

Missouri Tomato Conference

Monday and Tuesday, August 14 & 15, 2017

Joplin, Missouri

Tomatoes are Missouri's biggest selling specialty crop but they can be a challenging crop to grow successfully. Whether you grow in the field or under cover, you won't want to miss this conference featuring nationally known experts, as well as regional experts and local successful tomato farmers.

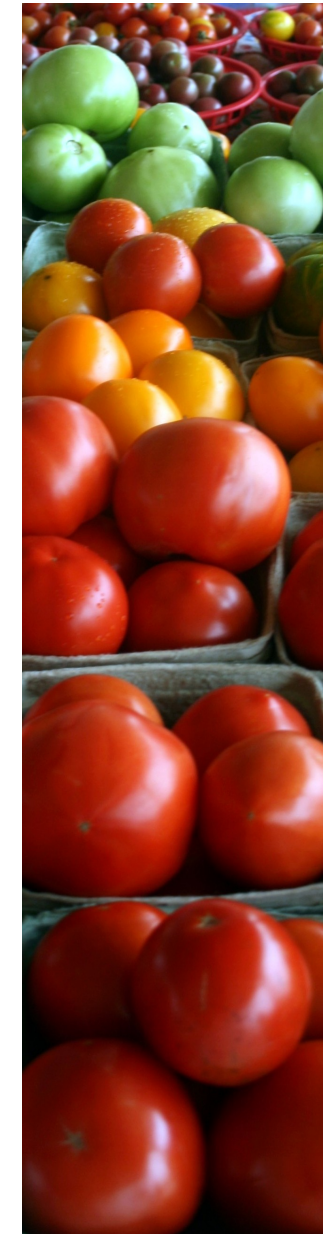


For additional brochures and registration forms go to:
www.webbcityfarmersmarket.com

Sponsors of the Conference:



The Missouri Department of Agriculture has funded a portion of this project, through a Specialty Crops grant.



The Webb City
Farmers Market



Eat local – Eat fresh

Missouri Tomato Conference

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Continental Banquet Center

(immediately behind Granny Shaffer's, 2728 North Rangeline, Joplin, MO)

Monday, August 14

Registration – 8 to 8:45 am

8:45—Welcome

9:00 am - 10:00 - **Introduction to Tomatoes - Rick Snyder**

Tomatoes are the most important commercial vegetable crop in Missouri. This presentation will introduce tomato culture, both in the field and in protected structures (greenhouses, high tunnels, caterpillar tunnels). Topics of interest will include tomato history, site selection, soil characteristics, choice of cultivar, transplant production, training/trellising options, and harvest/postharvest handling.

10:00 - 11:00 - **Tomato Insect IPM & major challenges - Richard Weinzierl**

Tomatoes are subject to a number of insect pest issues. This presentation will cover development of a tomato IPM program with an emphasis on pest identification, monitoring practices, cultural practices to manage pests, and developing a tomato spray program. Major tomato insect pest management will be highlighted, including tomato fruitworm, brown marmorated stink bug and other stink bugs, tomato hornworm, mites, aphids, and tomato pinworm.

11 - Noon - **Diagnosing & Addressing Tomato Disease Issues - Sherrie Smith**

Management of tomato diseases (fungal, bacterial, and viral) is critical to successful tomato production. This presentation will introduce the major tomato diseases, discuss disease identification, and focus on development of a disease management plan. Additional topics include identification of tomato nutritional deficiencies and herbicide drift issues.

Noon - 1:00 pm - Lunch - **Eat with an Expert -**

- **Fue Yang (tomato farmer)** – high tunnel growing - Practical experience in high tunnel production of indeterminate tomatoes
- **Shon Bishop (Lincoln University)** – high tunnel modifications for tomato – designing a high tunnel for both determinate and indeterminate tomato production
- **Patrick Byers (University of Missouri)** – heirloom tomato production – specific recommendations for heirloom tomato production
- **Robert Balek (University of Missouri)** – tomato sampling demonstration – procedures for sampling tomatoes at farmers markets and other interfaces with the public
- **NRCS field staff** – high tunnel cost share program – opportunities through NRCS to partially fund a high tunnel for tomato production

- **Karen Scott (tomato farmer)** – Getting the most out of seconds and unsold tomatoes -
– value added processed tomato products

1:00 - 3:00 pm - Concurrent Sessions

Track 1: Field Tomatoes -

Farmer presentation - Tami Frederickson - Field tomato production from an experienced grower's perspective will include a discussion of site selection and preparation, starting transplants, establishing a planting, tomato management, harvest, and marketing.

Tomato insect management in the field – Richard Weinzierl - Management of tomato insect pests in field grown tomatoes, including identification of common tomato pests, monitoring pests, exploring control options, and developing a tomato spray program. Organic options will be part of the discussion.

Track 2: Greenhouse and High Tunnel tomatoes

Basics of tomato management in structures – Rick Snyder—Tomato production in a greenhouse or high tunnel. Topics will include selecting a production structure, choosing a cultivar, preparing the site, establishing tomatoes in a structure, managing the structure environment, trellising, pest management, and harvest/postharvest handling.

Farmer presentation – Karen Scott - Tomato production in high tunnels from an experienced grower's perspective will include a discussion of site selection and preparation, starting transplants, establishing a planting, tomato management, harvest, and marketing.

3:00 - 4:00 - Tomato fertility management and quality issues – Rick Snyder

Tomato fertility management is critical to successful production, and has a direct impact on fruit quality at harvest. This presentation will focus on fertilizing tomatoes, managing tomato nutrition in the field and in protected structures, and identifying and correcting tomato nutritional issues on both fruit and plants.

4:00 - 5 - Tomato grafting update – David Loewen

Farmers are increasing adopting tomato grafting as an opportunity to increase production and address disease issues. This presentation will discuss the grafting process, with an emphasis on recently developed techniques to improve tomato grafting success and the performance of grafted plants.

Tuesday, August 15

8:30 am - 12:30 - Farm tours and on-farm demonstrations of three area farms with both field & protected tomato crops led by our presenters & other experts

- *All presentations subject to change.*

Presenters



Dr. Rick Snyder – Dr. Rick Snyder – Dr. Snyder is Extension/ Research Professor at the Truck Crops Experiment Station, Crystal Springs, MS. His areas of specialty include greenhouse tomatoes and other vegetables, field vegetables, and mushrooms. Dr. Snyder hosts the well-known Mississippi Greenhouse Tomato Short Course, now in its 27th year, and is a highly sought speaker on all aspects of greenhouse tomato production.

Richard Weinzierl – Dr. Weinzierl is Professor Emeritus in the Department of Crop Sciences, University of Illinois, where his emphasis since 1991 has been on insect pest management in fruit and vegetable crops. His extension research and teaching has focused on applied Integrated pest management.



Sherrie Smith - Sherrie Smith serves as Plant Diagnostician at the Arkansas Plant Health Clinic, located in Fayetteville, AR. Smith began her career at the Plant Health Clinic in January 2006 after completing her M.S. degree in plant pathology at the University of Arkansas. The clinic serves Arkansas growers, homeowners and nurserymen who have plant disease problems or other plant health issues. The clinic also has a portable lab that Sherrie takes to field days, flower and garden shows, and Master Gardener events.



David Loewen - Born and raised in central Kansas, David attended Tabor College where he received his B.A. in biology, with minors in art and missions while playing two sports. After a brief stint as a special education para-educator for kindergartners, he enrolled at Kansas State University where he will soon begin his fifth (and hopefully final) semester as a masters student in the K-State Horticulture: Urban Food Systems program. While at Kansas State, he has worked on projects related to tomato and pepper grafting.

Tami Fredrickson owns and operates, with her family, Fredrickson Farms in Carl Junction, Missouri, raising specialty crops for direct sale through the Webb City Farmers Market, restaurants and on-farm sales. The farm has tomatoes both in the field and in an open-ended high tunnel. She plans to add an additional tunnel to the operation this fall.





Karen Scott, with her husband Doug, owns and operates Oakwoods Farm near Granby, Missouri. Oakwoods includes field plantings as well as two unheated high tunnels used for season extension tomatoes and cool weather crops in the winter. Karen serves as the mentor for the Webb City Farmers Market's Year-Round Education Center.

Table Topic Presenters, in addition to presenters above:

Right - Byers, right, and Bishop, left, confer with farmer Nhia Xiong in Nhia's high tunnel.



Patrick Byers is Regional Horticulture Specialist with the Webster County office of University of Missouri Extension with extensive experience in both field and protected tomato production.

Shon Bishop is a Small Farm Specialist for the Innovative Small Farmers Outreach Program (ISFOP) with extensive experience in high tunnel installation. He also is the lead extension specialist for the Year-Round Education Center.

Robert Balek is a horticulture specialist with the Jasper County office of University of Missouri Extension and works with tomato growers in Southwest Missouri. *Photo above left—Balek assists with one of the many Extension high tunnel installation workshops held in Southwest Missouri*



Fue Yang (left) is the manager of the Year-Round Education Center located on his family's farm, Yang Family Farm, near Rocky Comfort, Missouri. Now in his second year of managing a heated tunnel for growing tomatoes and other warm weather crops and an unheated tunnel for cool weather crops, as well as a seed starting house, Fue has acquired many of the skills needed to mentor other new growers.

Directions to conference:

From the south—Take US 49 to the Zora Street exit. Turn west on Zora, turn north on Rangeline Road. (or if you are already on Rangeline, just go north) The Continental Banquet Center is located on the left about .2 miles past Zora

From the east— From I-44, take the exit 15, go north on US 49 to the Zora Street exit. Turn west on Zora, turn north on Rangeline Road. The Continental Banquet Center is on the left about .2 miles after you turn.

From the west— Mo 171 to Webb City, turn right on Madison which turns into Rangeline in Joplin. The Continental Banquet Center is on the right about 1.7 miles after you turn onto Madison.

From the north— US 71 to Mo 171, turn west toward Webb City. In Webb City, turn south on Madison which turns into Rangeline in Joplin. The Continental Banquet Center is located on the right about 1.7 miles after you turn onto Madison.

Accommodations— Attendees have two discounted options for overnight stays.

The Comfort Inn, 2400 South Rangeline, offers a rate of \$80 per night, plus tax. To reserve your room, call 417 627-0400.

The Quality Inn, 3325 S Arizona Avenue. offers a rate of \$69 per night, plus tax. To reserve your room, call 417 627-0440 .

Both hotels are located in Joplin 15 to 20 minutes from the conference site. The rate is good for any day but you must ask for “the Webb City Farmers Market business rate”.

Registration Form— Registration includes lunch on August 14 and all presentation hand outs & farm tours, & the Greenhouse Tomato Handbook by Dr. Snyder(1 per family or farm).

Mail with check made out to Webb City Farmers Market to :

Webb City Farmers Market, PO Box 1, Webb City, MO 64870

To charge your registration on a card, or for questions call Eileen at 417 483-8139.

Name

Farm/Business Name

PO Box/street address

E-mail address

Town/State/Zip

Telephone

Additional person(s) attending:

Email or mailing address if different from above

Registration fees enclosed

(____ persons x \$30 each) \$ _____

Total enclosed: _____

Dietary or other information: