

3-30-2018

2018-2020 Chart Book: Cautions

Hilary A. Sandler

University of Massachusetts - Amherst, hsandler@umass.edu

Follow this and additional works at: <https://scholarworks.umass.edu/cranchart>



Part of the [Agriculture Commons](#)

Sandler, Hilary A., "2018-2020 Chart Book: Cautions" (2018). *Cranberry Chart Book - Management Guide*. 257.
Retrieved from <https://scholarworks.umass.edu/cranchart/257>

This Teaching is brought to you for free and open access by the Cranberry Station Outreach and Public Service Activities at ScholarWorks@UMass Amherst. It has been accepted for inclusion in Cranberry Chart Book - Management Guide by an authorized administrator of ScholarWorks@UMass Amherst. For more information, please contact scholarworks@library.umass.edu.

2 CAUTIONS

CAUTIONS

Fungicide Products	Maximum allowable formulation	Preharvest interval (PHI)	Restricted entry interval (REI)	Maximum number of applications
CHLOROTHALONILS (*Restricted Use)				
Bravo Ultrex, Equus DF	18 lb	50 days	12 hrs	3
Bravo Weather Stik, Chloronil 720	20 pt	50 days	12 hrs	3
Chlorothalonil 720 SC, Echo 720	20 pt	50 days	12 hrs	3
Equus 720 SST, Initiate 720	20 pt	50 days	12 hrs	3
Echo 90DF	17.25 lb	50 days	12 hrs	3
Equus 500 ZN, Initiate ZN, Echo Zn	29 pt	50 days	12 hrs	3
COPPERS (copper hydroxide)				
Badge X2	10.5 lb	No PHI	48 hrs	3
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	48 hrs	3
Copper-Count-N	24 qt	No PHI	48 hrs	3
Cuprofix Ultra 40 Dispers	15 lb	No PHI	48 hrs	3
Kentan DF	15.75 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
MasterCop	9 pt	No PHI	48 hrs	3
Nordox	24 lb	No PHI	24 hrs	3
Nordox 75 WG	15 lb	No PHI	12 hrs	3
Nu-Cop HB, Nu-Cop 50 DF	12.6 lb	No PHI	48 hrs	3
Nu-Cop 3L	17 pt	No PHI	48 hrs	3
Top Cop with Sulfur	6 qt	No PHI	24 hrs	3
MANCOZEB (EBDC'S)				
Dithane F-45 Rainshield	14.4 qt	30 days	24 hrs	3
Dithane M-45, Koverall	18 lb	30 days	24 hrs	3
Ferbam Granuflo (ferbam)	30 lb	50 days	24 hrs	5
ManKocide	21 lb	30 days	48 hrs	3
Manzate Flowable, Manzate Max	14.4 qt	30 days	24 hrs	3
Manzate Pro-Stick	18 lb	30 days	24 hrs	3
Penncozeb 75DF or 80WP	18 lb	30 days	24 hrs	3
Roper DF Rainshield	18 lb	30 days	24 hrs	3
NEWER PRODUCTS				
Abound, Satori (azoxystrobin)	92.3 fl oz	3 days	4 hrs	6
Aftershock, Evito (fluoxastrobin)	22.8 fl oz	1 day	12 hrs	4
Indar 2F (fenbuconazole)	48 fl oz	30 days	12 hrs	4
Oso (polyoxin D zinc salt)	78 fl oz	No PHI	4 hrs	6
Ph-D (polyoxin D zinc salt)	18.6 oz	No PHI	4 hrs	3
Proline (prothioconazole)	10 fl oz	45 days	12 hrs	2

Fungicide Products (cont.)	Maximum allowable formulation	Preharvest interval (PHI)	Restricted entry interval (REI)	Maximum number of applications
PHOSPHONATES FUNGICIDES				
Aliette WDG (fosetyl-al)	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
Alude, Confine Extra (phosphites)	N/A	No PHI	4 hrs	N/A
Fosphite, Fungi-phite (phosphites)	N/A	No PHI	4 hrs	N/A
K-Phite, Phiticide (phosphites)	N/A	No PHI	4 hrs	N/A
Oxiphos, Rampart (phosphites)	N/A	No PHI	4 hrs	N/A
Reliant, Reveille (phosphites)	N/A	No PHI	4 hrs	4, N/A
PHENYLAMIDES FUNGICIDES				
Metastar 2EC (metalaxyl)	21 pt	45 days	48 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

Insecticide Products	Maximum active ingredient (a.i.)	Preharvest interval (PHI)	Restricted entry interval (REI)	Maximum number of applications
Actara (thiamethoxam)**	0.188 lb	30 days	12 hrs	12 oz/A***
Admire and others (imidacloprid)	0.5 lb	30 days	12 hrs	0.5 lb ai/A***
Altacor (chlorantraniliprole)	0.2 lb	1 day	4 hrs	3 or 9 oz/A
Assail, Anarchy (acetamiprid)	0.26 lb	1 day	12 hrs	2
Avaunt (indoxacarb)	0.44 lb	30 days	12 hrs	24 oz/A***
Belay (clothianidin)	0.2 lb	21 days	12 hrs	12 fl oz/A***
<i>B.t.</i> based products	N/A	No PHI	4 hrs	-
Closer (sulfoxaflor)	0.266 lb	1 day	12 hrs	4
Confirm (tebufenozide)	1 lb	30 days	4 hrs	4
Cormoran (novaluron/acetamiprid)	0.23 lb/0.26 lb	1 day	12 hrs	35 fl oz/A***
Delegate (spinetoram)	0.305 lb	21 days	4 hrs	6
Diazinon*	9 lb	7 days	5 days	3
Entrust (spinosad)	0.45 lb	21 days	4 hrs	6
Imidan (phosmet)	10.92 lb ai	14 days	3 days	15.6 lb/A***
Intrepid and others (methoxyfenozide)**	1 lb	14 days	4 hrs	64 fl oz/A***
Lorsban and others (chlorpyrifos)*	3 lb	60 days	24 hrs	2
Movento (spirotetamat)	0.47 lb	7 days	24 hrs	30 fl oz/A***
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
Pyganic (pyrethrins)	0.05 lb	No PHI	12 hrs	-
Rimon (novaluron)	0.23 lb	1 day	12 hrs	36 fl oz/A***
Sevin, Carbaryl (carbaryl)	10 lb	7 days	12 hrs	5

* = restricted use pesticide, requires a pesticide certification 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.

4 CAUTIONS

Herbicide Products	Maximum allowable formulation	Preharvest interval (PHI)	Restricted entry interval (REI)	Maximum number of applications
Aim (carfentrazone)	6.1 fl oz	0 days	12 hrs	N/A
Callisto, Explorer, etc. (mesotrione)	16 fl oz	45 days	12 hrs	2
Casoron 4G (dichlobenil)	100 lb	N/A	12 hrs	N/A
Devrinol DF-XT (napropamide)	18 lb	N/A	24 hrs	1
Devrinol 2XT (napropamide)	18 qt	N/A	24 hrs	1
Evital 5G (norflurazon)	160 lb	N/A	12 hrs	1
Poast (sethoxydim)	5 pt	60 days	12 hrs	N/A
QuinStar 4L (quinclorac)	16.8 fl oz	60 days	12 hrs	2
Reglone (diquat dibromide)	N/A	1 year	when dry	N/A
Roundup Weather Max (glyphosate)	N/A	30 days	4 hrs	N/A
Select Max, Intensity One (clethodim)	64 fl oz	30 days	24 hrs	N/A
Simazine (simazine)	4 qt	N/A	12 hrs	1
Stinger, Spur (clopyralid)	16 fl 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)

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 and Satori

All chlorothalonil products (Bravo, etc.), Diazinon, Imidan, Lorsban, and Nexter are extremely toxic to fish and can cause fish kills. Abound, Avaunt, copper fungicides, Indar, mancozeb, and Sevin are also toxic to fish.

To avoid contamination, do not clean equipment or dispose of waste near open water. Drift, runoff, or release of contaminated ditch water from treated areas may be hazardous to fish or other aquatic organisms in adjacent aquatic sites. Following any pesticide applications, hold water as long as possible.

Time Needed for Certain Pesticides to be Rainfast

Callisto	4 hr
Confirm	6 hr
Intrepid	6 hr
Nexter	5 hr
Poast	1 hr
QuinStar 4L	6 hr
Roundup	6 hr
Roundup WeatherMax	1-2 hr
Select Max	1 hr
Stinger	5 hr