AGRICULTURE

• APSA-80 Nutriplant SD, SL & AG
• Field Test Program 2015
YIELD DATA IN CORN (2011–2014) APSA-80 @ 15 oz/Acre

Varying Irrigation Amount, Population and Fertilizer Rate Irrigation Research Foundation, Yuma, Colorado
YIELD DATA IN CORN (2011–2014) APSA-80 @ 15 oz/Acre
Varying Irrigation Amount, Population and Fertilizer Rate Irrigation Research Foundation, Yuma, Colorado

\[
y = 2.633x + 132.8 \\
R^2 = 0.26778
\]

\[
y = 2.7113x + 139.59 \\
R^2 = 0.25739
\]
EFFECT OF APSA-80® ADJUVANT
On Integrated Corn Yield in Compact Soil – 2015 – Strip Tillage

Irrigation Research Foundation, Yuma, Colorado

14.0 bu/acre Increase
Variety: Golden Harvest
G07B39-3111A
YIELD DATA IN CORN (2011-2014)  
- APSA-80 @ 15 oz/Acre

Varying Irrigation Amount, Population and Fertilizer Rate  
Irrigation Research Foundation, Yuma, Colorado

\[ Y = 2.71x + 139.6 \]

Bushels = \( 2.71(\text{Water}) + 139.6 \)  
\( \frac{\text{Bushels} - 139.6}{2.71} = \text{Water} \)

<table>
<thead>
<tr>
<th>Yield</th>
<th>Control</th>
<th>APSA-80</th>
<th>Water Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>175 bu</td>
<td>15.4</td>
<td>12.1</td>
<td>3.3 in</td>
</tr>
<tr>
<td>200 bu</td>
<td>26.0</td>
<td>22.4</td>
<td>3.6 in</td>
</tr>
<tr>
<td>225 bu</td>
<td>36.5</td>
<td>32.7</td>
<td>3.8 in</td>
</tr>
</tbody>
</table>

Acre Inches of Water Required to Get The Same Yield – Control vs APSA-80
EFFECT OF APSA-80® ADJUVANT
On Integrated Corn Yield in Compact Soil – 2015 – Strip Tillage

Irrigation Research Foundation, Yuma, Colorado

14.0 bu/acre Increase
Variety: Golden Harvest G07B39-3111A
EFFECT OF APSA-80® ADJUVANT On Integrated Corn Yield in Compact Soil – 2015 – Strip Tillage

Irrigation Research Foundation, Yuma, Colorado

9.4 bu/acre Increase
5.1% Yield Increase
13 Year Average
99.99% Confidence Level
EFFECT OF APSA-80 & NUTRIPLANT AG ON CORN YIELD IN COMPACTED SOIL - 2015
Irrigation Research Foundation, Yuma, Colorado

AG – 16 oz/Acre @ 6-8 Leaf Stage
APSA-80 – 15 oz/Acre @ Planting
14.0 bu/A Increase with APSA-80
13.7 bu/A Increase with Nutriplant AG
6.5 bu/A Increase with APSA-80 & Nutriplant AG

VARIETY:
Golden Harvest G07B39-3111A
EFFECT OF APSA-80 ON DRYLAND CORN YIELD IN COMPACTED SOIL - 2015
Irrigation Research Foundation, Yuma, Colorado

16.9 & 22.2 bu/A Increase

Variety:
- DeKalb 54-38
- GH01P52-3011A

Population:
- 15,000/Acre

Rainfall:
- 16 Inches

Corn Yield bu/A
- Control
- 15 Oz/Acre
- 30 Oz/Acre

APSA-80 Use Rate
EFFECT OF APSA-80 ON DRYLAND CORN YIELD IN COMPACTED SOIL – EIGHT YEAR AVERAGE
Irrigation Research Foundation, Yuma, Colorado

16.5 & 30.8 bu/A Increase

DMRT(2) = 14.25
bu/A @ 95% Confidence Level

30 oz > 15 oz > Control
EFFECT OF APSA-80 ON DRIP IRRIGATED CORN YIELD IN COMPACTED SOIL - 2015
Irrigation Research Foundation, Yuma, Colorado

14.5 & 9.2 bu/A Increase

Variety:
   DeKalb 54-38

Population:
   34,000/Acre

Corn Yield bu/A

<table>
<thead>
<tr>
<th>APSA-80 Use Rate</th>
<th>Control</th>
<th>15 Oz/Acre</th>
<th>30 Oz/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95.6</td>
<td>110.1</td>
<td>104.8</td>
</tr>
</tbody>
</table>
EFFECT OF APSA-80 ON DRIP IRRIGATED CORN YIELD IN COMPACTED SOIL – FOUR YEAR AVERAGE

Irrigation Research Foundation, Yuma, Colorado

10.4 & 6.1 bu/A Increase

DMRT(2) = 5.6 bu/A @ 95% Confidence Level

15 oz = 30 oz > Control

Corn Yield bu/A

Control 15 Oz/Acre 30 Oz/Acre

APSA-80 Use Rate
CORN – 2015
Treatment – APSA-80 oz/acre
Larson Grain – North Dakota

CORN YIELD – BU/ACRE

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Control</th>
<th>APSA-80</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Loam</td>
<td>206.8b</td>
<td>216.3a</td>
<td>+9.5</td>
</tr>
<tr>
<td>Sandy Clay Loam</td>
<td>200.0b</td>
<td>215.7a</td>
<td>+15.7</td>
</tr>
<tr>
<td>Silty Loam</td>
<td>198.5b</td>
<td>209.7a</td>
<td>+11.2</td>
</tr>
<tr>
<td>Clay Loam</td>
<td>103.5</td>
<td>95.3</td>
<td>-8.2</td>
</tr>
<tr>
<td>Silty Clay</td>
<td>148.9b</td>
<td>158.2a</td>
<td>+9.3</td>
</tr>
<tr>
<td>Average</td>
<td>171.5b</td>
<td>179.0a</td>
<td>+7.5</td>
</tr>
</tbody>
</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
# CORN – 2015
Treatment – APSA-80 oz/acre
Larson Grain – North Dakota

## CORN YIELD – BU/ACRE

<table>
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</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
SOYBEANS – 2015
Treatment – APSA-80 oz/acre
Larson Grain – North Dakota

SOYBEAN YIELD – BU/ACRE

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Control</th>
<th>APSA-80</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Loam</td>
<td>42.3b</td>
<td>46.8a</td>
<td>+4.5</td>
</tr>
<tr>
<td>Sandy Clay Loam</td>
<td>40.5</td>
<td>40.6</td>
<td>+0.1</td>
</tr>
<tr>
<td>Clay Loam</td>
<td>51.2b</td>
<td>55.4a</td>
<td>+4.2</td>
</tr>
<tr>
<td>Clay Loam</td>
<td>51.0</td>
<td>52.3</td>
<td>+1.3</td>
</tr>
<tr>
<td>Silty Clay</td>
<td>38.9</td>
<td>40.2</td>
<td>+1.3</td>
</tr>
<tr>
<td>Average</td>
<td>44.8b</td>
<td>47.8a</td>
<td>+3.0</td>
</tr>
</tbody>
</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
SOYBEANS – 2015
Treatment – APSA-80 oz/acre
Larson Grain – North Dakota

**SOYBEAN YIELD – BU/ACRE**

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<td>51.2b</td>
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<td>47.8a</td>
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</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
### SPRING WHEAT YIELD – BU/ACRE

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Control</th>
<th>APSA-80</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay Loam</td>
<td>70.3</td>
<td>73.0</td>
<td>+2.7</td>
</tr>
<tr>
<td>Silty Loam</td>
<td>71.4</td>
<td>72.4</td>
<td>+1.0</td>
</tr>
<tr>
<td>Silty Clay Loam</td>
<td>55.6b</td>
<td>60.5a</td>
<td>+4.9</td>
</tr>
<tr>
<td>Average</td>
<td>65.8b</td>
<td>68.6a</td>
<td>+2.8</td>
</tr>
</tbody>
</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
**SPRING WHEAT – 2015**  
**Treatment – APSA-80 oz/acre**  
Larson Grain – North Dakota

**SPRING WHEAT YIELD – BU/ACRE**

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Control</th>
<th>APSA-80</th>
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<td>Clay Loam</td>
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<td>+2.8</td>
</tr>
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</table>

Yield Results flowed by a Different Letter at Significantly Different @ 95% Confidence Level
SOYBEANS – 2015
Treatment – APSA-80 oz/acre
Larson Grain – North Dakota

2015 Results
Average 2.3 bu/acre Increase
Average 5.1% Yield Increase
Average Yield Results Significant at 95.0% Confidence Level
Effect of APSA-80 on Soybean Yield 2015
Irrigation Research Foundation, Yuma, Colorado

5.1 bu/acre Increase

Variety: Syngenta S24-K2
Effect of APSA-80 on Soybean Yield
Eleven Year Average
Irrigation Research Foundation, Yuma, Colorado

5.6 bu/acre Increase
8.7% Yield Increase
Results Significant @ 99.9% Confidence Level
Effect of Nutriplant AG on Soybean Yield 2015
Irrigation Research Foundation, Yuma, Colorado

4.9 & 4.8 bu/acre Increase

Variety: Syngenta S24-K2
Effect of Nutriplant AG on Soybean Yield Two Year Average
Irrigation Research Foundation, Yuma, Colorado

3.8 & 4.1 bu/acre Increase
Effect of APSA-80 on Sugar Beet Yield 2015
Irrigation Research Foundation, Yuma, Colorado

2.5 tons/acre Increase
12.9% Increase

Variety: Hilleshog Cruiser Maxx 9173RR
Effect of APSA-80 on Sugar Beet Yield Twelve Year Average
Irrigation Research Foundation, Yuma, Colorado

1.7 tons/acre Increase
6.8% Increase
Results Significant @ 98.4% Confidence Level
Effect of APSA-80 on Sugar Beet % Sugar - 2015
Irrigation Research Foundation, Yuma, Colorado

0.35% Increase In Sugar Content
2.3% Sugar Increase

Variety: Hilleshog Cruiser Maxx 9173RR

0 5 10 15 20
Sugar Content - %
Control 15 oz/acre APSA-80 Use Rate

15.38 15.73
Effect of APSA-80 on Sugar Beet %
Sugar Twelve Year Average
Irrigation Research Foundation, Yuma, Colorado

- 0.44% Increase in Sugar Content
- 2.9% Yield Increase
- Results Significant @ 82.6% Confidence Level
Effect of APSA-80 on Sugar Beet Sugar Production - 2015
Irrigation Research Foundation, Yuma, Colorado

933 lbs/acre Increase
13.1% Yield Increase

Variety: Hilleshog Cruiser Maxx 9173RR

Sugar Production - lbs/acre
Control 15 oz/acre APSA-80 Use Rate

APSA-80 Use Rate

Exclusively from Amway
Effect of APSA-80 on Sugar Beet Sugar Production - Twelve Year Average

Irrigation Research Foundation, Yuma, Colorado

772 lbs/acre Increase

9.9% Yield Increase

Results Significant @ 99.9% Confidence Level
APENDIX

• The following slides are part of the template that have been developed for you to use.
TRANSITION SLIDE
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation
Color Options

Primary Green

Primary Green Hue Options

Dark Green

Dark Green Hue Options