2010 Cranberry Field Day
Agenda

Inside
Updates on cranberry insects and weed control
   Kim Patten
Review of the IPM data for 2010, Sustainability, Tensiometers and Lapinometers
   Kevin Talbot, Ocean Spray Ag Scientist & Receiving Station Mgr.
Video of the Rust Farm crib construction and boom
   Nick Wood and Randy Rust
NRCS update
   Nick Somero
WSDA update on mandatory cranberry BMPs
   Robin Schoen-Ness
New chemigation and pesticide application equipment
   A&L Supply & Tom Hoffman, WSDA

Outside
General Farm tour- Wisconsin Boom, pump and irrigation system, Grygleski vines
Sprinkler uniformity testing, Lapinometer, Soil tensiometers (Kim and Kevin)
Backpack sprayer and belly grinder calibration (Kim and Chase)
Methods of filling in weak spots in beds (Kim and Chase)
Drainage system Assessment (Brian Mauza)
Chemigation/irrigation/spray equipment (A&L, Kim and Tom)
Tipworm and Strawberry Weevil Display (Chase)
• WSU Research* update
  – Weed control
  – Insect control
  – New varieties

* Research supported by WSCPR, WSCC, BCCRC, OS, NCSFR
Herbicides

- Quinclorac
  - Residues have been problematic with exports
  - Not registered on West Coast (pending)
  - OK herbicide, but no silver bullet

- Chlorimuron
  - SLN for Curio received June 2010
  - Great herbicide for buttercup, not much else

- Callisto Chemigation
  - Received in OR; WA is pending
Curio

• Registrant is PCCRF
• Waiver of liability – required
• Cranberry is not on the label; you need the SLN label to be legal. Those can be obtained once the waivers are signed.
• Order it via the PCCRF or on your own (assuming you have the label)-
• Product available now Check for $75 to PCCRF
Curio

• ½ to 1 oz/ac
• Wide window of application
• Early spring is best, but winter to summer also works (60 days PHI)
• Good margin of crop safety, but @ 1 oz/ac it is very easy to go way over the label and safety zone
• Calibration and careful measurement is a must
Curio

- ½ to 1 oz/ac
- Requires an adjuvant (1/4 % of NIS or 1% COC)
- See label for other restrictions
- Wide window of application
- Early spring is best, but winter to summer also works
- Good margin of crop safety, but @ 1 oz/ac it is very easy to go way over the label and safety zone
- Calibration and careful measurement is a must
Buttercup control
Buttercup control

- Curio applied February to April provides great control, but massive seed bank results in quick repopulation of beds.
- Some type of seedling control will be required to achieve lasting control.
  - 2\textsuperscript{nd} Curio, Callisto
  - Devrinol or Casoron
  - (pre or post-emergent)
Curio

- Other than Buttercup what is it good for? The following weeds are on the label as being controlled when applied to young actively growing weed less than 4” tall.
  - Beggar ticks
  - Cocklebur
  - Dandelion (above ground portion)
  - Morning glory
  - Pigweed, Redroot
  - Prickly Lettuce
  - Ragweed, Common
  - Smartweed
  - Ladysthumb
  - Yellow Nutsedge
Insect control

- Tipworm
- Weevil
- Fireworm
Tipworm
Tipworm

• Control options
  – Previous: Diazinon for 1\textsuperscript{st} and 2\textsuperscript{nd} generations with timing based on observation of larvae in tips
  – New:
    • Assail
    • Delegate
    • Belay
    • Insecticide M
## Tipworm control 2010

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Sprayed May 15
Current Tipworm control options

• Diazinon is adequate, but has issues
• Belay looks good – 3 weeks of control
• Assail and Delegate adequate control
  but more frequent treatment required
• M most promising- 50 days of control (registration pending)

A wee bit late for effective treatments in 2010, but might want to consider Belay
Blackheaded Fireworm

Blackheaded Fireworm

2 generations / year

Overwinters as egg
Fireworm 2010

• New chemistries with chemigation vs. Diazinon
  – Rimon
  – Delegate
  – Assail
  – Intrepid
  – Intrepid + Bravo
Fireworm 2010

- New chemistries with chemigation vs. Diazinon
  - Rimon: not effective
  - Delegate: both 3.25 and 6.5 rates effective
  - Assail: reasonable control, good bee-safe chemistry
  - Intrepid : comparable to Delegate
  - Intrepid + Bravo: no improvement in control of intrepid alone
Blackvine Weevil

Chemical trials

• Avaunt
• Assail
• Avaunt + Assail
• Rimon
Chemical trials – length of effective residue

• Avaunt:
  • not effective after 8 days
  • recommend sweeping after 4 days and retreating as needed
New weevil found on cranberry in Long Beach

• Strawberry root weevil
  – Avaunt – very effective against
Weevil control

- 2009 sweeping data from 2008 application
- Treatments: Avaunt, Assail, Nemasys L nematodes (*Steinernema kraussei*)
Variety Trials

• Self–Fruitfulness of cranberry selection (set with own pollen)
• Added 6 new selections (48 selections in 2009/2010 planting)
• Ramping up Willapa Red Vines
48 new selections planted 2009 background and 2010 in foreground
Willapa Red: Will aim to plant 1.5 acres in bed 3 with Willapa Red Spring 2011
Be different – try a new variety
Subsurface water management – using a water level float (demo on tour)

A water level float installed on cranberry bog in bloom.
Application Uniformity Rating – Coefficient of Uniformity

• <77% - very poor
• 77 to 82% poor
• 83 to 90 % acceptable
• >90% excellent
Questions?