

March 25, 2009

- **Broadcasting Nitrogen on Corn after Emergence**
  - Broadcast urea causes little yield loss due to leaf burn at any stage. Do not apply urea when there is dew on the leaves. Use good quality (non-dusty) urea. Dusty material on wet leaves might cause increased leaf burn.
  - Broadcast ammonium nitrate is an excellent source of nitrogen on corn less than 1 foot tall, but causes yield loss when corn is 2-4 feet tall.
  - Urea w/Agrotain improves yield compared to regular urea for preplant, 1-foot, and 2-foot application, but not when corn is 3-4 feet tall.
  - Yield loss due to leaf burn is high with broadcast UAN solution, even when corn is only 1 foot tall. It is better to apply UAN between rows with drops.
- **Between-row Nitrogen application on Corn after Emergence**
  - When nitrogen is applied between rows after corn emergence, there is very little difference in yield due to nitrogen source (ammonium nitrate, UAN, urea, or urea w/Agrotain) or timing (preplant, 1-foot, 2-foot, 3-foot, or 4-foot height).
- **Details of Research** – Experiments used a 150 lb/A nitrogen rate with no pre-plant nitrogen applied. If you apply “starter” N and want to broadcast a lower rate of N post-emergence, then both N stress and leaf burn will be less, but the same general guidelines apply.

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