

FIELD EXPERIMENT HISTORY

Title: Effect of Cutting Height on Corn Forage
Experiment: 11 Cutting Hght **Trial ID** 2345 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By:

Site Information

Field: 406 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 11/01/02 **pH** 6.2 **OM (%)** 3.3 **P (ppm)** 79 **K (ppm)** 247

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	N/A
Starter :	6-24-24	150	4 /25/02
Post plant :	N/A	N/A	N/A
Manure:	N/A	None	N/A

Herbicide: Harness 2.5 pt/A Insecticide: None
Hornet 3.0 oz/A Hybrid:

Irrigation: None

Planting Date: 4/25/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/25/02 **Harvest Method:** New Holland 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10" **Experiment Size:** 0.14 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 27588 plants per acre

Factors/Treatments:

<u>Hybrid</u>	<u>Cutting Height</u>
Cargill F657	6"
NK N48V8	24"
Pioneer 35R57	

Results: Table C-45.

**Table C-45. Effect of Cutting Height on Corn Forage.
Arlington, WI - 2002**

Treatment	Hybrid	Harvest Population plants/A	Yield T/A	Moist %	Kernel							Milk per	
					Milk %	CP %	ADF %	NDF %	IVD %	NDFD %	Starch %	Ton lb/T	Acre lb/A
	Cargill F657	27324	6.2	59.5	38.8	7.9	21.8	45.4	87.1	71.6	35.0	3850	23804
	NK N48V8	26631	9.5	50.4	26.3	7.0	23.2	47.1	84.2	66.4	33.4	3455	32683
	Pioneer 35R57	28809	8.4	49.9	28.1	7.1	22.2	45.4	84.9	66.9	35.4	3492	29265
06 inch		28248	8.8	55.1	30.4	7.2	24.4	49.0	84.1	67.5	32.3	3531	30887
24 inch		26928	7.2	51.4	31.7	7.4	20.3	42.9	86.7	69.1	36.9	3667	26280
06 inch	Cargill F657	28512	7.0	60.5	38.8	7.7	24.0	48.7	85.9	71.1	33.3	3797	26702
06 inch	NK N48V8	26532	10.1	52.3	23.8	7.0	24.7	49.4	83.2	66.0	31.2	3411	34253
06 inch	Pioneer 35R57	29700	9.4	52.5	28.8	7.0	24.6	48.9	83.1	65.5	32.4	3385	31706
24 inch	Cargill F657	26136	5.4	58.5	38.8	8.0	19.6	42.0	88.3	72.1	36.6	3903	20905
24 inch	NK N48V8	26730	8.9	48.4	28.8	7.0	21.6	44.7	85.2	66.8	35.6	3500	31112
24 inch	Pioneer 35R57	27918	7.4	47.4	27.5	7.3	19.7	42.0	86.7	68.3	38.4	3598	26823
Mean		27588	8.0	53.3	31.0	7.3	22.4	46.0	85.4	68.3	34.6	3599	28584
Probability (%)													
	Hybrid (H)	26.8	0.0	0.0	0.0	0.2	12.4	20.5	0.0	0.0	46.6	0.0	0.0
	Treatment (T)	59.7	0.0	1.1	44.9	19.3	0.0	0.0	0.0	3.2	0.7	0.2	0.3
	H x T	58.9	62.4	57.3	28.1	61.6	39.2	51.2	26.3	39.1	71.3	28.9	64.5
LSD (0.10)													
	Hybrid (H)	NS	0.7	2.5	8.2	0.4	NS	NS	0.9	0.7	NS	62	2644
	Treatment (T)	NS	0.6	2.1	NS	NS	0.9	1.5	0.7	1.1	2.4	60	2104
	H x T	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)													
		9	10	5	12	5	6	4	1	2	9	2	10