

2013 Supplement to Guidelines for Developing an Effective Fungicide Spray Program for Wine Grapes in Maryland, 2012

The following information is provided as a supplement to the 2012 Fungicide Guidelines - http://extension.umd.edu/sites/default/files/_docs/programs/viticulture/FS-848FungicideSprayGuidelines2012-2.pdf

New Fungicides for 2013

Torino (Gowan) cyflufenamid (U6) is a newly registered protectant fungicide for powdery mildew only applied @ 3.4 fl oz/A maximum of 2 applications per season, 14 days interval. It is excellent as a rotational material for other powdery mildew fungicides. **Do not** apply Torino to active infections, as this may promote development of resistance. This fungicide fits in with the list of powdery mild fungicides listed in the middle column under **½- to 1-inch shoot** (page 6).

Fortunately, a number of new fungicides with novel chemistries and shorter PHIs have been registered recently. Presidio, Revus, and Tanos which were available in 2010, have been joined by Forum, Ranman, and Reason in 2012, **and Gavel and Zampro in 2013.**

Zampro is a newly registered fungicide in 2013 containing ametoctradin (Group 45) and dimethomorph (Group 40) applied at 14 fl oz/A, max of 2 applications, 14 PHI. Only controls downy mildew. It cannot be rotated with Revus as has the same FRAC Group 40. This fungicide fits in at the **Pre-bloom to early bloom or 10 days after the last spray period** (page 7).

Gavel (Gowan) has Mancozeb (Group M) and zoxamide (Group 22), 2-2.5 lb/A, maximum of 6 applications or not exceeding 15 lb/ season, 66 PHI. Gavel is a good rotational partner with other DM fungicides. This fungicide fits in at the **Pre-bloom to early bloom or 10 days after the last spray period** (page 7).

Revus Top (new in 2012) is now labeled (no longer a supplemental label) for downy, powdery mildew, Phomopsis cane and leaf spot, angular leaf spot, and Anthracnose.

Forum is now labeled (no longer a supplemental label) for grapes at 6 fl oz/A/application not exceeding 30 fl oz/growing season.

Notes, Edits and Supplements for 2013

Although Revus Top and Inspire Super are labeled for Phomopsis, their efficacy on this pathogen is still in question. (Page 2)

The efficacy of phosphorous acid in some vineyards and orchards has declined. (Page 4, right column, paragraph 1)

One should avoid using (tank mixing) copper with acids (for example, phosphorous acid). (Page 4, right column, paragraph 2)

Meteor is another trade name for Iprodione (Iprodione 4L, Rovral). Iprodione is an older fungicide that lost effectiveness due to overuse but can “recover.” Make one spray per season if it has not been used in your vineyard in at least three years. (Page 8, right column of table)

The active ingredient in Scala is not cyprodinil, but pyrimethanil. (Page 8, right column, paragraph 4)

Note: Nutrol is not formulated with a surfactant, so growers should mix Nutrol with a nonionic surfactant for maximum performance. (Page 8, right column, bottom paragraph)

For susceptible varieties the risks of BR are not decreasing at the time of 2nd post bloom, unless there was no black rot to be found in the vineyard. (Page 9, right column, bottom half)

Cautionary note: The information in this Information Sheet is accurate as of the date of publication and is provided as a guide to choosing fungicides and planning a spray program. Always read the label before applying any fungicide. Labels change—and the label is the law. No endorsement is implied

Pesticide User Responsibility: Use pesticides safely and follow instructions on labels. The user is responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as damages caused by drift. For specific labels, special local-needs label 24(c) registration, or section 18 exemption, contact University of Maryland Extension of your County.

Use of Trade Names: Trade names are used in this publication with the understanding that no discrimination is intended and no endorsement is implied. In some instances the compound may be sold under different trade names, which may vary as to label clearances.

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