Evaluation of Basis Gold, Accent Gold, Lightning, and Liberty for woolly cupgrass control in Liberty Link/IT corn, Lewis, 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 applied postemergence for woolly cupgrass efficacy and crop phytotoxicity in a glufosinate and imidazolinone “stacked” resistant hybrid corn. The soil was a Marshall, Exira, silty clay loam with a pH 6.5 and 3.5% 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 spring two pass tandem disking. Fertilization included 140 lb/A actual N, applied as anhydrous ammonia. Crop residue on the soil surface was 19% at planting. “Garst hybrid 8540 LLIT” corn was planted 1.5 inches deep on May 5, at 28,000 seeds/A in 30-inch rows. May rainfall included: 0.07, 0.40, 0.15, 1.06, 0.81, 0.05, 0.83, 0.17, 0.01, 0.73, and 0.67 inches on May 2, 6, 11, 15, 20, 21, 22, 23, 24, 25, and 29, respectively. Total rainfall for May was 4.95 inches. June rainfall included: 0.05, 0.76, 0.03, 0.04, 2.01, 0.01, 0.06, 0.55, 0.36, 7.29, 0.41, 0.01, 0.15, 0.01, and 0.05 inches on June 1, 3, 4, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 23, and 25, respectively. Total rainfall for June was 11.79 inches. July rainfall included: 3.51 inches and 2.35 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 3.16 inches. Application information is listed below:

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There were no differences in corn stand attributable to herbicide treatment. Slight injury was observed among most treatments on June 17. However, by July 17, injury was no longer apparent. All treatments afforded good to excellent control of woolly cupgrass and velvetleaf when observed on June 17. Acceptable control of woolly cupgrass was noted on July 17 for treatments including Balance PRE, Surpass PRE plus Lightning EPOST, and Accent EPOST plus Clarity LPOST. The remaining treatments demonstrated unacceptable control. Velvetleaf control on July 17 was good to excellent for all treatments with the exception of Surpass PRE plus Clarity POST. (Dept. of Agronomy, Iowa State University, Ames)
## DATA MEAN

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**LSD (0.05)** | 3.43 | 3.94 | 4.00 | 3.75 | 0.00

**STANDARD DEVIATION** | 1.70 | 1.95 | 2.00 | 1.85 | 0.00
**TRIAL # US 068/98/01 001 IA : LCS 1**

**DATA MEAN**

**TITLE:** EVALUATION OF BASIS GOLD, ACCENT GOLD, LIGHTNING, AND LIBERTY FOR WOOLLY CUPGRASS CONTROL IN LIBERTY LINK/IT CORN.

**CREATED:** 04/13/98  **REVISED:** 11/20/98  **COMPLETED:** N

**PROJECT TYPE:** HERBICIDE  **PROJECT#1:**

**LOCATION:** LEWIS, IA  **RESEARCHED BY:**

**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  **PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG  **REPS:** 03

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<th>TRT COMPOUND</th>
<th>DOSAGE RATE</th>
<th>UNIT</th>
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<th>ABUTH CON % 07/17/98</th>
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**TRIAL # US 068/98/01 001 IA : LCS 1**

**DATA MEAN**

**TITLE:** EVALUATION OF BASIS GOLD, ACCENT GOLD, LIGHTNING, AND LIBERTY FOR WOOLLY CUPGRASS CONTROL IN LIBERTY LINK/IT CORN.

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LSD (0.05) 7.51 13.24

STANDARD DEVIATION 3.72 6.55

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**TIMING CODES**

00 = UNTRKH / UNTREATED TIMING
01 = PP/KR / PRE
02 = EAP/FEND / EPOST
03 = POSS/POS / POST
04 = POSS/POS / LPOST

---

**STAGE CODE**

12 = 2 LEAVES UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
15 = 5 LEAVES UNFOLDED
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
24 = 4 TILLERS DETECTABLE
28 = 8 TILLERS DETECTABLE
53 = TIP OF TASSEL VISIBLE