

## FIELD EXPERIMENT HISTORY

**Title:** Corn Silage Response to Hail Damage  
**Experiment:** 11 Hail **Trial ID:** 1558 **Year:** 2001  
**Personnel:** J.G. Lauer, P. J. Flannery, and K. D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** National Crop Insurance Service

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### Site Information

**Field:** 408 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 20/01/ **pH** 6.8 **OM (%)** 2.6 **P (ppm)** 78 **K (ppm)** 202

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivation on 6/14/01

<b>Fertilizer:</b>		<b>Analysis</b>	<b>Rate</b>	<b>Date</b>
	<b>Preplant</b>	46-0-0	150 A	4 /18/01
	<b>Starter</b>	6-24-24	150	4 /28/01
	<b>Post plant</b>	N/A	N/A	N/A
	<b>Manure:</b>	N/A	None	

**Herbicide:** Harness @ 2.5 pt/A **Insecticide:** None  
Permit @ .66 oz/A

**Irrigation:** None **Hybrid:** Pioneer 34G82

**Planting Date:** 4/28/01 **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter

**Harvest Date:** 9/18/01 **Harvest Method:** New Holland 707 Plot Chopper

**Notes:** V7 treatments conducted on 6/18/01  
V10 treatments conducted on 7/3/01  
R1 treatments conducted on 7/23/01  
R4 treatments conducted on 8/20/01

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### 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:** 34371 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

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**Results: Table C-48.**

**Table C-48. Corn Silage Response to Hail Damage  
Arlington, WI 2001.**

Leaf Removal treatment	Dry Matter		Kernel milk	Plant population
	yield	Moisture		
	T/A	%	%	plants/A
100% @ V7	8.8	64.0	23	35263
50% @ V10	9.9	64.5	24	34226
100% @ V10	6.3	68.1	21	34641
25% @ R1	10.7	64.7	19	33396
50% @ R1	9.3	66.8	19	34226
100% @ R1	2.9	59.6	6	33603
25% @ R4	10.6	65.0	14	33603
50% @ R4	10.6	62.0	21	35263
100% @ R4	6.2	43.7	16	34433
Check	11.2	63.7	21	35055
Mean	8.7	62.2	18	34371
<b><u>Probability (%)</u></b>				
Treatment	0.0	0.0	65.1	49.4
<b><u>LSD (0.10)</u></b>				
Treatment	0.8	2.8	NS	NS
<b><u>CV (%)</u></b>				
	8	4	65	4