Manure Science Review
Wednesday, August 2, 2017
8:45 am to 4:00 pm
Stoller Brothers & Sons
9257 Road 144, Paulding, OH 45879

Agenda (8:45 am - 3:30 pm)
Registration. Coffee and donuts.

Using Manure Nutrients Effectively. Soil and manure analysis and manure application
methods, such as side dressing, can improve crop yields and reduce nutrient runoff.
Glen Arnold, OSU Extension

Nutrient Application: Regulations Update. Overview of Ohio’s rules on manure
application and the importance of record keeping. Kevin Elder, ODA-DLEP, and Matt Lane,
ODA-DSWC

Reducing Nutrient Movement: Data from Edge of Field Studies. What on-farm
research tells us about when and how to apply manure to minimize nutrient runoff.
Emily Duncan, USDA-ARS

Cover Crops: Opportunities and Challenges. Cover crops can reduce nutrient runoff and
soil erosion but results may vary depending on the crop and other factors. Speaker panel:
Leon Klopfenstein, Jeff Rasewehr, Alvin King, Tim Harrigan. Moderator: Sarah Noggle, OSU

Best Practices for Manure Application. Planning can improve nutrient availability,
save money, and protect the environment. Tim Wood, M&W Farm Supply and Sam Mullins,
ODA-DLEP

Staying safe. Understanding gases produced during manure storage and safety
measures to prevent accidents. Kent McGuire, OSU

Lunch (included in registration)

FIELD DEMONSTRATIONS
Solid Manure Spreader Calibration. Jocelyn Henderson, ODA-DSWC
Smoking Subsurface Tile Drainage. Frank Gibbs, Wetland and Soil Consulting Services
Reducing Flow through Subsurface Tile Drainage. Justin McBride, ODA-DSWC

Applicator Demonstrations. Glen Arnold, OSU
- Incorporating poultry litter
- Side dressing with liquid manure
- Liquid manure surface vs. subsurface
- Effect of drag hose on growing corn
- Frac tanks for rapid transfer

Cover Crops: Planting and Applying Manure. Jim Hoorman, USDA-NRCS; Bret Margraf,
Seneca SWCD; Sarah Noggle, OSU

OPTIONAL: Emergency Manure Spill Response Demonstration Ed Bohn, Paulding EMA

Registration details and directions page 2.
The following continuing education credits have been approved:

**ODA Certified Livestock Manager (CLM):** 4.0 continuing education units (CEU’s)

**Certified Crop Advisor (CCA):**
- 2.5 Soil & Water Management (SWM) CEU’s
- 2.0 Nutrient Management CEU’s
- 0.5 Professional Development CEU’s

**Professional Engineer (PE):** 2.0 Continuing Professional Development hours (CPD’s)

**IN Office of State Chemist:** 2.0 Ag Fertilizer Application (Cat 14) continuing certification hours (CCH’s)

**PA Manure Hauler/Broker:** 6.5 Nutrient Mgmt & Manure Hauler/Broker CEC’s (includes Spill Response)

**NOTE:** An additional 1.5 CCA SWM CEUs and 1.0 CLM CEUs have been approved for the Spill Response Demo.

---

### Registration

Please complete the registration form and send it with your payment. For credit cards payment, register online at [http://go.osu.edu/manure17](http://go.osu.edu/manure17).

- **Name(s):** ____________________________  **Affiliation:** ____________________________
- **Street/City/Zip:** ____________________________
- **E-mail:** ____________________________  **Phone:** ____________________________

**Registration BEFORE** July 24, 2017, includes continental breakfast and lunch:
- Registration fee: $25 per person.  **Number attending ____ X $25 = ____**

**Registration AFTER** July 24, 2017 includes continental breakfast and lunch:
- Registration fee: $30 per person.  **Number attending ____ X $30 = ____**

Send form and payment to:

Mary Wicks
OARDC/OSU
1680 Madison Ave.
Wooster, OH 44691

Make checks payable to:

OARDC/OSU

---

### CEU’s

- **Location:** Stoller Brothers & Sons
  9257 Road 144
  Paulding, Ohio 45879

### Directions to the Manure Science Review

[Google Maps](https://www.google.com/maps/place/9257+Road+144,+Paulding,+Ohio+45879)

---

### Questions?

Contact Mary Wicks | [wicks.14@osu.edu](mailto:wicks.14@osu.edu) | 330.202.3533