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2018-2020 Chart Book: Disease at a Glance

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DISEASE MANAGEMENT 2018 AT A GLANCE

Prepared by Martha M. Sylvia and E. Saalau Rojas as an addendum to the 2018-2020 Chart Book

UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 20

ALWAYS READ THE LABEL and REFER TO 2018-20 CHART BOOK

DISEASE	FUNGICIDE	RATE/A	NOTES
Phytophthora root rot <i>Foliar Applications</i> (Phosphonate fungicides)	Aliette WDG (fosetyl-al)	5 lb	
	Fungi-Phite	2-4 pt	
	Prophyt, Reveille	4 pt	
	Reliant	2-6pt	
	Confine Extra, Fosphite	4-8 pt	
	K-Phite , Rampart	4-8 pt	
	Alude, Phiticide, Phostrol Oxiphos	5-6 pt 5-10 pt	
<i>Soil Applications</i> (Phenylamide fungicides)	Metastar 2EC (metalaxyl)	4-7 pt	No air! Ground or chemigation only. 45 day PHI, maximum 3 apps.
	Gold SL (mefenoxam)	1-1.75 pt	
	Ultra Flourish (mefenoxam)	2-3.5 pt	
	Ridomil Gold GR (mefenoxam)	20-35 lb	
<u>CHLOROTHALONILS</u>			
Upright dieback	Bravo Ultrex	3.8-6 lb	ALL formulations are Zone II restricted. Maximum 3 apps. 12-hour REI. DO NOT add spreader-sticker. Do not mix with Dipel. 50 day PHI.
	Bravo Weather Stik	4-6.5 pt	
	Chloronil 720	4-6.5 pt	
	Chlorothalonil 720 SC	4-6.5 pt	
	Echo 720	4-7 pt	
	Echo 90 DF	3.25-5.75 lb	
	Equus DF	3.8-6 lb	
	Equus 720 SST	4-6.5 pt	
	Equus 500 ZN	5.75-9.25 pt	
	Initiate 720	5.75-9.25 pt	
<u>COPPERS</u>			
	Champ DP Dry Prill	5.3 lb	No PHI, 48-hour REI.
	Champ Formula 2 Flowable	5.33 pt	Maximum 5 apps per season,
	Champ WG	4.2 lb	except 3 apps for Champ WG.
Fairy ring	Abound (azoxystrobin)	15.5 fl oz per 30-100 gal	First app at bud break, followed 2-4 weeks later, if necessary. Apply 1 gal/sq ft in June-July, maximum 1 app, 24-hour REI. Mid-August through October.
	and	12 fl oz per	
	Indar 2F (fenbuconazole)	30-100 gal	
	Ferbam Granuflo	9 lb/100 gal	
	Sul-Po-Mag or K-Mag 0-0-22	4000 lb/A or 1.5 oz/sq ft	

SEE OTHER SIDE FOR FRUIT ROT →

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DISEASE	FUNGICIDE	RATE/A	NOTES
<u>NEWER CHEMISTRIES</u>			
	Abound, Satori (azoxystrobin)	6-15.5 oz	No more than 2 sequential apps. High risk of fungicide resistance. Phytotoxic to McIntosh apples.
	Indar 2F (fenbuconazole)	6-12 oz	Maximum 4 apps or 48 oz. Medium risk of fungicide resistance. 30 day PHI.
	Proline 480SC (prothioconazole)	5 oz	Maximum 2 apps. Medium risk of fungicide resistance. 45 day PHI. Hold water 14 days.
<u>POLYOXIN-D ZINC SALT</u>			
	Oso	3.75-13 fl oz	No more than 6 full rate applications.
	Ph-D	6.2 oz	No more than 3 full rate applications.
Fruit rot (start early to mid- bloom, continue through late bloom and early fruit set)	<u>CHLOROTHALONILS</u>		
	Bravo Ultrex, Equus DF	3.8-6 lb	ALL formulations are Zone II restricted.
	Bravo Weather Stik	4-6.5 pt	
	Chloronil 720, Initiate 720	4-6.5 pt	Maximum 3 applications per season.
	Chlorothalonil 720 SC	4-6.5 pt	12-hour REI (6.5 day eye irritant).
	Echo 720	4-7 pt	Hold water for 3 days after application
	Echo 90 DF	3.25-5.75 lb	50 day PHI.
	Equus 720 SST	4-6.5 pt	DO NOT add spreader-sticker.
	Equus 500 ZN, Initiate ZN	5.75-9.25 pt	
		Ferbam Granuflo	6 lb
<u>MANCOZEBS</u>			
	Dithane F-45 Rainshield	2.4-4.8 qt	30 day PHI, 24-hour REI.
	Dithane M-45. Koverall	3-6 lb	Spray adjuvants should be added to maximize efficacy.
	ManKocide	7 lb	Personal Protective Equipment requirements may vary.
	Manzate Flowable, Manzate Max	2.4-4.8 qt	Always check the label for specific instructions.
	Manzate Pro-Stick	3-6 lb	
	Penncozeb 75DF or 80 WP	3-6 lb	
	Roper DF Rainshield	3-6 lb	

COPPERS

**Fruit rot
(start mid-
late bloom)**

Multiple copper fungicide products available (e.g. Champ, Cuprofix, Badge, Kocide, etc.) See page 2 of Chart Book for full list.

Coppers have low efficacy for fruit rot control. Do not mix copper fungicides with insecticides. Do not tank mix with Aliette or phosphites unless spray solution has been buffered first.

SEE OTHER SIDE FOR OTHER DISEASES →