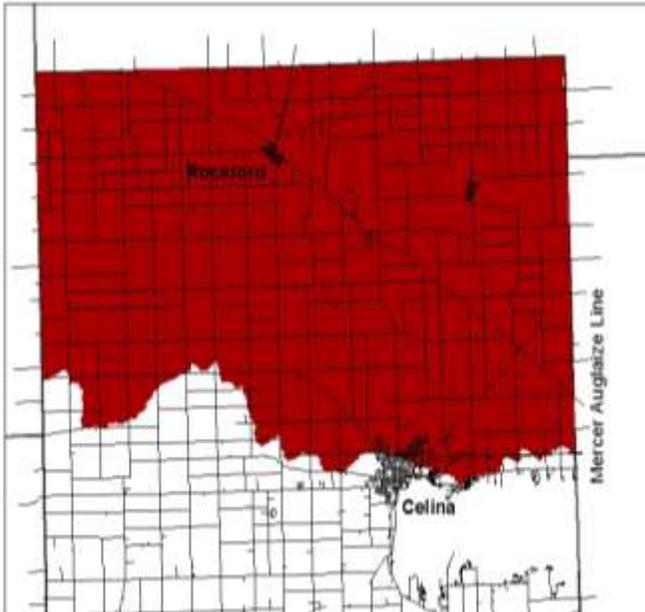


-Western Lake Erie Basin Watershed-

ALL MANURE MUST BE HANDLED ACCORDING TO SENATE BILL 1 AND NRCS 590



◆ Manure and Fertilizer Application – Restrictions

- ◆ Manure and fertilizer cannot be applied on frozen ground or ground covered in more than one inch of snow or one half inch of ice.

- ◆ Manure and fertilizer cannot be surface applied when top two inches of soil are saturated from precipitation.

- ◆ Manure cannot be surface applied 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.

- ◆ Fertilizer cannot be surface applied if forecast for land application area contains greater than 50% chance of precipitation exceeding 1 inch for a 12-hour period at the projected start of fertilizer application.

◆ Manure and Fertilizer Application – Exemptions

- ◆ The above application restrictions are exempt under the any of the following:

- ◆ Manure/fertilizer is applied to a growing crop (summer=any green crop, winter=any plant that does NOT winter kill).
- ◆ Manure/fertilizer is injected into ground.
- ◆ Manure/fertilizer is incorporated (minimum of 4 inches) within 24 hours of application.
- ◆ Written consent from the ODA Director and application in accordance with NRCS 590 Standard.
- ◆ Manure/fertilizer application to snow and ice covered ground remains DISCOURAGED.

◆ Commercial Fertilizer – Requirements

- ◆ Commercial Fertilizer rules follow Senate Bill 150.
- ◆ 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.

◆ Records

- ◆ Local weather forecasts and hourly weather graph information is available: www.weather.gov.

PRODUCERS ARE REQUIRED TO FOLLOW THE NRCS NUTRIENT MANAGEMENT 590 STANDARD

For the complete Natural Resources Conservation Services 590 document, go to the following link:

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>

Senate Bill 1 can be found at:

<https://www.legislature.ohio.gov/legislation/legislation-summary?id=GA131-SB-1>

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

Table 4 from NRCS 590 Ohio Document

Type of Sensitive - Setback Area	Setbacks Based on Methods of Manure Application		
	Surface Application	Winter Application Frozen or Snow Covered Soils ^{7/}	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 ^{1/} , with the remaining 100 ft. setback in non- vegetative Setback ^{2/}	- 35ft. Vegetative Barrier ^{1/} , with the remaining 200 ft. setback in non-vegetative Setback ^{2/}	- 35ft. Vegetative Barrier ^{1/}
- Streams - Ditches - Surface Inlets	- 35ft. Vegetative Barrier ^{1/} , OR - 100 ft. setback in non- vegetative Setback, OR - 35 ft. in non-vegetative setback ^{3/}	200 ft.	None
Grassed Waterway	35 ft.	200 ft.	None
Field Surface Drains	35 ft. ^{4/}	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.

Updated January 10, 2017