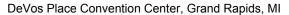


Great Lakes Fruit, Vegetable & Farm Market EXPO Michigan Greenhouse Growers EXPO

December 10-12, 2019



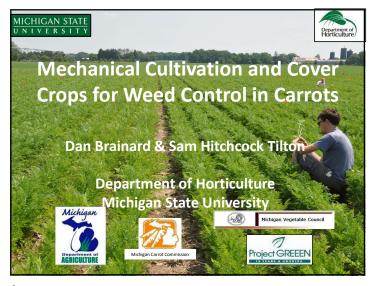


Carrot

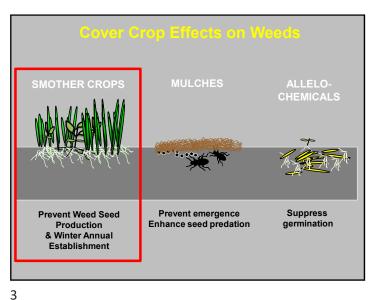
Moderator: Ben Werling, Michigan State University Extension

2:00 pm	 Impact of Ozonation and Other Sanitizers on Storability of carrots Trevor Suslow, Produce Marketing Association
2:40 pm	 Mechanical Cultivation and Cover Crops for Weed Control in Carrots Dan Brainard, Michigan State University Horticulture Department
3:00 pm	Sources and Symptoms of Different Strains of Aster Yellows in Carrots Carolyn Malmstrom, Michigan State University
3:30 pm	Investigating Nematicides and Cover Crops for Integrated Nematode Control (OH 2B, 0.5 hrs) • Marisol Quintanilla-Tornel, Michigan State University

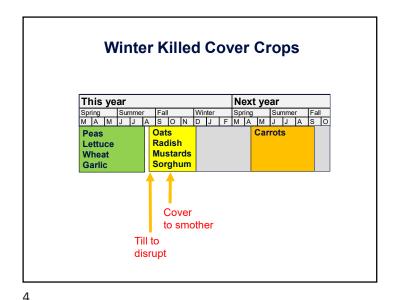
Carrot Cover Crop & Cultivation; Dan Brainard, Michigan **State University**



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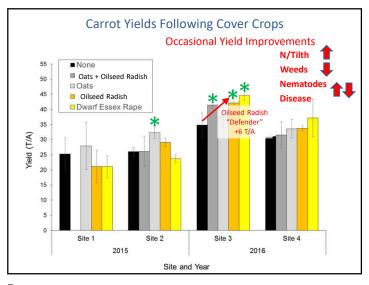


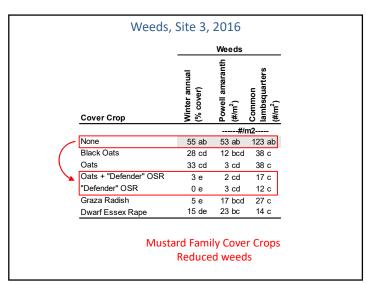
SUCCESSFUL CULTIVATION IS A PROCESS Bed Prep & Mechanical Cultivation **Planting** Stale Level Precise Right__ Right Prevention Seed-Bed **Planting** Tool Timing bed Prep



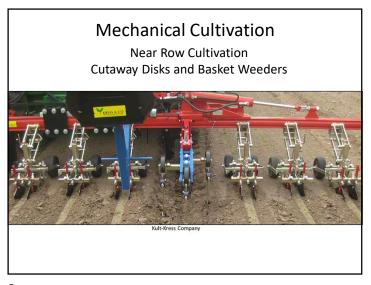
Great Lakes Expo, 2019 1

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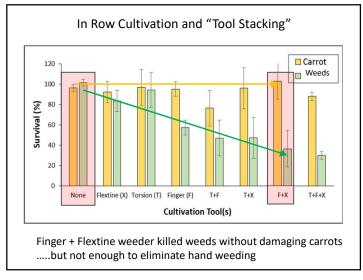






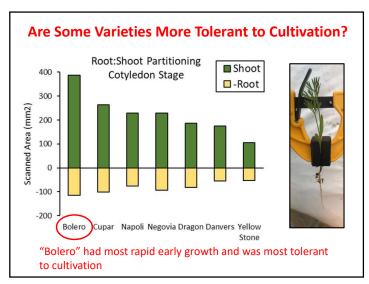
Great Lakes Expo, 2019

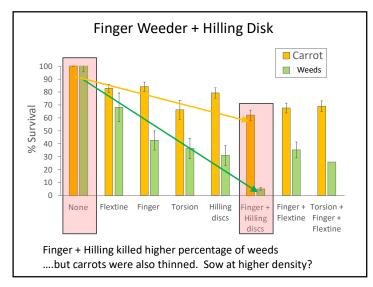
Carrot Cover Crop & Cultivation; Dan Brainard, Michigan State University



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Summary

- Cover Crop Effects:
 - Winter-killed mustard family cover crops like oilseed radish can suppress winter annual weeds and reduce tillage costs
 - Cover crops also reduce number of summer annual weeds (through reductions in seed production)
- · Mechanical Cultivation:
 - Prevention, preparation and near-row cultivation are critical for success.
 - Finger weeders are most flexible and forgiving in-row tool
 - "Tool stacking" can improve performance of in-row tools
 - Carrot cultivars with rapid early growth (e.g. Bolero) can improve success with cultivation.

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