

Iowa Addendum: Water Quality Enhancement Activity – WQL25 – Split applications of nitrogen based on a PSNT

Iowa Criteria

1. Use Iowa State University’s late Spring soil nitrate test as the pre-sidedress soil nitrate test as described in ISU publication [PM 1714: Nitrogen Fertilizer Recommendations for Corn in Iowa](#).
2. Use Iowa State University nitrogen application recommendations, either:
 - a. ISU’s [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](#)
 Plan to apply 25% or more of the nitrogen after testing.
3. Calibrate fertilizer application equipment within the last year. For custom applicators or rented equipment, record verbal verification of calibration from the operator or owner. Use this opportunity to discuss how they verify that the fertilizer is uniformly applied. For anhydrous ammonia, calibration will consist of verifying that the applicator equipment is properly plumbed. See [PM 1875: Improving the uniformity of anhydrous ammonia application](#) for guidance. Note that other effective manifolds are now available. At application, be sure anhydrous ammonia is injecting to the proper depth and good soil coverage is provided. See John Sawyer article [Anhydrous application and dry soils](#) for more information.

Documentation

1. Document the calibration of the fertilizer application equipment.

Type of Equipment	Date of Calibration

2. Complete the fertilizer application information in attached table or provide equivalent documentation from existing records.
3. Attach
 - a. Field map
 - b. Soil test results including date
 - c. Manure analysis if applicable

Certification of Enhancement Completion:

_____ _____ _____ _____

 Signature of Producer Date Fields Acres or Number



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