Updates to the 2014 Midwest Small Fruit and Grape Spray Guide

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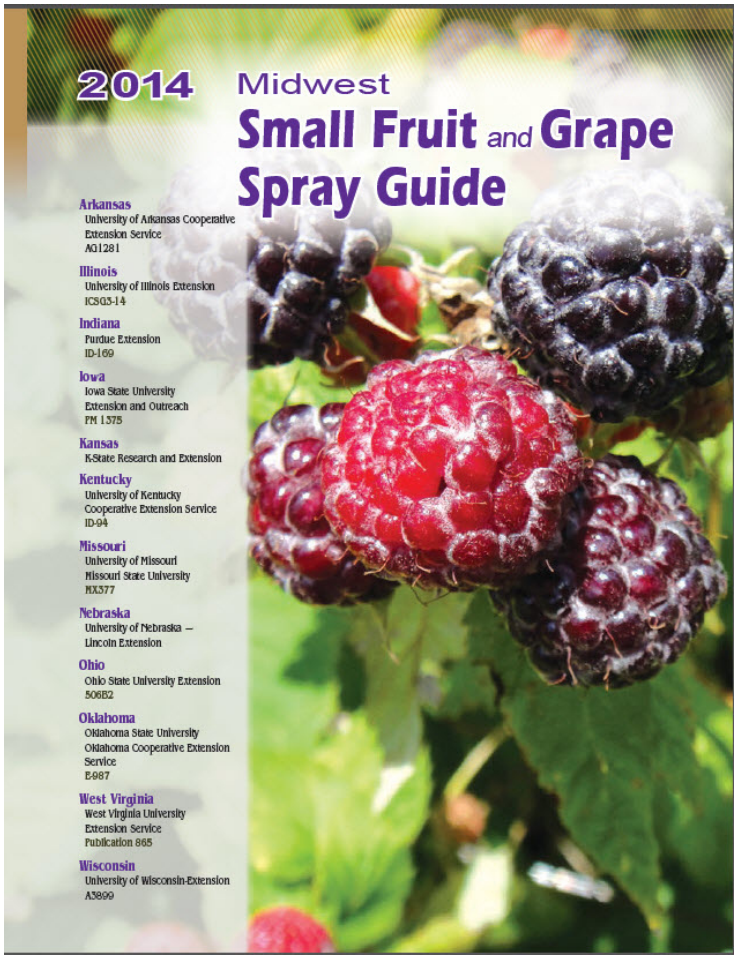
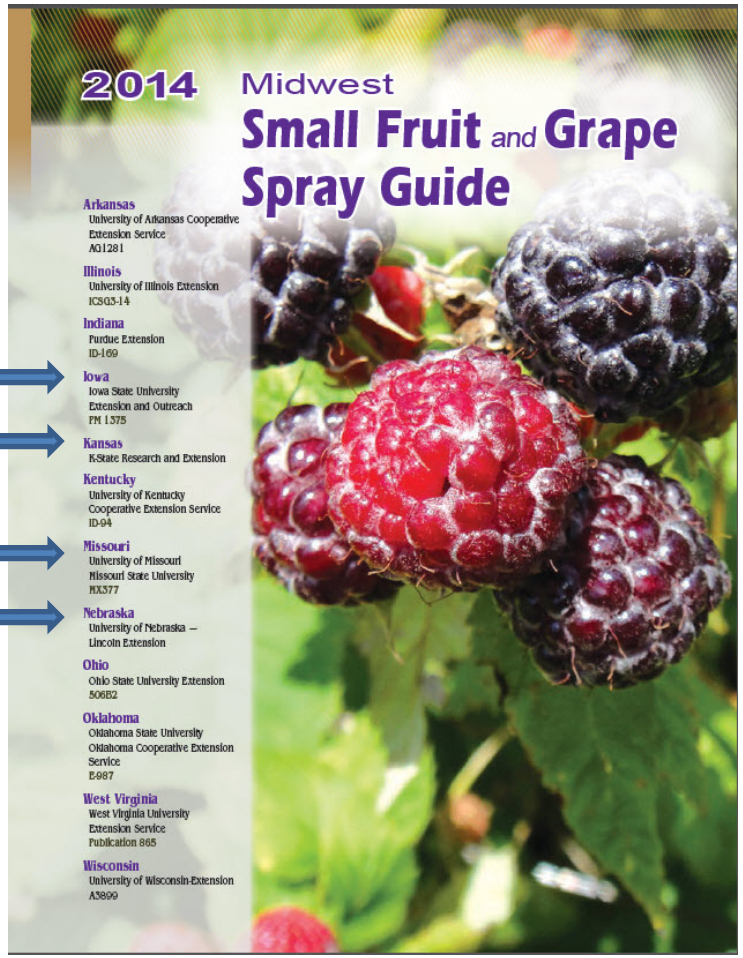
Outline

- Introduction to the 2014 Spray Guide
- General comments
- Grapes
- Blueberries
- Brambles
- Strawberries
- Weeds



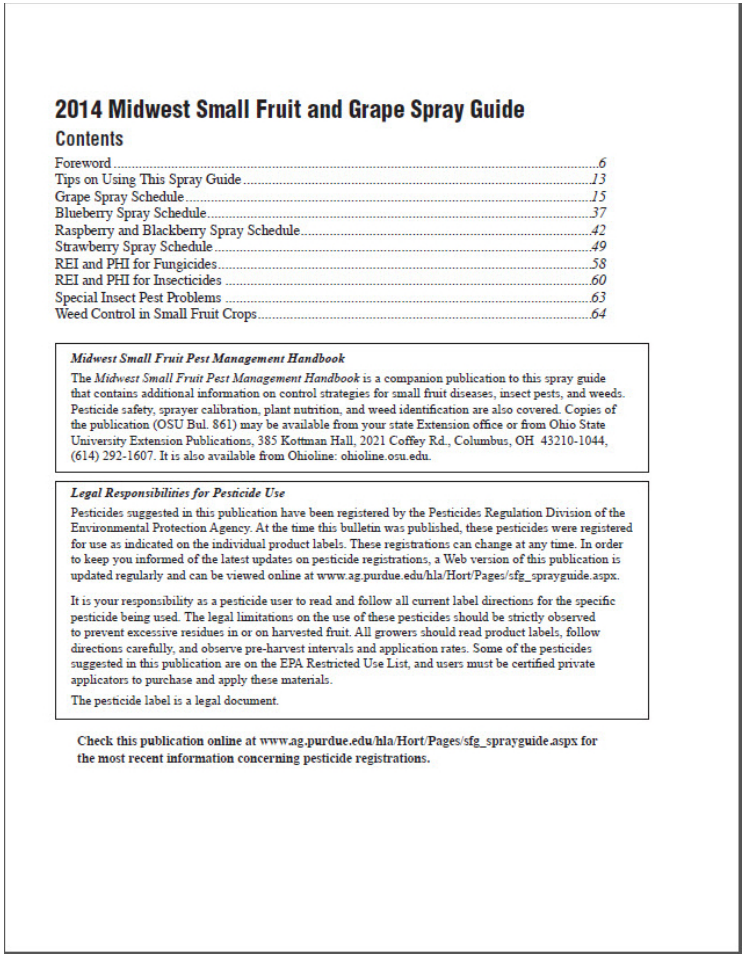
Introduction

- Who compiles the Guide? Fruit extension and research specialists from 12 universities
- The Guide is updated annually
- Locate the Guide at:
  - https://ag.purdue.edu/hla/Hort/Documents/ID-169.pdf
  - hard copy from local Extension office
- Check the online guide regularly – labels change and the online guide is updated accordingly



Introduction

- Guide has sections…
  - Tips on using the guide
  - Grape spray schedule
  - Blueberry spray schedule
  - Raspberry and blackberry spray schedule
  - Strawberry spray schedule
  - REI and PHI for fungicides
  - REI and PHI for insecticides
  - Special insect control problems
  - Weed control in small fruit crops



2014 Midwest Small Fruit and Grape Spray Guide

Contents

Midwest Small Fruit Pest Management Handbook

The *Midwest Small Fruit Pest Management Handbook* is a companion publication to this spray guide that contains additional information on control strategies for small fruit diseases, insect pests, and weeds. Pesticide safety, sprayer calibration, plant nutrition, and weed identification are also covered. Copies of the publication (OSU Bul. 861) may be available from your state Extension office or from Ohio State University Extension Publications, 385 Kottman Hall, 2021 Coffey Rd., Columbus, OH 43210-1044, (614) 292-1607. It is also available from Ohioline: ohioline.osu.edu.

Legal Responsibilities for Pesticide Use

Pesticides suggested in this publication have been registered by the Pesticides Regulation Division of the Environmental Protection Agency. At the time this bulletin was published, these pesticides were registered for use as indicated on the individual product labels. These registrations can change at any time. In order to keep you informed of the latest updates on pesticide registrations, a Web version of this publication is updated regularly and can be viewed online at www.ag.purdue.edu/hla/Hort/Pages/sfg_sprayguide.aspx.

It is your responsibility as a pesticide user to read and follow all current label directions for the specific pesticide being used. The legal limitations on the use of these pesticides should be strictly observed to prevent excessive residues in or on harvested fruit. All growers should read product labels, follow directions carefully, and observe pre-harvest intervals and application rates. Some of the pesticides suggested in this publication are on the EPA Restricted Use List, and users must be certified private applicators to purchase and apply these materials.

The pesticide label is a legal document.

Check this publication online at www.ag.purdue.edu/hla/Hort/Pages/sfg_sprayguide.aspx for the most recent information concerning pesticide registrations.

Changes in 2014 – General Comments

- The MU plant diagnostic clinic is scheduled to reopen in 2014!
- New section on pesticide use in greenhouses and high tunnels
  - MO: a high tunnel is considered a greenhouse when the sides are closed, and open field when the sides are open
  - Check with your own state pesticide regulators for more information

Grape

- General
  - Elite 45DF no longer sold. Several other fungicides (ie Tebuzol 45DF) contain the a.i. tebucanazole
  - Vintage SC no longer labeled (2012); supplies in distribution channels should be cleared out; growers can use existing supplies
  - Adamant 50WG removed for PM control, along with the explanation section on pg. 31
  - SWD has led to an expanded label for Mustang Max 0.8EC
  - Tables 1 and 3 adjusted to reflect label changes
  - Table 4 (disease susceptibility/chemical sensitivity)lists several new cultivars

Grape

- Bud swell
  - Baythroid XL 1EC added for climbing cutworms
- Bud break to bloom
  - Tebuzole 45DF added for a variety of diseases
  - Elite 45DF removed for a variety of diseases
  - Vintage SC removed for a variety of diseases
  - Adament 50WG removed for powdery mildew control

Grape

- Shatter
  - Assail added for grape berry moth
  - Brigade WSB added for Japanese beetle
  - Sevin XLR Plus added for Japanese beetle
  - Diazinone AG500 removed for GBM, leafhoppers
  - Lannate SP and LV removed for GBM, leafhoppers
  - Sevin XLR 4EC removed for GBM
- First cover to veraison
  - Tebuzole 45DF added for a variety of diseases
  - Elite 45DF removed for a variety of diseases
  - Vintage removed for disease control
- Veraison to harvest
  - Mustang Max 0.8EC added for SWD control

Blueberry

- General
  - SWD has led to changes in several insecticide labels; check with your own state pesticide regulators and extension specialists for up-to-date information

Blueberry

- Petal fall
  - Altacor 35WDG added for cherry fruitworm
- First/second cover
  - Brigade 2EC added for curculio control (Brigade already labeled, but new formulation added)
- Third and additional covers
  - Brigade 2EC added for blueberry maggot control
  - Brigade WSB (10WP) added for drosophila control
  - Imidan 70W added for drosophila control
  - Lannate LV added for drosophila control
  - Mustang Max 0.8EC added for drosophila control

Raspberry and Blackberry

- General
  - SWD has led to changes in several insecticide labels; check with your own state pesticide regulators and extension specialists for up-to-date information
  - Check Captan labels closely for use on brambles – see comments on page 47 of 2013 guide (dropped from 2014 guide but still important)

Raspberry and Blackberry

- Post bloom through harvest
  - Brigade WSB (10WP) added for drosophila control
  - Mustang Max 0.8EC added for drosophila control
  - Malathion 8F added for drosophila control
- Post harvest
  - Brigade WSB (10WP) added for raspberry crown borer control

Strawberry

- General
  - Quadris Top and Mettle added for disease control from prebloom through postharvest
  - SWD has led to changes in several insecticide labels; check with your own state pesticide regulators and extension specialists for up-to-date information
  - Table 5 (cultivars and disease resistance) includes new cultivars
  - Strawberry weed control – Devrinol 2-XT section expanded to include fall and spring use in established plantings, and use in plasticulture

Strawberry

- Pre bloom
  - Mettle added for disease control (PM, leaf spot, leaf blight, leaf scorch)
  - Quadris Top added for disease control (PM, leaf spot, leaf blight, leaf scorch)
  - Malathion 50WP removed for strawberry clipper control
- Early bloom through bloom
  - Mettle added for disease control (PM, leaf spot, leaf blight, leaf scorch)
  - Quadris Top added for disease control (PM, leaf spot, leaf blight, leaf scorch, anthracnose)

Strawberry

- Post bloom to harvest
  - Mettle added for disease control (PM, leaf spot, leaf blight, leaf scorch)
  - Quadris Top added for disease control (PM, leaf spot, leaf blight, leaf scorch, anthracnose)
  - Belt 4EC added for leaf roller, caterpillar control
  - Athena 0.87EC removed for leafroller, caterpillar control
  - Brigade WSB (10WP) added for drosophila control
  - Malathion 8F added for drosophila control
  - Entrust 80WP added for drosophila control

Strawberry

- Harvest
  - Quadris Top added for disease control (anthracnose)
- Post harvest, new plantings
  - Mettle added for disease control (PM, leaf spot, leaf blight, leaf scorch)
  - Quadris Top added for disease control (PM, leaf spot, leaf blight, leaf scorch, anthracnose)

SWD Control - Elderberry

- Pest management – Spotted Wing Drosophila

Class	Trade Name	Active Ingredient	PHI (days)	Days Residual
pyrethroid	Mustang Max (RU)	zeta-cypermethrin	1	7
	Danitol (RU)	fenpropathrin	3	7
	Brigade (RU)	bifenthrin	3	7
spinosyn	Delegate (2ee)	spinetoram	1	7
	Entrust (organic)	spinosad	1	3-5
pyrethrum	Pyganic (organic)	pyrethrum	0	2

Questions or Comments?

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