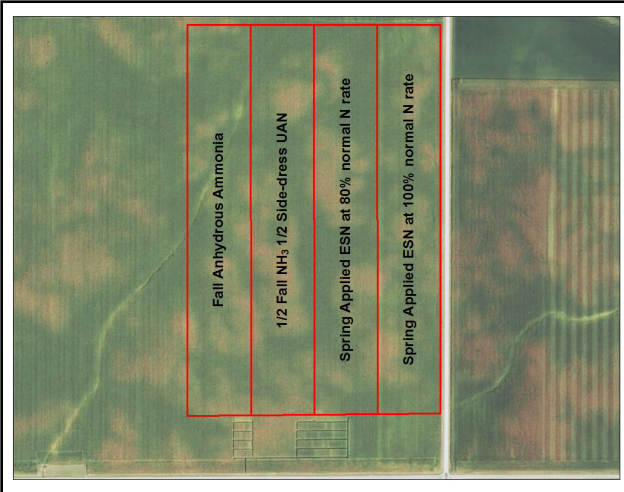




Harms Corn After Soybeans Timing and Application Demo



4Rs

- Right Time: Fall, Spring, Split
- Right Product: NH_3 , UAN, ESN
- Right Rate: Company Rates
- Right Place: banding broadcast

Discussion

Cost of nitrogen fertilizer and price of crops make it important to provide enough N that the crop is never deficient during the growing season. For greatest efficiency, nitrogen should be applied close to the time it will be used by the crop.

This demonstration compared four different management practices:

- Fall anhydrous ammonia application
- 1/2 fall anhydrous ammonia, 1/2 side-dress UAN applications
- Side-dress application of ESN at full rate
- Side-dress application of ESN at 80% of full rate

Each practice in this demonstration received 14 gallons of 28% solution as pre-emergence herbicide carrier (equivalent to 42# of nitrogen). They also received 100# of MESZ fertilizer in the fall (12# N). Total nitrogen applied in 3 of the 4 practices was 204#. The reduced rate ESN received 179#.

This demonstration featured different Nitrogen application timings and evaluated a reduced rate of ESN. Side-dress timing had best average yield. Fall and split had lowest yields. However, all yield differences may be due to across-field variability.

Some observations:

- Side dress application of N gave highest yield
- Lower ESN rate yield equaled 25+ higher rate
- Rates may have been too high to show differences

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