

FIELD EXPERIMENT HISTORY

Title: Effect of Cutting Height on Corn Forage
Experiment: 15Harvest **Trial ID** 1619 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By:

Site Information

Field: 408 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 11/19/01 **pH** 6.4 **OM (%)** 2.8 **P (ppm)** 64 **K (ppm)** 158

Plot Management

Tillage Operations: Chisel Plow Soil Finisher 2x 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	4 /18/01
Starter :	6-24-24	150	5 /20/01
Post plant :	N/A	N/A	N/A
Manure:		None	N/A

Herbicide: Harness 2.5 oz/A
Permit 0.66 oz/A **Insecticide:** None
Hybrid:

Irrigation: None

Planting Date: 05/20/01 **Planting Depth:** 1 1/2 **Row Width:** 30"

Target Plant Density: **Planting Method:** Kinze Plot Planter

Harvest Date: 10/8/01 **Harvest Method:** New Holland 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.13 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31701 plants per acre

Factors/Treatments:

<u>Hybrid:</u>	<u>Cutting Height:</u>
Cargill F657	24"
NK48-V8	6"
Pioneer 35R57	

Results: Table C-47.

**Table C-47. Effect of Cutting Height on Corn Forage.
Arlington, WI - 2001**

Treatment	Hybrid	Harvest Population plants/A	Yield T/A	Moist %	Kernel							Milk per	
					Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton lb/T	Acre lb/A
	Cargill F657	31736	6.6	69.6	55.0	8.7	25.3	51.2	74.1	49.4	22.7	3005	19699
	NK48-V8	31943	7.7	61.4	53.8	8.2	29.6	56.7	67.5	42.6	14.6	2374	18416
	Pioneer 35R57	31425	8.9	54.1	32.5	7.4	22.2	45.7	73.6	42.2	35.3	2710	24069
24" Cut		32082	7.2	60.7	47.1	8.2	25.4	50.8	72.1	45.1	23.3	2713	19437
6" Cut		31321	8.2	62.7	47.1	8.0	26.0	51.6	71.3	44.3	25.1	2680	22019
24" Cut	Cargill F657	32358	6.3	68.4	55.0	8.8	24.6	50.3	75.1	50.4	22.0	3081	19256
24" Cut	NK48-V8	31943	6.7	61.2	53.8	8.3	29.9	57.4	67.3	43.0	12.8	2351	15850
24" Cut	Pioneer 35R57	31943	8.6	52.4	32.5	7.5	21.7	44.9	74.0	41.9	35.2	2708	23206
6" Cut	Cargill F657	31114	6.9	70.8	55.0	8.7	26.1	52.2	73.1	48.3	23.4	2930	20142
6" Cut	NK48-V8	31943	8.7	61.6	53.8	8.2	29.2	56.0	67.6	42.1	16.5	2398	20982
6" Cut	Pioneer 35R57	30906	9.2	55.8	32.5	7.2	22.8	46.5	73.2	42.5	35.3	2713	24932
Mean		31701	7.7	61.7	47.1	8.1	25.7	51.2	71.7	44.7	24.2	2697	20728
Probability (%)													
Hybrid (H)		93.0	1.6	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
Treatment (T)		51.3	7.2	8.7		7.7	50.5	35.4	26.2	3.6	42.7	61.2	14.1
H x T		88.9	50.6	53.8		39.0	57.2	53.4	42.4	3.3	77.9	43.0	54.1
LSD (0.10)													
Hybrid (H)		NS	0.8	3.9		0.2	2.1	3.6	1.9	1.1	5.5	82	2695
Treatment (T)		NS	0.9	2.0		0.1	NS	NS	NS	0.6	NS	NS	NS
H x T		NS	NS	NS		NS	NS	NS	NS	1.1	NS	NS	NS
CV (%)													
		9	16	4		2	8	6	2	2	21	6	19