

2011

2011 Chart Book: Cautions

University of Massachusetts Amherst Cranberry Station

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University of Massachusetts Amherst Cranberry Station, "2011 Chart Book: Cautions" (2011). *Cranberry Chart Book - Management Guide*. 123.

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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>
CHLOROTHALONILS (*Restricted Use)				
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
COPPERS (copper hydroxide)				
Champ DP Dry Prill	28 lb	No PHI	24 hrs	5
Champ Formula 2 Flowable	26.6 pt	No PHI	24 hrs	5
Champ WG	40 lb	No PHI	24 hrs	5
Copper-Count-N	24 qt	No PHI	12 hrs	3
Cuprofix MZ Disperss	42 lb	30 days	24 hrs	3
Cuprofix Ultra 40 Disperss	15.75 lb	30 days	48 hrs	3
Kocide DF	24 lb	No PHI	24 hrs	3
Kocide 2000	18 lb	No PHI	48 hrs	3
Kocide 3000	10.5 lb	No PHI	24 hrs	3
Nu-Cop HB	12 lb	No PHI	24 hrs	3
Nu-Cop 3L	32 pt	No PHI	24 hrs	3
Nu-Cop 50 DF or 50 WP	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
MANCOZEB				
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	96 lb	30 days	24 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
MANEB				
Maneb 75 DF, Maneb 80 DF	18 lb	30 days	24 hrs	3
Other Products				
Abound (azoxystrobin)	92.3 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
Phostrol (phosphites)	24 pt	3 days	4 hrs	4
Pro Phyt (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

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<u>Insecticides</u>	<u>Maximum actual toxicant/A</u>	<u>Pre-harvest interval (PHI)</u>	<u>Restricted entry interval (REI)</u>	<u>Maximum number of applications</u>
Actara (thiamethoxam)**	0.188 lbs	30 days	12 hrs	(12 oz)***
Admire (imidacloprid)	0.5 lbs	30 days	12 hrs	(0.5 lb ai/A)***
Assail (acetamiprid)	0.26 lbs	1 day	12 hrs	2
Avaunt (indoxacarb)	0.44 lbs	30 days	12 hrs	(24 oz)***
Belay (clothianidin)	0.2 lbs	21 days	12 hrs	(12 fl oz)***
<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)***
Intrepid (methoxyfenozide)**	1 lb	14 days	4 hrs	(64 fl oz)***
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.

<u>Herbicides</u>	<u>Maximum allowable formulation</u>	<u>Pre-harvest interval (PHI) (days)</u>	<u>Restricted entry interval</u>	<u>Maximum number of applications</u>
Callisto (mesotrione)	16 oz	45 days	12 hrs	2
Casoron (dichlobenil)	100 lb	N/A	12 hrs	N/A
Devrinol 50DF (napropamide)	18 lb	N/A	24 hrs	3
Evital (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
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				

Cautions

WARNING!!

PESTICIDES ARE POISONOUS. READ AND FOLLOW ALL DIRECTIONS AND SAFETY PRECAUTIONS ON LABELS. HANDLE CAREFULLY AND KEEP ORIGINAL LABELED CONTAINERS IN LOCKED STORAGE AREA. DO NOT CONTAMINATE FORAGE, STREAMS OR PONDS. DISPOSE OF EMPTY CONTAINERS IN A LEGAL MANNER.

REPEATED EXPOSURE TO ORGANOPHOSPHATE (SUCH AS DIAZINON, IMIDAN AND LORSBAN) INSECTICIDES MAY, WITHOUT SYMPTOMS, INCREASE SUSCEPTIBILITY TO PHOSPHATE POISONING. ALL PESTICIDE TREATED BOGS MUST NOT BE ENTERED UNTIL RESTRICTED ENTRY TIMES HAVE ELAPSED (SEE LABEL). WORKERS SHOULD BE NOTIFIED PRIOR TO TREATMENT. TELL FAMILY AND CO-WORKERS. MAKE CERTAIN YOUR DOCTOR UNDERSTANDS. AFTER AN ACCIDENT, THERE MAY NOT BE TIME.

IF SYMPTOMS OF ACUTE PESTICIDE POISONING OCCUR, IMMEDIATELY TAKE VICTIM AND THE APPROPRIATE PESTICIDE LABEL OR CONTAINER TO THE NEAREST HOSPITAL EMERGENCY ROOM. FOR INFORMATION AND ADVICE AT ANY TIME OF DAY OR NIGHT, CALL THE MASSACHUSETTS POISON CONTROL SYSTEM AT: **1-800-682-9211**

REMINDER FOR RESPONSIBLE APPLICATORS

RESTRICTED USE COMPOUNDS (DIAZINON, LORSBAN, ACTARA, BRAVO, INTREPID AND 2,4-D) REQUIRE A PRIVATE APPLICATOR CERTIFICATION TO BUY, HANDLE, AND APPLY. THIS CERTIFICATION IS AVAILABLE THROUGH THE MASSACHUSETTS DEPARTMENT OF AGRICULTURAL RESOURCES (MDAR): <http://www.mass.gov/agr/pesticides/licensing/index.htm>.

DIAZINON AND LORSBAN ARE FEDERALLY RESTRICTED. ACTARA, ALL CHLOROTHALONIL PRODUCTS (BRAVO, ETC.), AND INTREPID ARE STATE RESTRICTED DUE TO GROUNDWATER CONCERNS. 2,4-D IS STATE RESTRICTED DUE TO TOXICITY.

REMEMBER THAT 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, MANCOZEBS, AND SEVIN ARE ALSO TOXIC TO FISH.

TO AVOID CONTAMINATION, DO NOT CLEAN EQUIPMENT OR DISPOSE OF WASTES NEAR OPEN WATER. DRIFT OR 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.

CAUTIONS

1. Pesticide-treated bogs may need to be posted. Check labels. Workers and scouts should be notified prior to treatments, and informed about re-entry times.
2. **READ AND FOLLOW LABEL INSTRUCTIONS.** The label is the law! Current labels and MSDS can be found on the CDMS website: <http://www.cdms.net/LabelsMsds/LMDefault.aspx>. Do not use a pesticide for control of a pest not on the label unless a specific recommendation is made by a person authorized to do so.
3. Make all pesticide applications in a manner to prevent contamination of streams, ponds, and public ways, and impound water as long as possible after applying.
4. Be aware of and adhere to guidelines regarding distances from site of chemical application to protected areas. Consider addition of drift retardants.
5. Many insecticides are highly toxic to bees. Check label and choose options that are non-toxic or that can be used safely.
6. Stored pesticides may deteriorate. Avoid freezing of liquid formulations. It is usually not advisable to use the holdover materials in opened containers. Follow regulations of the MDAR Pesticide Program when disposing of pesticides and their containers.
7. **CONCENTRATE SPRAYS** may injure new growth, bloom and small berries particularly in hot, humid weather or if the emulsifiable concentrate (EC) content nears 50% of mixture.