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## 2013 Chart Book: Cautions

University of Massachusetts Amherst Cranberry Station

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## i Cautions

### CAUTIONS

#### Fungicides

<u>Product</u>	<u>Maximum allowable formulation</u>	<u>Pre-harvest interval (PHI) (days)</u>	<u>Restricted entry interval</u>	<u>Maximum number of applications</u>
<b>CHLOROTHALONILS (*Restricted Use)</b>				
Bravo Ultrex	18 lb	50 days	12 hrs	3
Bravo Weather Stik	19.5 pt	50 days	12 hrs	3
Chloronil 720	19.5 pt	50 days	12 hrs	3
Chlorothalonil 720 SC	19.5 pt	50 days	12 hrs	3
Echo 90DF	17.25 lb	50 days	12 hrs	3
Echo 720	21 pt	50 days	12 hrs	3
Equus DF	18 lb	50 days	12 hrs	3
Equus 500 ZN	27.75 pt	50 days	12 hrs	3
Equus 720 SST	19.5 pt	50 days	12 hrs	3
<b>COPPERS (copper hydroxide)</b>				
Badge SC	21 pt	No PHI	48 hrs	3
Champ DP Dry Prill	28 lb	No PHI	48 hrs	5
Champ Formula 2 Flowable	26.6 pt	No PHI	48 hrs	5
Champ WG	12.6 lb	No PHI	48hrs	3
Copper-Count-N	24 qt	No PHI	12 hrs	3
Cuprofix MZ Disperss	42 lb	30 days	24 hrs	3
Cuprofix Ultra 40 Disperss	15 lb	No PHI	48 hrs	3
Kocide 2000	30 lb	No PHI	48 hrs	5
Kocide 3000	17.5 lb	No PHI	48 hrs	5
Nordox	24 lb	No PHI	24 hrs	3
Nordox 75 WG	15 lb	No PHI	12 hrs	3
Nu-Cop HB	12.6 lb	No PHI	48 hrs	3
Nu-Cop 3L	17 pt	No PHI	48 hrs	3
Nu-Cop 50 DF	24 lb	No PHI	24 hrs	3
Top Cop with Sulfur	6 qt	No PHI	24 hrs	3
3 lb Copper Flowable	32 pt	No PHI	24 hrs	3
<b>MANCOZEB (EBDC'S)</b>				
Dithane DF RainShield	18 lb	30 days	24 hrs	3
Dithane F-45 Rainshield	14.4 qt	30 days	24 hrs	3
Dithane M-45	18 lb	30 days	24 hrs	3
ManKocide	21 lb	30 days	48 hrs	3
Manzate Flowable	14.4 qt	30 days	24 hrs	3
Manzate Pro-Stick	18 lb	30 days	24 hrs	3
Penncozeb 4 FL	14.4 qt	30 days	24 hrs	3
Penncozeb 75DF or 80WP	18 lb	30 days	24 hrs	3
<b>Other Products</b>				
Abound (azoxystrobin)	93 oz	3 days	4 hrs	6
Aliette WDG (fosetyl-al)	20 lb	3 days	12 hrs	4
Ferbam Granuflo (ferbam)	30 lb	50 days	24 hrs	5
Indar 2F (fenbuconazole)	48 oz	30 days	12 hrs	4
Indar 75 WSP (fenbuconazole)	16 oz	30 days	12 hrs	4
Legion 80WDG (aluminum-tris)	20 lb	3 days	12 hrs	4
Phostrol (phosphites)	24 pt	3 days	4 hrs	4
ProPhyt (phosphites)	12 pt	No PHI	4 hrs	3
Ridomil Gold GR (mefenoxam)	105 lb	45 days	48 hrs	3
Ridomil Gold SL (mefenoxam)	5.25 pt	45 days	48 hrs	3
Ultra Flourish (mefenoxam)	10.5 pt	45 days	48 hrs	3

**CAUTIONS**

<b><u>Insecticides</u></b>	<b>Maximum actual toxicant/A</b>	<b>Pre-harvest interval (PHI)</b>	<b>Restricted entry interval (REI)</b>	<b>Maximum number of applications</b>
Actara (thiamethoxam)**	0.188 lbs	30 days	12 hrs	(12 oz/A)***
Admire (imidacloprid)	0.5 lbs	30 days	12 hrs	(0.5 lb ai/A)***
Altacor (chlorantraniliprole)	0.2 lbs	1 day	4 hrs	3 (9 oz/A)
Assail (acetamiprid)	0.26 lbs	1 day	12 hrs	2
Avaunt (indoxacarb)	0.44 lbs	30 days	12 hrs	(24 oz/A)***
Belay (clothianidin)	0.2 lbs	21 days	12 hrs	(12 fl oz/A)***
<i>B.t.</i> based products	NA	No PHI	4 hrs	-
Confirm (tebufenozide)	1 lb	30 days	4 hrs	4
Delegate (spinetoram)	0.305 lbs	21 days	4 hrs	6
Diazinon*	12 lb	7 days	5 days	3
Imidan (phosmet)	15.6 lbs	14 days	24 hrs/3 days	(15.6 lb/A)***
Intrepid (methoxyfenozide)**	1 lb	14 days	4 hrs	(64 fl oz/A)***
Lorsban (chlorpyrifos)*	1.5 lbs	60 days	24 hrs	2
Nematodes	-	No PHI	0 hrs	-
Nexter (pyridaben)	1 lb	21 days	12 hrs	2
Oberon (spiromefesin)	0.75 lb	3 days	12 hrs	3
Orthene (acephate)	1 lb	90/75 days	24 hrs	1
Pyrenone or Pyronyl	60% PBO + 6% Pyrethrins	No PHI	12 hrs	-
Sevin (carbaryl)	4 lb	7 days	12 hrs	5
SpinTor (spinosad)	0.45 lbs	3 days	4 hrs	6

\* = restricted use pesticide, requires a pesticide license to buy and apply.

\*\* = Zone II restricted and restricted use, requires a pesticide license to buy and apply.

\*\*\* = No specific application limitations except the total amount applied per acre.

<b><u>Herbicides</u></b>	<b>Maximum allowable formulation</b>	<b>Pre-harvest interval (PHI) (days)</b>	<b>Restricted entry interval (REI)</b>	<b>Maximum number of applications</b>
Callisto (mesotrione)	16 oz	45 days	12 hrs	2
Casoron 4G (dichlobenil)	100 lb	N/A	12 hrs	N/A
Devrinol 50DF (napropamide)	18 lb	N/A	24 hrs	3
Evital 5G (norflurazon)	160 lb	N/A	12 hrs	1
Fusilade (fluazifop)	N/A	1 year	12 hrs	N/A
Poast (sethoxydim)	5 pt	60 days	12 hrs	N/A
QuinStar 4L (quinclorac)	16.8 oz	60 days	12 hrs	2
Reglone (diquat dibromide)	N/A	1 year	when dry	N/A
Roundup, Rodeo (glyphosate)	N/A	30 days	12 hrs	N/A
Roundup Weather Max (glyphosate)	N/A	30 days	4 hrs	N/A
Select Max (clethodim)	64 oz	30 days	24 hrs	N/A
Stinger (clopyralid)	16 oz	50 days	12 hrs	2
Weedar 64*	N/A	30 days	48 hrs	1
2,4-D granular*	N/A	N/A	12 hrs	N/A

**Recommended water-holding times:** (Check the label on the product you are using to verify information.)

At least 1 day: Avaunt

At least 3 days: Chlorothalonil products (e.g., Bravo), Nexter, and Diazinon.

At least 5 days: Chlorpyrifos (e.g., Lorsban) products and Actara.

At least 14 days: Abound fungicide.

**Time Needed for Certain Pesticides to be Rainfast**

Roundup	6 hr	Callisto	4 hr	Poast	1 hr
Confirm, Intrepid	6 hr	Roundup WeatherMax	1-2 hr	Select Max	1 hr
				SpinTor	5 hr