



## Conservation Tillage & Technology Conference

to be held at

**McIntosh Center  
Ohio Northern University  
402 West College Ave.  
Ada, Ohio 45810**

on

**Tuesday-Wednesday  
March 3-4, 2020**

**CTC 2020 Sponsored by:**

- Ohio State University Extension and OARDC
- Northwest Ohio Soil & Water Conservation Districts
- USDA Natural Resources Conservation Service
- USDA Farm Service Agency
- The Ohio No-Till Council
- Ohio Farm Bureau
- Ohio Corn Marketing Program
- Ohio Soybean Council
- AgCredit
- Seed Consultants
- Farm Science Review

See web site at <http://ctc.osu.edu>

## Wingfield Crop Insurance Service proudly supports the 2020 Conservation Tillage Conference



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## CTC Location

Ohio Northern University is located between Lima and Kenton, north of Rt 309 on Rt. 235. For GPS: use 402 West College Ave., Ada, OH

## Room Reservations

**The Inn at Ohio Northern University**  
419-772-2500  
Special CTC rate: \$115 plus tax (plus \$20 each additional guest)

Kenton, Rt. 67, east of Rt 31  
**Country Hearth & Suites**, 419-675-1400

Lima, I-75 at SR 309  
**Hampton Inn** 419-225-8300  
Special CTC rate: \$109 plus tax (call by Feb. 24)

Bluffton, I-75 at Rt 103  
**Comfort Inn** 419-358-6000  
Special CTC rate: \$79 plus tax (For 1-2 people; call by Feb. 24)

For more information Call:

Registration  
Allen SWCD 419-223-0040 Then press 3

Details on Program and CCA Credits  
OSU Extension, Hardin County – 419-674-2297

For updated program go to: <http://ctc.osu.edu>

## REGISTRATION FORM or Register online at <http://ctc.osu.edu>, up to March 1

Early Registration \$70/day or \$95 for both days  
Registration (mailed after Feb.21) \$85/day or \$115 for both days

Name(s) \_\_\_\_\_

(Please list all names if registering for a company)

Farmers: How many acres of cropland? \_\_\_\_\_  
Crop Consultants: How many acres do you manage? \_\_\_\_\_

One Day Registration \_\_\_\_\_ @ \$70=\$  
Which day? Tues. \_\_\_\_\_ or Wed. \_\_\_\_\_  
Two Day Registration \_\_\_\_\_ @ \$95=\$

Subtotal \$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

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\$ \_\_\_\_\_  
Amount Date

Return with payment to: Conservation Tillage Conference, Allen SWCD, 1601 East Fourth St., Suite B, Lima, Ohio 45804  
If CTC is cancelled due to unforeseen circumstances, we reserve the right to use funds for next year's conference.

## CTC Program Overview

The main program starts with the General Session at 8:50 Tuesday (10 minutes earlier than usual). At the start of the session, the Ohio Certified Crop Adviser of the Year will be named and the *Ohio Farmer* magazine will honor two new Master Farmers.

Lee Briese, an award-winning Crop Consultant from North Dakota will be our General Session speaker. Topic: Details Matter. He will present two more talks in the Chapel: Herbicide/cover Crop Interactions and Transitioning to a No-Till System.

Sjoerd Duiker, an OSU PhD graduate in Soil Science, now at Penn State University, will also give three presentations: Moving to No-till; Dealing with Poor Soil Structure and Soil Compaction; and Repairing Ravaged Soils.

Two full-day concurrent sessions will begin at 8:00 a.m. **Cover Crops, No-till and Soil Health** will be in the Chapel, and **Nutrient Management** in Room B. The session in the Chapel will break at 9:15 for Lee Briese's presentation.

Starting at 10:30, four concurrent sessions take over. The Tuesday program includes **Crop Management and Precision Technology** and **Hemp, plus Forage Cover Crops**. The sessions will end about 5:30 p.m.

The Wednesday lineup of concurrent sessions includes: **Crop Management and Precision Technology; Managing Cover Crops; Water Quality;** and **Building on Ohio No-till Success**. The Cover Crops and Water Quality sessions start at 8:00, the Crop Management session starts at 8:30, and the No-till session at 10:50. Sessions will end about 4:30 p.m.

**CCA credits** will be available, with an emphasis on Soil & Water, Nutrient Management, and Crop Management. We expect 400 crop consultants to attend.

Our primary audience is farmers, but we provide CCA credits as an extra benefit for crop consultants. **Certified Livestock Manager (CLM) credits** will be available. Details will be posted in February.

The **full program is online** at: [ctc.osu.edu](http://ctc.osu.edu). Look for changes/additions in speakers and topics. Also, connect with us on Facebook: Conservation Tillage and Technology Conference.

**Crop Management and Precision Technology** will feature Extension Specialists including Prof. Duiker, Josh McGrath (U of Kentucky), Lance Conway (U of Missouri), and Peter Thomison and Stephanie Karhoff (both OSU). Topics include Precision application of nutrients, Corn lessons from 2019, Fallow soil syndrome, and Using Sensor Metrics for Agronomic Decisions.

The **Nutrient Management** session has 12 topics. The program begins with Update on Manure Utilization Research Efforts in Ohio (Glen Arnold, OSU). Erica Rogers & Sarah Fonczak of Michigan State University will present Online Tools for Conservation Planning and Implementation; Christine Brown, Ministry of Agriculture, will present Canadian Livestock Producers Efforts to Improve Water Quality; and Martha Moore will discuss Chesapeake Bay TMDL: positive and negative issues farmers face meeting the nutrient load reductions. The other timely presentations are by OSU Extension Educators and other Ohio folks.

The **Cover crops, no-till, & soil health** program has 8 presenters. In addition to presentations by Prof Duiker and Dr. Lee Briese, Jason Mauck of Indiana will speak on Interseeding cover crops, and Chad Penn, USDA-ARS, on a new approach to soil Phosphorus testing. Jim Hoorman will discuss Dealing with cover crops after prevented planting. Jeff Stachler (OSU Extension) will discuss Herbicide programs with cover crops to follow, and Jessica D'Ambrosio, (The Nature Conservancy) will talk on the new OACI organization.

The new session on **Hemp, plus Forage Cover Crops** has presentations on hemp by Jim Belt (ODA), Dr. Rajbir Bajwa (Medical Cannabis expert), and Craig Schluttenhofer (Central State U.). Topics on cover crops will be presented by Christine Gelly and Sarah Noogle (both OSU Extension). John Barker (OSU Extension) will discuss UAVs.

**Day 2 (Wednesday)** features four concurrent sessions.

The **Crop Management and Precision Technology** session includes these university speakers: Sjoerd Duiker, Jim Camberato (Purdue), and Dennis Pennington and Manni Singh (both Michigan State). Also two from OSU, Steve Culman and Laura

Lindsey. Topics include: Nitrogen management, Tri-State recommendations, Adding wheat to a rotation, and Optimizing Planting date.

The session on **Water Quality** has 11 presentations. Chris Nietch (USEPA) will discuss EPA research on Nutrient management for water quality protection. Five presenters from USDA-ARS (Will Osterholz, Kevin King, Chad Penn, Brittany Hanrahan and Mark Williams) will discuss topics including: Drainage Water Management, Phosphorus Removal Structures, Preferential Flow, Legacy P, and Edge of Field structures. Justin McBride (ODA) will discuss new practices including cascading waterways. Laura Johnson (Heidelberg U) and Greg LaBarge (OSU Extension) will discuss the impact of the 2019 growing season on Lake Erie algae. Peggy Hall (OSU Extension) will cover Current issues in Ag Law. Jordan Hoewischer (Ohio Farm Bureau) will discuss the new OACI Farmer Certification Program, and ODA officials will discuss the H2Ohio Plan: Implementation and Available Practice Cost Share.

The **Cover Crop** session has 8 presentations including a Farmer Panel. Barry Fisher (USDA-NRCS) will present Regenerating soil function after extreme weather and prevented planting. Jerry Grigar (Michigan NRCS, retired) will share his success with Long-term No-till. Dr. Mary Barbercheck, (Penn State) will discuss Metarhizium Fungi. David and Jay Brandt will discuss their Early maturing Corn and Soybean trials. Dr. Curtis Young (OSU Extension) will share how Beneficial Insects can benefit from cover crops. Alan Sundermeier (OSU Extension) and Vinayak Shedekar (OSU) will discuss how Soil biology responds to BMPs.

The **Building on Ohio No-till Success** session will start at 10:50. Warren Dick and Steve Culman (both OSU-OARDC) will discuss what we've learned from the historic no-till research plots since 1962 and focus for the future. They will include specific information on stratification, organic carbon and yield trends. John Grove (U of Kentucky) will share successes learned from 50 years of no-till research. Fred Yoder (former President of Nat. Corn Growers) will discuss No-till and climate change. A panel of Bill Richards, Fred Yoder, and David Brandt will lead discussion of No-till, Climate, and Federal/ State Policies.

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**Tuesday-Wednesday  
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- ~65 presenters
- ~12 hours of Nutrient Management
- ~12 hours of Soil & Water
- ~12 hours of Crop Management
- Crop Management and Precision Tech. (both days)
- Nutrient Management (starting at 8:00 am Tues.)
- Cover crops, no-till, & soil health (also at 8:00 Tues.)
- Hemp, plus Forage Cover Crops (at 10:30 Tues.)
- Managing Cover Crops (at 8:00 am Wed.)
- Water Quality (at 8:00 am Wed.)
- Building on Ohio No-till Success (at 10:40 Wed.)
- Speakers from 8 universities
- Farmer, industry, ODA & USDA speakers

### Certified Crop Advisers (CCA)

The preferred sign-in during each presentation will be by an app on your smart phone. Limited sign in sheets will be available. (Links to download an app are at: [ctc.osu.edu](http://ctc.osu.edu))

### Major Supporters

- **Ohio Corn Marketing Program**
- **Ohio Soybean Council**
- **Ohio Farm Bureau**
- **AgCredit**
- **Seed Consultants**
- **Farm Science Review**
- **Wingfield Crop Insurance**
- **The Andersons**