



United States Department of Agriculture  
Natural Resources Conservation Service

**Iowa Addendum: Water Quality Enhancement Activity – WQL14 – Land application of treated manure**

**Iowa Criteria**

1. For technical information on:
  - a. Composting manure use Iowa State University’s publication PM 1970a: [Practices to Reduce Odor from Livestock Operations](#).
  - b. Iowa State University has no guidance on chemical treatments of manure so they will not be used for this enhancement.
2. Use Iowa State University’s publication [PM 1558: How to sample manure for nutrient analysis](#) and [PM 1003: Using manure nutrients for crop production](#) for directions on how to sample manure and use the lab analysis.
3. Use Iowa State University nitrogen application recommendations. Use either:
  - a. the [Corn Nitrogen Rate Calculator](#) (on-line) which is described in ISU publication [PM 2015: Concepts and rationale for regional nitrogen rate guidelines for corn](#), or
  - b. [PM 1714: Nitrogen Fertilizer Recommendations for Corn in Iowa](#)
4. Soil sampling will be done according to Iowa State University’s guide [PM 287 Take a Good Soil Sample](#) and interpreted by guide [PM 1310 Interpretations of Soil Test Results](#).

**Documentation**

1. Complete the fertilizer application information in attached table or provide equivalent documentation from existing records.
2. Attach
  - a. Documentation of the manure treatment practice(s) used prior to land application to obtain both odor and pathogen reduction.
  - b. Field map
  - c. Test type and results including date
  - d. Soil test
  - e. Manure analysis

Certification of Enhancement Completion:

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Signature of Producer	Date	Fields	Acres or Number



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Field ID	Acres	Crop and place in rotation	Yield	Planned application N-P-K (lbs/ac)*	Fertilizer Product (include grade or analysis and form)	Rate (Specify Units)	Actual application N-P-K (lbs/ac)*	Date Applied	Describe any differences in odor and odor intensity noted.
			Goal:						
			Actual:						
			Total						
			Goal:						
			Actual:						
			Total						
			Goal:						
			Actual:						
			Total						

\* Example 120-40-0 would be 120 lbs N, 40 lbs P<sub>2</sub>O<sub>5</sub> , and 0 lbs K<sub>2</sub>O