

FIELD EXPERIMENT HISTORY

Title: Brown Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2997 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Brown Seed

Site Information

Field: ARS408 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.0 **OM (%)** 3.3 **P (ppm)** 43 **K (ppm)** 137

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Soil Finisher Cultivate

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150	N/A
Starter	9-23-30	150	4 /30/07
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Harness 29 oz/A
 Callisto 3.0 oz/A

Insecticide: Force 3G 4.4 lb/A

Irrigation: None

Planting Date: 4/30/07 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/5/07 **Harvest Method:** New Holland 707 Plot Chopper

Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded 25' x 5' **Experiment Size:** 0.24

Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31720 plants per acre

Factors/Treatments:

Hybrid

66-62NP

71-45

76-54NPRR

83-26

Results: Table C-20.

**Table C-20. Brown Hybrid Corn Silage Evaluation Study.
Arlington, WI 2007.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
Brown 66-62NP	8.1	68.0	7.5	30.9	56.1	73.7	53.1	14.7	2544	20737
Brown 71-45	8.8	72.8	7.0	30.7	56.0	74.6	54.6	14.3	2597	22757
Brown 76-54NPRR	7.7	67.2	7.4	31.2	55.6	73.9	53.1	23.7	2692	20766
Brown 83-26	10.3	64.7	7.7	27.4	50.7	76.9	54.3	26.3	2904	29896
Mean	8.7	68.2	7.4	30.0	54.6	74.8	53.8	19.7	2684	23539
<u>Probability (%)</u>										
Hybrid	10.7	2.8	60.1	9.3	21.2	9.3	82.6	3.3	5.8	4.4
<u>LSD (0.10)</u>										
Hybrid	NS	3.7	NS	2.6	NS	3.4	NS	7.1	207	5309
<u>CV (%)</u>										
	13	3	8	6	6	2	5	23	5	14

FIELD EXPERIMENT HISTORY

Title: Brown Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2998 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Lancaster, WI **County:** Grant
Supported By: Brown Seed

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.0 **OM (%)** 2.0 **P (ppm)** 20 **K (ppm)** 75

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	160	N/A
Starter	9-23-30	150	5 /3 /07
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Dual II 2.0 pt/A **Insecticide:** Force 3G 4.4 lb/A
 Accent 0.67 oz/A
 Callisto 6.0 oz/A
 Aatrex 4L 0.7 qt./A

Irrigation: None

Planting Date: 05/06/06 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/4/07 **Harvest Method:** New Holland 707 Plot Chopper
Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded 25' x 5' **Experiment Size:** 0.24
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 30806 plants per acre
Factors/Treatments:

<u>Hybrid</u>
66-62NP
71-45
76-54NPRR
83-26

Results: Table C-21.

**Table C-21. Brown Hybrid Corn Silage Evaluation Study.
Lancaster, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
Brown 66-62NP	6.7	57.7	6.5	29.2	52.4	74.7	51.7	25.7	2755	18493
Brown 71-45	7.6	67.8	5.9	28.3	51.4	76.2	53.7	24.5	2849	21737
Brown 76-54NPRR	7.8	61.5	5.8	28.8	52.2	74.3	50.7	26.8	2736	21211
Brown 83-26	10.4	58.1	6.2	25.3	46.9	78.0	53.0	32.0	2994	31219
Mean	8.1	61.3	6.1	27.9	50.7	75.8	52.3	27.3	2833	23165
<u>Probability (%)</u>										
Hybrid	0.1	1.1	57.6	6.5	9.4	2.4	3.8	11.6	3.5	0.1
<u>LSD (0.10)</u>										
Hybrid	0.9	4.2	NS	2.4	3.8	1.8	1.6	NS	136	3010
<u>CV (%)</u>										
	7	4	10	5	5	1	2	12	3	8