2020 Pesticide Safety August 18: WPS, Safety and Pesticide Restrictions in 2020

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WPS, Safety and Pesticide Restrictions in 2020

UMass Cranberry Station
Marty Sylvia
8/18/2020
What’s the plan!?

• MDAR UPDATE
  • Pesticide Audits
  • MDAR website
  • CGA website harvest
• WPS issue
  • Covid cancelled trainings
• Pesticide Reports
• Pesticide Safety
  • Pesticide Tox
  • PPE
  • Equipment
  • Covid
• Pesticide Restrictions (forever changing)
  • OS, Decas, Clement Pappas
  • MRL’s and EU Issues

6:00 WPS, Safety and Pesticide Restrictions in 2020 – Marty
6:30 Intensity, Callisto, Zeus, and Poison Ivy – Katie
7:00 IPM for Tick Management – Blake
7:30 Chemigation Review – John
7:50 Compare Your Pesticide Usage? – Marty
If your three-year recertification cycle ends in Calendar Year (CY) 2020...

• Audit time extending the time permitted to earn credits from June to December 2020

• 12 credits from 7/1/2017-12/31/2020

• Waive the limit on the number of accepted computer-based or online credits or contact hours. Any portion, or all, of the needed training credits, can come from online sources
MDAR Pesticide Program
(Bulletin 2020-07 March 24, 2020)

- Department is working to develop a process whereby pesticide license holders will submit their recertification certificates (credits) via the EEA ePLACE Portal
- This online process will deploy in late summer / early fall of CY 2020
- The Department will use this online process to collect the retraining or recertification training certificates
- **ALL** individuals whose **three-year retraining cycle** ends on July 1, 2020, or later will be required to upload their retraining or recertification certificates (credits) into their EEA ePLACE Portal Accounts as part of their CY 2021 license renewal process
Private Certification Cranberries Audits Category 30

- Sent out by email now
- Must upload before renewing certification
- All growers who 3 year cycle is up this year is audited this year!!
  - 7/1/2017 – 12/31/2020
  - 7/1/2018 - 7/01/2021
  - 7/1/2019 – 7/01/2022
- Need 12 credits in 3 yrs
- Must scan documents and submit

Date or your cycle end is on your certification paperwork

Search your email for ELiPAS to find your certification
Department is working to develop a process whereby pesticide license holders will submit their recertification certificates (credits) via the EEA ePLACE Portal.

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MORE PESTICIDE CREDITS NEEDED?

• UMASS PESTICIDE PROGRAM
• 6 2 credit meetings in September, October
• Online Zoom Meetings, $40 each (2 credit each)
• Not cranberry specific, but credit worthy
• All workshops likely from 7:45am-10:15am.
• You have to pre-register for each workshop
• Once you register - you receive the link

Let me know and I’ll send you the sign up!

martys@umass.edu

• Pesticides and Pollinators Update, Kim Skyrm
• MA Pesticide Laws and Regulations, Taryn LaScola
• Pesticide Respirator Fit Testing, Al Sorenson
• Pesticides and Impacts on Wildlife, Hotze Wijnja
• Fungicides: Modes of Action and Resistance Management, Angela Madeiras
• Special Topics for Pesticide Applicators, Natalia Clifton
MORE PESTICIDE CREDITS NEEDED?

• Let Dawn at CGA know
  • Dawn at 508-726-6052
  • email at
dgatesallen@cranberries.org

CCCGA Bogs Program, 1 credit each

New Release BOGS Online Training
• 8/21 8-9 AM
• 8/26 8-9 AM

Repeat Summer Session:
BOGS Online Basic Training Set-up:
• 9/1 8-9 AM
• 9/8 8-9 AM
But more importantly, if you have the credits...

- If you can’t submit electronically, I can help!!
- I can scan credits, to send off...
- I can troubleshoot the system, if you’re locked out...
- I can dig up old credits if they’re lost... (only cranberry station ones tho!)

- Don’t give up!

- EEA ePLACE Portal is horrible, but don’t be scared to ask for help...

martys@umass.edu
508-265-6921
MDAR Pesticide Program
(Bulletin 2020-09 March 25, 2020)

- Cancelled all Pesticide Exams in March through June
- Drive-in exams in June and July Agawam (5) and Auburn (6)
- “Under Canopies” car exams, July and August in Gardner (7) (Colonial Hotel)
- 40 at a time
- Just 2 spots left in late Aug exam

All Exams and trainings were cancelled
Pesticide Reports are DUE in 13 days!!

• Decas

• Lassonde

• OceanSpray - ePURS

• CCCGA Bogs program
Going into harvest...

GUIDE

COVID-19 Resources for Agriculture

In response to the spread of COVID-19 and the measures being taken to address it, MDAR has compiled a list of resources to keep our agricultural community informed and aware of relevant policies and best practices. Following the guidelines of health and government officials in light of the Coronavirus pandemic, MDAR is temporarily limiting face-to-face meetings, visits to farms, educational events, etc. We will work with farmers and our agricultural stakeholders via phone, email, and webinar to ensure that work continues to move forward.
Cranberry Harvest Recommendations During the Coronavirus Pandemic

• PPE
• Social Distancing
• Internal Procedure
• Signage
• Employees and Employee Hygiene
• Sanitation

• Visit the CCCGA website to review the guidelines and the associated materials
• CCCGA members that need your secure user name for accessing the website, contact Bonnie at bsoule@cranberries.org or 508-866-7878 ext 12
WPS Handler Trainings 2020

◆ At the UMass Cranberry Station Library

◆ Last Wednesday of spring months  2-4 PM
  - April 25
  - May 30
  - June 27

◆ Send any workers, weeders, scouts, mechanics

◆ Training only good for 1 year

◆ $10 cost
WPS Worker Protection Standard

Requires training annually

SMALL GROUP

USE ZOOM OR VIDEO

If you put a spray on within 30 days of harvest, then harvest crew need WPS worker training!!
You Can Do It!!

- Private Certification License
- Use existing training materials
- Keep a record of the training:
  - Individual name & signature
  - Trainer name & qualification
  - Date of training
  - Employer Name
  - How training was given

YOU can play the Vimeo or youtube Video for workers!!
And familiarize workers with your particular setup!!
Personal Protective Equipment
Worker Protection Regulations...

• Must be provided by employer
  “Companies are required to make available to all workers whatever protective equipment is required for handling the chemicals they use”
• PPE should be identified
• Training should be provided
• Company should implement and enforce PPE program
• Company should implement and enforce a COVID program
PPE: Personal Protective Equipment

- Coveralls
- Gloves
- BOOTS
- Eyewear
- Respirator
- Apron
- Hat

still the best way to reduce exposure and reduce your risk!

When handling any pesticides at the very least...

- long-sleeved shirt
- long pants
- shoes and socks (boots are wiser)
- gloves

Altacor
Avaunt
Actara
Delegate
Intrepid
Badge
Bravo Weatherstik
QuadrisTop
Indar
Phiticide, Rampart
Callisto, Explorer, Sotrion
Devrinol
Roundup
GLOVES, GLOVES, GLOVES

Chemically Resistant
- Wash the gloves on your hands
- Wash your hands
- If you plan to use again - wash in bucket of heavy-duty detergent solution right away
- Most pesticides calls for gloves!!
- Many specify >14 mil thickness!!

4 mil – very thin

Disposable Nitrile gloves

$0.10 cents

Thickest Nitrile
17 mil – thicker

47 mil

$1.00 each

Neoprene

$9-10.00 each

Natural or butyl rubber

Barrier laminate
CHEMICAL RESISTANT FOOTWEAR

• SHOES
  • SNEAKERS
  • LEATHER
  • CANVAS
  • FABRIC
  • SANDALS

VINYL BOOTS

PVC BOOTS

Chemical Resistant Shoes
Chemical Resistant Boots
Chemical Resistant Shoe Covering
EYEWEAR

• If protective eyewear is required by the labeling, the employer must provide water for emergency eye flushing for handlers at pesticide mixing/loading sites
  • Specific amounts of water to be used for routine washing, emergency eye flushing and other decontamination, including eye wash systems for handlers at pesticide mixing/loading sites

• Provide water for decontamination
  • Required water available
  • 1 gallon per worker, 3 gallons per handler

• Eyewash water available for handlers
  • 6 gallons of water available at mix/load sites
  • if product requires eye protection

Diazinon AG500 + AG600 but not 50W
Bravo – Chlorothalonils
  • Bravo Ultrex, Echo 720, Equus 720,
  • Chloronil 720, Initiate 720 but not Bravo Weatherstik

Champ Formula 2 - but not Badge or Kocide 3000
Chlorpyrifos 4E-AG but not Lorsban Advanced

Penncozeb 75DF but not Manzates or Dithanes
Pyramite/Nexter – Pyridaben
2,4-D granular, Weedar 64
Rimon – Novaluron but not Cormoron

Intensity and Intensity One
Phostrol, Rampart (but not Phiticide!)
Look at what compounds you will be using to decide what kind of respirator to use.

- Bravo Ultrex
- Ferbam
- Nexter
- Sevin XLR
- Sevin 4F
- Carbaryl 4L
- Lorsban 75WG
- Penncozeb 80WP

NIOSH approved particulate respirator with any N, R, or P filter (NIOSH approval number prefix TC-84A); or a NIOSH approved powered air purifying respirator with an HE filter (NIOSH approval number prefix TC-21C).

- Lorsban advanced
- Lorsban 4E
- Chlorpyrifos 4E-AG
  - Oil-based, no N filter
- Diazinon AG500
- Diaz AG600
- Diaz 50W
- Echo 720
- Echo ZN
- Echo 90DF
- Imidan 70W

A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, or P, or HE prefilter.

- Oil-based, no N filter
PPE shortage as a result of the COVID-19 pandemic

- CCCGA and MDAR have made availability of PPE for this a high priority
- You need to make getting PPE supplies a priority
Decontamination supplies
DIAZINON

- Closed system
- Powered air purifying respirator

50W - Water-Soluble Bags
- 4-6 lb/A

When using water soluble bags
- Long sleeve shirt/long pants
- Shoes plus socks
- Chemical resistant gloves
- Chemical resistant apron

When cleaning
- Coverall over long sleeve shirt/long pants
- Chemical resistant gloves
RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATORS CERTIFICATION.

DIAZINON
AG600 WBC
Insecticide

Water-Based Concentrate

For control of certain insects on fruits, nuts, vegetables, and ornamentals grown outdoors in nurseries.

Active Ingredient:
Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate .................................................. % BY WT. 56.0%
inert Ingredients: .................................................................................................. 44.0%
Total ........................................................................................................ 100.0%

Shake contents well before using.
KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Do not contaminate food or feed. Food utensils, such as teaspoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not permit children or pets to contact treated areas until spray has dried. Do not contaminate ornamental fishponds.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Some materials that are chemical-resistant to this product are made of any waterproof material. Mixers, loaders, applicators, and other handlers using engineering controls must wear:
• Long-sleeved shirt and long pants
• Shoes plus socks
• Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils
• Chemical resistant apron if mixing or loading
Diazinon AG500

Some materials that are chemical resistant to this product are listed below:
- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made of barrier laminate
- Chemical-resistant apron if mixing

See engineering controls for Handlers and mixers.

POWERED AIR PURIFYING CANISTER-TYPE RESPIRATOR (gas-mask) equipped with an organic vapor cartridge

3:1 ratio Using water-based 600

Diazinon Acres Treated

- Engineering controls??
- We have none in cranberry


DIAZ 600

DIAZ 500

Plot Area

Powered air purifying canister-type respirator (gas-mask) equipped with an organic vapor
Posting is only necessary for compounds that are classified as Danger or have over a 48 hour REI

- Bravo Ultrex
- Echo 90DF
- Diaz 50W
- Diaz AG500
- Diaz AG600
- Imidan 70-W
- Weedar 64, 2-4 D
- Badge
- Champ WG
- Kocide 2000
- ManKocide
- Nu-Cop 3L
- Nu-Cop 50DF
- Nu-Cop HB
- Ridomil, Ultra Flourish
- Metastar - mefonoxams
If applicator sees someone within the AEZ, applicator must SUSPEND application.
Application Exclusion Zone
AEZs in Outdoor Areas

Applied:
- Aerially
- Air blast
- Fine or smaller droplet size
- Medium or larger droplet size
- >12” off ground

Applied as a:
- Fumigant
- Smoke
- Mist
- Fog

Entire chemigation line
Pesticide Reports are DUE in 13 days!!

- Decas
- Lassonde
- OceanSpray - ePURS
- CCCGA Bogs program
Pesticide Restrictions

• Label restrictions
• Handler restrictions
**Restrictions for a reason**

Reason is usually residues

---

**Export Qualified Fruit – Processed & Fresh**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Trade Name</th>
<th>Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>mancozeb</td>
<td>MANEB/MANZATE/DITHANE</td>
<td>85d PHI and No use allowed after July 15th or 50% Out-of-Bloom, whichever comes first</td>
</tr>
<tr>
<td>ferbam</td>
<td>FERBAM</td>
<td>85d PHI and No use allowed after July 15th or 50% Out-of-Bloom, whichever comes first</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Active Ingredient</th>
<th>Most Common Trade Name</th>
<th>Use Allowed</th>
<th>PHI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorothalonil</td>
<td>Bravo</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Difenconazole</td>
<td>Quadris Top</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>EBDC’s</td>
<td>Dithane/Mancozeb</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Fluoxastrobine</td>
<td>Evito</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Ferbam</td>
<td>Ferbam</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Isofetamid</td>
<td>Kenja</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Prothioconazole</td>
<td>Proline</td>
<td>Y</td>
<td>45</td>
</tr>
</tbody>
</table>
**EBDC’s**

- ethylene bisdithiocarbamate
- Manzate
- Mancozeb
- Maneb
- Dithane
- Broad spectrum
- Breaks down to carcinogen ETU (ethylene thiourea)

**PPE for EBDC’s =**
- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves

### Crops Affected by EPA’s Proposed Regulatory Decision on the EBDC Pesticides

#### Uses Proposed to be Retained:

<table>
<thead>
<tr>
<th>Almonds</th>
<th>Onions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asparagus</td>
<td>Peanuts</td>
</tr>
<tr>
<td><strong>Cranberries</strong></td>
<td>Sugar Beets</td>
</tr>
<tr>
<td>Figs</td>
<td>Sweet Corn</td>
</tr>
<tr>
<td>Grapes</td>
<td>Wheat</td>
</tr>
</tbody>
</table>

#### Uses Proposed to be Cancelled:

<table>
<thead>
<tr>
<th>Apples</th>
<th>Broccoli</th>
<th>Peppers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apricots</td>
<td>Brussels Sprouts</td>
<td>*Potatoes</td>
</tr>
<tr>
<td>*Bananas</td>
<td>Cabbage</td>
<td>Rhubarb</td>
</tr>
<tr>
<td>Barley</td>
<td>Cantaloupe</td>
<td>Rye</td>
</tr>
<tr>
<td>Casaba Melons</td>
<td>Carrots</td>
<td>Squash</td>
</tr>
<tr>
<td>Crenshaw Melons</td>
<td>Cauliflower</td>
<td>Spinach</td>
</tr>
<tr>
<td>Cucumbers</td>
<td>Celery</td>
<td>*Tomatoes</td>
</tr>
<tr>
<td>Eggplant</td>
<td>Collards</td>
<td>Turnips</td>
</tr>
<tr>
<td>Endive</td>
<td>Mustard Greens</td>
<td>Watermelon</td>
</tr>
<tr>
<td>Lettuce</td>
<td>Nectarines</td>
<td>Field Corn</td>
</tr>
<tr>
<td>Pineapple</td>
<td>Oats</td>
<td>Cotton</td>
</tr>
<tr>
<td>Pumpkin</td>
<td>Papaya</td>
<td>Crabapple/Quince</td>
</tr>
<tr>
<td><strong>Green and Dried Beans</strong></td>
<td>Peaches</td>
<td>Fennel</td>
</tr>
<tr>
<td>Lima Beans</td>
<td>Pears</td>
<td>Honeydew Melon</td>
</tr>
<tr>
<td>Kohlrabi</td>
<td>Pecans</td>
<td>Kale</td>
</tr>
</tbody>
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EBDC’s

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- Broad spectrum
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PPE for EBDC’s =
- Long-sleeved shirt and long pants
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- Chemical-resistant gloves

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- Cranberries
- Figs
- Grapes
- Onions
- Peanuts
- Sugar Beets
- Sweet Corn
- Wheat

Uses Proposed to be Cancelled:

- Apples
- Apricots
- *Bananas
- Barley
- Casaba Melons
- Crenshaw Melons
- Cucumbers
- Eggplant
- Endive
- Lettuce
- Pineapple
- Pumpkin
- Green and Dried Beans
- Lima Beans
- Kohlrabi

Crops Affected by EPA’s Proposed Regulatory Decision on the EBDC Pesticides

On the market since 1930’s and 40’s
- EPA review in 1987 resulted in many uses lost in 1989
- Cancer, thyroid disorders and birth defects