## Joint Exhibit 32

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

## MEMORANDUM

Date: $\quad$ February 17, 2015

SUBJECT: DCPA (Dacthal): HED Response to Comments on the Residue Chemistry Requirement 860.1900 (Field Accumulation in Rotational Crops) of the Generic Data Call In (GDCI-0798701-1140).

PC Code: 078701<br>Decision Nos.: 496485<br>Petition No.: NA<br>Risk Assessment Type: NA<br>TXR No.: NA<br>MRID No.: NA

DP Barcodes: D423450
Registration No.: NA
Regulatory Action: Response to comments
Case No.: NA
CAS No.: 1861-32-1
40 CFR: 180.185

## FROM:

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THROUGH: Michael Metzger, Branch Chief

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Amvac Chemical Corporation (Amvac) has submitted a response (8/11/2014; No MRID) to Guideline 860.1900 Field Accumulation in Rotational Crop data requirements from a DCPA (Dacthal) Generic Data Call-In (GDCI) notice (GDC1-0798701-1140, dated 1/31/13).

HED had previously responded to Amvac's 90-day and 12-month comments on the residue chemistry aspects of the GDCI [D. Drew, 10/23/2013, D413176, and D. Drew, 7/7/2014, D420907]. More details pertaining to the GDCI 860 guideline data requirements can be found in those documents. In this memorandum, HED is only responding to the residue chemistry justifications presented in the $8 / 11 / 2014$ Amvac letter for the 860.1900 data requirement.

### 860.1900 Field Accumulation in Rotational Crops

Amvac cites two previously submitted limited rotational crop studies (MRID 42155504 and MRID 42298303). These studies have been reviewed by the Agency and have been determined to be scientifically acceptable (W. Smith, D211773, 10/23/95). The study results indicate that since there are measurable residues on rotated crops (residues on some crops were evident up to a 1-year plant back interval (PBI)), rotational crop tolerances are likely needed and that plant back restrictions are required on DCPA labels.

In the current submission (8/11/2014 letter), Amvac has proposed to maintain the current label PBI restriction of 8 months that is in place to prevent crop injury and intends to permit replanting of only those crops that are listed on the label for treatment and for which current tolerances exist. The following wording appears on one label, EPA Reg. No. 481-490:

Replanting crops other than those included on this label in DACTHAL W-75 treated soil within 8 months of application may result in crop injury. If replanting is required because of an early crop failure, the planting of onions, seeded cucurbits, potatoes, tomatoes, eggplants or peppers at this time may result in crop injury. However, all crops on this label may be planted following harvest of a DACTHAL W-75 treated crop.

Based on the available rotational crop data (MRIDs 42155501 and 42298303 ; see Appendix A for a summary), the currently established tolerances (see Appendix B), and in light of the 8 month requirement for crop injury, HED has determined that the following rotational crop restrictions are appropriate: Rotation to a crop with an established tolerance for residues of DCPA (40 CFR 180.185) is permitted with a minimum plant back interval of 8 months; rotation to any other crop is not permitted.

All labels for DCPA use on agricultural crops should be modified to reflect the appropriate rotational crop restrictions. The specific crops and permissible plant back interval are listed in Table 1 below. Provided that the correct label modifications are made, additional field rotational crop data are not needed and the 860.1900 data requirement will be considered fulfilled for DCPA. If rotation to crops without current tolerances for DCPA is desired, full rotational crop studies may be performed at the desired plant back intervals for those crops so that appropriate tolerance levels may be determined.

Table 1. DCPA Rotational Crop Plant Back Restrictions

## ROTATIONAL CROP PLANT BACK RESTRICTIONS

| Minimum 8 Month Plant Back (allowed on the following <br> individual crops with tolerances for DCPA) | Plant Back Not Permitted |
| :--- | :---: |
| -Root and Tuber Vegetables: Celeriac, chicory, ginseng, <br> horseradish, potato, oriental radish, radish, rutabaga, sweet <br> potato, turnip, yam. | Rotation to all other crops <br> not specifically listed in <br> column to the left is |
| prohibited. |  |

-Bulb Vegetables: Chive, bulb onion, green onion, garlic.
-Leafy Vegetables (except Brassica): Lettuce, radicchio.
-Leafy Brassica Vegetables (Crop Group 5): All Brassica vegetables (Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens).
-Legume Vegetables: Blackeyed pea, dry bean, mung bean, snap bean, soybean.
-Fruiting Vegetables: Eggplant, pepper, pimento, tomato.
-Cucurbits: cantaloupe, cucumber, muskmelon, summer squash, watermelon, winter squash.
-Berry and Small Fruit: Strawberry.
-Cereal Grains: Field corn, popcorn, sweet corn.
-Herbs: Basil, coriander, dill, marjoram, parsley.
-Oilseed: Cottonseed.

Appendix A. Residues of DCPA, MTP, and TPA in/on rotational crops following a single application to soil of the $75 \%$ WP at 10.5 lb ai/A ( 1 x to the primary crop).

| Crop Grouping/ Representative Rotational Crop | MRID (Location) | Commodity | $\begin{gathered} \mathrm{PBI}^{\mathrm{a}} \\ \text { (days) } \end{gathered}$ | $\begin{gathered} \mathrm{PTI}^{\mathrm{b}} \\ \text { (days) } \\ \hline \end{gathered}$ | Residues Found (ppm) ${ }^{\text {c }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | DCPA | MTP | $\begin{gathered} \mathrm{TCP} \\ \text { (TPA) } \end{gathered}$ | HCB |
| Root and Tuber <br> Vegetables <br> Carrot | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Roots | 30 | 128 | $\begin{gathered} 0.33 \\ (0.33)^{\mathrm{d}} \end{gathered}$ | $\begin{aligned} & \mathrm{ND}^{\mathrm{c}} \\ & (\mathrm{ND}) \end{aligned}$ | $\begin{gathered} 0.57 \\ (0.56) \end{gathered}$ | $\begin{gathered} 0.0012 \\ (0.0014) \end{gathered}$ |
|  |  |  | 220 | 342 | $\begin{gathered} 0.027 \\ (0.030) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & 0.11 \\ & 0.13 \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 458 | $\begin{gathered} 0.012 \\ (0.012) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{aligned} & \mathrm{ND} \\ & \mathrm{ND} \\ & \hline \end{aligned}$ | $\begin{gathered} 0.0005 \\ (0.0006) \end{gathered}$ |
|  | $\begin{gathered} 42298303 \\ \text { (LA) } \end{gathered}$ | Roots | 29 | 112 | $\begin{array}{r} 1.03 \\ (0.87 \\ 0.96) \\ \hline \end{array}$ | $\begin{aligned} & \text { ND } \\ & (0.011) \end{aligned}$ | $\begin{gathered} 0.13 \\ (0.15) \end{gathered}$ | $\begin{gathered} 0.0015 \\ (0.0016) \end{gathered}$ |
|  |  |  | 103 | 242 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} 0.31 \\ (0.26) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ |
|  |  |  | 355 | 449 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
| Radish | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Roots | 30 | 59 | $\begin{gathered} 0.24 \\ (0.25) \\ \hline \end{gathered}$ | $\begin{gathered} 0.020 \\ (0.021) \\ \hline \end{gathered}$ | $\begin{gathered} 0.054 \\ (0.052) \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { ND } \end{aligned}$ |
|  |  |  | 220 | 248 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \\ \hline \end{gathered}$ | $\begin{aligned} & \mathrm{ND} \\ & \mathrm{ND} \end{aligned}$ |
|  |  |  | 365 | 414 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ 0.0006 \end{gathered}$ |
| Turnip | $\begin{gathered} 42298303 \\ (\mathrm{LA}) \end{gathered}$ | Roots | 29 | 89 | $\begin{gathered} 0.041 \\ (0.045) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 90 | 130 | $\begin{gathered} 0.042 \\ (0.045) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.13 \\ (0.14) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ |
|  |  |  | 355 | 428 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
| Leaves of Root and Tuber Vegetables Carrot | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Leaves | 30 | 128 | $\begin{gathered} 0.25 \\ (0.25) \end{gathered}$ | $\begin{gathered} 0.014 \\ (0.019) \end{gathered}$ | $\begin{gathered} 2.30 \\ (2.13) \end{gathered}$ | $\begin{gathered} 0.0009 \\ (0.0008) \end{gathered}$ |
|  |  |  | 220 | 342 | $\begin{aligned} & 0.014 \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 458 | $\begin{gathered} 0.012 \\ (0.013) \end{gathered}$ | $\begin{aligned} & \mathrm{ND} \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ (0.0006) \end{gathered}$ |
|  | $\begin{gathered} 42298303 \\ \text { (LA) } \end{gathered}$ | Leaves | 29 | 112 | $\begin{gathered} 0.17 \\ (0.19) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.15 \\ (0.15) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.0005 \\ (0.0005) \\ \hline \end{gathered}$ |
|  |  |  | 103 | 204 | $\begin{aligned} & 0.012 \\ & (\mathrm{ND}) \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & 0.090 \\ & (0.11) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 355 | 449 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \hline \mathrm{ND} \\ (\mathrm{ND}, \\ 0.0008, \\ 0.0006) \\ \hline \end{gathered}$ |

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| Crop Grouping/ Representative Rotational Crop | MRID <br> (Location) | Commodity | $\begin{gathered} \mathrm{PBI}^{\mathrm{a}} \\ \text { (days) } \end{gathered}$ | $\begin{gathered} \mathrm{PTI}^{\mathrm{b}} \\ \text { (days) } \\ \hline \end{gathered}$ | Residues Found (ppm) ${ }^{\text {e }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | DCPA | MTP | $\begin{gathered} \text { TCP } \\ \text { (TPA) } \end{gathered}$ | HCB |
| Radish | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Leaves | 30 | 59 | $\begin{gathered} \hline 0.67 \\ (0.74) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.13 \\ (0.13) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.28 \\ (0.27) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \hline \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 220 | 248 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ |
|  |  |  | 365 | 414 | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ (\mathrm{ND}) \end{gathered}$ |
| Turnip | $\begin{gathered} 42298303 \\ (\mathrm{LA}) \end{gathered}$ | Leaves | 29 | 89 | $\begin{gathered} 0.070 \\ (0.071) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} 0.030 \\ (0.026) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 90 | 130 | $\begin{gathered} 0.020 \\ (0.018) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.16 \\ (0.10) \\ \hline \end{gathered}$ | $\begin{gathered} 0.0007 \\ (\mathrm{ND}) \\ \hline \end{gathered}$ |
|  |  |  | 355 | 428 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & 0.013 \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
| Leafy Vegetables (Except Brassica) Lettuce | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Leaves | 30 | 80 | $\begin{gathered} 0.53 \\ (0.47) \\ \hline \end{gathered}$ | $\begin{gathered} 0.47 \\ (0.48) \\ \hline \end{gathered}$ | $\begin{gathered} 1.60 \\ (1.73) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 220 | 380 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ (N D) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \\ \hline \end{gathered}$ |
|  |  |  | 365 | 437 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  | $\begin{gathered} 42298303 \\ (\mathrm{LA}) \end{gathered}$ | Leaves | 29 | 81 | $\begin{gathered} 1.32 \\ (1.28) \\ \hline \end{gathered}$ | $\begin{gathered} 0.058 \\ (0.057) \\ \hline \end{gathered}$ | $\begin{gathered} 0.038 \\ (0.047) \\ \hline \end{gathered}$ | $\begin{gathered} 0.0005 \\ (0,0005) \\ \hline \end{gathered}$ |
|  |  |  | 103 | 162 | $\begin{gathered} 0.021 \\ (0.025) \\ \hline \end{gathered}$ | ND | 0.65 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 355 | 396 | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
| Brassica Leafy Vegetables Mustard | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Leaves | 30 | 73 | $\begin{gathered} 0.19 \\ (0.21) \\ \hline \end{gathered}$ | $\begin{gathered} 0.18 \\ (0.18) \\ \hline \end{gathered}$ | $\begin{gathered} 0.38 \\ (0.34) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 220 | 248 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 414 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  | $\begin{gathered} 42298303 \\ \text { (LA) } \end{gathered}$ | Leaves | 29 | 80 | $\begin{gathered} 0.17 \\ (0.17) \end{gathered}$ | $\begin{gathered} 0.012 \\ (0.014) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.027 \\ (0.027) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 103 | 141 | $\begin{gathered} 0.013 \\ (0.014) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} 0.080 \\ (0.067) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 355 | 410 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ |
| Cereal Grains Field Corn | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Grain | 30 | 152 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 91 | 205 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ 0.010 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 365 | 512 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ |
|  |  | Grain | 29 | 167 | ND | ND | ND | ND |

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| Crop Grouping/ Representative Rotational Crop | MRID <br> (Location) | Commodity | $\begin{gathered} \mathrm{PBI}^{\mathrm{a}} \\ \text { (days) } \end{gathered}$ | $\begin{gathered} \mathrm{PTl}^{\mathrm{b}} \\ \text { (days) } \end{gathered}$ | Residues Found (ppm)e |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | DCPA | MTP | $\begin{gathered} \text { TCP } \\ \text { (TPA) } \end{gathered}$ | HCB |
|  | $\begin{gathered} \hline \hline 42298303 \\ \text { (LA) } \end{gathered}$ |  |  |  | (ND) | (ND) | (ND) | (ND) |
|  |  |  | 90 | 201 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ (0,011) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 374 | 533 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
| Oats | $\begin{array}{\|c} \hline 42155504 \\ (\mathrm{GA}) \end{array}$ | Grain | 213 | 437 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  | $\begin{array}{\|c\|} \hline 42298303 \\ (\mathrm{LA}) \end{array}$ | Grain | 375 | 473 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ |
| Sorghum | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Grain | 91 | 192 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} 0.012 \\ (0.014) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 510 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  | $\begin{array}{\|c} 42298303 \\ \text { (LA) } \end{array}$ | Grain | 103 | 201 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
| Forage, Fodder, and Straw of Cereal Grains Field Corn | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Fodder | 30 | 152 | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} 0.0006 \\ (0.0009) \\ \hline \end{gathered}$ |
|  |  |  | 91 | 205 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.033 \\ (0,035) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 512 | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ (0.010) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ |
|  |  | Silage | 30 | 128 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.10 \\ (0.10) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 463 | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{aligned} & 0.017 \\ & \text { (ND) } \end{aligned}$ | $\begin{aligned} & \hline \text { ND } \\ & \text { (ND) } \end{aligned}$ |
|  | $\begin{gathered} 42298303 \\ (\mathrm{LA}) \end{gathered}$ | Fodder | 29 | 167 | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \\ & \hline \end{aligned}$ | $\begin{gathered} 0.053 \\ (0.058) \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { ND } \\ & \text { (ND) } \\ & \hline \end{aligned}$ |
|  |  |  | 90 | 201 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.010 \\ (0.010) \end{gathered}$ | $\begin{gathered} 0.11 \\ (0.094) \end{gathered}$ | $\begin{gathered} 0.0008 \\ (0.0006) \end{gathered}$ |
|  |  |  | 374 | 564 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  | Silage | 29 | 116 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} 0.046 \\ (0.044) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 90 | 167 | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.11 \\ (0.10) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
|  |  |  | 374 | 481 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ (0.012) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ |
| Oats | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Forage | 213 | 364 | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0,015 \\ (0,020) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  | Straw | 213 | 437 | $\begin{gathered} \hline \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { ND } \\ & \text { (ND) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  | $\begin{gathered} 42298303 \\ (\mathrm{LA}) \end{gathered}$ | Forage | 29 | 74 | $\begin{gathered} 0.095 \\ (0.095) \end{gathered}$ | $\begin{aligned} & 0.010 \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} 0.43 \\ (0.39) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |

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| Crop Grouping/ <br> Representative <br> Rotational Crop | MRID <br> (Location) | Commodity | $\begin{gathered} \mathrm{PBI}^{\mathrm{a}} \\ \text { (days) } \end{gathered}$ | $\begin{gathered} \mathrm{PTI}^{\mathrm{b}} \\ \text { (days) } \\ \hline \end{gathered}$ | Residues Found (ppm) ${ }^{\text {e }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | DCPA | MTP | $\begin{gathered} \text { TCP } \\ \text { (TPA) } \end{gathered}$ | HCB |
|  |  |  | 375 | 410 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.079 \\ \text { (ND, ND, } \\ \mathrm{ND}) \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  | Straw | 29 | 106 | $\begin{gathered} 0.18 \\ (0.16) \\ \hline \end{gathered}$ | $\begin{gathered} 0.015 \\ (0.010) \\ \hline \end{gathered}$ | $\begin{array}{r} 1.20 \\ (0.82) \\ \hline \end{array}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 375 | 473 | $\begin{aligned} & \text { ND } \\ & \text { (ND) } \end{aligned}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
| Sorghum | $\begin{gathered} 42155504 \\ (\mathrm{GA}) \end{gathered}$ | Fodder | 91 | 192 | $\begin{gathered} \text { ND } \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \\ \hline \end{gathered}$ | $\begin{gathered} 0.14 \\ (0.16) \\ \hline \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ |
|  |  |  | 365 | 510 | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \\ \hline \end{gathered}$ |
|  | $\begin{gathered} 42289303 \\ \text { (LA) } \end{gathered}$ | Fodder | 103 | 201 | $\begin{gathered} \mathrm{ND} \\ (\mathrm{ND}) \end{gathered}$ | $\begin{gathered} \text { ND } \\ \text { (ND) } \end{gathered}$ | $\begin{gathered} 0.036 \\ (0.046) \end{gathered}$ | $\begin{gathered} \mathrm{ND} \\ \text { (ND) } \end{gathered}$ |

" $\mathrm{PBI}=$ plant back interval.
${ }^{\text {b }}$ PTI $=$ post treatment interval.
${ }^{6} \mathrm{ND}=$ below the limit of detection ( $<0.0005 \mathrm{ppm}$ for $\mathrm{HCB} ;<0.01 \mathrm{ppm}$ for each DCPA, MTP, and TPA)
${ }^{\text {d }}$ Numbers listed parenthetically represent duplicate extraction and analysis of a single field sample.
${ }^{e}$ DCPA, MTP, and TCP are the only residues of concern. HCB is not a residue of concern.

## Appendix B

## ELECTRONIC CODE OF FEDERAL REGULATIONS e-CFR Data is current as of January 28, 2015

$$
\text { Title } 40 \rightarrow \text { Chapter I } \rightarrow \text { Subchapter E } \rightarrow \text { Part } 180 \rightarrow \text { Subpart C } \rightarrow \S 180.185
$$

## Browse Previous | Browse Next

Title 40: Protection of Environment
PART 180-TOLERANCES AND EXEMPTIONS FOR PESTICIDE CHEMICAL RESIDUES IN FOOD
Subpart C-Specific Tolerances
§180.185 DCPA; tolerances for residues.
(a) General. Tolerances for the combined residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyltetrachloroterephthalate (MTP) and tetrachloroterephthalic acid
(TCP) (calculated as dimethyl tetrachloroterephthalate) are established in or on the following food commodities:

| Commodity | Parts per million |
| :--- | ---: |
| Cantaloupe |  |
| Garlic | 1.0 |
| Ginseng | 1.0 |
| Horseradish | 2.0 |
| Muskmelon | 2.0 |
| Onion, bulb | 1.0 |
| Onion, green | 1.0 |
| Strawberry | 1.0 |
| Tomato | 2.0 |
| Vegetable, brassica, leafy, group 5 | 1.0 |
| Watermelon | 5.0 |

(b) Section 18 emergency exemptions. [Reserved]
(c) Tolerances with regional registrations. Tolerances with regional registration, as defined in §180.1(I), are established for the combined inadvertent residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyl tetrachloroterephthalate acid (MTP) and terachlorophthalic acid (TCP) (calculated as DCPA) in or on the following food commodities:

| Commodity | Parts per million |
| :--- | ---: |
| Radish, roots |  |
| Radish, tops | 2.0 |

(d) Indirect or inadvertent residues. Tolerances are established for the combined indirect or inadvertent residues of the herbicide dimethyl tetrachloroterephthalate (DCPA) and its metabolites monomethyl tetrachloroterephthalate acid (MTP) and terachlorophthalic acid (TCP) (calculated as DCPA) in or on the following food commodities:

| Commodity | Parts per million |
| :--- | ---: |
| Basil, dried leaves | 20.0 |
| Basil, fresh leaves | 5.0 |
| Bean, dry | 2.0 |
| Bean, mung, seed | 2.0 |
| Bean, snap, succulent | 2.0 |
| Celeriac | 2.0 |
| Chicory, roots | 2.0 |
| Chicory, tops | 5.0 |
| Chive | 5.0 |
| Coriander, leaves | 5.0 |
| Corn, field, forage | 0.4 |
| Corn, field, grain | 0.05 |
| Corn, field, stover | 0.4 |
| Corn, pop, forage | 0.4 |
| Corn, pop, grain | 0.05 |
| Corn, pop, stover | 0.4 |
| Corn, sweet, forage | 0.4 |
| Corn, sweet, kernel plus cob with husks removed | 0.05 |
| Corn, sweet, stover | 0.4 |
| Cotton, undelinted seed | 0.2 |
| Cucumber | 1.0 |
| Dill | 5.0 |
| Eggplant | 1.0 |
| Lettuce | 20.0 |
| Marjoram | 5.0 |
| Parsley, dried leaves |  |
|  |  |

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| Parsley, leaves | 5.0 |
| :--- | ---: |
| Pea, blackeyed, seed | 2.0 |
| Pepper | 2.0 |
| Pimento | 2.0 |
| Potato | 2.0 |
| Radicchio | 5.0 |
| Radish, oriental, roots | 2.0 |
| Radish, oriental, tops | 2.0 |
| Rutabaga | 2.0 |
| Soybean | 2.0 |
| Squash, summer | 1.0 |
| Squash, winter | 1.0 |
| Sweet potato | 2.0 |
| Turnip, roots | 2.0 |
| Turnip, tops | 5.0 |
| Yam, true, tuber | 2.0 |

[72 FR 52018, Sept. 12, 2007, as amended at 73 FR 53737, Sept. 17, 2008; 73 FR 80302, Dec. 31. 2008; 74 FR 14744, Apr. 1, 2009]

