Tree Fruit Disease Control Update for 2010

2010 Orchard and Vineyard Show January 20, 2010

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Fungal Disease Control Chemistries, Tested in 2009

- Chlorothalonil
- Pristine
- Gem, Adament
- Syllit
- Inspire
- Quash
- **DPX-LEM17 – (penththiopyrad) brown rot, mildew
- USF2016A -- leaf spot, brown rot, mildew
- **USF2017A -- leaf spot, brown rot, mildew
- YT669 – strobilurin; leaf spot, brown rot, mildew
- Q8Y78 -- leaf spot, brown rot, mildew
Cherry Disease Control
Experimental Trials

• Trials run at NWMHRS
  – Bill Klein, Myron Anderson
• Block of Montmorency & Balaton
• 19 treatments
• Petal fall, shuck split, 1st - 4th covers
• 4th cover on July 14
• Balatons unsprayed; disease came in after harvest, very quickly
• Ratings on August 11, September 14 (4-8 weeks after last application)
Effective treatments really stand out
Leaf Spot Control
Labeled Compounds, 2009 Highlights

% Leaf Spot Defoliation

Bravo, 3 lb X 2
Pristine, 10.5 oz
Syllit + Captan

Pristine
Syllit (27 fl oz)

Bravo, 3 lb X 2
USF2017B, 8 fl oz X 4

Bravo, 3 lb X 2
Pristine, 10.5 oz X 4

Bravo, 3 lb X 2
Gem, 3 fl oz X 4

Control

Aug 11 rating
Sept 14 rating
Aug: Bravo, 3 lb X 2
USF2017B 8 fl oz X 4
Aug: Syllit FL 27 fl oz (full season)
Powdery Mildew Control, Highlights

August 11 rating

- Q8Y78 (24 fl oz)
- Bravo, 3 lb X 2 USF2016A, 5 fl oz X 4
- Bravo, 3 lb X 2 Adament, 6 oz X 4
- Bravo, 3 lb X 2 USF2017B, 8 fl oz X 4
- Gem, 3 fl oz X 4
- Pristine, 10.5 oz X 4
- Syllit (27 fl oz)
- Control
Mont Brown Rot Control, Highlights

Aug 11 rating

- Penthiopyrad, 20 fl oz
- Syllit (27 fl oz)
- Pristine, 10.5 oz
- Bravo, 3 lb X 2 Adament, 6 oz X 4
- Bravo, 3 lb X 2 Gem, 3 fl oz X 4
- Control

% Brown Rot Infection
Sweet Cherry Brown Rot Trial

% Brown Rot Infection

Indar 2F, 6oz
Elite 45 WSP, 6oz
Kumulus, 8lb
Control

Jul 24 rating

A
B
C
C
C
C

Brown Rot Control Chemistries, 2010

• Sterol Inhibitors
  – Indar 2F – Special 24(c) label enabling up to 12 fl oz per acre
  – 8-10 fl oz per acre is a good rate for NW Michigan
  – 48 fl oz max per season

• Strobilurins(Gem, Adament)-good
• Boscalid + strobi (Pristine)-good
• Rovral (use at bloom for blossom blight phase)
Cherry Leaf Spot Control, 2010

• Leaf Spot – extreme inoculum trial in 2009

• Syllit FL – excellent leaf spot control; limiting defoliation
  – Syllit + Captan – recommended for resistance management

• USF2017B – new material looks very good!
Cherry Leaf Spot Control, 2010

• Adament, Gem, Pristine all look very good

• However, add Captan (3lb) for resistance management purposes
  – Based on experience with apple scab
  – Strobilurin resistance possibly on the horizon in leaf spot
  – Boscalid resistance also could occur in the future

• Don’t forget about copper!
Keep in mind. . .

- Adament, Gem, and Pristine are excellent powdery mildew materials
- Preharvest SI applications will not adequately control CLS
- Postharvest chlorothalonil for CLS
- Tank mix strobilurin fungicides with 3lb captan for resistance management
- Rotate modes of action