

FIELD EXPERIMENT HISTORY

Title: Corn Silage Response to Hail Damage
Experiment: 11Hail **Trial ID** 1546 **Year:** 2000
Personnel: J.G. Lauer, P. J. Flannery, K. D. Kohn, and M.D. Kral
Location: Arlington, WI **County:** Columbia
Supported By: National Crop Insurance Service

Site Information

Field: 427 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/1 /00 **pH** 6.5 **OM (%)** 3.4 **P (ppm)** 43 **K (ppm)** 115

Plot Management

Tillage Operations: Chisel Plow Field Cultivator 1 Cultivation
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150 A	4 /18/00
Starter	6-24-24	150	4 /25/00
Post plant	N/A	N/A	N/A
Manure:	N/A	None	

Herbicide: Harness @ 1.5 pt/A
Hornet @ 2.4 oz/A
Banvel @ 2.0 oz/A **Insecticide:** None
Irrigation: None **Hybrid:** Pioneer 34G82
Planting Date: 4/25/00 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/19/00 **Harvest Method:** New Holland 707 Plot Chopper
Notes: V7 treatments conducted on 6/20/00
V10 treatments conducted on 7/3/00
R1 treatments conducted on 7/25/00
R4 treatments conducted on 8/22/00

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25 'x 10' **Experiment Size:** 0.23 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31259 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 E-25.

**Table E-25. Corn Silage Response to Hail Damage
Arlington, WI 2000.**

Leaf Removal treatment	Dry Matter		Kernel	Plant
	Yield	Moisture	Milk	Population
	T/A	%	%	plants/A
100% @ V7	8.2	64.0	40	32359
50% @ V10	8.5	63.8	46	29662
100% @ V10	7.0	63.1	49	30492
25% @ R1	7.3	68.8	44	30699
50% @ R1	7.4	65.7	39	30907
100% @ R1	2.8	69.9	20	32151
25% @ R4	8.8	64.5	48	30907
50% @ R4	8.1	65.3	36	32566
100% @ R4	5.1	53.3	38	31322
Check	8.9	63.1	48	31529
Mean	7.2	64.1	41	31259
<u>Probability (%)</u>				
Treatment	0.0	0.0	0.0	36.2
<u>LSD (0.10)</u>				
Treatment	1.4	4.4	15.2	NS
<u>CV (%)</u>				
	15	5	31	5