



H2Ohio

Manure Incorporation



Compatible Practices:

- Voluntary Nutrient Management Plan Development & Implementation
- Variable Rate Phosphorus Application
- Overwintering Cover Crops
- Conservation Crop Rotation-Small Grains
- Conservation Crop Rotation-Forages
- Drainage Water Management

Manure Incorporation is....

Applying livestock waste either directly into the soil or incorporating it within 24 hours of application.

How it works

- Manure applications are based on an approved VNMP or CNMP
- Manure is applied to fields that demonstrate an agronomic need for phosphorus
- Manure can be injected directly into the soil or incorporated within 24 hours of application
- Manure is either side dress applied to a growing corn crop or applied at a time of year that reduces the risk of nutrient runoff
- Soil tests must be 50ppm (Bray P1) or less

Benefits for Farmers

- Promotes the transfer of manure to fields that demonstrate an agronomic need for phosphorus
- Promotes utilization of the nutrients in the manure by an existing crop or a cover crop
- Producer may apply for up to four years of funding for this practice
- Producer will receive \$35 per acre, per year for poultry manure or \$60 per acre, per year for all other manure based on actual acres where manure is applied

Partners in the H2Ohio Program include:



How to Apply?

If interested, contact your local soil and water conservation district:

Lorain County Conservation District
42110 Russia Rd.
Elyria, OH 44035
440.326.5800

Manure Incorporation and Utilization

Purpose

- To encourage the application and incorporation of manure into a growing crop
- To shift timing of manure application to better utilize nitrogen and phosphorus
- To reduce the risk of manure and nutrient runoff

Applicability

Manure Incorporation and Utilization applies to cropland acres in the project area. The producer is only eligible for one manure payment per field annually. Acres receiving payment under any other county, state, or federal program for Nutrient Management (EQIP, H2Ohio, MWCD, etc.) are not eligible. Cropland enrolled in CSP and receiving payment for NRCS Practices 590 are not eligible. Any documented discharge of manure may result in an automatic forfeiture of payment or dismissal from the H2Ohio program.

Specifications

1. Producer must have an approved Voluntary Nutrient Management Plan and/or a grazing management plan as applicable.
 - a. Fields receiving manure must have soil tests showing Mehlich-III levels of 50 ppm or less. Precision sampled fields must have an average Mehlich-III soil test phosphorus of 50 ppm or less.
 - b. Plant available nitrogen applied through the manure shall not exceed the nitrogen recommendations for the current crop or the next planned crop, whichever is applicable. If the following crop is a legume, nitrogen can be applied at the nitrogen removal rate for the legume crop up to a maximum of 150 pounds of plant available nitrogen at the time of application.
2. Manure cannot be surface applied to frozen, snow-covered, or saturated soils.
3. Manure cannot be surface applied if there is a greater than 50% chance of precipitation exceeding ½" in the next 24 hours.
4. A cover crop is required for manure applications completed after July 1 and where a growing crop is not present.
5. **All manure applications must be completed by November 1, unless otherwise stated.**

Manure application must be accomplished in a manner consistent with one of the following methods and timing

Incorporated or Injected Applications

- All manure will be injected or incorporated to a minimum of 2 inches below the surface. Surface applied manure must be incorporated using a full-width disturbance tillage tool to mix the manure with the soil.
- Manure shall be applied after April 20 and before crop emergence and must be incorporated within 24 hours of application.
- Manure is applied via side dress injection to a growing corn crop after emergence.
- Manure may be applied to wheat or overwintering cover crop with a grassland applicator or comparable equipment after green-up.
- Manure is injected directly into the soil in an established covers with minimal surface disruption.
- Manure is surface applied after the harvest of a crop and incorporated within 24 hours of application.

- Manure may be irrigated from June 15 to August 1 on a growing crop.
- Manure may be applied to a perennial forage immediately after harvest of the perennial forage.
- Pen pack or dry manure (cannot be pumped through a dragline) applied after April 20 and before July 1 does not have to be incorporated if there is 75% crop residue at the time of application.
- Pen pack or dry manure (cannot be pumped through a dragline) applied after harvest of a small grain and before August 15 on an established cover crop does not have to be incorporated if there is 75% living cover.

Participant Payments

- Participants will receive \$35/ac for dry manure (cannot be pumped through a dragline) utilization, and \$60/ac for all other manure utilization.
- A \$15/ac. Bonus payment will be made to fields that have a field average of less than 25 ppm Mehlich-III.
- Payment will be made on acres where manure application was completed. Payments will be made annually after all requirements have been verified.
- If a 2-year manure application is made, only one payment will be made in that 2-year time. Also, no more nutrients may be applied until those nutrients are utilized.
- Only one manure utilization payment will be made per field annually regardless of how many applications are made.

Manure Incorporation

Producer Verification Checklist

Producer Name: _____

| Checklist | Completed |
|--|-----------|
| Manure application compliant with Nutrient Management Plan | |
| Manure application compliant with Ohio NRCS 590 Nutrient Management Standard | |
| Manure applications completed by October 15 th | |
| Manure surface applied and incorporated (within 24 hrs) | |
| Manure subsurface injected | |
| Cover crop or double crop established, if applicable | |
| Cover crop or crop residue maintained until March 15 th , if applicable | |
| Documentation provided to SWCD | |
| - Application Guidance Sheet | |
| - Applicator information (records holder) | |
| - Application equipment (planter, spreader, or placement tool) | |
| - As-applied nutrient application records | |
| - Double crop or cover crop information, if applicable | |

Crop Year: _____

Acres Completed: _____

I hereby state that I have completed this verification form accurately to the best of my knowledge and have provided supporting documentation to show that all items above have been completed. I understand the terms and conditions contained herein and have authority to sign this verification.

Producer Initial

Date

For Office Use

SWCD Notes
