

Grain Yield and Total Nitrogen Uptake Results from
2016 NutriSphere-N Trial
by
University of Illinois, Department of Crop Sciences

Contacts

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Fertilizer Additive Treatments Evaluated

| Treatment # | Fertilizer Additive Treatment | Timing |
|-------------|---------------------------------|-------------|
| 1 | Unfertilized Check | Untreated |
| 2 | Urea only Check | Upfront |
| 3 | Urea with NutriSphere-N QDO | Upfront |
| 4 | Urea with Agrotain Ultra | Upfront |
| 5 | Urea with Hydrahume Dry | Upfront |
| 6 | Urea with Ultra Boost | Upfront |
| 7 | Urea; UAN with Y-Drop Check | 50/50 Split |
| 8 | Urea; UAN with NutriSphere-N HV | 50/50 Split |
| 9 | Urea; UAN with Agrotain Ultra | 50/50 Split |
| 10 | Urea; UAN with Hydrahume Liquid | 50/50 Split |
| 11 | Urea; UAN with Growth Boost | 50/50 Split |
| 12 | Urea; UAN broadcast spray check | 50/50 Split |

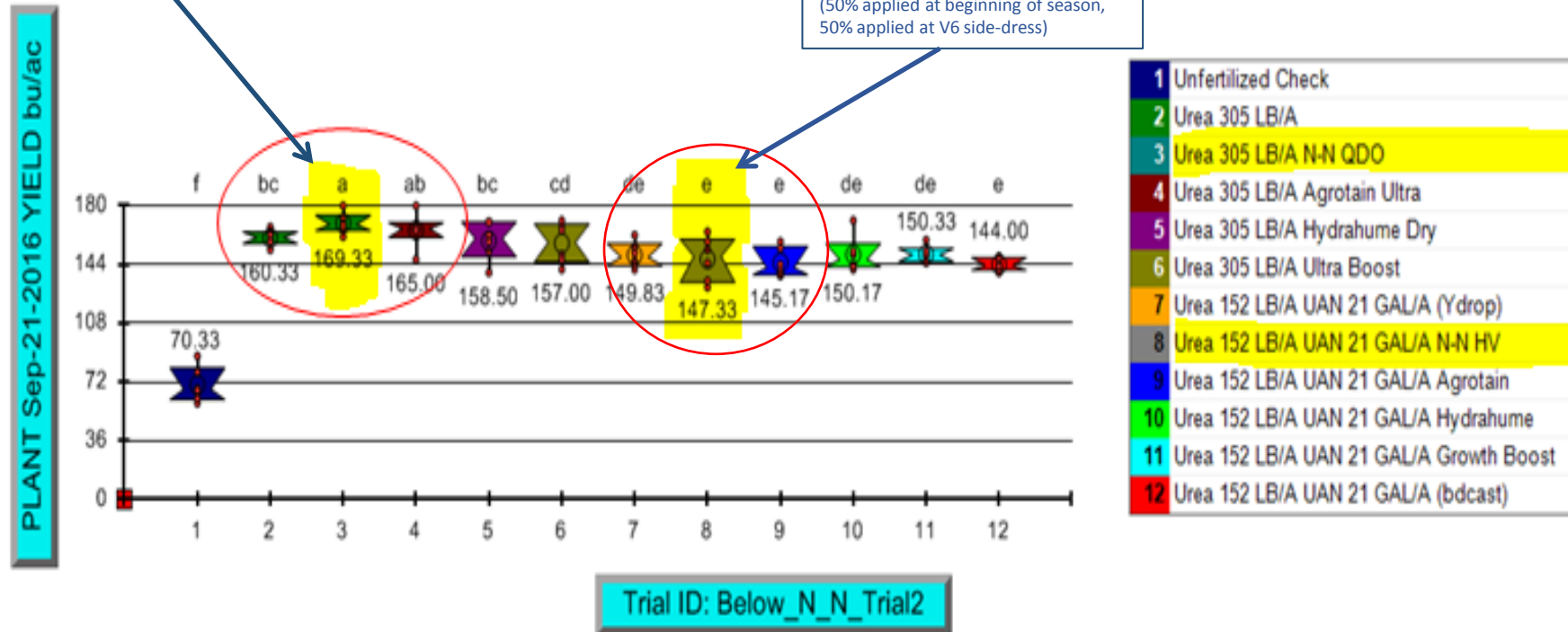
The total N rate was purposefully applied at lower than typically recommended rates to impose a nitrogen deficiency

Harrisburg, IL – Grain Yield (bu/A)

Spring Applied Nitrogen Treatments

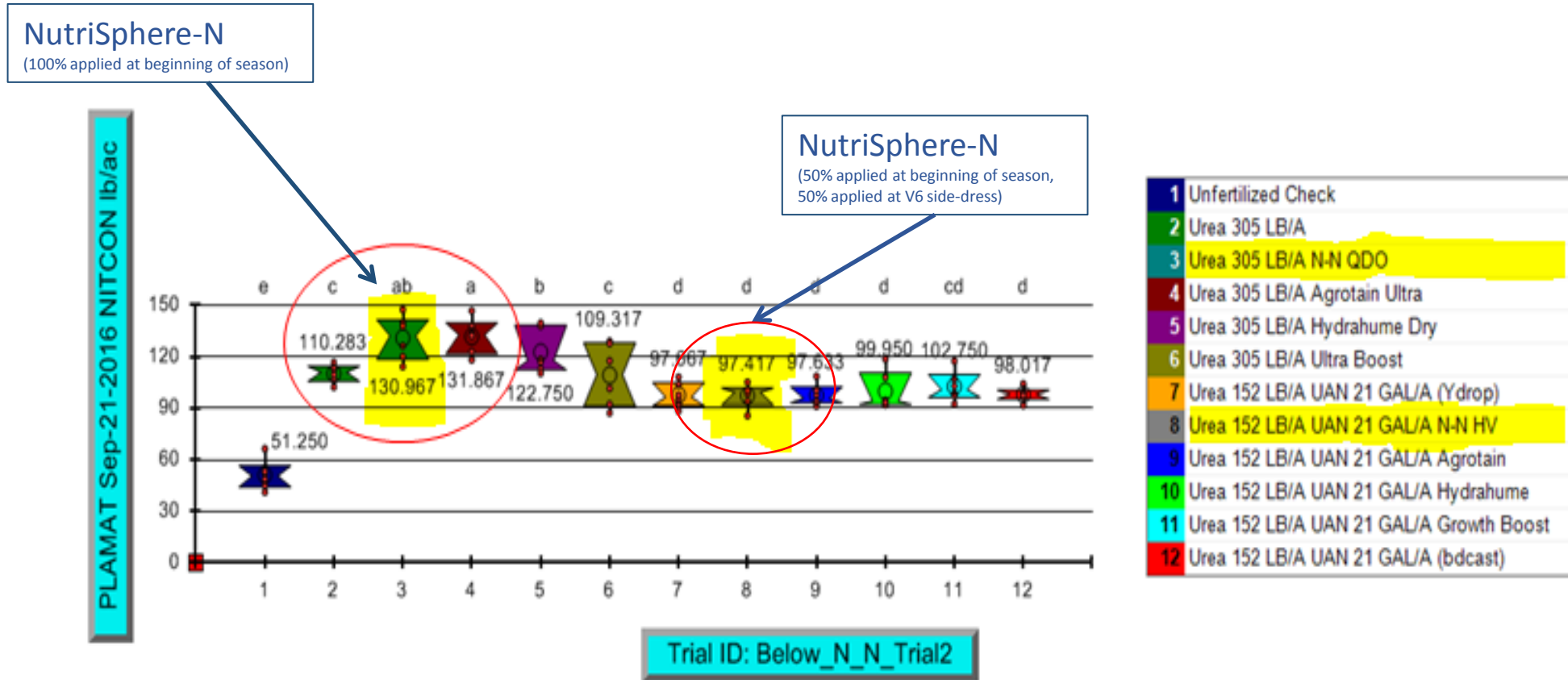
NutriSphere-N
(100% applied at beginning of season)

NutriSphere-N
(50% applied at beginning of season,
50% applied at V6 side-dress)



- 1 Unfertilized Check
- 2 Urea 305 LB/A
- 3 Urea 305 LB/A N-N QDO
- 4 Urea 305 LB/A Agrotain Ultra
- 5 Urea 305 LB/A Hydrahume Dry
- 6 Urea 305 LB/A Ultra Boost
- 7 Urea 152 LB/A UAN 21 GAL/A (Ydrop)
- 8 Urea 152 LB/A UAN 21 GAL/A N-N HV
- 9 Urea 152 LB/A UAN 21 GAL/A Agrotain
- 10 Urea 152 LB/A UAN 21 GAL/A Hydrahume
- 11 Urea 152 LB/A UAN 21 GAL/A Growth Boost
- 12 Urea 152 LB/A UAN 21 GAL/A (bdcast)

Harrisburg, IL – Total N Uptake for Season (lb/A)

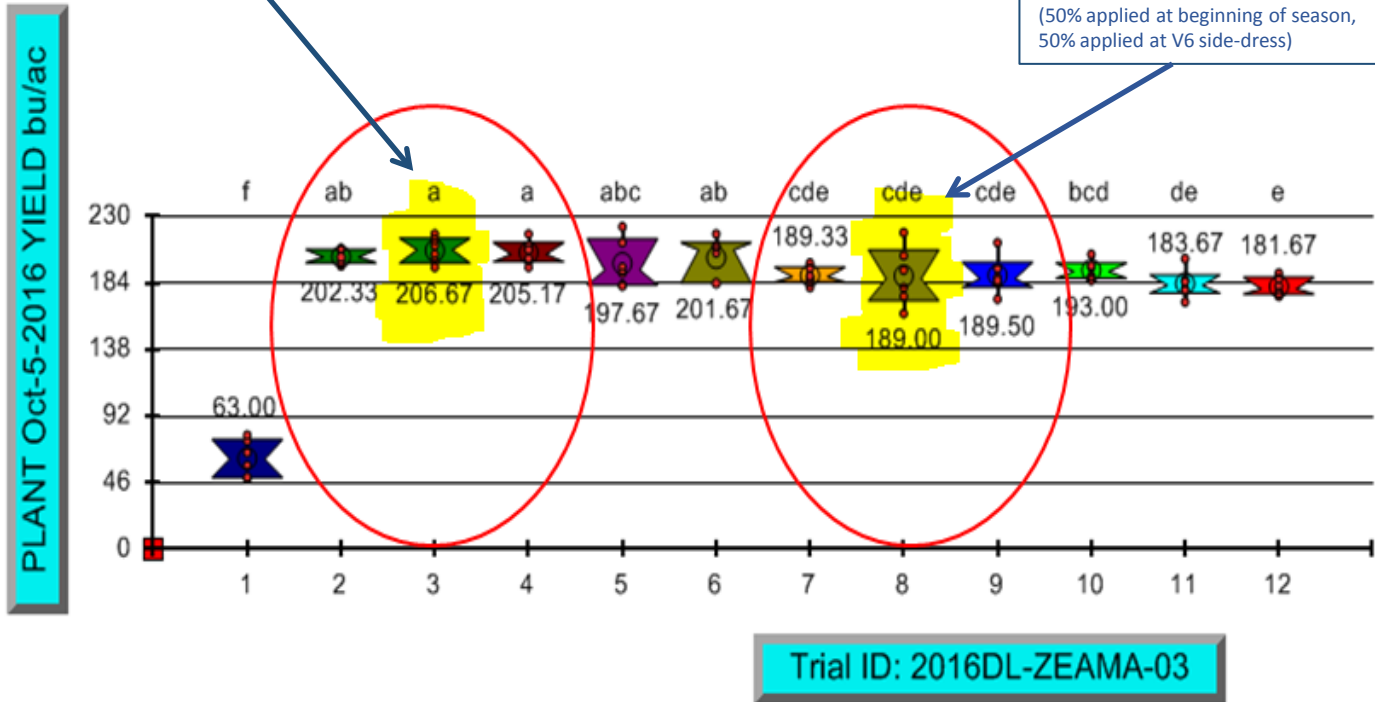


Urbana, IL– Grain Yield (bu/A)

Spring Applied Nitrogen Treatments

NutriSphere-N
(100% applied at beginning of season)

NutriSphere-N
(50% applied at beginning of season,
50% applied at V6 side-dress)



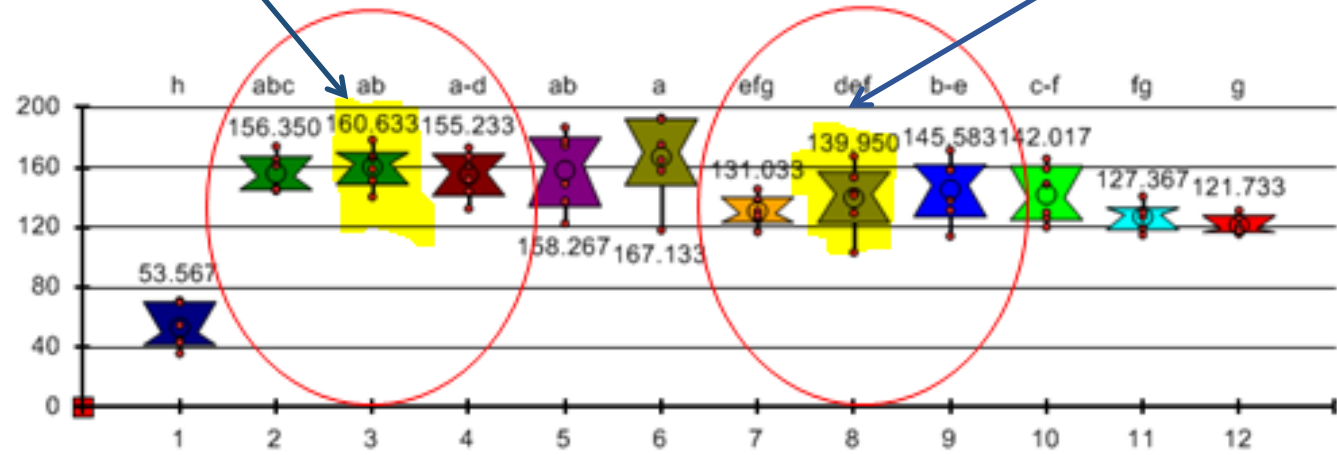
- 1 Unfertilized Check
- 2 Urea 350 LB/A
- 3 Urea 350 LB/A N-N QDO
- 4 Urea 350 LB/A Agrotain Ultra
- 5 Urea 350 LB/A Hydrahume Dry
- 6 Urea 350 LB/A Ultra Boost
- 7 Urea 174 LB/A UAN 24 GAL/A (Ydrop)
- 8 Urea 174 LB/A UAN 24 GAL/A N-N HV
- 9 Urea 174 LB/A UAN 24 GAL/A Agrotain
- 10 Urea 174 LB/A UAN 24 GAL/A Hydrahume
- 11 Urea 174 LB/A UAN 24 GAL/A Growth Boost
- 12 Urea 174 LB/A UAN 24 GAL/A (bdcast)

Urbana, IL – Total N Uptake for Season (lb/A)

NutriSphere-N
(100% applied at beginning of season)

NutriSphere-N
(50% applied at beginning of season,
50% applied at V6 side-dress)

PLAMAT Oct-5-2016 NITCON lb/ac



Trial ID: 2016DL-ZEAMA-03

- 1 Unfertilized Check
- 2 Urea 350 LB/A
- 3 Urea 350 LB/A N-N QDO
- 4 Urea 350 LB/A Agrotain Ultra
- 5 Urea 350 LB/A Hydrahume Dry
- 6 Urea 350 LB/A Ultra Boost
- 7 Urea 174 LB/A UAN 24 GAL/A (Ydrop)
- 8 Urea 174 LB/A UAN 24 GAL/A N-N HV
- 9 Urea 174 LB/A UAN 24 GAL/A Agrotain
- 10 Urea 174 LB/A UAN 24 GAL/A Hydrahume
- 11 Urea 174 LB/A UAN 24 GAL/A Growth Boost
- 12 Urea 174 LB/A UAN 24 GAL/A (bdcast)