

## In-season UAN Application on Corn

**Study ID:** 0701147201902

**County:** Richardson

**Soil Type:** Marshall silty clay loam 2-6% slopes;  
Pohocco silty clay loam 6-11% slopes, eroded

**Planting Date:** 5/15/19

**Harvest Date:** 10/17/19

**Seeding Rate:** 27,512

**Row Spacing (in):** 30

**Variety:** Pioneer® P1197

**Reps:** 8

**Previous Crop:** Soybean

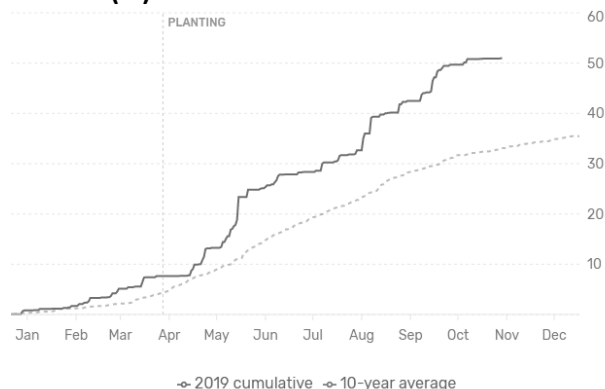
**Tillage:** No-Till

**Herbicides:** *Pre:* 24 oz/ac Buccaneer® 5, 1.67 pt/ac Dual®, 0.67 pt/ac 2,4-D LV6, 3 pt/ac ATZ, 3.33 oz/ac Corvus®, and 1.7 lb/ac AMS on 5/17/19 *Post:* 24 oz/ac Buccaneer® 5, 1.7 lb/ac AMS, 2.5 oz/ac Meso Star, 2 oz/ac dicamba, and 1 pt/ac atrazine

**Fertilizer:** 170 lb N/ac as anhydrous ammonia in the spring; 5 gal/ac 10-34-0 with 1 qt/ac Zn with planting

**Irrigation:** None

**Rainfall (in):**



**Introduction:** This study evaluated a sidedress application of UAN. The entire field received 176 lb N/ac with preplant and planting N applications. UAN (32%) was applied at a rate of 30 lb actual N/ac on June 28, 2019.

### Results:

	Total N (lb/ac)	Test Weight (lb/bu)	Moisture (%)	Yield (bu/ac)†	Marginal Net Return‡ (\$/ac)
Check	176	57 A	16.0 A*	204 A	780.11 A
UAN Sidedress	206	57 A	15.9 A	206 A	768.41 A
P-Value	-	0.872	0.545	0.746	0.619

\*Values with the same letter are not significantly different at a 90% confidence level.

†Bushels per acre corrected to 15.5% moisture.

‡Marginal net return based on \$3.83/bu corn, \$235/ton UAN, and \$8.25 application cost.

Stalk nitrate tests were collected on October 1 for the two treatments (one sample in the check, and one sample in the UAN sidedressed). The stalk nitrate for the check was 52 ppm nitrate-N, whereas the sidedressed was 404 ppm nitrate-N.

**Summary:** The addition of 30 lb N/ac as UAN did not result in differences in grain moisture, test weight, yield, or net return.

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