



Instructions for Webinar Participation


Getting Started

- The webinar will start soon
- Audio is through your computer speakers or headset – ***you may not hear sound until webinar begins***
- Audio check - use the Audio Settings  options to do a sound check
- If you see presenters talking but do not hear audio, use the Question & Answer feature to indicate you are not getting sound

How to Ask Questions

1. Click on  icon found at the upper part of your screen
2. A box will open where you can type in questions, comments, indicate sound problems, etc.
3. You can use this throughout this webinar to ask questions

Technical Help

- Do your own sound check using the  option.
- Telephone (800) 500-1554 for technical support.

MSU EXTENSION 2016 BEGINNING FARMER WEBINAR SERIES

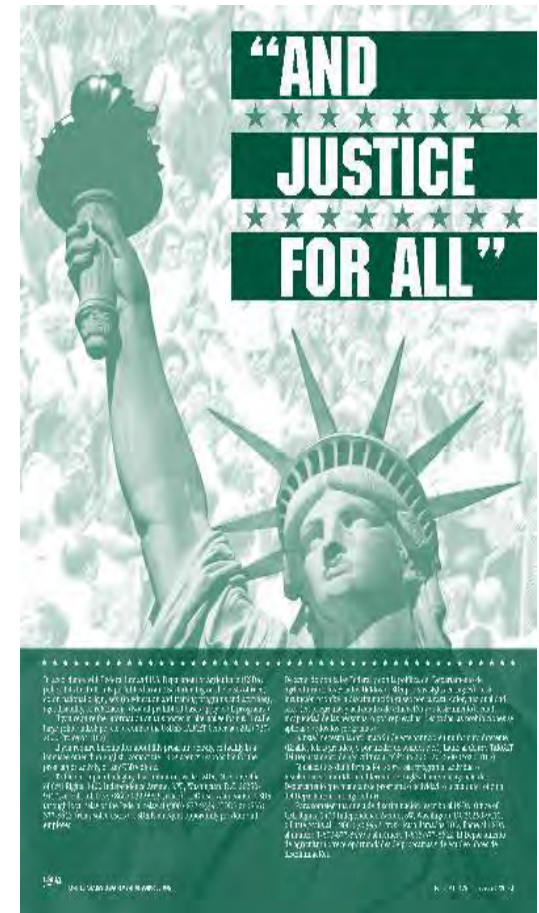


TWENTY THREE EVENING WEBINARS FOR PEOPLE WANTING TO 'GET STARTED' FARMING

January 20; 7:00pm EST

Getting Started With: Tomato Diseases, Insects and Disorders

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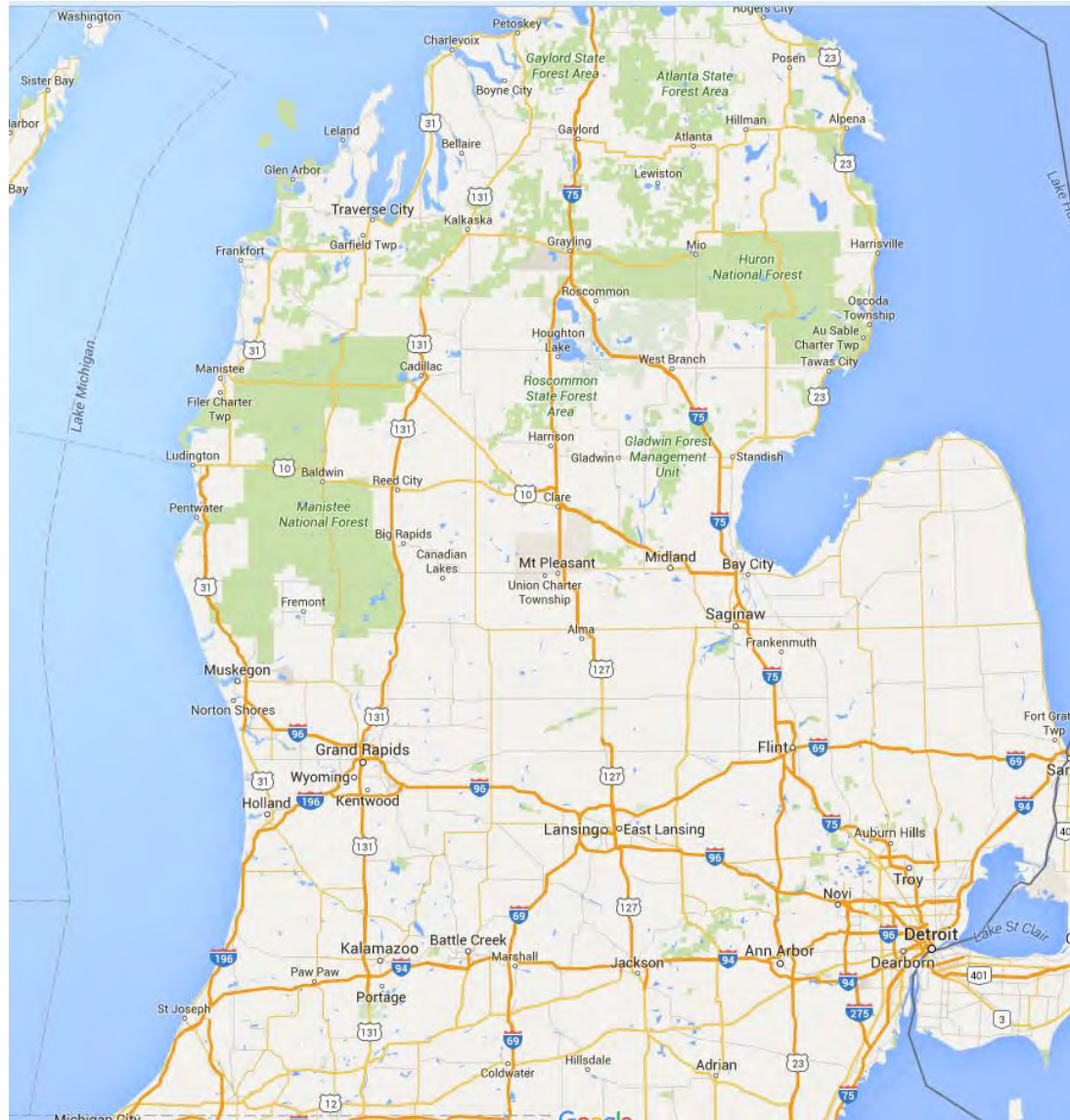


Getting Started With....

Tomato Diseases, Insects and Disorders

Dr. Ron Goldy, MSUE
Southwest Michigan Research and
Extension Center







Diseases:

Bacterial

Fungal

Viral





msue.anr.msu.edu



mrgoutham.blogspot.com



www.omafra.gov.on.ca

Bacterial Canker





ucanr.edu



www.omafra.gov.on.ca

Bacterial Speck





statebystategardening.com



Bacterial Spot



Bacterial Disease Control

Copper Products

Canopy management

Keep leaves dry

Clean Seed:

ohioline.osu.edu/hyg-fact/3000/3085.html



Early Blight



web.utk.edu





Late Blight



© Erik A. Draper



**Fusarium wilt infected tomatoes
in a high-tunnel greenhouse**



www.apsnet.org

Verticillium Wilt





iowavegetables.blogspot.com

Leaf Mold



mtvernon.wsu.edu

White Mold





www.plantmanagementnetwork.org



www.omafra.gov.on.ca

Gray Mold





Septoria Leaf Spot





Anthracnose





msucares.com

Buckeye Fruit Rot



Fungal Disease Control

Rotation

Mulch

Stake – Get them off the ground

Keep leaves dry

Canopy management

Fungicides





www.ulsterpublishing.com



citro.co.za

Spray early and often!



Tomato Spotted Wilt





Cucumber Mosaic



Tomato Mosaic

www.infonet-biovision.org



Tomato Yellow Leaf Curl

www.apsnet.org



Tobacco Etch Virus



Many Others



Figure 2. Western flower thrips, *Frankliniella occidentalis* (D. Riley 2011).



Controlling Virus Diseases

Clean Seed

Isolate from floral crops

No tobacco products

Weed control

Vector Control???

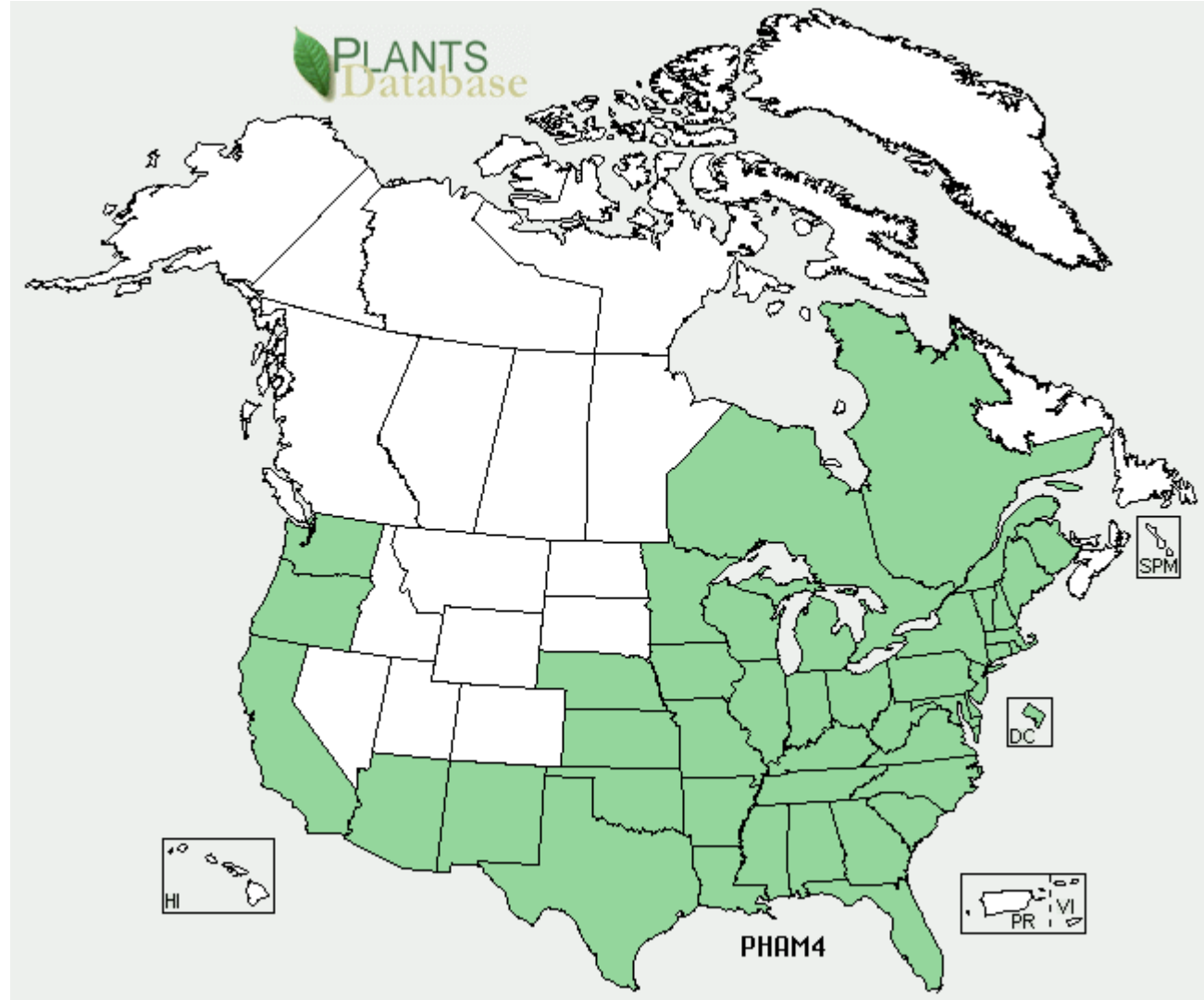




www.bamlog.com



TMV
CMV
Others



INSECTS





maggiesscienceconnection.weebly.com

Tomato Hornworm





extension.entm.purdue.edu

Tomato Fruit Worm (Corn Ear Worm)





agdev.anr.udel.edu

Yellow Striped Army Worm



entomology.k-state.edu





www.container-gardening-for-you.com



www.tomatocausal.com 480 × 320

Cutworms



University of Florida





www.oisat.org



www.omafra.gov.on.ca

Wireworm





Figure 2. Western flower thrips, *Frankliniella occidentalis* (D. Riley 2011).





ipm.illinois.edu

Colorado Potato Beetle





gardenofeaden.blogspot.com

Flea Beetles





Cabbage Looper



Spotted Wing Drosophila



www.mofga.org



Mites



ipcm.wisc.edu

www.missouribotanicalgarden.org





[pixgood.com](https://www.pixgood.com)

Root Knot Nematode



Controlling Tomato Insects

Rotation

Pesticides

Foliar application

Soil treatments



Tomato Disorders

Weather

Nutritional

Herbicides





Blossom End Rot

urbanext.illinois.edu



Causes of BER:

Low soil Calcium

Genetic

Wet – dry – wet – dry cycle

Weather





msue.anr.msu.edu

Growth Cracks



www.growstone.com





www.walterreeves.com

Cat facing and Zippering



www.missouribotanicalgarden.org





Sunscald

www.missouribotanicalgarden.org



Yellow Shoulder



msue.anr.msu.edu





Gray Wall



www.omafra.gov.on.ca





www.dispatch.com



Green/White
Core





Puffiness

www.extension.org



Blossom Drop



blackfoxbomestead.com









- Mg





Roundup

forums.gardenweb.com





txwinelover.com



www.abqjournal.com

2,4-D





forums.gardenweb.com

Leaf Curl



forums.gardenweb.com



QUESTIONS?

