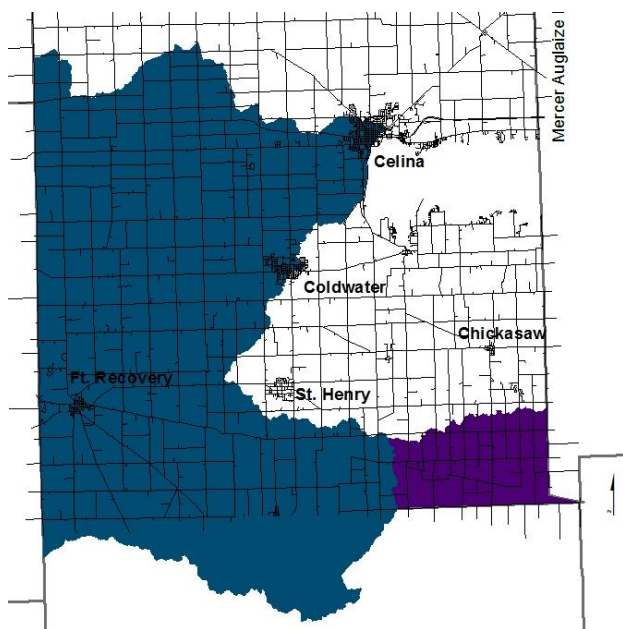


# -Wabash and Loramie Creek Watersheds-

ALL MANURE MUST BE HANDLED ACCORDING TO NRCS PRACTICE #590



## ◆ Manure Application – Recommended

- ◆ Avoid surface application on frozen ground or ground covered in more than one inch of snow or one half inch of ice.
- ◆ Avoid surface application when top two inches of soil are saturated from precipitation.
- ◆ Avoid surface application if forecast for land application area contains greater than 50% chance of precipitation exceeding 0.5 inch for a period of 24 hours at the projected start of manure application.
- ◆ Inject manure or incorporate within 24 hours of application to prevent runoff.
- ◆ Apply manure to a growing crop. In summer, on any green crop. In winter, on any plant that does not winter kill.

## ◆ Commercial Fertilizer – Requirements

- ◆ Certification for fertilizer (non manure) application on 50 or more acres
- ◆ Certification valid for 3 years
- ◆ Record application of fertilizer. Include: name, date, location of application, rate, type/analysis of fertilizer, application method, soil condition, weather as application, and forecast of next day.
- ◆ Commercial Fertilizer rules follow Senate Bill 150

PRODUCERS ARE REQUIRED TO FOLLOW THE NRCS STANDARD 590

For the complete NRCS 590 document, go to the following link:

[http://www.oardc.ohio-state.edu/ocamm/images/OH\\_590\\_Standard\\_2012.pdf](http://www.oardc.ohio-state.edu/ocamm/images/OH_590_Standard_2012.pdf)

Senate Bill 150 can be found at:

<http://www.lsc.ohio.gov/analyses130/14-sb150-130.pdf>

*For additional information, please contact the Mercer SWCD office at 419-586-3289.*

Table 4 from the NRCS 590 Standard Ohio Document

Type of Sensitive - Setback Area	Setbacks Based on Methods of Manure Application		
	Surface Application	Winter Application Frozen or Snow Covered Soils <sup>7/</sup>	Surface Incorporation W/I 24 Hours OR Direct Injection
Residences / Private Wells down slope from the application area.	100 ft.	200 ft.	100 ft.
- Sinkholes	300 ft.		100 ft.
- Pond or Lake	- 35ft. Vegetative Barrier <sup>1/</sup> , with the remaining 100 ft. setback in non-vegetative Setback <sup>2/</sup>	- 35ft. Vegetative Barrier <sup>1/</sup> , with the remaining 200 ft. setback in non-vegetative Setback <sup>2/</sup>	- 35ft. Vegetative Barrier <sup>1/</sup>
- Streams - Ditches - Surface Inlets	- 35ft. Vegetative Barrier <sup>1/</sup> , OR - 100 ft. setback in non-vegetative Setback, OR - 35 ft. in non-vegetative setback <sup>3/</sup>	200 ft.	None
Grassed Waterway	35 ft.	200 ft.	None
Field Surface Drains	35 ft. <sup>4/</sup>	200 ft.	None
Public Wells	300 ft.	300 ft.	100 ft.
Developed Springs	300 ft. upslope	300 ft. upslope	300 ft. upslope
Public Surface Drinking Water Intake	300 ft.	300 ft.	300 ft.

- 1/ Permanent vegetation consisting of grass, grass/legume mix, trees/shrubs, or trees/shrubs and grass/legumes. Measured from top of bank.
- 2/ Includes 100 ft. total setback. The setback must include a minimum of 35 ft. of vegetative cover from top of bank with the remainder of the 100 feet with no vegetative requirement. The setback is measured from the top of bank.
- 3/ Applies if the manure application area has at least 50% vegetation/residue cover at the time of application.
- 4/ No setback required for field surface drains if the Additional Criteria to Protect Water Quality, Item 5 is applied from this standard.
- 5/ CAFO's must follow the setbacks defined in the Ohio Department of Agriculture (ODA) rules regarding manure application. See Table 5 – ODA Setbacks - Appendix A Table 1 of rule 901:10-1-14: Land Application Restrictions and Setbacks
- 6/ Excludes sludge that is regulated by the Ohio Environmental Protection Agency (OEPA) and septage regulated by the Ohio Department of Health.

**Recommendations for Manure Application during all other Time Periods:**

- ◆ 13,000 gallons/acre or 21 ton/acre is the one-time application recommended limit on subsurface drained fields.
- ◆ Do not apply manure on fields with a Bray P1 soil test level of 150 ppm (300 pound/ac) or higher.
- ◆ Do not apply manure on fields designated as Highly Erodible Land or areas prone to flooding.
- ◆ Inspect tiled fields prior to manure application for broken tile or blow holes.

Updated January 10, 2017