FIELD EXPERIMENT HISTORY

Title: Determining Corn Hybrid Maturity
Experiment: 01 Growth and Development  Trial ID 2494  Year: 2003
Personnel: J.G. Lauer, P. J. Flannery, and K. D. Kohn
Location: Arlington, WI  County: Columbia
Supported By: HATCH

Site Information
Field: ARS412  Previous Crop: Soybean  Soil Type: Plano Silt Loam
Soil Test: Date: 10/15/03  pH 6.5  OM (%) 5.4  P (ppm) 112  K (ppm) 281

Plot Management
Tillage Operations: Fall Chisel Plow  Field Cultivator Cultivated 6/18/03
Fertilizer: 
Preplant : 46-0-0  Rate lbs/A: 150 lbs/A  Date: N/A
Starter : 6-24-24  9 lbs/A  5/3/03
Post plant : N/A  N/A  N/A
Manure: N/A  N/A  N/A

Herbicide: 
Harness 2.5 pt/A  Insecticide: None
Hornet 3.0 oz/A  Hybrid: See Factors
Irrigation: None

Planting Date: 5/3/03  Planting Depth: 1.5"  Row Width: 30"
Target Plant Density: 30000  plants per acre  Planting Method: Kinze Plot Planter
Harvest Date: 10/17/03  Harvest Method: Kincaid Plot Combine

Experimental Design
Design: RCB  Replications: 3
Plot Size Seeded: 10' x 25'  Experiment Size: 0.275 Acre
Harvest Plot Size: 5' x 22'  Harvest Plant Density: 27958 plants per acre

Factors/Treatments:
Hybrids:
Mycogen 2141  Pioneer 37R71  Pioneer 35Y55
NK Brand N17R3  NK Brand N2555Bt  NK N58D1
Carhart's Blue Top  Pioneer 38T28  Dekalb DKC5878
CX8500A  Dahlman 5102Bt  Jung 2710
Jung 6210  Cargill 4521Bt  Pioneer 33A14
Dekalb DKC3947
Dekalb DKC4442

Results: Table C-1 and C-2.
Table C-1. Determining Corn Hybrid Maturity - Comparison of Hybrids
Arlington, WI - 2003

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<th>Hybrid</th>
<th>Relative maturity</th>
<th>Grain yield</th>
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<th>Test weight</th>
<th>Lodging</th>
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Mean                          | 172               | 20.6        | 56            | 7           | 328      | 208           | 4.2     | 56       | 9.8         | 5.0     | 62.6 | 71.0            |

Probability(%)               |                    |             |               |             |          |               |         |          |             |         |      |                 |
Hybrid (H)                    | 0.0                | 0.0         | 0.0           | 0.1         | 0.0      | 0.0           | 0.0     | 0.0      | 0.0         | 9.3     | 16.6 | 11.2            |

LSD(0.10)                     |                    |             |               |             |          |               |         |          |             |         |      |                 |
Hybrid (H)                    | 13                 | 1.0         | 1             | 11          | 23       | 1             | 0.4     | 1        | 0.5         | 0.6     | NS  | NS              |

CV(%)                         |                    |             |               |             |          |               |         |          |             |         |      |                 |
Mean                          | 5                  | 3           | 1             | 110         | 5        | 0             | 7       | 1        | 4           | 9       | 2    | 2               |
### Table C-2. Determining Corn Hybrid Maturity - Comparison of Hybrids
Arlington, WI - 2003

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Table C-2. Determining Corn Hybrid Maturity - Comparison of Hybrids
Arlington, WI - 2003

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Mean

9.9  11.5  12.5  52.4

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LSD(0.10)

| Hybrid (H)     | 0.4              | 0.4              | 0.4              | 1.7              |
| Day Of Year (D)| 0.2              | 0.2              | 0.1              | 1.0              |
| H x D          | 0.9              | 0.6              | 0.5              | 3.8              |

CV(%) 7  4  3  5
FIELD EXPERIMENT HISTORY

Title: Determining Corn Hybrid Maturity

Experiment: 01 Growth and Development  Trial ID 2495  Year: 2003

Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn

Location: Hancock, WI  County: Waushara

Supported By: HATCH

Site Information
Field: V18  Previous Crop: Soybean  Soil Type: Plainfield Sand
Soil Test: Date: 10/15/03  pH 6.2  OM (%) 0.8  P (ppm) 112  K (ppm) 30

Plot Management
Tillage Operations: Moldboard Plow  Disk
Fertilizer:
Preplant: 0-0-60  Rate lbs/A: 100 lbs/A  Date: 4/3/03
Starter: 6-24-24 9 lbs/A  4/24/03
Post plant: 34-0-0  P (ppm) 112 (2x)  6/16/03 & 6/20/03
Manure: N/A  N/A
Herbicide: Aatrex 4L 0.75 lbs/A  Insecticide: None
Lasso 2.0 qt/A  Hybrid: See Factors
Irrigation: 19.6 Inches
Planting Date: 4/24/03  Planting Depth: 1.5"  Row Width: 30"
Target Plant Density: 30000 plants per acre  Planting Method: Kinze Plot Planter
Harvest Date: 10/15/03  Harvest Method: Kincaid Plot Combine

Experimental Design
Design: RCB  Replications: 3
Plot Size Seeded: 5' x 25'  Experiment Size: 0.1375 Acre
Harvest Plot Size: 5' x 22'  Harvest Plant Density: 28433 plants per acre
Factors/Treatments:

Hybrids:
Mycogen 2141  Pioneer 37R71  Pioneer 35Y55
NK Brand N17R3  NK Brand N2555Bt  NK N58D1
Carhart's Blue Top  Pioneer 38T28  Dekalb DKC5878
CX8500A  Dahlman 5102Bt  Jung 2710
Jung 6210  Cargill 4521B  Pioneer 33A14
Dekalb DKC3947  Dekalb DKC4442

Results: Table C-3.
## Table C-3. Determining Corn Hybrid Maturity - Comparison of Hybrids

**Hancock, WI - 2003**

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<th>Hybrid</th>
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<th>Grain moisture</th>
<th>Test weight</th>
<th>Lodging</th>
<th>Grower return</th>
<th>Sample moisture</th>
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<th>Protein</th>
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**Mean**

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<th>Test weight</th>
<th>Lodging</th>
<th>Grower return</th>
<th>Sample moisture</th>
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**Probability(%)**

| Hybrid (H) | 0.0 | 0.0 | 0.0 | 79.0 | 0.0 | 0.1 | 0.0 | 0.0 | 4.1 | 20.3 | 16.2 |

**LSD(0.10)**

| Hybrid (H) | 17 | 0.7 | 1 | NS | 32 | 0.4 | 1 | 0.4 | 0.6 | NS | NS |

**CV(%)**

|        | 6 | 2 | 1 | 201 | 6 | 7 | 1 | 3 | 9 | 2 | 2 |
### FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development  
**Trial ID:** 2496  
**Year:** 2003  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Marshfield, WI  
**County:** Wood  
**Supported By:** HATCH  

### Site Information

<table>
<thead>
<tr>
<th>Field</th>
<th>008-03C50</th>
<th>Previous Crop</th>
<th>Alfalfa</th>
<th>Soil Type</th>
<th>Withee Silt Loam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Test Date</td>
<td>10/6/03</td>
<td>pH</td>
<td>6.5</td>
<td>OM (%)</td>
<td>3.4</td>
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### Plot Management

<table>
<thead>
<tr>
<th>Tillage Operations</th>
<th>Fall Chisel Plow</th>
<th>Field Cultivator</th>
<th>Cultivated</th>
<th>6/19/03</th>
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<tbody>
<tr>
<td>Analysis</td>
<td>Rate lbs/A</td>
<td>Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preplant</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Starter</td>
<td>6-24-24</td>
<td>9 lbs/A</td>
<td>5/1/03</td>
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<tr>
<td>Post plant</td>
<td>28-0-0</td>
<td>45 lbs/A</td>
<td>6/19/03</td>
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<tr>
<td>Manure</td>
<td>Dairy</td>
<td>12872 gallons</td>
<td>Fall</td>
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<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Harness 1.8 pt/A</th>
<th>Insecticide</th>
<th>Force 4.4 lbs/A</th>
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<tbody>
<tr>
<td>Hybrid</td>
<td>See Factors</td>
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<td></td>
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<table>
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<th>Irrigation</th>
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<tr>
<td>Planting Date</td>
</tr>
<tr>
<td>Planting Depth</td>
</tr>
<tr>
<td>Row Width</td>
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</table>

<table>
<thead>
<tr>
<th>Target Plant Density</th>
<th>30000 plants per acre</th>
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</thead>
<tbody>
<tr>
<td>Harvest Date</td>
<td>10/8/03</td>
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<tr>
<td>Harvest Method</td>
<td>Kincaid Plot Combine</td>
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### Experimental Design

<table>
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<th>RCB</th>
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<tr>
<td>Replications</td>
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<tr>
<td>Plot Size Seeded</td>
<td>5' x 25'</td>
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<tr>
<td>Experiment Size</td>
<td>0.1375 Acre</td>
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<tr>
<td>Harvest Plot Size</td>
<td>5' x 22'</td>
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<tr>
<td>Harvest Plant Density</td>
<td>17861 plants per acre</td>
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</table>

### Factors/Treatments

<table>
<thead>
<tr>
<th>Hybrids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mycogen 2141</td>
</tr>
<tr>
<td>NK Brand N17R3</td>
</tr>
<tr>
<td>Carhart's Blue Top</td>
</tr>
<tr>
<td>CX8500A</td>
</tr>
<tr>
<td>Jung 6210</td>
</tr>
<tr>
<td>Dekalb DKC3947</td>
</tr>
<tr>
<td>Pioneer 37R71</td>
</tr>
<tr>
<td>Pioneer 38T28</td>
</tr>
<tr>
<td>Dahlman 5102Bt</td>
</tr>
<tr>
<td>Cargill 4521B</td>
</tr>
<tr>
<td>Pioneer 35Y55</td>
</tr>
<tr>
<td>NK N58D1</td>
</tr>
<tr>
<td>Dekalb DKC5878</td>
</tr>
<tr>
<td>Jung 2710</td>
</tr>
<tr>
<td>Pioneer 33A14</td>
</tr>
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</table>

### Results: Table C-4.
Table C-4. Determining Corn Hybrid Maturity - Comparison of Hybrids
Marshfield, WI - 2003

<table>
<thead>
<tr>
<th>Hybrid</th>
<th>Relative Grain yield</th>
<th>Grain moisture</th>
<th>Test weight</th>
<th>Lodging</th>
<th>Grower return</th>
<th>Plant population</th>
<th>Sample moisture</th>
<th>Sample test weight</th>
<th>Protein</th>
<th>Oil</th>
<th>Starch moisture</th>
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<tbody>
<tr>
<td>Mycogen 2141</td>
<td>81</td>
<td>53</td>
<td>29.7</td>
<td>0</td>
<td>92</td>
<td>7656</td>
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<td>53</td>
<td>9.9</td>
<td>4.8</td>
<td>64.4</td>
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<tr>
<td>NK N17R3</td>
<td>82</td>
<td>125</td>
<td>28.5</td>
<td>0</td>
<td>219</td>
<td>17424</td>
<td>5.0</td>
<td>54</td>
<td>9.5</td>
<td>4.9</td>
<td>64.2</td>
</tr>
<tr>
<td>Carharts Blue Top CX8500A</td>
<td>85</td>
<td>157</td>
<td>27.2</td>
<td>0</td>
<td>278</td>
<td>24948</td>
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<td>54</td>
<td>8.5</td>
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<td>65.1</td>
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<tr>
<td>Jung 6210</td>
<td>87</td>
<td>137</td>
<td>33.6</td>
<td>51</td>
<td>226</td>
<td>24288</td>
<td>5.1</td>
<td>51</td>
<td>8.2</td>
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<tr>
<td>Dekalb DKC3947</td>
<td>89</td>
<td>117</td>
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<td>200</td>
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<td>Dekalb DKC4442</td>
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<td>Pioneer 37R71</td>
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<td>Pioneer 35Y55</td>
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<td>7.9</td>
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<td>68.7</td>
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<tr>
<td>NK N58D1</td>
<td>107</td>
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<td>113</td>
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<td>46</td>
<td>165</td>
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<td>46</td>
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<td>46</td>
<td>8.1</td>
<td>4.7</td>
<td>68.4</td>
</tr>
</tbody>
</table>

| Mean                        | 121                  | 36.1           | 49          | 0        | 194           | 17861            | 5.7             | 50                | 8.3    | 4.9 | 67.1           |

**Probability(%)**

| Hybrid (H)                  | 0.0                   | 0.0            | 66.9        | 0.0      | 0.0           | 16.2             | 0.0             | 0.0                | 0.9    | 0.0 | 0.1            |

**LSD(0.10)**

| Hybrid (H)                  | 19                    | 2.5            | 2           | NS       | 33            | 3805             | 1.3             | 1                  | 0.8    | 0.5 | 1.8           |

**CV(%)**

|                | 12                    | 5             | 4           | 346      | 12            | 15               | 1               | 2                  | 7      | 8   | 2            |