FIELD EXPERIMENT HISTORY

Expt. Number: Y
Year: 1996

Title: LANDEC Corn Seed Treatment Study

Personnel: J.G. Lauer, K.D. Hudelson

Location: Arlington Research Station, Arlington, WI

Supported by: Landec Corporation

FIELD INFORMATION

Field: 338
Soil Type: Plano Silt Loam

Soil Test Results: Test Date: 4/95  pH: 7.0  P (ppm): 50  K (ppm): 105  OM (%): 4.0

Fertilizer: 19-Apr 150 lbs N/a 46-0-0
24-Apr 150 lbs/a 6-24-24 starter
15-May 150 lbs/a 6-24-24 starter

Tillage Operations: None

Previous Crop: Corn

Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split Plot
Replicates: 4

Variables: A: Planting Date, B: Seed Treatment

Planting Dates: Early: 24-Apr
              Late: 15-May

Seed Treatments: DK527 Coat A
                 DK527 Coat B
                 DK527 UTC+Fung
                 Hybrid XI Coat A
                 Hybrid XI Coat A+Fung
                 Hybrid XI UTC
                 Hybrid XI UTC+Fung
                 P3373 Coat A
                 P3373 Coat B
                 P3373 UTC+Fung

Area Planted: 10' x 30'
Area Harvested: 5.0' x 22.5'
Row Spacing: 30"

Planting Equip: No-Till: JD 7000 Planter w/ 1 fluted and 2 ripple coulters

Planting Rate: 32,000 seeds/acre

Harvesting Date: 11-Nov
Harvesting Equip: Gleaner Plot Combine

Insecticide: 24-Apr Lorsban 8 oz/1000 ft planter
Herbicides: 25-Apr Roundup 4 pts/a preemerge
           3-May Lasso 2 qts/a preemerge
           3-May Bladex 90DF 2.2 lbs/a preemerge
           30-May Basagran 2 pts/a post
           3-Jul Basagran 2 pts/a post
           24-Jul Buctril 1.5 pts/a post - drop nozzles

Results: Table E-43.
<table>
<thead>
<tr>
<th>Date of Planting</th>
<th>Hybrid Seed Treatment</th>
<th>26-May (146)</th>
<th>29-May (149)</th>
<th>31-May (151)</th>
<th>3-Jun (154)</th>
<th>5-Jun (156)</th>
<th>7-Jun (158)</th>
<th>10-Jun (161)</th>
<th>12-Jun (163)</th>
<th>Extended Leaf Height</th>
<th>Mean</th>
<th>Std. Dev.</th>
<th>Size of Plants</th>
<th>Broken Moisture Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-Apr (114)</td>
<td>DK527 Coat A</td>
<td>24.2</td>
<td>44.0</td>
<td>.</td>
<td>34.3</td>
<td>68.6</td>
<td>78.1</td>
<td>.</td>
<td>90.4</td>
<td>65.3</td>
<td>5.1</td>
<td>27956</td>
<td>58.5</td>
<td>29.8 106.1</td>
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<td></td>
<td>DK527 Coat B</td>
<td>18.5</td>
<td>20.0</td>
<td>.</td>
<td>39.0</td>
<td>58.0</td>
<td>86.3</td>
<td>.</td>
<td>90.9</td>
<td>63.1</td>
<td>5.3</td>
<td>32254</td>
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<td>DK527 UTC+Fung</td>
<td>.</td>
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<td>Hybrid XI Coat A</td>
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<td>22.9</td>
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<td>67.4</td>
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<td>5.0</td>
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<td>12.9</td>
<td>12.5</td>
<td>23.2</td>
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<td>16214</td>
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<td>30.8 106.4</td>
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<td>Hybrid XI UTC+Fung</td>
<td>15.8</td>
<td>32.6</td>
<td>45.8</td>
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<td>20.7</td>
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<td>33009</td>
<td>69.0</td>
<td>31.5 112.4</td>
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</table>

**Table E-43. LANDEC Corn Seed Treatment Study**

**Date of Planting (Day of Year)**

Arlington, WI 1996

**Seed Treatment (S)**

Date of Planting (D)  
Seed Treatment (S)  
Date o
FIELD EXPERIMENT HISTORY

Expt. Number: Y
Year: 1996

Title: LANDEC Sweet Corn Seed Treatment Study

Personnel: J.G. Lauer, K.D. Hudelson

Location: Arlington Research Station, Arlington, WI

Supported by: Landec Corporation

FIELD INFORMATION

Field: 338
Soil Type: Plano Silt Loam
Soil Test Results: Test Date: 4/95 pH: 7.0 P (ppm): 50 K (ppm): 105 OM (%): 4.0
Fertilizer: 19-Apr 150 lbs N/a 46-0-0
15-May 150 lbs/a 6-24-24 starter

Tillage Operations: None

Previous Crop: Corn

Irrigation: None

EXPERIMENTAL PROCEDURE

Exp. Design: RCB
Replicates: 4

Variables: A: Seed Treatment:
- Coat B
- Coat B+Fung
- UTC
- UTC+Fung

Variety: Sweet Jubilee

Area Planted: 10' x 30'
Area Harvested: 5.0' x 25'
Row Spacing: 30"

Planting Date: 15-May
Planting Equip: No-Till: JD 7000 Planter w/ 1 fluted and 2 bubble coulters
Planting Rate: 32,000 seeds/acre

Harvesting Date: 30-Aug
Harvesting Equip:

Insecticide:
- 15-May Lorsban 8 oz/1000 ft planter

Herbicides:
- 25-Apr Roundup 4 pts/a preemerge
- 3-May Lasso 2 qts/a preemerge
- 3-May Bladex 90DF 2.2 lbs/a preemerge
- 30-May Basagran 2 pts/a post
- 3-Jul Basagran 2 pts/a post
- 24-Jul Buctril 1.5 pts/a post - drop nozzles

Results: Table E-44.
<table>
<thead>
<tr>
<th>Seed Treatment</th>
<th>Date (Day of Year)</th>
<th>Extended Leaf Height - Day 211</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31-May (151)</td>
<td>3-Jun (154)</td>
</tr>
<tr>
<td></td>
<td>% Emergence</td>
<td>inches</td>
</tr>
<tr>
<td>2 Coat B</td>
<td>5.2</td>
<td>14.1</td>
</tr>
<tr>
<td>3 Coat B+Fung</td>
<td>11.7</td>
<td>26.1</td>
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<tr>
<td>4 UTC</td>
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<td>5 UTC+Fung</td>
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<td>50.5</td>
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<tr>
<td>6 Mean</td>
<td>11.7</td>
<td>26.7</td>
</tr>
</tbody>
</table>

**Probability (%)**
- Seed Treatment (S): 0.2 < 0.1 < 0.1 < 0.1 < 0.1 28.0 > 50

**LSD (0.10)**
- Seed Treatment (S): 6.2 10.1 9.8 6.4 9.0 NS NS

**CV%**
- 41.1 30.9 24.4 12.5 17.5 11.1 41.0