### Nutrisphere Yield Results
#### North Central Iowa 2009

<table>
<thead>
<tr>
<th>City</th>
<th>Appl</th>
<th>N lb/a</th>
<th>NSN Cost</th>
<th>Yield Check</th>
<th>Yield NSN</th>
<th>Yield Adv (bu/a)</th>
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<tbody>
<tr>
<td>Clear Lake</td>
<td>Pre</td>
<td>140</td>
<td>$14.00</td>
<td>187.9</td>
<td>200.7</td>
<td>12.8</td>
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<td>Pre</td>
<td>140</td>
<td>$14.00</td>
<td>204.7</td>
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<td>Sheffield</td>
<td>Pre</td>
<td>110</td>
<td>$11.20</td>
<td>141.1</td>
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<td>16.1</td>
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<td>110</td>
<td>$11.00</td>
<td>155.5</td>
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<td>8.8</td>
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<td>110</td>
<td>$11.00</td>
<td>155.5</td>
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</tr>
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<td>PPI</td>
<td>180</td>
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<td>Fertile</td>
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<td>$14.00</td>
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Ave cost/acre for N-N = $14.44/ac
Average Yield Increase= 10.25 bu/ac
Average ROI@$5.00/bu corn = **$51.25/acre**
<table>
<thead>
<tr>
<th>Location</th>
<th>Appl</th>
<th>N lb/Ac</th>
<th>NSN Cost/</th>
<th>Yield</th>
<th>Yield</th>
<th>Yield Adv (bu/a)</th>
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<td>Byron, MN</td>
<td>Pre</td>
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<td>NSN Cost/ Acre</td>
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<td>Yield NSN</td>
<td>Yield Adv (bu/a)</td>
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Nutrisphere Summary
S. MN/N. IA (2010)

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<tr>
<td>Average Cost N-N/Ac</td>
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<td>Average Yield Increase</td>
<td>6.01 Bu/Acre</td>
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<td>Ave ROI@$5.00/bu corn</td>
<td>$30.05/Acre</td>
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n=22 trials
### Nutrisphere Two Year Summary
#### S. MN/N. IA (2009-2010)

<table>
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<td>Average Cost N-N/Ac</td>
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<tr>
<td>Average Yield Increase</td>
<td>7.24 Bu/Acre</td>
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<tr>
<td>Ave ROI@$5.00/bu corn</td>
<td>$36.20/Acre</td>
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n=31
**Nutrisphere/Agrotain Plus Yield Results – S. MN 2010**  
**Nitrogen Source – UAN 28%**

<table>
<thead>
<tr>
<th>City</th>
<th>Appl</th>
<th>N lb/a</th>
<th>NSN Cost</th>
<th>Agrotain Plus Cost</th>
<th>Yield Check</th>
<th>Yield Agrotain Plus</th>
<th>Yield NSN</th>
<th>Yield Adv (bu/a)</th>
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<tbody>
<tr>
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<td>Pre</td>
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<td>$14.00</td>
<td>$19.35</td>
<td>153.71</td>
<td>169.1</td>
<td>185.2</td>
<td><strong>31.49</strong></td>
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Average N-N cost = $14.00/ac  
Average Yield effect = 31.49 bu/ac  
Average ROI@$5.00/bu corn = **$157.45/ac**
### Nutrisphere/Instinct Yield Results – N. Iowa 2010
Nitrogen Source – UAN 32%

<table>
<thead>
<tr>
<th>City</th>
<th>Appl</th>
<th>N lb/a</th>
<th>NSN Cost/ac</th>
<th>Instinct Cost/ac</th>
<th>Yield Instinct</th>
<th>Yield NSN</th>
<th>Yield Adv (bu/a)</th>
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<tr>
<td>Ruthven, IA</td>
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### Influence of Nitrogen Enhancers on 2010 Corn Yield – Twin State

<table>
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<th>Treatment</th>
<th>Yield Bu/ac</th>
<th>Cost $/ac</th>
<th>Net $/ac</th>
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<tr>
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<td>Agrotain</td>
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<td>779.5</td>
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<td>Instinct</td>
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<td>$10.50</td>
<td>824.25</td>
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<tr>
<td>Nutrisphere</td>
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</table>

50 lb N/Ac was surface dribbled on June 1, 2010
Davenport, IA
## Avail Results -2010
### S. MN/N. Iowa

<table>
<thead>
<tr>
<th>City</th>
<th>Appl</th>
<th>Rate</th>
<th>Avail Cost/A (est)</th>
<th>Yield Check</th>
<th>Yield NSN</th>
<th>Yield Adv (bu/a)</th>
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<tbody>
<tr>
<td>Saratoga, IA</td>
<td>In-Furrow</td>
<td>5</td>
<td>$4.70</td>
<td>179.6</td>
<td>195.2</td>
<td>15.6</td>
</tr>
<tr>
<td>Kensett, IA</td>
<td>In-Furrow</td>
<td>5</td>
<td>$4.70</td>
<td>166.1</td>
<td>177.7</td>
<td>11.6</td>
</tr>
<tr>
<td></td>
<td>6-24-6</td>
<td></td>
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<tr>
<td>Wells, MN</td>
<td>In-Furrow</td>
<td>5.5</td>
<td>$5.17</td>
<td>180</td>
<td>186</td>
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<td>Wells, MN</td>
<td>In-Furrow</td>
<td>5.5</td>
<td>$5.17</td>
<td>189.9</td>
<td>188</td>
<td>-1.9</td>
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<td>2x2 Strip Till</td>
<td>11</td>
<td>$10.34</td>
<td>190</td>
<td>191.8</td>
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<td>179.8</td>
<td>9.4</td>
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<tr>
<td>Hartland, MN</td>
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<td>9.5</td>
<td>$8.93</td>
<td>163.2</td>
<td>175.5</td>
<td>12.3</td>
</tr>
<tr>
<td>City</td>
<td>Appl</td>
<td>Rate</td>
<td>Avail Cost/A (est)</td>
<td>Yield Check</td>
<td>Yield NSN</td>
<td>Yield Adv (bu/a)</td>
</tr>
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<td>Blooming Prairie, MN</td>
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<td>Owatonna, MN</td>
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<td>333</td>
<td>$24.88</td>
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<td>191.4</td>
<td>4.0</td>
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<tr>
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<td>$6.30</td>
<td>165</td>
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<td>$6.30</td>
<td>201.7</td>
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<td>200.2</td>
<td>205.4</td>
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## Avail Summary
**S. MN/N. IA-2010**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
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<tbody>
<tr>
<td>Average Cost/ac of Avail</td>
<td>$10.03/ac</td>
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<tr>
<td>Average Yield Increase</td>
<td>5.21 bu/ac</td>
</tr>
<tr>
<td>Average ROI@$5.00/bu corn</td>
<td>$26.05/ac</td>
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n=18
### Avail Yield Results – S. MN/North Central, IA 2010

**Phosphorus Source – 10-34-0**

<table>
<thead>
<tr>
<th>City</th>
<th>Appl</th>
<th>Rate</th>
<th>Avail Cost/A</th>
<th>Yield Check</th>
<th>Yield NSN</th>
<th>Yield Adv (bu/a)</th>
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<tbody>
<tr>
<td>Saratoga, IA</td>
<td>In-Furrow</td>
<td>5</td>
<td>$4.70</td>
<td>179.6</td>
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<td>15.6</td>
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<tr>
<td>Kensinget, IA</td>
<td>In-Furrow 6-24-6</td>
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<td>$4.70</td>
<td>166.1</td>
<td>177.7</td>
<td>11.6</td>
</tr>
<tr>
<td>Wells, MN</td>
<td>In-Furrow</td>
<td>5.5</td>
<td>$5.17</td>
<td>180</td>
<td>186</td>
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<td>$5.17</td>
<td>189.9</td>
<td>188</td>
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<td>1.8</td>
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<td>9.4</td>
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<td>$8.93</td>
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<td>$6.30</td>
<td>201.7</td>
<td>203.2</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Average Avail cost = $7.09/ac**

**Average Yield increase = 6.69 bu/ac**

**Average ROI@$5.00/bu corn = $33.45/ac**
Nutrisphere: 2010 Results

- Mason City, IA
  - 40 gal/ac 32% UAN
  - Preplant
  - 5.34 bu/a increase
Nutrisphere: 2010 Results

- Mason City, IA
  - 45 gal/ac 32% UAN
  - Preplant
  - 5.71 bu/a increase
Nutrisphere: 2010 Results

- Hanlontown, IA
  - 51 gal/a 32% UAN
  - Preplant
  - 13.78 bu/a increase

![Bar graph showing a comparison between Control and Nutrisphere with an increase of 173.41 vs 159.63.](image-url)
Nutrisphere: 2010 Results

• Clarion, IA
  – 35 gal/a 32% UAN
  – PPI
  – 3 Ton Chicken Litter
  – 6 bu/a increase
Nutrisphere: 2010 Results

- Byron, MN
  - Urea
  - Broadcast
  - 3.36 bu/a increase
Nutrisphere: 2010 Results

- Byron, MN
  - 32% UAN
  - Broadcast
  - 9.12 bu/a increase

Control: 216.69
Nutrisphere: 225.81
• Byron, MN
  – 32% UAN
  – Broadcast
  – 2.48 bu/a increase
Nutrisphere: 2010 Results

- Chester, MN
  - Urea
  - Preplant Incorporated
  - 190 lbs/acre
  - 3.8 bu/a decrease
Nutrisphere: 2010 Results

- Chester, MN
  - Urea
  - Preplant Incorporated
  - 170 lbs/acre
  - 5.5 bu/a decrease
Nutrisphere: 2010 Results

• Byron, MN
  – 32% UAN
  – Broadcast
  – 11.2 bu/a increase

![Graph comparing Control and Nutrisphere results]

“Increasing Our Owners Capabilities & Competitiveness”
Nutrisphere: 2010 Results

- Byron, MN
  - 32% UAN
  - Broadcast
  - 11.0 bu/a increase
Nutrisphere: 2010 Results

- Oslo, MN
  - 32% UAN
  - 130 lbs/acre
  - Pre-emerge
  - 0.27 bu/a increase
• Byron, MN
  – 32% UAN
  – 120 lbs/acre
  – Pre-emerge
  – 0.14 bu/a decrease
Nutrisphere: 2010 Results

- Byron, MN
  - 32% UAN
  - 120 lbs/acre
  - Pre-emerge
  - 11.19 bu/a increase

![Graph showing comparison between Control and Nutrisphere results. The Nutrisphere bar reaches 237.71, while the Control bar reaches 226.52.]
Nutrisphere: 2010 Results

• Rudd, IA
  – 32% UAN
  – 210 lbs/acre
  – Preplant
    Incorporated
  – 3.2 bu/a increase
Nutrisphere: 2010 Results

- Rudd, IA
  - 32% UAN
  - 210 lbs/acre
  - Preplant Incorporated
  - 0.2 bu/a increase
Nutrisphere: 2010 Results

- Osage, IA
  - 32% UAN
  - 165 lbs/acre
  - Preplant Incorporated
  - 3.7 bu/a increase
Nutrisphere: 2010 Results

• Easton, MN
  – 50 gal. (28%)
  – Pre-emerge
  – 31.49 bu/a increase

Control

Agrotain

Nutrisphere

Plus

153.71
169.11
185.2

“Increasing Our Owners Capabilities & Competitiveness”
Nutrisphere: 2010 Results

• Buffalo Center, IA
  – 40 gal. (32%)
  – 5 gal. ATS
  – Broadcast
  – 5 bu/a increase
Nutrisphere: 2010 Results

- Thornton, IA
  - 120 lbs. (32%)
  - PPI
    - 0.35 bu/a decrease
Nutrisphere: 2010 Results

- Thornton, IA
  - 120 lbs. (32%)
  - PPI
  - 5.65 bu/a increase
Nutrisphere: 2010 Results

- Blue Earth, MN
  - 15 gal. (32%)
  - Sidedress
  - 13.45 bu/a increase

Control | Nutrisphere
---|---
159.23 | 172.68
150 | 155
160 | 165
165 | 170
170 | 175
175 | 180

“Increasing Our Owners Capabilities & Competitiveness”
Nutrisphere: 2010 Results

• Overall Results
  – 22 Trials
  – Positive response 82% of the time
  – 6.01 bu/acre average increase
  – 251% ROI at $5.00/bushel Corn Price
  – **Assuming an average investment of $12/acre
Avail: 2010 Results
Corn

• Saratoga, IA
  – 5 gal 10-34-0
  – In furrow
  – 15.6 bu/a increase
• Kensett, IA
  – 5 gal 6-24-6
  – In furrow
  – 11.6 bu/a increase
• Wells, MN
  – 5.5 gal 10-34-0
  – In furrow
  – 6 bu/a increase
  – DKC 48-37
  – Phosphorus levels: 17-41 (avg. 26)
  – MehlichIII

![Bar chart showing Avail: 2010 Results Corn. Control: 180, Avail: 186.]
• Wells, MN
  – 5.5 gal 10-34-0
  – In furrow
  – 1.9 bu/a decrease
  – DKC 50-35
- Blooming Prairie, MN
  - 335 lbs. MAP
  - Broadcast Fall
  - 7.37 bu/a decrease
  - Phosphorus Levels = 8.38 ppm (Bray P-1)
Avail: 2010 Results
Corn

- Owatonna, MN
  - 333 lbs MAP
  - Fall Broadcast
  - 22.13 bu/a increase
  - Phosphorus Levels = 7.63 ppm (Bray P-1)
  - ***Also used Avail with 10-34-0 at 6 gallon/acre
Avail: 2010 Results Corn

- Albert Lea, MN
  - MAP
  - 2009 Fall Application
  - 0.17 bu/a increase

```
Control         Avail
195.73  195.9
125
145
165
185
205
225
245
265
```
Avail: 2010 Results Corn

- Kensett, IA
  - 70 lbs. Actual P
  - Fall Broadcast
  - 3.83 bu/a increase
  - Phosphorus Levels = 14 - 17 ppm
• Stewartville, MN
  – 250 lbs. MAP
  – 2009 Fall Broadcast
  – 10.5 bu/a decrease
  – Phosphorus Levels = 14 ppm
• Stewartville, MN
  – 245 lbs. MAP
  – 2009 Fall Broadcast
  – 5.2 bu/a increase
  – Phosphorus Levels = 14 ppm
Avail: 2010 Results
Corn

• Clear Lake, IA
  – 10-34-0
  – 11 gallon/acre
  – Spring Strip Till
  – 1.8 bu/a increase
Avail: 2010 Results
Corn

- Hartland, MN
  - 10-34-0
  - 9.5 gallon/acre
  - Starter application
  - 6.1 bu/a decrease
Avail: 2010 Results
Corn

- Hartland, MN
  - 10-34-0
  - 9.5 gallon/acre
  - Starter application
  - 9.4 bu/a increase

```
170.4
179.8
```

“Increasing Our Owners Capabilities & Competitiveness”
Avail: 2010 Results Corn

- Hartland, MN
  - 10-34-0
  - 9.5 gallon/acre
  - Starter application
  - 12.28 bu/a increase
Avail: 2010 Results Corn

- Hartland, MN
  - 10-34-0
  - 6 gallon/acre
  - Starter application
    - In-furrow
  - 20.03 bu/a increase
Avail: 2010 Results
Corn

- Rudd, IA
  - 10-34-0
  - 6.7 gallon/acre
  - Starter application
    - In-furrow
  - 1.5 bu/a increase
• Rudd, IA
  – 10-34-0
  – 6.7 gallon/acre
  – Starter application
    • In-furrow
  – 6 bu/a increase
• Rudd, IA
  – 10-34-0
  – 6.7 gallon/acre
  – Starter application
    • In-furrow
  – 4 bu/a increase
Avail: 2010 Results
Corn

• Overall Results
  – 18 Trials
  – Positive response 78% of the time
  – 5.21 bu/acre average increase
  – 289% ROI at $5.00/bushel Corn Price
  – **Assuming an average investment of $9/acre