

Iowa Addendum: Water Quality Enhancement Activity – WQL07 – Split nitrogen applications, 50% after crop emergence or pasture green up

Iowa Criteria

1. Since manure, monoammonium phosphate (MAP), and diammonium phosphate (DAP) contain N, they cannot be applied in the fall.
2. 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](#). Use Table 1 to determine the planned N rate for the crop. The initial application must be ≤ 50% of this total N rate. The second application would be the remaining N. If using the late-spring soil nitrate test as described, the total N cannot exceed the rates in Table 1. This is a departure from the methodology described in PM 1714. ISU's publication [PM 2026: Sensing Nitrogen Stress in Corn](#) can be used instead of the late-spring soil nitrate test.
 - c. For other crops consult ISU publications.

Iowa State University does not use yield goals nor soil tests to determine N rates.

3. 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. Field map
 - b. Soil test
 - c. Manure analysis if applicable
 - d. In-season nitrogen "scouting" reports (soil test or tissue test reports) if applicable.

Certification of Enhancement Completion:

Signature of Producer	Date	Fields	Acres or Number
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Field ID	Acres	Crop and place in rotation	Yield	Crop planting & emergence date	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	
			Goal:	Plant date:	Pre-plant:					
			Actual:	Emerge date:	Sidedress:					
									Total	
			Goal:	Plant date:	Pre-plant:					
			Actual:	Emerge date:	Sidedress:					
									Total	
			Goal:	Plant date:	Pre-plant:					
			Actual:	Emerge date:	Sidedress:					
									Total	

* Example 120-40-0 would be 120 lbs N, 40 lbs P₂O₅ , and 0 lbs K₂O