

Great Lakes Fruit, Vegetable & Farm Market EXPO Michigan Greenhouse Growers EXPO







63 ROOT VEGETABLES

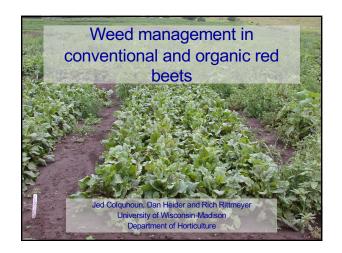
Where: Grand Gallery Overlook Room C & D

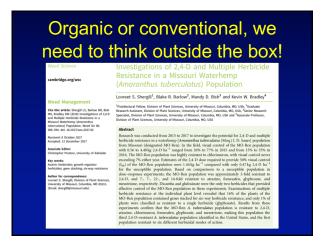
MI Recertification Credits: 2 (1B COMM CORE, PRIV CORE) OH Recertification Credits: 1.5 (presentations as marked)

CCA Credits: CM (1) PM (1)

Moderator: Ben Phillips, Michigan State University

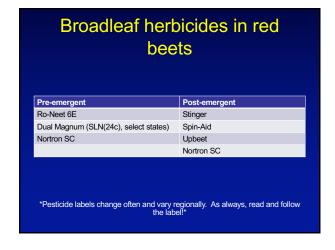
2:00 PM	Horseradish ProductionAlan Walters, Southern Illinois University
2:30 PM	Lorsban Alternatives for Cabbage Maggot in Brassica Root Crops (OH 2B, 1 hr) • Ben Werling, Michigan State University Extension
3:00 PM	Organic and Conventional Weed Control in Red Beets (OH 2C, 0.5 hr) • Jed Colquhoun, University of Wisconsin
3:30 PM	 Sweet Potato Production for Michigan: Can We Do It? Yes We Can! Ron Goldy, Michigan State University Extension
4:00 PM	Session Ends

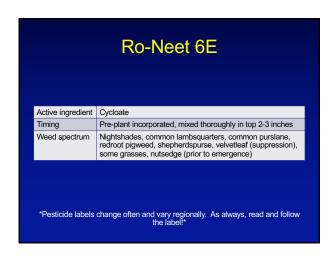


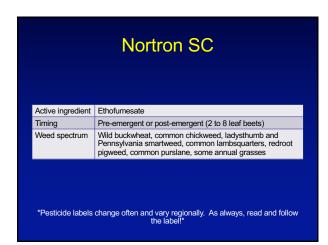


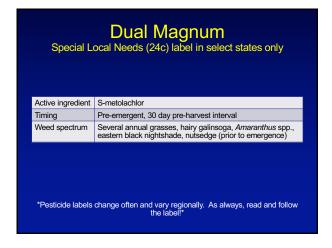




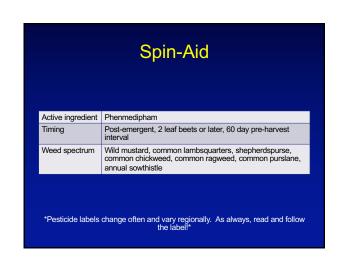












Active ingredient | Triflusulfuron methyl | Timing | Post-emergent, 2 to 8 leaf beets, 30 day pre-harvest interval | Wild mustard, shepherdspurse, velvetleaf | *Pesticide labels change often and vary regionally. As always, read and follow the label!*

Common themes among red beet herbicides Narrow spectrum of weed control, so the

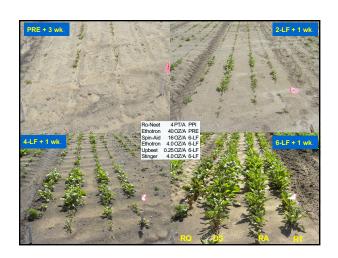
- Narrow spectrum of weed control, so they often need to be used together and in series
- The post-emergent products control very small weeds
- Limited options from after beet emergence until the 2 leaf beet stage

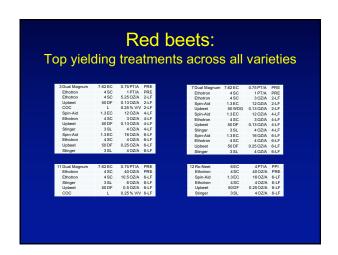
Locations: Silt loam soil – Arlington, WI Loamy sand soil – Plover, WI Plover Location Soil Type: Meehan Loamy Sand; OM 1.5-2.5% Varieties: Row Spacing: 19" Plot Design: 6' x 20', 4 replications, with with one row of each variety per plot











Lessons from red beet trials

- The loss of a.i. desmedipham (Alphanex, Betanex) is not catastrophic
- Varietal response to herbicides generally minor
- UpBeet provided excellent velvetleaf control
- Stinger in a single application had increased crop safety over a split-application

Integrated, non-herbicide components of a system

Stale seedbed:

- 1. Prepare seedbed about 3 weeks prior to planting
- Allow weeds to germinate, water if necessary
- 3. Destroy emerged weeds:
 - Flaming
 - Shallow tillage
- 4. Plant with minimal soil disturbance



In-row cultivation tools: torsion weeder

- Very simple, affordable design
- Spring-loaded rods vibrate to disrupt young weeds
- Often belly-mounted on a small tractor
- Spacing can be easily changed



In-row cultivation tools: finger weeder

- Rotating fingers rip weeds from soil
- Often belly-mounted on a small tractor
- Spacing can be easily changed



In-row cultivation tools: star weeder Source: Kress & Co.

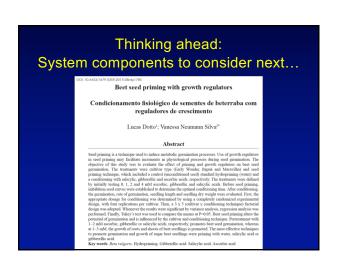
Between-row tools: basket weeder

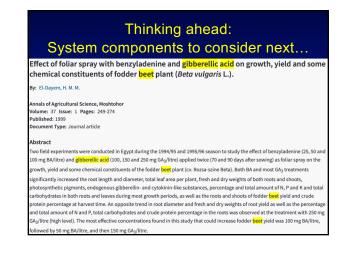
- Rolling baskets rip young weeds from soil
- Faster driving speeds
- Rocky and cloddy soils can be difficult
- Crop and weeds should be young (short)



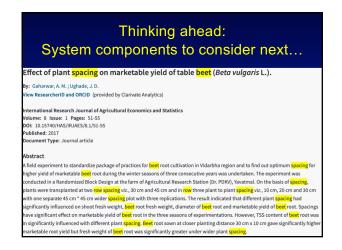












Closing thoughts

- Organic or conventional, time to think about a weed control system instead of individual tools in a tool box
- Areas to consider next:
 - Row spacing
 - Cultivar selection
 - Planting timing
 - Natural plant growth regulators