

360 Y-DROP™ MID-SEASON NITROGEN APPLICATION TRIAL

Central Illinois

This trial was completed on the farm of Ron Lloyd in central Illinois and was shared at Proving Grounds 2015. The trial compared several different nitrogen application plans, including a prescription determined through in-season nitrate nitrogen measurement with 360 SOILSCAN™.

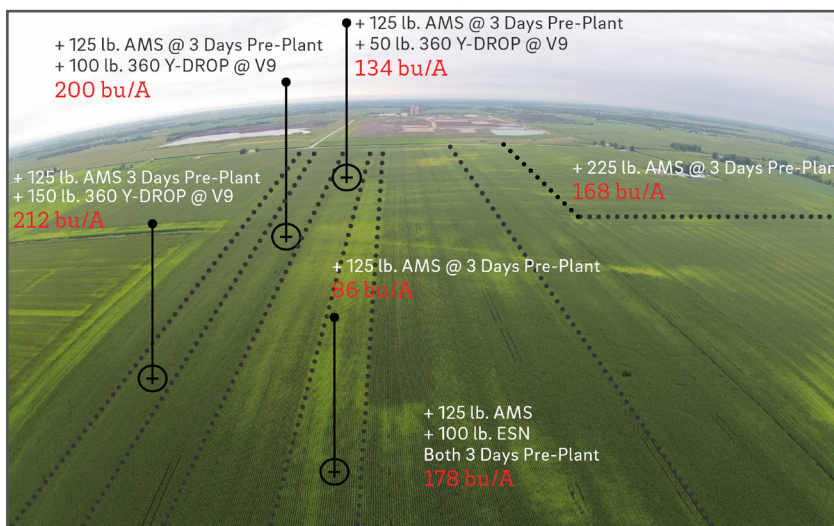
TRIAL DETAILS

- + Ammonium sulfate was applied three days prior to planting on April 28. In one strip, ESN was also applied three days pre-plant.
- + The field was planted on May 1.
- + 360 SOILSCAN nitrate nitrogen tests were completed throughout the field on June 5.
- + Nitrogen (28% UAN) was applied with 360 Y-DROP at V9 on June 15.
- + 360 SOILSCAN nitrate nitrogen results prescribed 150 lb. of N. That rate was applied with 360 Y-DROP on one strip.
- + A modeling tool was used to make a recommendation for one of the strips and a rate of 50 lb. of N was recommended. That rate was applied with 360 Y-DROP in the strip.

RESULTS

The results demonstrate that applying nitrogen later in the season helped refill the nitrogen tank and spoon feed the crop. The trial showed a yield advantage of 32 bu/A for split-nitrogen application where 125 lb. was applied pre-plant and 360 Y-DROP was used to apply 100 lb. of nitrogen at V9 compared to one-and-done application of 225 lb. of AMS pre-plant.

By using in-field soil testing equipment, the farmer knew exactly how much N was needed to finish the season and the yield results paid off. In the strip where 150 lb. of nitrogen was applied at V9 per the 360 SOILSCAN recommendation, the yield was 212 bu/A – the largest yield of the entire trial.



+32 bu/A

Average yield advantage
with split-N over one-and-done.

Field Strip	Lb. AMS 3 Days Pre-Plant	Lb. ESN 3 Days Pre-Plant	Lb. 28% UAN @ V9	Yield bu/A
Strip 1	125 lb.	0 lb.	150 lb.*	212 bu/A
Strip 2	125 lb.	0 lb.	100 lb.	200 bu/A
Strip 3	125 lb.	0 lb.	50 lb.**	134 bu/A
Strip 4	125 lb.	0 lb.	0 lb.	86 bu/A
Strip 5	125 lb.	100 lb.	0 lb.	178 bu/A
Strip 6	225 lb.	0 lb.	0 lb.	168 bu/A

*Rate recommended by 360 SOILSCAN.

** Rate recommended by modeling software.

There was a lot of variability in this field and there are a lot of stories to be told with the results. We'll share more detail and results in our upcoming Yield Book. Watch for it on our website - www.360YieldCenter.com.

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