

FIELD EXPERIMENT HISTORY

Title: Progress of Whole Plant Drydown on Corn Silage.
Experiment: 15 Silage Dry-Down **Trial ID:** 2931 **Year:** 2006
Personnel: J. G. Lauer, K.D. Kohn, P.J. Flannery
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS369 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/1 /06 **pH** 7.2 **OM (%)** 3.2 **P (ppm)** 151 **K (ppm)** 327

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher 6/14/06
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** 4 /22/06
Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5 /22/06
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Outlook 20.0 oz/A **Insecticide:** Force 3G @ 4.4 lbs/A
Hornet 4.0 oz/A **Hybrid:** NK Brand N58-D1
Irrigation: None
Planting Date: 5/22/06 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: See Factors **Harvest Method:** Hand Harvest
Notes: Method of Application: CO2 Backpack sprayer, 10' boom, 15" spacing, TeeJet
 8002VS nozzles, 30 lb pressure, 3.5 mph, 19.6 gal H2O/Acre.

Experimental Design

Design: Random **Replications:** 3
Plot Size Seeded: 1.5 Acres **Experiment Size:** 0.5 Acres
Harvest Plot Size: 2.5' x 2' **Harvest Plant Density:** 30000 plants per acre

Factors/Treatments:

Harvest Dates:

Aug. 25, Sept. 5, Sept. 8, Sept. 14,
Sept. 18, Sept. 21, Sept. 25, Sept. 28, and Oct. 3

Fungicide Treatment:

Untreated Check
Headline @ 6.0 g a. i./A; NIS @ 0.125 g/A @VT on7/24/06

Results: Table C-66.

**Table C-66. Silage Dry-Down
Arlington, WI - 2006.**

Treatment	Day of year	Sample Date	Stover		Grain				Whole Plant			
			SMR	Moisture	KMR	VMR	Kernel milk	Moisture	KMR	VMR	Kernel milk	Moisture
			0-5	%	0-5	0-10	%	%	0-5	0-10	%	%
	241	August 29	4.5	79.2	5.0	9.5	100.0	57.7	5.0	9.5	100.0	71.1
	248	September 5	3.2	79.9	4.6	7.8	91.7	51.4	4.6	7.8	91.7	69.9
	251	September 8	3.1	79.4	3.9	6.9	77.5	48.7	4.0	7.1	80.8	69.5
	257	September 14	3.1	79.9	3.5	6.6	70.0	48.2	3.6	6.7	72.5	68.7
	261	September 18	3.0	78.9	3.2	6.2	63.3	44.2	3.2	6.2	63.3	67.1
	264	September 21	2.2	79.6	2.6	4.8	52.5	43.2	2.6	4.8	51.7	63.8
	268	September 25	2.4	82.5	2.4	4.8	47.5	41.8	2.1	4.5	42.5	66.0
	271	September 28	1.8	73.7	1.7	3.5	33.8	37.8	1.7	3.5	34.2	64.9
	276	October 3	1.0	75.0	1.3	2.3	25.8	38.5	1.4	2.4	27.5	62.8
Headline			2.8	78.2	3.1	5.9	62.4	45.4	3.1	5.9	62.2	67.7
Untreated			2.6	79.1	3.1	5.7	62.5	46.0	3.2	5.8	63.1	66.5
Headline	241	August 29	4.5	79.0	5.0	9.5	100.0	56.5	5.0	9.5	100.0	70.6
Headline	248	September 5	3.2	79.8	4.6	7.8	91.7	50.4	4.7	7.9	93.3	71.3
Headline	251	September 8	3.2	79.8	3.9	7.1	78.3	48.1	3.9	7.1	78.3	69.5
Headline	257	September 14	3.2	79.4	3.8	7.0	75.0	48.7	3.4	6.6	68.3	67.7
Headline	261	September 18	3.2	78.9	3.1	6.3	61.7	44.6	3.2	6.4	63.3	66.9
Headline	264	September 21	2.4	80.3	2.6	5.0	51.7	42.9	2.6	5.0	51.7	64.2
Headline	268	September 25	2.4	77.7	2.3	4.7	45.0	41.5	2.1	4.5	41.7	66.9
Headline	271	September 28	1.8	74.6	1.6	3.4	31.7	36.8	1.7	3.5	33.3	71.4
Headline	276	October 3	1.0	74.4	1.3	2.3	26.7	39.3	1.5	2.5	30.0	61.3
Untreated	241	August 29	4.5	79.4	5.0	9.5	100.0	58.8	5.0	9.5	100.0	71.7
Untreated	248	September 5	3.2	80.0	4.6	7.8	91.7	52.5	4.5	7.7	90.0	68.6
Untreated	251	September 8	2.9	79.0	3.8	6.8	76.7	49.3	4.2	7.1	83.3	69.6
Untreated	257	September 14	2.9	80.3	3.3	6.2	65.0	47.8	3.8	6.8	76.7	69.8
Untreated	261	September 18	2.8	79.0	3.3	6.1	65.0	43.9	3.2	6.0	63.3	67.4
Untreated	264	September 21	2.0	78.9	2.7	4.7	53.3	43.6	2.6	4.6	51.7	63.5
Untreated	268	September 25	2.4	87.2	2.5	4.9	50.0	42.1	2.2	4.6	43.3	65.0
Untreated	271	September 28	1.8	72.8	1.8	3.6	36.0	38.8	1.8	3.6	35.0	58.3
Untreated	276	October 3	1.0	75.5	1.3	2.3	25.0	37.7	1.3	2.3	25.0	64.3
Mean			2.7	78.7	3.1	5.8	62.5	45.7	3.1	5.8	62.7	67.1
Probability(%)												
Treatment (T)			0.0	38.9	88.1	0.6	88.1	24.7	24.8	8.8	24.8	46.5
Sample Date (S)			0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
T x S			0.3	37.2	0.1	0.1	0.1	61.5	1.5	20.9	1.5	57.1
LSD (0.10)												
Treatment (T)			0.1	NS	NS	0.1	NS	NS	NS	0.1	NS	NS
Sample Date (S)			0.1	3.8	0.1	0.2	2.6	1.9	0.1	0.2	2.8	NS
T x S			0.2	NS	0.2	0.2	3.7	NS	0.2	NS	4.0	NS
CV(%)												
			4	2	4	3	4	4	5	4	5	10