Early Season Insect Management in Vineyards (Bud Swell – Immediate Prebloom)



Pesticide Recertification Credits

Survey at End of Presentation

Information Needed:

- Name (as on license)
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OR

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PA Pesticide License Number



2020 New York & Pennsylvania Pest Management Guidelines for Grapes



2020 New York and Pennsylvania Pest Management Guidelines for Grapes

Cornell Cooperative Extension

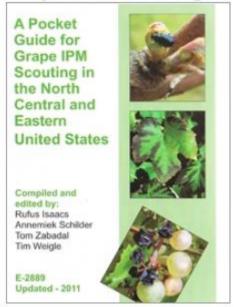


Those guidelines are not a substitute for posticide labeling. Always road and understand the product label before using any pasticide.

Pocket Guide & Insect Fact Sheets

A Pocket Guide for

Grape IPM Scouting



https://shop.msu.edu/product_p/bulletin-e2889.htm



https://ecommons.cornell.edu/bitstream/handle/ 1813/43096/grape-berry-moth-FS-NYSIPM.pdf?sequence=1&isAllowed=y



https://ecommons.cornell.edu/bitstream/handle/1813/43102/grape-leafhopper-FS-NYSIPM.pdf?sequence=1&isAllowed=y

NY IPM Program: http://nysipm.cornell.edu/factsheets/grapes/default.asp MSU Extension Grapes (Pest Management/ Insects)

https://www.canr.msu.edu/grapes/integrated_pest_management/insects

Mid-Atlantic Vineyards Grape IPM : https://www.virginiafruit.ento.vt.edu/grape-fruit-ipm.html

Ontario GrapeIPM: http://www.omafra.gov.on.ca/IPM/english/grapes/insects/index.html

eXtension - Grape Insect Management - https://grapes.extension.org/tag/grapes-insect-management/

SCOUTING



Scouting Recommendations

At least weekly throughout season.

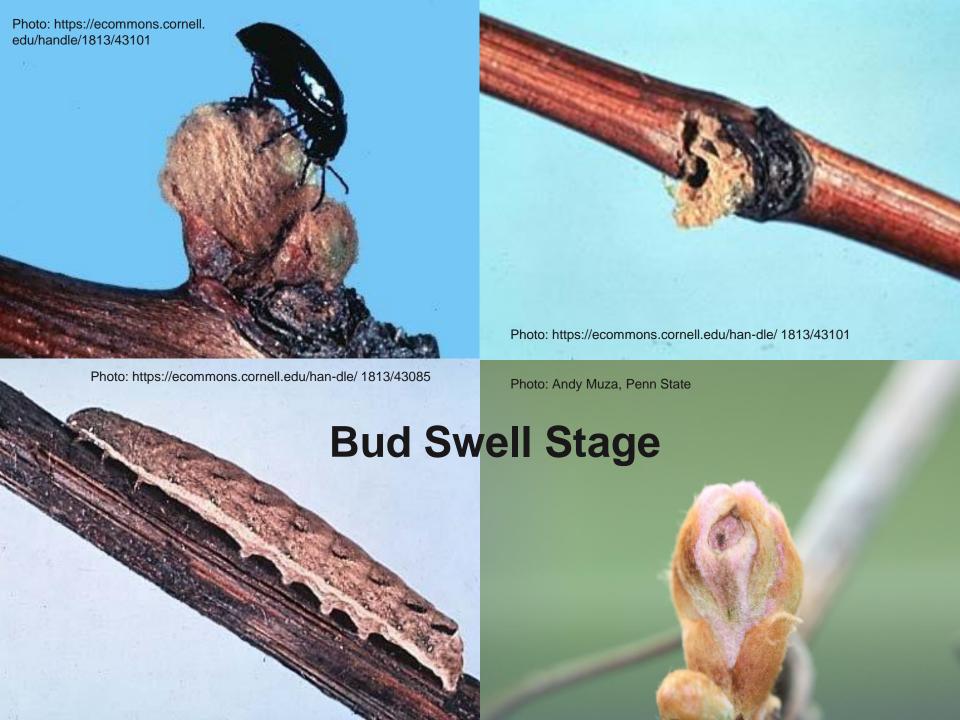
More is better

Especially if:

- Hot spots
- Problems Detected

Keep Good Scouting/Spray Records





3" — 12" Stage Banded Grape Bug & Lygocorus inconspicuous



- Scout nymphs in flower cls/shoot tips.
- Crop Loss levels> 1 nymph/10 shoots



Insecticides:

Sevin 80 Solupak, Danitol 2.4 EC, Imidan 70W, Assail 30SG







10" – 12" Stage – Grape Cane Gallmaker





Photo: Andy Muza, Penn State







10" – 12" Stage – Grape Cane Girdler





Immediate Prebloom – Rose Chafer



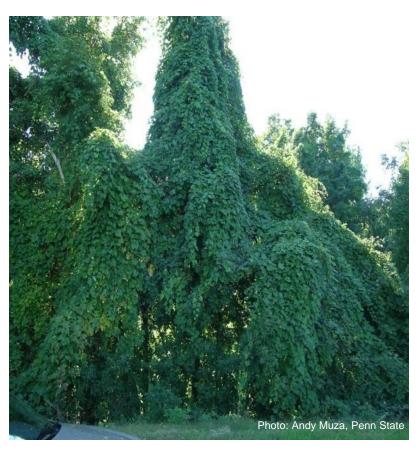


- Scouting about 10 days before bloom. Minimum 3X's/wk, until 2 wks/PB.
- **ET** 2 beetles/vine
- Insecticides:
 Sevin 80 Solupak,
 Danitol 2.4 EC,
 Assail 30 SG

Insect Management

Cultural Practices

Vineyard Area Sanitation







Cultural Practices

Maintain – Weed free zone under Trellis









Cultural Practices

Avoid Excessive Growth

Wine Grapes – Leaf Removal



Leaf Removal - Riesling





BEFORE

AFTER

IRAC Control Natural Japanese Insecticide Number¹ method GBM Leafhopper Beetle Enemies Longevity Movento 23 *** Phylloxera, mealybug, and tumid gall Moderate S, C, I midge control only *NY†Altacor 28 *** Moderate C, I +++ +++ *NY†Belt *** 28 C, I +++ 0 0 Moderate

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Table 4.2.2 Insecticides for use in New York and Pennsylvania vineyards

S, C, I

C

C

C, I

C, I

C

C

 \mathbf{C}

 \mathbf{C}

 \mathbf{C}

C

 \mathbf{C}

S, C, I

S, I

S, C, I

S,I

28 + 4A

1A

1B

22A

28 + 16

27A + 3A

3A

3A

3A

3A

3A

3A

4A

4A

4A

4A

4A

4A + 3A

4A + 3A

4D

*NY†Voliam Flexi

Sevin

Avaunt

*NY Imidan

Evergreen
*Baythroid

*Brigade

*Danitol

*Hero

Assail

Pyganic

*NY†Actara

*NY†Provado

*Brigadier

*Leverage 360

^*Mustang Max

*NY†Admire Pro

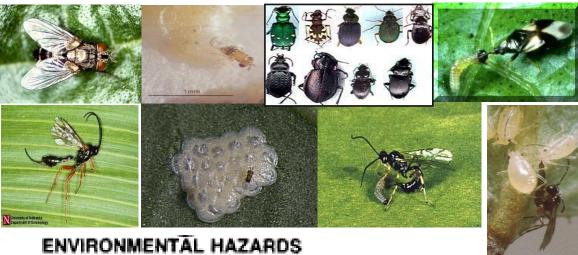
^Venom, ^Scorpion

*NY†Sivanto Prime

*NY†Tourismo

Conserve Natural Enemies





This pesticide is toxic to birds and extremely toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Avoid use when bees are actively foraging.

"No Pest" is a pesticide which can move (seep or travel) through soil and can contaminate groundwater which may be used as drinking water. "No Pest" has been found in groundwater as a result of agricultural use. Users are advised not to apply "No Pest" where the water table (groundwater) is close to the surface and where the soils are very permeable (i.e., well drained soils such as loamy sands). Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Rotate Rotate Rotate



Rotate insecticide chemistries between/within each generation (e.g., grape berry moth, grape leafhopper, Japanese beetle)

Pest Management

- Sprayer Maintenance
 Sprayer Calibration





Photos: Andy Muza, Penn State

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 - Facebook: PennStateExtensionVitEnol
 - To sign up for the Wine and Grape Newsletter, send a blank message to: winegrape-l-subscribe-request@lists.psu.edu

