

**Always read
the product
label!**

DISEASE MANAGEMENT SNAPSHOT 2020



UMaine Extension (with help from the UMass Cranberry Chart Book)
Pest Management Office || 17 Godfrey Dr || Orono, ME 04473

PHI = pre-harvest interval
REI = restricted entry interval

DISEASE FUNGICIDE RATE/A NOTES

Upright Dieback *chlorothalonils;* *chemical Group M5*

The EU's MRL for chlorothalonil is at 5 ppm but will revert to 0.01 ppm as early as Oct. 2020.

coppers;
chemical Group M1

Bravo Weather Stik, Chloronil 720, 4 - 6.5 pints
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

50-day PHI; Up to 3 uses per season; 12-hr REI; DO NOT add spreader-sticker or mix with Dipel. Note: For Echo, apply once (pre-bloom) after terminal bud has broken dormancy and is swollen or growing.

Champ Formula 2 Flowable 5.3 pt
Champ DP Dry Prill 5.3 lb
Champ WG 4.2 lb

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

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
Chlorothalonil 720 SC 4 - 6.5 pints
Equus 720 SST, Initiate 720 4 - 6.5 pints
Echo 720 4 - 7 pints
Echo 90 DF 3.25 - 5.75 lb
Bravo Ultrex, Equus DF 3.8 - 6.0 lb
Initiate ZN 5.75 - 9.25 pints
Ferbam Granuflo -- *Group M3* 6 lb
Abound (azoxystrobin) -- *Group 11* 6.0 - 15.5 oz
Indar 2F (30-day PHI) -- *Group 3* 6 - 12 oz
Proline 480 SC (45-day PHI) *Grp 3* 5 fl oz

chlorothalonils;
chemical Group M5;
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.

50-day PHI; 24-hr REI; Max 5 uses per season. 2 apps per season, phytotoxic to McIntosh apples. Max 4 apps or 48 oz/season; Don't use pre-bloom. Use only twice per season; Hold water 14 days.

Polyoxin-D Zinc Salt products -- *chemical Group 19*: Oso 5%SC → 6.5-13 fl oz || Ph-D → 6.2 oz No more than 6 apps per yr 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.

mancozeb;
chemical Group M3
30-day PHI and 24-hr REI; may delay color development!

Roper DF Rainshield 3 - 6 lb
Dithane M-45, Koverall 3 - 6 lb
Manzate Pro-Stick 3 - 6 lb
Penncozeb 80 WP or 75 DF 3 - 6 lb
Dithane F-45 Rainshield 2.4 - 4.8 qt
Manzate Flowable, Manzate Max 2.4 - 4.8 qt
ManKocide 7 lb

Add a spray adjuvant for better distribution and deposition for mancozeb products.

Coppers
Chemical Group M1

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)
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
Top Cop with sulfur (24-hr REI) 2 quarts
Cuprofix Ultra 40 Disperss 5 lb

Do not combine with any insecticide, as that could make the fungicide phytotoxic to the cranberry vines.

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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