FIELD EXPERIMENT HISTORY

Title: Corn Silage Response to Hail Damage
Experiment: 11 Hail Trial ID: 2346 Year: 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI County: Columbia
Supported By: National Crop Insurance Service

Site Information
Field: ARS 406 Previous Crop: Soybean Soil Type: Plano Silt Loam
Soil Test: Date: 11/01/02 pH: 6.2 OM (%): 3.3 P (ppm): 79 K (ppm): 247

Plot Management
Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer: Analysis Rate Date
Preplant 46-0-0 325 N/A
Starter 6-24-24 150 4/25/02
Post plant N/A N/A N/A
Manure N/A None
Herbicide: Harness 2.5 pt/A Hornet 3.0 oz/A
Insecticide: None
Irrigation: None
Hybrid: Pioneer 34G82
Planting Date: 04/25/02 Planting Depth: 1.5” Row Width: 30”
Target Plant Density: 32000 plants per acre Planting Method: Kinze Plot Planter
Harvest Date: 9/19/02 Harvest Method: New Holland 707 Plot Chopper
Notes: V7 treatments conducted on 6/28/02
V10 treatments conducted on 7/8/02
R1 treatments conducted on 7/29/02
R4 treatments conducted on 8/21/02

Experimental Design
Design: RCB Replications: 4
Plot Size Seeded: 25’ x 10’ Experiment Size: 0.23 A
Harvest Plot Size: 22’ x 2.5’ Harvest Plant Density: 27027 plants per acre
Factors/Treatments:

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Rate</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% @ V7</td>
<td>100% @ R1</td>
<td></td>
</tr>
<tr>
<td>50% @ V10</td>
<td>25% @ R4</td>
<td></td>
</tr>
<tr>
<td>100% @ V10</td>
<td>50% @ R4</td>
<td></td>
</tr>
<tr>
<td>25% @ R1</td>
<td>100% @ R4</td>
<td></td>
</tr>
<tr>
<td>50% @ R1</td>
<td>Untreated Check</td>
<td></td>
</tr>
</tbody>
</table>

Results: Table C-46.
### Table C-46. Corn Silage Response to Hail Damage
**Arlington, WI 2002.**

<table>
<thead>
<tr>
<th>Leaf Removal treatment</th>
<th>Dry Matter yield</th>
<th>Moisture %</th>
<th>Kernel milk</th>
<th>Plant population plants/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T/A</td>
<td>%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>100% @ V7</td>
<td>8.0</td>
<td>59.8</td>
<td>39</td>
<td>27918</td>
</tr>
<tr>
<td>50% @ V10</td>
<td>8.2</td>
<td>60.3</td>
<td>29</td>
<td>27126</td>
</tr>
<tr>
<td>100% @ V10</td>
<td>5.7</td>
<td>61.9</td>
<td>25</td>
<td>27522</td>
</tr>
<tr>
<td>25% @ R1</td>
<td>8.1</td>
<td>64.0</td>
<td>33</td>
<td>24750</td>
</tr>
<tr>
<td>50% @ R1</td>
<td>7.6</td>
<td>64.8</td>
<td>35</td>
<td>27522</td>
</tr>
<tr>
<td>100% @ R1</td>
<td>3.1</td>
<td>69.3</td>
<td>23</td>
<td>25542</td>
</tr>
<tr>
<td>25% @ R4</td>
<td>8.8</td>
<td>60.4</td>
<td>33</td>
<td>27324</td>
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<tr>
<td>50% @ R4</td>
<td>7.9</td>
<td>64.3</td>
<td>25</td>
<td>26730</td>
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<tr>
<td>100% @ R4</td>
<td>5.9</td>
<td>52.1</td>
<td>5</td>
<td>27918</td>
</tr>
<tr>
<td>Check</td>
<td>9.4</td>
<td>58.8</td>
<td>31</td>
<td>27918</td>
</tr>
</tbody>
</table>

Mean  
- 7.3  
- 61.6  
- 28  
- 27027  

**Probability (%)**  
- Treatment 0.0  
- 0.0  
- 0.0  
- 49.7  

**LSD (0.10)**  
- Treatment 0.8  
- 3.5  
- 7.0  
- NS  

**CV (%)**  
- 9  
- 5  
- 22  
- 8
FIELD EXPERIMENT HISTORY

Title: Corn Silage Response to Hail Damage
Experiment: 11Hail                    Trial ID 2370                    Year: 2002
Personnel: M.G. Bertram, J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Marshfield, WI              County: Wood
Supported By: National Crop Insurance Service

Site Information
Field: W5-02C57                             Previous Crop: Corn                           Soil Type: Loyal Silt Loam
Soil Test: Date: 10/25/00           pH 7.1          OM (%) 3.2           P (ppm) 24           K (ppm) 60

Plot Management
Tillage Operations: Chisel Plow
Field Cultivator: Chisel Plow
Cultivated: None

Fertilizer:
Preplant: N/A
Starter: 17-17-17+S+Zn 142 5/15/02
Post plant: 46-0-0 250 7/03/02
Manure: N/A

Herbicide: Harness 2.0 pt/A
Herbicide: None

Irrigation: None

Hybrid: Pioneer 37J99

Planting Date: 5/15/02
Planting Depth: 1.5"
Row Width: 30"
Target Plant Density: 33000 plants per acre
Planting Method: John Deere 7000

Harvest Date: 9/24/02
Harvest Method: Hand Harvested

Notes: V7 treatments conducted on 7/9/02
       V10 treatments conducted on 7/16/02
       R1 treatments conducted on 8/8/02
       R4 treatments conducted on 8/28/02

Experimental Design
Design: RCB
Replications: 4
Plot Size Seeded: 25' x 10'
Experiment Size: 0.25 A
Harvest Plot Size: 22' x 2.5'
Harvest Plant Density: 33125 plants per acre

Factors/Treatments:
Treatments
100% @ V7 100% @ R1
50% @ V10 25% @ R4
100% @ V10 50% @ R4
25% @ R1 100% @ R4
50% @ R1 Untreated Check

Results: Table C-47.
Table C-47.  Corn Silage Response to Hail Damage
Marshfield, WI 2002.

<table>
<thead>
<tr>
<th>Leaf Removal treatment</th>
<th>Dry Matter yield T/A</th>
<th>Moisture %</th>
<th>Plant population plants/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% @ V7</td>
<td>6.3</td>
<td>69.8</td>
<td>34151</td>
</tr>
<tr>
<td>50% @ V10</td>
<td>6.8</td>
<td>69.0</td>
<td>33106</td>
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<tr>
<td>100% @ V10</td>
<td>4.4</td>
<td>71.5</td>
<td>33454</td>
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<td>25% @ R1</td>
<td>8.4</td>
<td>68.2</td>
<td>33628</td>
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<td>50% @ R1</td>
<td>7.2</td>
<td>69.4</td>
<td>32757</td>
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<td>100% @ R1</td>
<td>2.8</td>
<td>77.9</td>
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<tr>
<td>25% @ R4</td>
<td>8.5</td>
<td>67.8</td>
<td>33106</td>
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<td>50% @ R4</td>
<td>7.5</td>
<td>69.0</td>
<td>33106</td>
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<tr>
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<td>4.9</td>
<td>66.0</td>
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<tr>
<td>Check</td>
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Mean 6.5 69.5 33123

<table>
<thead>
<tr>
<th>Probability (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
</tr>
</tbody>
</table>

LSD (0.10)

| Treatment | 0.5 1.7 NS |

CV (%) 6 5 4