

**Always read
the product
label!**

DISEASE MANAGEMENT SNAPSHOT 2018



UMaine Extension (with help from the UMass Cranberry Chart Book)
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PHI = pre-harvest interval
REI = restricted entry interval

DISEASE	FUNGICIDE	RATE/A	NOTES
Upright Dieback <i>chlorothalonils;</i> <i>chemical Group M5</i> The EU's MRL for chlorothalonil is now at 5 ppm versus 0.01 ppm	Bravo Weather Stik, Chloronil 720,	4 - 6.5 pints	50-day PHI; Up to 3 uses per season; 12-hr REI; DO NOT add spreader-sticker or mix with Dipel. <u>Note:</u> For Echo, apply once (pre-bloom) after terminal bud has broken dormancy and is swollen or growing.
	Chlorothalonil 720 SC, Equus 720 SST	4 - 6.5 pints	
	Bravo Ultrex, Equus DF	3.8 - 6 lb	
	Echo 720	4 - 7 pints	
	Echo 90 DF	3.25 - 5.75 lb	
	Equus 500 ZN, Initiate ZN	5.75 - 9.25 pints	
	Champ Formula 2 Flowable	5.3 pt	No PHI; Must be applied pre-bloom to combat Dieback; 48-hr REI; Up to 5 uses per season, but only 3 uses for Champ WG
<i>coppers;</i> <i>chemical Group M1</i>	Champ DP Dry Prill	5.3 lb	
	Champ WG	4.2 lb	
Fruit Rot Early and mid-bloom (10-50% in bloom); then repeat sprays as warranted (Indar, Abound & Proline: 7-14 day intervals; Ferbam: 14-day intervals; all others 7-10 day intervals).	Bravo Weather Stik, Chloronil 720,	4 - 6.5 pints	<i>chlorothalonils;</i> <i>chemical Group M5;</i> 12-hr REI; 50-day PHI; up to 3 uses per season; hold water for 3 days; Do not add a spreader-sticker or mix with Dipel.
	Chlorothalonil 720 SC	4 - 6.5 pints	
	Equus 720 SST, Initiate 720	4 - 6.5 pints	
	Echo 720	4 - 7 pints	
	Echo 90DF	3.25 - 5.75 lb	
	Bravo Ultrex, Equus DF	3.8 - 6.0 lb	
	Equus 500 ZN, Initiate ZN	5.75 - 9.25 pints	
	Ferbam Granuflo -- <i>Group M3</i>	6 lb	
	Abound (azoxystrobin) -- <i>Group 11</i>	6.0 - 15.5 oz	
	Indar 2F (30-day PHI) -- <i>Group 3</i>	6 - 12 oz	
Proline 480 SC (45-day PHI) <i>Grp 3</i>	5 fl oz		
	Polyoxin-D Zinc Salt products -- <i>chemical Group 19</i> : Oso → 3.75-13 fl oz Ph-D → 6.2 oz		
	No more than 6 apps of Oso or 3 apps of Ph-D when using maximum rate. Worked best in MA trials when Oso was applied at highest rate following two Proline/Abound applications.		
<i>mancozeb;</i> <i>chemical Group M3</i> 30-day PHI and 24-hr REI; may delay color development!	Roper DF Rainshield	3 - 6 lb	Add a spray adjuvant for better distribution and deposition for mancozeb products.
	Dithane M-45, Koverall	3 - 6 lb	
	Manzate Pro-Stick	3 - 6 lb	
	Penncozeb 80WP or 75DF	3 - 6 lb	
	Dithane F-45 Rainshield	2.4 - 4.8 qt	
	Manzate Flowable, Manzate Max	2.4 - 4.8 qt	
	ManKocide	7 lb	
<i>Coppers</i> <i>Chemical Group M1</i> Beyond 50% in bloom: repeat sprays as warranted at 7-10 day intervals; no PHI unless noted on label; 48-hr REI for all of these products except where noted.	Kocide 2000 (6 lb) Kocide 3000 (3.5 lb)		Do not combine with any insecticide, as that could make the fungicide phytotoxic to the cranberry vines.
	Badge SC (7 pints) Badge X2 (3.5 lb)		
	† Champ Formula 2 Flowable	5.33 pints	
	† Champ DP Dry Prill	5.6 lb	
	Kentan DF	4 - 5.25 lb	
	Nordox [24-hr REI]	8 lb	
	Nordox 75WG [12-hr REI]	5 lb	
	MasterCop	3 pints	
	Nu-Cop 3L	4.33-5.67 pints	
	Nu-Cop HB, Nu-Cop 50DF, Champ WG	4.2 lb	
	Copper-Count-N	4 to 8 quarts	
	Top Cop with sulfur (24-hr REI)	2 quarts	
Cuprofix Ultra 40 Disperss	5 lb		
	NOTE: Kocide 4.5 is highly corrosive to all aluminum irrigation equipment.		
	† = 5 uses per season allowed; only 3 uses per season for all others.		

For guidance on *Phytophthora* Root Rot and Fairy Ring, see pages 13 and 19, respectively, of the latest UMass Cranberry Chart Book. Neither of these diseases has been found on any Maine commercial cranberry bed since 1996. Fairy Ring is on the rise in Massachusetts.

http://ag.umass.edu/sites/ag.umass.edu/files/management-guides/2018_chart_book_final.pdf

Note: Ridomil, Abound, and Indar are at high risk for resistance development. Avoid using repeatedly (alternate with other fungicides from other chemical groupings when possible).

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