Evaluation of Hornet, Distinct, Aim, and Accent Gold applied postemergence for weed management in corn, Calumet, Iowa, 1998. Owen, Micheal D.K., James F. Lux, Damian D. Franzenburg, and Kevin W. Adam. The purpose of this study was to evaluate several herbicide combinations applied postemergence for weed efficacy and corn phytotoxicity. The soil was a Galva, Primghar silty clay loam with a pH 6.0 and 5.0% organic matter. The experimental design was a randomized complete block with three replications and plots were 10 by 25 ft. The 1997 crop was soybeans. Tillage included a fall chisel plow and spring disking and field cultivation. Fertilization included 120 lb/A actual N, applied as urea. Crop residue on the soil surface was 14% at planting. “Stine hybrid 9502” corn was planted 1.5 inches deep on May 9, at 30,500 seeds/A in 30-inch rows. May rainfall included: 0.30, 0.30, 0.20, 0.42, 0.44, 0.45, 0.38, 0.39, and 0.21 inches on May 2, 5, 9, 12, 15, 22, 28, 29, and 30, respectively. Total rainfall for May was 3.37 inches. June rainfall included: 0.14, 0.32, 0.49, 0.43, 0.06, 0.01, 1.53, 1.47, 0.06, 0.14, 0.51, 0.06, and 0.20 inches on June 4, 5, 8, 11, 12, 13, 14, 15, 17, 18, 23, 24, and 29, respectively. Total rainfall for June was 5.42 inches. July rainfall included: 2.73 inches and 1.15 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 5.45 inches. Application information is listed below:

<table>
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<tr>
<th>Date</th>
<th>Treatment</th>
<th>May 9</th>
<th>May 29</th>
<th>June 10</th>
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<tr>
<td></td>
<td>psi</td>
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<tr>
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<td>11002</td>
<td>11003</td>
<td>11003</td>
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<tr>
<td>Temperature (C)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>air</td>
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<td>35</td>
<td>25</td>
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<tr>
<td></td>
<td>soil (4 inch)</td>
<td>15</td>
<td>23</td>
<td>16</td>
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<tr>
<td>Soil moisture</td>
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<td>moist/mellow</td>
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</tr>
<tr>
<td>Wind (mph)</td>
<td>6 SE</td>
<td>4-9 E</td>
<td>5-8 SE</td>
<td></td>
</tr>
<tr>
<td>Sky</td>
<td>pt. cloudy</td>
<td>clear</td>
<td>pt. cloudy</td>
<td></td>
</tr>
<tr>
<td>Relative humidity (%)</td>
<td></td>
<td>49</td>
<td>26</td>
<td>47</td>
</tr>
<tr>
<td>Corn growth</td>
<td>leaf no.</td>
<td>-</td>
<td>V2-V3</td>
<td>V5-V6</td>
</tr>
<tr>
<td></td>
<td>height (inch)</td>
<td>-</td>
<td>3-5</td>
<td>7-8</td>
</tr>
<tr>
<td>Giant foxtail</td>
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<td>-</td>
<td>1-4</td>
<td>3-4, 1-2 tillers</td>
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<td></td>
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<td>-</td>
<td>0.5-2</td>
<td>2.5-3.5</td>
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<tr>
<td></td>
<td>infestation (ft²)</td>
<td>-</td>
<td>0-5</td>
<td>15-50</td>
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<tr>
<td>Common lambsquarters</td>
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<td>-</td>
<td>cotyl-8</td>
<td>multi.</td>
</tr>
<tr>
<td></td>
<td>height (inch)</td>
<td>-</td>
<td>0.5-1</td>
<td>2-2.5</td>
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<td>0-10</td>
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<td>Velvetleaf</td>
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<td>cotyl-3</td>
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<td>height (inch)</td>
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<td>1-2</td>
<td>2-2.5</td>
</tr>
<tr>
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<td>infestation (ft²)</td>
<td>-</td>
<td>0-10</td>
<td>0-2</td>
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Serious corn injury was observed in the form of chlorosis and/or stand reduction was noted on June 16 for PRE treatments of BAS 656 07H and Frontier followed by Distinct POST and Marksman EPOST, respectively, and Dual II Magnum PRE followed by Aim plus Banvel POST. Moderate injury occurred with treatments of Dual II Magnum PRE with POST combinations of Aim with Hornet, Banvel or Atrazine. All treatments afforded excellent control of giant foxtail, velvetleaf and common lambsquarters when noted on June 30, except the POST application of Accent Gold, which provided only fair control of common lambsquarters. (Dept. of Agronomy, Iowa State University, Ames)
### DATA MEAN

**TITLE:** EVALUATION OF HORNET, DISTINCT, AIM, AND ACCENT GOLD APPLIED POSTEMERGENCE FOR WEED MANAGEMENT IN CORN

**CREATED:** 05/07/98  
**REVISED:** 11/20/98  
**COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE

**LOCATION:** CALUMET, IA  
**RESEARCHED BY:** IOWA STATE UNIVERSITY  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN

**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG  
**REPS:** 03

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<th>DOSAGE RATE</th>
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<th>ZEAMD</th>
<th>ZEAMD</th>
<th>ZEAMD</th>
<th>SETFA</th>
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<tbody>
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<td>6 FT</td>
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1. **A UNTREATED CHECK**  
   - DOSAGE RATE: 0.00  
   - VEGETABLE: NA  
   - ZEAMD: 29  
   - ZEAMD: 2  
   - ZEAMD: 0  
   - SETFA: 0  
   - ABUTH: 0

2. **AXOM 68 (DF)**  
   - DOSAGE RATE: 0.89  
   - VEGETABLE: LAA  
   - ZEAMD: 31  
   - ZEAMD: 5  
   - ZEAMD: 10  
   - SETFA: 98  
   - ABUTH: 99

3. **HORNIT DF (75WG)**  
   - DOSAGE RATE: 0.094  
   - VEGETABLE: LAA  
   - ZEAMD: 21  
   - ZEAMD: 43  
   - ZEAMD: 28  
   - SETFA: 98  
   - ABUTH: 99

4. **HORNIT 85.6 (WG)**  
   - DOSAGE RATE: 0.107  
   - VEGETABLE: LAA  
   - ZEAMD: 75  
   - ZEAMD: 2  
   - ZEAMD: 0  
   - SETFA: 0  
   - ABUTH: 0

5. **HORNIT DF (75WG)**  
   - DOSAGE RATE: 0.094  
   - VEGETABLE: LAA  
   - ZEAMD: 21  
   - ZEAMD: 43  
   - ZEAMD: 28  
   - SETFA: 98  
   - ABUTH: 99

6. **HORNIT 85.6 (WG)**  
   - DOSAGE RATE: 0.107  
   - VEGETABLE: LAA  
   - ZEAMD: 75  
   - ZEAMD: 2  
   - ZEAMD: 0  
   - SETFA: 0  
   - ABUTH: 0

7. **HORNIT 85.6 (WG)**  
   - DOSAGE RATE: 0.128  
   - VEGETABLE: LAA  
   - ZEAMD: 28  
   - ZEAMD: 0  
   - ZEAMD: 5  
   - SETFA: 99  
   - ABUTH: 98

8. **HORNIT 85.6 (WG)**  
   - DOSAGE RATE: 0.128  
   - VEGETABLE: LAA  
   - ZEAMD: 28  
   - ZEAMD: 0  
   - ZEAMD: 5  
   - SETFA: 99  
   - ABUTH: 98

9. **HORNIT 85.6 (WG)**  
   - DOSAGE RATE: 0.128  
   - VEGETABLE: LAA  
   - ZEAMD: 28  
   - ZEAMD: 0  
   - ZEAMD: 5  
   - SETFA: 99  
   - ABUTH: 98

10. **HORNIT 85.6 (WG)**  
    - DOSAGE RATE: 0.128  
    - VEGETABLE: LAA  
    - ZEAMD: 28  
    - ZEAMD: 0  
    - ZEAMD: 5  
    - SETFA: 99  
    - ABUTH: 98

11. **HORNIT 85.6 (WG)**  
    - DOSAGE RATE: 0.128  
    - VEGETABLE: LAA  
    - ZEAMD: 28  
    - ZEAMD: 0  
    - ZEAMD: 5  
    - SETFA: 99  
    - ABUTH: 98

12. **HORNIT 85.6 (WG)**  
    - DOSAGE RATE: 0.128  
    - VEGETABLE: LAA  
    - ZEAMD: 28  
    - ZEAMD: 0  
    - ZEAMD: 5  
    - SETFA: 99  
    - ABUTH: 98

13. **HORNIT 85.6 (WG)**  
    - DOSAGE RATE: 0.128  
    - VEGETABLE: LAA  
    - ZEAMD: 28  
    - ZEAMD: 0  
    - ZEAMD: 5  
    - SETFA: 99  
    - ABUTH: 98
### DATA MEAN

**TITLE:** EVALUATION OF HORNET, DISTINCT, AIM, AND ACCENT GOLD APPLIED POSTEMERGENCE FOR WEED MANAGEMENT IN CORN.

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<tr>
<th>TRT COMPOUND</th>
<th>DOSAGE RATE</th>
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<th>ZEAMD 17.5 FT TM 06/16/98</th>
<th>ZEAMD PHT % 06/16/98</th>
<th>ZEAMD PHT % 06/30/98</th>
<th>SETFA CON % 06/30/98</th>
<th>ABUTH CON % 06/30/98</th>
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<td><strong>B CROP OIL CONCENTRATE</strong></td>
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<td><strong>C 28% N</strong></td>
<td>2.00</td>
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<td><strong>15A SURPASS (6.4EC)</strong></td>
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<td><strong>D 28% N</strong></td>
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### DATA MEAN

**TITLE:** EVALUATION OF HORNET, DISTINCT, AIM, AND ACCENT GOLD APPLIED POSTEMERGENCE FOR WEED MANAGEMENT IN CORN

**REVISED:** 11/20/98  **COMPLETED:** N  **PROJECT#2:**

**LOCATION:** CALUMET, I A  **RESEARCHED BY:** I O N A S T A T E U N I V E R S I T Y

**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN

**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG  **REPS:** 03

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<th>TRT</th>
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<th>CHEAL CON %</th>
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TRIAL # US 064/98/01 001 IA : CCC 2

DATA MEAN

**TITLE:** EVALUATION OF HORNET, DISTINCT, AIM, AND ACCENT GOLD APPLIED POSTEMERGENCE FOR WEED MANAGEMENT IN CORN.

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**» = SUPPLEMENTAL CHEMICAL**

**TIMING CODES**
- 00 = UNTRCHK / UNTREATED TIMING (PP)
- 01 = PREPRE / PRE
- 02 = EAPCOR / EPOST
- 03 = POSPOS / POST

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**STAGE CODE**
- 17 = 7 LEAVES UNFOLDED
- 18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
- 23 = 3 TILLERS DETECTABLE
- 25 = 5 TILLERS DETECTABLE
- 55 = MIDDLE OF TASSLE EMERGENCE: MIDDLE OF TASSLE BEGINS TO SEPARATE