         | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AE                                                                               | BEANS-DRY-OTHER  | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AE                                                                               | BEANS-DRY-OTHER  | 25 COOKED-FRESH-FRIED                                                                                             | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AE                                                                               | BEANS-DRY-OTHER  | 31 COOKED-FRESH OR CANNED                                                                                         | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15001AF                                                                               | BEANS-DRY-PINTO  | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15006AA                                                                               | PEANUTS-WHOLE    | 10 RAW-FRESH OR NFS                                                                                               | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15006AA                                                                               | PEANUTS-WHOLE    | 21 COOKED-NFS                                                                                                     | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15006AA                                                                               | PEANUTS-WHOLE    | 22 COOKED-FRESH-BAKED                                                                                             | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15007AA                                                                               | PEAS DRY-GARDEN  | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15007AA                                                                               | PEAS DRY-GARDEN  | 31 COOKED-FRESH OR CANNED                                                                                         | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15011AB                                                                               | LENTILES-SPLIT   | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15018AA                                                                               | SUNFLOWER-SEEDS  | 10 RAW-FRESH OR NFS                                                                                               | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15020AA                                                                               | CAROB            | 10 RAW-FRESH OR NFS                                                                                               | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15020AA                                                                               | CAROB            | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15020AA                                                                               | CAROB            | 22 COOKED-FRESH-BAKED                                                                                             | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15022AA                                                                               | BEANS-DRY-BROAD  | 00 NOT SPECIFIED (NO CONSUMPTION)                                                                                 | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15022AA                                                                               | BEANS-DRY-PIGEON | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15026AA                                                                               | SESAME SEEDS     | 10 RAW-FRESH OR NFS                                                                                               | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15026AA                                                                               | SESAME SEEDS     | 22 COOKED-FRESH-BAKED                                                                                             | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15028AA                                                                               | PINEUTS          | 10 RAW-FRESH OR NFS                                                                                               | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15028AA                                                                               | PINEUTS          | 21 COOKED-NFS                                                                                                     | 1F1132 | 2.000000                                                                                                                                         | 2.000000                  |                                                                                     | 7.50           | 0.150000                                                                                          |  |                                                                                                    |  |
| 15030AA                                                                               | BEANS-DRY-HYAC   | 00 NOT SPECIFIED (NO CONSUMPTION)                                                                                 | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15031AA                                                                               | BLIKEYE PEAS-DRY | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15032AA                                                                               | BEANS-DRY        | 21 COOKED-NFS                                                                                                     | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 15032AA                                                                               | BEANS-DRY        | 31 COOKED-FRESH OR CANNED                                                                                         | 1F1132 | 0.500000                                                                                                                                         | 0.500000                  |                                                                                     | 7.50           | 0.037500                                                                                          |  |                                                                                                    |  |
| 16003AA                                                                               | MUSHROOMS        | 10 RAW-FRESH OR NFS                                                                                               | 1E1100 | 0.500000                                                                                                                                         | 0.300000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.003000                                                                                          |  |                                                                                                    |  |
| 16003AA                                                                               | MUSHROOMS        | 21 COOKED-NFS                                                                                                     | 1E1100 | 0.500000                                                                                                                                         | 0.300000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.003000                                                                                          |  |                                                                                                    |  |
| 16003AA                                                                               | MUSHROOMS        | 31 COOKED-FRESH OR CANNED                                                                                         | 1E1100 | 0.500000                                                                                                                                         | 0.300000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.003000                                                                                          |  |                                                                                                    |  |
| 16003AA                                                                               | MUSHROOMS        | 53 COOKED-CANNED-BOILED                                                                                           | 1E1100 | 0.500000                                                                                                                                         | 0.300000                  | AS DDVP,NOT NAL                                                                     | 1.00           | 0.003000                                                                                          |  |                                                                                                    |  |



# ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 328

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| CHEMICAL                                                                              | STUDY TYPE                                                                                                        | EFFECTS                                                                                                                                                         | REFERENCE DOSES                        |                               | DATA GAPS/COMMENTS                                                                                      | STATUS                                                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                       |                                                                                                                   |                                                                                                                                                                 | PADI                                   | 100                           |                                                                                                         |                                                                                                    |
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2yr feeding- dog<br>MOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) | Increased liver weights,<br>enlarged hepatocytes, no<br>effect on CHE activity.<br>Evidence of oncogenicity<br>in rats (pancreas, leuk.)<br>and mice (stomach). | OPP Rfd= 0.000800<br>EPA Rfd= 0.002500 | WHO Rfd 0.004000<br>Type: AD1 | Chronic feeding- rat<br>(Core-Supplementary)<br>Reproduction<br>(Core-Supplementary)<br>Teratology- rat | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |

| FOOD CODE | FOOD              | FOOD FORM                         | PET.#  | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE      | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|-------------------|-----------------------------------|--------|-----------------|---------------------------|--------------|----------------|----------------------------------|
| 24001AA   | BARLEY            | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24002EA   | CORN, GRAIN- ENDO | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002EA   | CORN, GRAIN- ENDO | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002EA   | CORN, GRAIN- ENDO | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002EA   | CORN, GRAIN- ENDO | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002HA   | CORN, GRAIN- BRAN | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002SA   | CORN SUGAR        | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24002SA   | CORN SUGAR        | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24003AA   | OATS              | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 0.260000                  | COOKING DATA | 7.50           | 0.019500                         |
| 24003AA   | OATS              | 23 COOKED-FRESH-BOILED            | 1F1132 | 2.000000        | 0.260000                  | COOKING DATA | 7.50           | 0.019500                         |
| 24004AA   | RICE-ROUGH        | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.010000                  | COOKING DATA | 7.50           | 0.000750                         |
| 24004AA   | RICE-ROUGH        | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.010000                  | COOKING DATA | 7.50           | 0.000750                         |
| 24004AB   | RICE-MILLED       | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.010000                  | COOKING DATA | 7.50           | 0.000750                         |
| 24004AB   | RICE-MILLED       | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.010000                  | COOKING DATA | 7.50           | 0.000750                         |
| 24004AB   | RICE-MILLED       | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.010000                  | COOKING DATA | 7.50           | 0.000750                         |
| 24004AB   | RICE-MILLED       | 31 COOKED-FRESH OR CANNED         | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24005AA   | RYE-ROUGH         | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24005AA   | RYE-ROUGH         | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24005AA   | RYE-GERM          | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24005AA   | RYE-FLOUR         | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24006AA   | SORGHUM           | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24007AA   | WHEAT-ROUGH       | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24007AA   | WHEAT-ROUGH       | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007AA   | WHEAT-ROUGH       | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007AA   | WHEAT-ROUGH       | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007GA   | WHEAT-GERM        | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24007GA   | WHEAT-GERM        | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-BRAN        | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24007HA   | WHEAT-BRAN        | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-BRAN        | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-BRAN        | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-FLOUR       | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24007HA   | WHEAT-FLOUR       | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-FLOUR       | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24007HA   | WHEAT-FLOUR       | 23 COOKED-FRESH-BOILED            | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 24012AA   | MILLET            | 10 RAW-FRESH OR NFS               | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 24012AA   | MILLET            | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  |              | 7.50           | 0.004875                         |
| 25002SA   | BEET SUGAR        | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25002SA   | BEET SUGAR        | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |

# ANTICIPATED RESIDUE INFORMATION FOR CASSELL NUMBER 328

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| CHEMICAL                                                                              | STUDY TYPE                                                                                                         | EFFECTS                                                                                                                                                         | REFERENCE DOSES                                                                     | DATA GAPS/COMMENTS                                                                                        | STATUS                                                                                             |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2yr feeding - dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) | Increased liver weights,<br>enlarged hepatocytes, no<br>effect on the activity.<br>Evidence of oncogenicity<br>in rats (pancreas, leuk.)<br>and mice (stomach). | PADI 100<br>OPP RfD= 0.000800<br>EPA RfD= 0.002500<br>WHO RfD 0.004000<br>Type: ADI | Chronic feeding - rat<br>(Core-Supplementary)<br>Reproduction<br>(Core-Supplementary)<br>Teratology - rat | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |

| FOOD CODE | FOOD             | FOOD FORM                         | PET.#  | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE      | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|------------------|-----------------------------------|--------|-----------------|---------------------------|--------------|----------------|----------------------------------|
| 25002SA   | BEEF SUGAR       | 22 COOKED-FRESH-BAKED             | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25002SA   | BEEF SUGAR       | 31 COOKED-FRESH OR CANNED         | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25003SA   | CANE SUGAR       | 10 RAW-FRESH OR NFS               | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25003SA   | CANE SUGAR       | 21 COOKED-NFS                     | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25003SA   | CANE SUGAR       | 22 COOKED-FRESH-BAKED             | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 25003SA   | CANE SUGAR       | 31 COOKED-FRESH OR CANNED         | 0H2477 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 26001AA   | BUCKWHEAT        | 21 COOKED-NFS                     | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 26001AA   | BUCKWHEAT        | 22 COOKED-FRESH-BAKED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 26001AA   | BUCKWHEAT        | 25 COOKED-FRESH-FRIED             | 1F1132 | 0.500000        | 0.065000                  | COOKING DATA | 7.50           | 0.004875                         |
| 270020A   | CORN, GRAIN-OIL  | 18 PROCESSED OIL                  | 1F1132 | 0.500000        | 0.500000                  |              | 7.50           | 0.037500                         |
| 270030A   | COTTONSEED-OIL   | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270030A   | COTTONSEED-OIL   | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 27004AA   | FLAX SEED        | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270070A   | PEANUTS-OIL      | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 27008AA   | SAFFLOWER-SEED   | 00 NOT SPECIFIED (NO CONSUMPTION) | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270080A   | SAFFLOWER-OIL    | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270090A   | SESAME-OIL       | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270100A   | SOYBEANS-OIL     | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270110A   | SUNFLOWER-OIL    | 18 PROCESSED OIL                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270150A   | COCONUT-OIL      | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270150A   | COCONUT-OIL      | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270150A   | COCONUT-OIL      | 25 COOKED-FRESH-FRIED             | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 270150A   | COCONUT-OIL      | 51 COOKED-CANNED                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AA   | SOYBEANS-UNSPEC  | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOYBEANS-DRY     | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOYBEANS-DRY     | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOYBEANS-DRY     | 23 COOKED-FRESH-BOILED            | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOYBEANS-DRY     | 25 COOKED-FRESH-FRIED             | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOYBEANS-DRY     | 31 COOKED-FRESH OR CANNED         | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AA   | SOY-FL, FULL FAT | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AA   | SOY-FL, FULL FAT | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AA   | SOY-FL, FULL FAT | 31 COOKED-FRESH OR CANNED         | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023AB   | SOY-FL, LOW FAT  | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023WC   | SOY-FL,DEFAT     | 10 RAW-FRESH OR NFS               | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023WC   | SOY-FL,DEFAT     | 21 COOKED-NFS                     | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023WC   | SOY-FL,DEFAT     | 22 COOKED-FRESH-BAKED             | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023WC   | SOY-FL,DEFAT     | 51 COOKED-CANNED                  | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 28023JC   | SOY-FL,DEFAT     | 53 COOKED-CANNED-BOILED           | 1F1132 | 2.000000        | 2.000000                  |              | 7.50           | 0.150000                         |
| 50000DB   | MILK-NON-FAT SOL | 10 RAW-FRESH OR NFS               | 9F0788 | 0.020000        | 0.020000                  |              | 62.60          | 0.012520                         |

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| CHEMICAL                                                                              | STUDY TYPE                                                                                                        | EFFECTS                                                                                                                                          | REFERENCE DOSES                                                                     | DATA GAPS/COMMENTS                                                                                | STATUS                                                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 | 2Yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) | Increased liver weights, enlarged hepatocytes, no effect on CHE activity. Evidence of oncogenicity in rats (pancreas, leuk.) and mice (stomach). | PADI 100<br>OPP RfD= 0.000800<br>EPA RfD= 0.002500<br>WHO RfD 0.004000<br>Type: ADI | Chronic feeding- rat (Core-Supplementary)<br>Reproduction (Core-Supplementary)<br>Teratology- rat | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |

| FOOD CODE | FOOD             | FOOD FORM                                | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|------------------|------------------------------------------|--------|-----------------|---------------------------|---------|----------------|----------------------------------|
| 55000DB   | MILK-NON-FAT SOL | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000DB   | MILK-NON-FAT SOL | 51 COOKED-CANNED                         | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000FA   | MILK-FAT SOLIDS  | 10 RAW-FRESH OR NFS                      | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000FA   | MILK-FAT SOLIDS  | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000FA   | MILK-FAT SOLIDS  | 51 COOKED-CANNED                         | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000SA   | MILK SLUG (LACT) | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55000SA   | MILK SLUG (LACT) | 51 COOKED-CANNED                         | 9F0788 | 0.020000        | 0.020000                  |         | 62.60          | 0.012520                         |
| 55001BA   | BEEF-MEAT BYP    | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001BA   | BEEF-MEAT BYP    | 26 COOKED-FRESH-PICKLED,CORNEED,OR CURED | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001BB   | BEEF-OTH ORGAN   | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001BB   | BEEF-OTH ORGAN   | 51 COOKED-CANNED                         | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001DA   | BEEF-DRIED       | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 10 RAW-FRESH OR NFS                      | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 22 COOKED-FRESH-BAKED                    | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 23 COOKED-FRESH-BOILED                   | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 24 COOKED-FRESH-BROILED                  | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001FA   | BEEF-FAT         | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001KA   | BEEF-KIDNEY      | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001LA   | BEEF-LIVER       | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001LA   | BEEF-LIVER       | 31 COOKED-FRESH OR CANNED                | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001MA   | BEEF-LEAN        | 10 RAW-FRESH OR NFS                      | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001MA   | BEEF-LEAN        | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001MA   | BEEF-LEAN        | 22 COOKED-FRESH-BAKED                    | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001MA   | BEEF-LEAN        | 23 COOKED-FRESH-BOILED                   | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55001MA   | BEEF-LEAN        | 24 COOKED-FRESH-BROILED                  | 9F0788 | 0.020000        | 0.020000                  |         | 16.20          | 0.003240                         |
| 55002BA   | GOAT-MEAT BYP    | 00 NOT SPECIFIED (NO CONSUMPTION)        | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002BA   | GOAT-MEAT BYP    | 00 NOT SPECIFIED (NO CONSUMPTION)        | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002BA   | GOAT-MEAT BYP    | 23 COOKED-FRESH-BOILED                   | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002FA   | GOAT-FAT         | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002FA   | GOAT-FAT         | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002KA   | GOAT-KIDNEY      | 00 NOT SPECIFIED (NO CONSUMPTION)        | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002LA   | GOAT-LIVER       | 00 NOT SPECIFIED (NO CONSUMPTION)        | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002MA   | GOAT-LEAN        | 23 COOKED-FRESH-BOILED                   | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55002MA   | GOAT-LEAN        | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005BA   | SHEEP-MEAT BYP   | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005BA   | SHEEP-OTH ORGAN  | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005FA   | SHEEP-FAT        | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005KA   | SHEEP-KIDNEY     | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005LA   | SHEEP-LIVER      | 00 NOT SPECIFIED (NO CONSUMPTION)        | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 55005MA   | SHEEP-LEAN       | 21 COOKED-NFS                            | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |

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| CHEMICAL          |                           | STUDY TYPE | EFFECTS                   | REFERENCE DOSES   |     | DATA GAPS/COMMENTS   | STATUS                  |
|-------------------|---------------------------|------------|---------------------------|-------------------|-----|----------------------|-------------------------|
| Dichlorvos        | 2Yr feeding- dog          |            | Increased liver weights,  | PADI              | 100 | Chronic feeding- rat | TOX complete 8/15/86.   |
| Caswell #328      | NOEL= 0.0800 mg/kg        |            | enlarged hepatocytes, no  | OPP RfD= 0.000800 |     | (Core-Supplementary) | ORD verified 9/16/86.   |
| CAS No. 62-73-7   | 3.20 ppm                  |            | effect on CHE activity.   | EPA RfD= 0.002500 |     | Reproduction         | WHO last reviewed 1977. |
| A.I. CODE: 084001 | LEL= 0.8000 mg/kg         |            | Evidence of oncogenicity  |                   |     | (Core-Supplementary) | TOX reassess 7/16/87.   |
| CFR No. 180.235   | 32.00 ppm                 |            | in rats (pancreas, leuk.) | WHO RfD 0.004000  |     | Teratology- rat      |                         |
|                   | ONCO: Class B2 (TOX NOTE) |            | and mice (stomach).       | Type: ADI         |     |                      |                         |

| FOOD CODE | FOOD             | FOOD FORM                                | PET.#  | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|------------------|------------------------------------------|--------|-----------------|---------------------------|---------|----------------|----------------------------------|
| 53005MA   | SHEEP-LEAN       | 31 COOKED-FRESH OR CANNED                | 9F0788 | 0.020000        | 0.020000                  |         | 100.00         | 0.020000                         |
| 53006BA   | PORK-MEAT BYP    | 21 COOKED-NFS                            | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006BB   | PORK-OTH ORGAN   | 21 COOKED-NFS                            | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006BB   | PORK-OTH ORGAN   | 26 COOKED-FRESH-PICKLED,CORNEED,OR CURED | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006FA   | PORK-FAT         | 10 RAW-FRESH OR NFS                      | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006FA   | PORK-FAT         | 21 COOKED-NFS                            | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006FA   | PORK-FAT         | 23 COOKED-FRESH-BOILED                   | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006FA   | PORK-FAT         | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006FA   | PORK-KIDNEY      | 26 COOKED-FRESH-PICKLED,CORNEED,OR CURED | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006LA   | PORK-LIVER       | 21 COOKED-NFS                            | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006LA   | PORK-LIVER       | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006LA   | PORK-LEAN        | 21 COOKED-NFS                            | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006LA   | PORK-LEAN        | 25 COOKED-FRESH-FRIED                    | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53006MA   | PORK-LEAN        | 26 COOKED-FRESH-PICKLED,CORNEED,OR CURED | 9F0788 | 0.100000        | 0.100000                  |         | 100.00         | 0.100000                         |
| 53010DA   | FISH,FIN-SLT-DRY | 12 RAW-FRESH-DRIED                       | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 53010DA   | FISH,FIN-SLT-DRY | 21 COOKED-NFS                            | 0H2477 | 0.500000        | 0.500000                  |         | 7.50           | 0.037500                         |
| 55008BA   | TURKEY-BYP       | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008BA   | TURKEY-BYP       | 26 COOKED-FRESH-PICKLED,CORNEED,OR CURED | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008LA   | TURKEY ORGAN     | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008LA   | TURKEY ORGAN     | 25 COOKED-FRESH-FRIED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008MA   | TURKEY W/O SKIN  | 31 COOKED-FRESH OR CANNED                | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008MA   | TURKEY W/O SKIN  | 62 COOKED-FRESH OR FROZEN-BAKED          | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008MA   | TURKEY+SKIN      | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008MB   | TURKEY+SKIN      | 25 COOKED-FRESH-FRIED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55008MC   | TURKEY-UNSPEC    | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55013BA   | POLITRY,OTH-BYP  | 00 NOT SPECIFIED (NO CONSUMPTION)        | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55013LA   | POLITRY,ORGAN    | 25 COOKED-FRESH-FRIED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55013MA   | POLITRY,OTHER    | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AA   | EGGS-WHOLE       | 10 RAW-FRESH OR NFS                      | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AA   | EGGS-WHOLE       | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AA   | EGGS-WHOLE       | 22 COOKED-FRESH-BAKED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AA   | EGGS-WHOLE       | 23 COOKED-FRESH-BOILED                   | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AA   | EGGS-WHOLE       | 25 COOKED-FRESH-FRIED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AB   | EGGS-WHITE ONLY  | 10 RAW-FRESH OR NFS                      | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AB   | EGGS-WHITE ONLY  | 21 COOKED-NFS                            | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AB   | EGGS-WHITE ONLY  | 22 COOKED-FRESH-BAKED                    | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AB   | EGGS-WHITE ONLY  | 62 COOKED-FRESH OR FROZEN-BAKED          | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AB   | EGGS-WHITE ONLY  | 81 COOKED-FROZEN                         | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |

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# ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 328

DATE: 08/05/87

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| CHEMICAL                                                                              |  | STUDY TYPE                                                                                                        |  | EFFECTS                                                                                                                                                         |  | REFERENCE DOSES                                                                     |  | DATA GAPS/COMMENTS                                                                                      |  | STATUS                                                                                             |  |
|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|
| Dichlorvos<br>Caswell #328<br>CAS No. 62-73-7<br>A.I. CODE: 084001<br>CFR No. 180.235 |  | 2yr feeding- dog<br>NOEL= 0.0800 mg/kg<br>3.20 ppm<br>LEL= 0.8000 mg/kg<br>32.00 ppm<br>ONCO: Class B2 (TOX NOTE) |  | Increased liver weights,<br>enlarged hepatocytes, no<br>effect on CHE activity.<br>Evidence of oncogenicity<br>in rats (pancreas, leuk.)<br>and mice (stomach). |  | PAD1 100<br>OPP Rfd= 0.000800<br>EPA Rfd= 0.002500<br>WHO Rfd 0.004000<br>Type: AD1 |  | Chronic feeding- rat<br>(Core-Supplementary)<br>Reproduction<br>(Core-Supplementary)<br>Teratology- rat |  | TOX complete 8/15/86.<br>ORD verified 9/16/86.<br>WHO last reviewed 1977.<br>TOX reassess 7/16/87. |  |

| FOOD CODE | FOOD             | FOOD FORM                                 | PET.#  | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|------------------|-------------------------------------------|--------|-----------------|---------------------------|---------|----------------|----------------------------------|
| 55014AC   | EGGS-YOLK ONLY   | 10 RAW-FRESH OR NFS                       | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AC   | EGGS-YOLK ONLY   | 21 COOKED-NFS                             | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AC   | EGGS-YOLK ONLY   | 25 COOKED-FRESH-FRIED                     | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55014AC   | EGGS-YOLK ONLY   | 31 COOKED-FRESH OR CANNED                 | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015BA   | CHICKEN-BYP      | 00 NOT SPECIFIED (NO CONSUMPTION)         | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015LA   | CHICKEN-ORGAN    | 21 COOKED-NFS                             | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015LA   | CHICKEN-ORGAN    | 25 COOKED-FRESH-FRIED                     | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015LA   | CHICKEN-ORGAN    | 26 COOKED-FRESH-PICKLED, CORNED, OR CURED | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MA   | CHICKEN-W/O SKIN | 21 COOKED-NFS                             | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MA   | CHICKEN-W/O SKIN | 22 COOKED-FRESH-BAKED                     | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MA   | CHICKEN-W/O SKIN | 25 COOKED-FRESH-FRIED                     | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MA   | CHICKEN-W/O SKIN | 31 COOKED-FRESH OR CANNED                 | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MB   | CHICKEN+SKIN     | 21 COOKED-NFS                             | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |
| 55015MB   | CHICKEN+SKIN     | 25 COOKED-FRESH-FRIED                     | 1F1059 | 0.050000        | 0.050000                  |         | 100.00         | 0.050000                         |

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