The Lodging Management Choice
for High-yielding Cereals

2013 Field Photos and Yield Results
Mo., Ill., Ind., Ky.
About Palisade EC

- Palisade® EC plant growth regulator (PGR) shortens the internodes and strengthens the stem of wheat and barley plants.
- Shorter plants mean a lower center of gravity, which improves crop standability and mitigates risk from adverse weather.

Increased Stem Thickness

Untreated  Palisade EC
Risk Management Tool

- Palisade EC helps protect cereal growers’ valuable crop investments in seed, fertilizer and other inputs, to maximize yield and profit potential
- Flattened crops mean higher cost or lower premiums
  - Slower combining time = higher cost
  - Increased drying cost
  - Yield losses
  - Quality discounts
- Palisade EC protects the profitability and marketability of cereal crops

Source: Syngenta Trial
Significantly Decreases Lodging

- Lodging can reduce yield by 10 to 40 percent
- Lodging can be an issue in fields where higher N fertilization has been applied to improve yield potential, or in fields with high residual N carryover
- Palisade EC can protect yield in lodging-prone areas. Results show an average increase of 5-6 bu/A in high lodging situations.

**Better Standability**

<table>
<thead>
<tr>
<th>% Lodging</th>
<th>Untreated</th>
<th>Palisade EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>37</td>
<td></td>
</tr>
</tbody>
</table>

**Maximized Yield Potential**

<table>
<thead>
<tr>
<th>Yield bu/A</th>
<th>Untreated</th>
<th>Palisade EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>78</td>
<td></td>
</tr>
</tbody>
</table>

Application rates: 0.09-0.114 lb ai/A (equivalent to 12-14.4 oz/A of Palisade EC). Number of trials = 11. Trials conducted in IL, KY, MD, MN, NY and OR.
Optimum Application Window in Winter Wheat

- Single application:
  - Timing: FGS 4-7
- Split application timing:
  - Apply first application at FGS 4-5 followed by a second application at FGS 7
  - Apply no more than 14.4 oz./A total
Palisade EC Trial: Treated vs. Untreated
Davies County, Kentucky
Palisade EC Trial: Treated vs. Untreated
Gibson County, Indiana

Untreated
Palisade EC Trial: Treated vs. Untreated
Saline County, Illinois
Palisade EC Trial: Treated vs. Untreated
Franklin County, Illinois

Untreated
Palisade EC Trial: Treated vs. Untreated
Clinton County, Illinois

Untreated
Demonstration of Shortened Nodes: Palisade EC vs. Untreated
Clinton County, Illinois
Harvest Report

Harvest Report: Maystown, IL – Monroe County
Harvest Date: June 21, 2013
Variety: Elder

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate</th>
<th>Product</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 oz</td>
<td>Palisade EC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.5 oz</td>
<td>Quilt Xcel®</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45 Units</td>
<td>Nitrogen</td>
<td></td>
</tr>
</tbody>
</table>

Selling Price: $ 6.96
Incremental Bushels: 16.77 bu / acre
Income on Incremental Bushels: $ 116.72 / acre
Investment: $ 67.00 / acre
Return on Investment: $ 49.72 / acre

$67.00

### Harvest Data

<table>
<thead>
<tr>
<th></th>
<th>Test Weight</th>
<th>Row Length</th>
<th>Harvested Rows</th>
<th>Harvested Feet</th>
<th>Harvest Weight</th>
<th>Moisture</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>61.5</td>
<td>980</td>
<td>32</td>
<td>980</td>
<td>2830</td>
<td>12.8</td>
<td>105.67</td>
</tr>
<tr>
<td>Untreated</td>
<td>60.7</td>
<td>920</td>
<td>32</td>
<td>920</td>
<td>2230</td>
<td>12.6</td>
<td>88.90</td>
</tr>
</tbody>
</table>
# Harvest Report

**Harvest Report:** Jackson County  
**Harvest Date:** June 29, 2013  
**Variety:** Elder  
**Treatment:**  
- **Rate:** 10 oz  
- **Product:** Palisade EC  
  - 32% Nitrogen

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<table>
<thead>
<tr>
<th></th>
<th>Test Weight</th>
<th>Row Length</th>
<th>Harvested Rows</th>
<th>Harvested Feet</th>
<th>Harvested Weight</th>
<th>Moisture</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Treated</strong></td>
<td>58.3</td>
<td>337</td>
<td>56</td>
<td>337</td>
<td>1410</td>
<td>12.8</td>
<td>87.5</td>
</tr>
<tr>
<td><strong>Untreated</strong></td>
<td>57</td>
<td>337</td>
<td>56</td>
<td>337</td>
<td>1250</td>
<td>12.5</td>
<td>77.8</td>
</tr>
</tbody>
</table>

*9.7 Bushel Yield Increase*
## Palisade EC Trial: Treated vs. Untreated
### Pike County, Missouri

<table>
<thead>
<tr>
<th></th>
<th>Yield</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palisade EC</td>
<td>60.074</td>
<td>7.3606</td>
</tr>
<tr>
<td>Untreated 1</td>
<td>58.163</td>
<td>1.1403</td>
</tr>
<tr>
<td>Untreated 2</td>
<td>55.08</td>
<td>30.159</td>
</tr>
</tbody>
</table>

*Classification: Public*

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For more information, visit www.cereals.farmassist.com

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