Starting December 1, take 20 minutes or less each day to get yourself ready for the DIRT Workshop! You’ll receive links to short videos, Field Check podcast episodes and other online materials on the following topics. Be sure to register by November 30 to get all this great information sent directly to your email inbox.

**DEC 1** GETTING FAMILIAR WITH SOIL HEALTH

**DEC 2** TYPES OF COVER CROPS

**DEC 3** GRAZING MANAGEMENT WITH COVER CROPS

**DEC 4** COVER CROPS IN CORN AND SOYBEAN

**DEC 5** COVER CROPS SMALL GRAINS

**DEC 6** SOIL HEALTH PRACTICES FOR MANAGING WATER

**DEC 7** HOW TO NAVIGATE TOMORROW’S VIRTUAL DIRT WORKSHOP
**DECEMBER 8**

**8:45-9:15** MEET YOUR HOSTS AND GET READY
Start the day off by meeting your hosts, Tim Hammerich from the Soil Sense and Field Check podcasts and Dr. Abbey Wick with NDSU Extension Soil Health. We’ll let you know how we are going to make this an exciting and entertaining couple of days. You’ll also hear about practices prior attendees are considering adopting or recommending after last year’s first annual workshop.

**9:15-9:35** HEALTHIER SOILS: NOT JUST A PRESCRIPTION, BUT RATHER A PURSUIT
Tim Hammerich will share his perspective on what’s happening with soil health in North Dakota. As host of both the Soil Sense and Field Check podcasts, he’s visited with over 50 farmers, consultants, researchers and Extension about how they are working together to understand and advance the use of soil health practices on-farm. This will set the stage for how to approach building healthier soils - not just a prescription, but rather a pursuit.

**SESSION 1** ADOPTING CONSERVATION TILLAGE

**9:35-9:45** FIELD VIDEOS – REDUCING TILLAGE
Field videos on soil health and reduced tillage will be used to introduce those leading the research discussion. Gain insight from these experts on science-driven soil health approaches.

**9:45-10:15** RESEARCH DISCUSSION – MANAGEMENT IN REDUCED TILLAGE SYSTEMS
Anthony Bly, SDSU  
Aaron Daigh, NDSU  
Caley Gasch, NDSU

CEU’s Offered: 0.5 Soil and Water

**10:15-10:30** BREAK AND VISIT VIRTUAL EXHIBIT HALL

**10:30-11:00** ON-FARM TIPS AND IDEAS - REDUCING TILLAGE
Sam Landman, Logan Center, ND  
Steven Schuster, Minto, ND  
Lee Trautman, Jamestown, ND

CEU’s Offered: 0.5 Soil and Water

**11:00-12:30** CAFÉ TALKS
Three rounds of 30-minute discussion sessions hosted on a dozen different topics. Take this opportunity to talk with presenters and others working in the area of soil health. There will also be a virtual hallway where attendees can relax and catch up with others on whatever topic they’d like. *(The list of Cafe Talks is listed at the end of this document)*

**12:30-1:30** LUNCH BREAK AND VISIT VIRTUAL EXHIBIT HALL
<table>
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<th>Time</th>
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| 1:30-1:45 | **COVER CROP HIGHLIGHTS FROM SOIL SENSE**  
*Tim Hammerich and Abbey Wick*  
Tim and Abbey will bring us back after lunch by sharing some of the interesting cover crop practices highlighted on the Soil Sense podcast. There’s a connection between both research of practices and how they are being applied on-farm and vice-versa, how on-farm work in driving research questions. |
| 1:45-2:00 | **FIELD VIDEOS – COVER CROPS**  
Field videos collected this fall on using cover crops in corn, soybean and after small grains will be shown to introduce those leading the research discussion. See what researchers are learning across North Dakota, Iowa and Wisconsin. |
| 2:00-2:40 | **REGIONAL RESEARCH DISCUSSION – COVER CROPS**  
*Dave Franzen, NDSU*  
*Stefan Gailans, Practical Farmers Iowa*  
*Hans Kandel, NDSU*  
*Matt Ruark, U Wisconsin Madison*  
CEU’s Offered: TBD |
| 2:40-3:00 | **BREAK AND VISIT VIRTUAL EXHIBIT HALL** |
| 3:00-3:30 | **ON-FARM TIPS AND IDEAS – COVER CROPS**  
*Greg Amundson, Gilby, ND*  
*Dan Forgey, Gettysburg, SD*  
*Tony Wagner, Jamestown, ND*  
CEU’s Offered: 0.5 Crop Management |
| 3:30-3:40 | **FIELD VIDEOS – COVER CROPS IN SPECIALTY CROPS**  
Field videos highlighting research on cover crops in dry beans, sugar beets and sunflower will be used to introduce those leading the research discussion. By visiting their research plots, you’ll get a feel for how recommendations are being made for incorporating cover crops while reducing risk of impact on the cash crop. |
| 3:40-4:10 | **RESEARCH DISCUSSION – COVER CROPS IN SPECIALTY CROPS**  
*Amit Chatterjee, NDSU*  
*Greg Endres, NDSU*  
*Abbey Wick, NDSU*  
CEU’s Offered: 0.5 Crop Management |
| 4:10-4:15 | **WRAP UP TO DAY 1**  
*Tim Hammerich and Abbey Wick*  
We’ll touch on highlights of the first day of the DIRT Workshop and make sure everyone is ready for the content in Day 2. |
8:45-9:00  WELCOME BACK TO DIRT  
Tim Hammerich and Abbey Wick

Innovation is key to advancing soil health practices. In this first session of Day 2, we'll share information about those innovative ideas from research, consultant and farmer perspectives.

We'll dive into our first innovative approach on wide-row corn with cover crops, this came up a few times during the Soil Sense podcast and check-in with those who did research on it and those who tried it on their farms.

9:00-9:20  FIELD VIDEOS – WIDE-ROW CORN RESEARCH
The concept of wide row corn is new for our region and has certainly gained a lot of interest from farmers. Watch field videos collected this fall from research plots and a replicated in-field experiment using cover crops in wide-row corn. This will introduce our next discussion with researchers and an independent crop consultant about benefits and concerns with this practice.

9:20-9:50  RESEARCH DISCUSSION – WIDE-ROW CORN
Lee Briese, Centrol Ag
Kelly Cooper, NDSU
Mike Ostlie, NDSU
Joel Ransom, NDSU

CEU's Offered: 1.0 Crop Management

9:50-10:05  FIELD VIDEOS – WIDE-ROW CORN ON-FARM
You'll get to see the on-farm experiments as we introduce the farmers and ranchers for the next discussion. Learn more about the goals of each farmer/rancher in trying this practice, the things they'd keep the same or change as they learn more about how this practice might (or might not) work for their operations.

10:05-10:35  ON-FARM TIPS AND IDEAS – WIDE ROW CORN
Joe Breker, Farmer, Rutland, ND
Mike Schaefer, farmer, New Rockford, ND
Chris Walberg, Farmer/Rancher, Leonard, ND
Tyler Zimmerman, Farmer, Leonard, ND

CEU's Offered: 0.5 Crop Management

10:35-10:50  BREAK AND VISIT VIRTUAL EXHIBIT HALL

10:50-12:20  CAFÉ TALKS
Three rounds of 30-minute discussion sessions hosted on a dozen different topics. Take this opportunity to talk with both presenters and others working in the area of soil health. There will also be a virtual hallway where attendees can relax and catch up with others on whatever topic they'd like. (The list of Cafe Talks is listed at the end of this document)

CEU's Offered: (The list of Cafe Talks is listed at the end of this document)

12:20-1:30  LUNCH BREAK AND VISIT VIRTUAL EXHIBIT HALL
1:30-1:40 FIND OUT WHAT’S NEXT
Tim Hammerich and Abbey Wick
Afternoon sessions include highly specialized topics that were also highlighted in the Soil Sense podcast. We’ll talk more about grazing cover crops and managing problematic areas with salts or low pH soils. Then we’ll finish off with approaches that push the envelope, like intercropping, relay cropping and interseeding perennials. This afternoon session is definitely going to get you thinking out of the box!

1:40-1:50 FIELD VIDEOS – GRAZING COVER CROPS
New 2020 field videos on grazing cover crops will be used to introduce those leading the research and rancher discussion. Find out how they are testing new approaches and applying those practices with livestock producers in North Dakota.

1:50-2:30 DISCUSSION – GRAZING COVER CROPS
Jerry Doan, Rancher, McKenzie, ND
Mary Keena, NDSU
Miranda Meehan, NDSU
Kevin Sedivec, NDSU
CEU’s Offered: 1.0 Crop Management

2:30-2:35 FIELD VIDEOS – SALT-AFFECTED SOILS
We all have problematic spots in the field and managing them can seem daunting. Take a tour with Extension to visit on-farm demonstrations addressing salt management in eastern North Dakota and also another issue of low pH management in Southwestern North Dakota. Meet the experts on our next two panels as they figure out how to make these areas more productive.

2:35-3:05 RESEARCH DISCUSSION - MANAGING SALTS
Naeem Kalwar, NDSU
Cheryl Reese, SDSU
CEU’s Offered: 0.5 Soil and Water

3:05-3:20 BREAK AND VISIT VIRTUAL EXHIBIT HALL

3:20-3:30 FIELD VIDEOS – MANAGING LOW PH SOILS
Visit the lab and field to learn more about soil acidification and management. Meet the experts on our next panel as they figure out how to make these fields more productive.

3:30-3:50 RESEARCH DISCUSSION – MANAGING LOW PH SOILS
Ryan Buetow, NDSU Dickinson Research Extension Center
Mark Liebig, USDA ARS, Mandan, ND
CEU’s Offered: 0.5 Soil and Water
FIELD VIDEOS – INTERCROPPING AND RELAY CROPPING
See the research being done by those leading our final discussion on intercropping, relay cropping and perennials in annual crops. They share why these practices could be used, how it’s working and what to expect. Get the information you need to reduce risk if you want to try some of these practices.

RESEARCH DISCUSSION – INTERCROPPING AND RELAY CROPPING
Marisol Berti, NDSU
Russ Gesch, USDA ARS, Morris, MN
Mike Ostlie, NDSU Carrington Research Extension Center

CEU’s Offered: 0.5 Crop Management

SEE YOU NEXT YEAR...
Thanks for joining the 2020 Virtual DIRT Workshop! We’re looking forward to 2021 when hopefully we can meet in person. But who knows, we may still offer the virtual experience as part of a hybrid event.

Be sure to fill out your program evaluations in your email inbox so we can gauge the effectiveness of the virtual format and make these important decisions for how to host DIRT 2021!
Three rounds of 30-minute discussion sessions hosted on a dozen different topics. Take this opportunity to talk with presenters and others working in the area of soil health. There will also be a virtual hallway where attendees can relax and catch up on whatever topic they'd like.

CEU’s Offered: Listed Below

1. **Soil Biology Function** – Caley Gasch (NDSU), Lindy Berg (NDSU Extension Towner Co.)
   CEU: 0.5 Soil and Water

2. **Details Matter - Soil Health System Considerations** – Lee Briese (Central Ag), Angie Johnson (NDSU Extension Steele Co.)
   CEU: 0.5 Crop Management

3. **Getting into a Reduced Till System** – Aaron Daigh (NDSU), Katelyn Landeis (NDSU Extension Grand Forks Co.)
   CEU: 0.5 Soil and Water

4. **Managing Wet Fields, Ruts and Compaction** – Anthony Bly (SDSU), Eric Barsness (SD NRCS)
   CEU: 0.5 Soil and Water

5. **Planting Green with Soybean and Edible Beans** – Greg Endres (NDSU), Aaron Field (NDSU, ND State Soil Conservation Committee)
   CEU: 0.5 Crop Management

6. **Sugar Beets, Cover Crops and Soil Health** – Amit Chatterjee (NDSU), Brad Brummond (NDSU Extension Walsh Co.)
   CEU: 0.5 Crop Management

7. **Fertility in Reduced Till Systems** – Dave Franzen (NDSU), Paige Brummond (NDSU Extension Ward Co.)
   CEU: 0.5 Nutrient Management

8. **Managing Weeds in Reduced Till** – Joe Ikley (NDSU), Jeff Stachler (NDSU Extension Griggs Co.)
   CEU: 0.5 Integrated Pest Management

9. **Managing Disease in Cover Crop Systems** – Andrew Friskop (NDSU), Jill Lagein (NDSU Extension Traill Co.)
   CEU: 0.5 Integrated Pest Management

10. **Economics for Soil Health Systems** – David Ripplinger (NDSU), Randy Grueneich (NDSU Extension Barnes Co.)
    CEU: 0.5 Professional Development

11. **Interseeding Cover Crops in Corn** – Marisol Berti (NDSU), Sheldon Gerhardt (NDSU Extension Logan Co.)
    CEU: 0.5 Crop Management

12. **Cover Crops after Wheat or Barley** – Hans Kandel (NDSU), Melissa Seykora (NDSU Extension Sargent Co.)
    CEU: 0.5 Crop Management

13. **Virtual Hallway** – open for any to drop in
Three rounds of 30-minute discussion sessions hosted on a dozen different topics. Take this opportunity to talk with presenters and others working in the area of soil health. There will also be a virtual hallway where attendees can relax and catch up on whatever topic they’d like.

CEU’s Offered: Listed Below

1. **Cover Crops in Corn** – Joel Ransom (NDSU), Kelly Cooper (NDSU), Breana Kiser (NDSU Extension Dickey Co.) CEU: 0.5 Crop Management

2. **Managing Salinity** – Naeem Kalwar (NDSU), Kyle Aasand (NDSU Extension Cass Co.) CEU: 0.5 Soil and Water

3. **Managing Sodicity** – Cheryl Reese (SDSU), Crystal Schaunaman (NDSU Extension McIntosh Co.) CEU: 0.5 Soil and Water

4. **Low pH Soil Management** - Ryan Buetow (NDSU), Mark Liebig (USDA-ARS Mandan, ND), Renae Gress (NDSU Extension Morton Co.) CEU: 0.5 Soil and Water

5. **Compost and Manure Management** – Mary Keena (NDSU), Hannah Nordby (NDSU Extension Adams Co.) CEU: 0.5 Nutrient Management

6. **Managing Livestock when Grazing** – Miranda Meehan (NDSU), Rachel Wald (NDSU Extension McHenry Co.) CEU: 0.5 Crop Management

7. **Selecting Cover Crops for Grazing** – Kevin Sedivec (NDSU), Jeff Gale (NDSU Extension Foster Co.) CEU: 0.5 Crop Management

8. **Relay Cropping and Winter Camelina** – Russ Gesch (USDA-ARS Morris, MN), Penny Nester (NDSU Extension Kidder Co.) CEU: 0.5 Crop Management

9. **Interseeding with Alfalfa** – Marisol Berti (NDSU), Emily Leier (NDSU Extension Emmons Co.) CEU: 0.5 Crop Management

10. **Intercropping** – Mike Ostlie (NDSU), Devan Leo (NDSU Extension McKenzie Co.) CEU: 0.5 Crop Management

11. **The Root Zone** – Sam Banerjee (NDSU), Brenden Klebe (NDSU Extension Pierce Co.) CEU: 0.5 Soil and Water

12. **Virtual Hallway**