

**Always read  
the product  
label!**

# DISEASE MANAGEMENT SNAPSHOT 2016



UMaine Extension (with help from the UMass Cranberry Chart Book)  
Pest Management Office || 491 College Ave || Orono, ME 04473

PHI = pre-harvest interval  
REI = restricted entry interval

DISEASE	FUNGICIDE	RATE/A	NOTES	
<b>Upright Dieback</b> <i>chlorothalonils;</i> <i>chemical Group M5</i>  The EU's MRL for chlorothalonil is still only 0.01 ppm.  <i>coppers;</i> <i>chemical Group M1</i>	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. <b>Note:</b> 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
		Champ DP Dry Prill	5.3 lb	
		Champ WG	4.2 lb	
	<b>Fruit Rot</b>  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).  <b>NEW →</b>	Bravo Weather Stik, Chloronil 720,	4 - 6.5 pints	<i>chlorothalonils;</i> <i>chemical Group M5;</i> <b>12-hr REI; 50-day PHI;</b> <i>up to 3 uses per season; hold water for 3 days; Do not add a spreader-sticker or mix with Dipel.</i>  50-day PHI; 24-hr REI; Max 5 uses per season. 2 apps per season, phytotoxic to McIntosh apples. Use only twice per season; Don't use pre-bloom. Use only twice per season; Hold water 14 days.
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 -- <b>Group M3</b>		6 lb		
Abound (azoxystrobin) -- <b>Group 11</b>		6.0 - 15.5 oz		
Indar 2F (30-day PHI) -- <b>Group 3</b>		6 - 12 oz		
Proline 480 SC (45-day PHI) <b>Grp 3</b>	5 fl oz			
	Polyoxin-D Zinc Salt products -- <i>chemical Group 19</i> : <b>Oso</b> → 3.75-13 fl oz    <b>Ph-D</b> → 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		
Beyond 50% in bloom: <b>Coppers</b> ; repeat sprays as warranted at 7-10 day intervals; no PHI for these products  <i>chemical Group M1</i>	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.  <b>NOTE: Kocide 4.5 is highly corrosive to all aluminum irrigation equipment.</b>  † = 5 uses per season allowed; only 3 uses per season for all others.	
	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 (48-hr REI)	2 quarts			
Cuprofix Ultra 40 Disperss (24-hr REI)	5 lb			

**For guidance on Fairy Ring and *Phytophthora* Root Rot, see pages 10 and 16 of the 2016 UMass Cranberry Chart Book (see URL below) Neither of these diseases has been found on any Maine commercial cranberry bed since 1996, but Fairy Ring is on the rise in Massachusetts.**  
[http://ag.umass.edu/sites/ag.umass.edu/files/management-guides/chart\\_book\\_2016.pdf](http://ag.umass.edu/sites/ag.umass.edu/files/management-guides/chart_book_2016.pdf)

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

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