

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID:** 2843 **Year:** 2006  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** BASF Plant Science

### Site Information

**Field:** 413 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 11/01/06 **pH** 7.1 **OM (%)** 3.6 **P (ppm)** 37 **K (ppm)** 115

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Soil Finisher Cultivate

<b>Fertilizer:</b>	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	325	N/A
Starter	9-23-30	150	4 /27/06
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

**Herbicide:** Hornet 4.0 oz/A  
 Outlook 20 oz/A  
 Callisto 3.0 oz/A

**Insecticide:** Force 3G 4.4 lb/A

**Irrigation:** None

**Planting Date:** 04/27/06 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9-14-60 **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:** 0.19

**Harvest Plot Size:** 22' x 2.5'

**Harvest Plant Density:** 30690 plants per acre

**Factors/Treatments:**

<u>Hybrid</u>				
156 819	554 729	806 148	827 268	866 221
299 565	554 730	806 171	827 278	866 222
299 582	771 326	807 329	832 707	
554 709	780 937	827 074	864 973	
554 723	780 943	827 121	866 220	

**Results:** Table C-25.

**Table C-25. BASF Hybrid Corn Silage Evaluation Study.  
Arlington, WI 2006.**

Genotype	Dry Matter		Root	Stalk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per	
	Yield	Moisture	Lodging	Lodging							Ton	Acre
	T/A	%	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156 819	9.0	62.6	13	0	7.1	22.3	43.1	80.2	54.1	35.9	3168	28418
299 565	8.9	60.4	3	0	6.9	23.8	45.2	78.7	52.9	33.9	3063	27111
299 582	9.8	65.5	35	0	7.8	22.8	43.7	78.1	49.8	35.0	3043	29951
554 709	9.7	66.1	3	0	7.7	22.5	43.8	80.0	54.2	34.7	3148	30642
554 723	8.8	60.8	5	0	8.0	25.3	49.9	76.3	52.5	29.7	2881	24737
554 729	8.6	65.6	7	0	7.1	24.4	46.8	79.4	56.0	32.0	3084	26494
554 730	9.6	68.7	0	3	7.7	26.3	49.3	76.3	52.0	27.2	2889	27756
771 326	9.6	67.7	17	0	7.4	24.3	47.0	78.4	54.0	28.2	3027	29182
780 937	10.2	69.3	7	0	8.2	25.1	47.6	77.5	52.6	28.7	2965	30098
780 943	8.3	65.9	40	0	8.2	26.0	51.2	77.2	55.4	21.1	2911	24173
806 148	8.9	68.8	20	0	7.7	25.0	47.7	78.1	54.2	30.1	3005	26869
806 171	8.1	61.1	13	0	8.3	22.3	44.3	79.0	52.7	35.3	3085	25058
807 329	9.1	62.9	8	0	7.8	23.0	44.6	78.9	52.6	33.9	3077	27937
827 074	8.2	56.3	7	0	7.4	21.7	43.1	78.8	50.7	37.8	3087	25578
827 121	9.7	64.9	10	0	7.3	21.6	42.0	80.0	52.5	36.6	3169	30793
827 268	10.2	65.0	0	0	7.5	23.0	44.3	79.2	53.0	33.3	3098	31536
827 278	8.6	68.0	17	0	7.7	25.2	47.6	77.6	52.9	30.0	2975	25501
832 707	10.0	66.9	0	0	7.8	23.9	45.8	78.9	53.9	30.1	3065	30575
864 973	9.0	65.6	30	0	8.1	24.0	46.7	77.7	52.3	27.6	2991	27015
866 220	6.4	65.9	8	0	8.5	22.5	46.7	81.1	59.5	29.7	3172	20348
866 221	6.0	72.1	68	0	8.7	24.4	49.4	80.9	61.2	24.8	3125	20086
866 222	9.9	62.7	10	0	7.5	23.4	45.9	78.9	53.8	32.0	3063	30354
Mean	8.9	65.1	15	0	7.7	23.7	46.1	78.7	53.7	31.4	3051	27435
<b>Probability (%)</b>												
Genotype	0.0	0.0	0.0	48.3	0.0	28.3	20.7	4.6	0.0	0.7	15.6	0.5
<b>LSD (0.10)</b>												
Genotype	1.2	3.1	17	NS	0.5	NS	NS	2.1	2.0	6.1	NS	4475
<b>CV (%)</b>												
	10	3	83	812	4	9	8	2	3	14	4	12

## FIELD EXPERIMENT HISTORY

**Title:** **BASF Hybrid Corn Silage Trial**  
**Experiment:** Private Silage Evaluation **Trial ID:** 2844 **Year:** 2006  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Lancaster, WI **County:** Grant  
**Supported By:** BASF Plant Science

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Fayette Silt Loam  
**Soil Test:** **Date:** N/A **pH** 7.5 **OM (%)** 2.9 **P (ppm)** 75 **K (ppm)** 104

### Plot Management

**Tillage Operations:** Field Cultivator Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	160	N/A
<b>Starter</b>	9-23-30	150	5 /6 /06
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>		N/A	N/A

**Herbicide:** Harness 1.0 qt/A  
 Atrazine XL 1.0 qt/A  
 Glyphosate 1.0 qt/A

**Insecticide:** None

**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:** 9-7-06 **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:** 0.19  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30888 plants per acre

### Factors/Treatments:

#### Hybrid

156 819	554 729	806 148	827 268	866 221
299 565	554 730	806 171	827 278	866 222
299 582	771 326	807 329	832 707	
554 709	780 937	827 074	864 973	
554 723	780 943	827 121	866 220	

**Results:** Table C-26.

**Table C-26. BASF Hybrid Corn Silage Evaluation Study.  
Lancaster, WI 2006.**

Genotype	Dry Matter		Root	Stalk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per	
	Yield	Moisture	Lodging	Lodging							Ton	Acre
	T/A	%	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156 819	9.2	65.8	0	0	6.9	23.3	44.5	79.8	54.7	33.5	3124	28778
299 565	10.4	62.9	0	0	6.5	21.7	41.5	80.5	53.0	36.2	3195	33387
299 582	9.6	68.5	0	0	7.0	24.3	45.5	76.8	49.1	32.9	2949	28420
554 709	9.1	68.1	0	0	6.9	23.9	44.5	78.4	51.5	33.6	3045	27705
554 723	8.0	64.1	0	0	7.6	21.6	43.1	79.8	53.1	34.7	3133	25186
554 729	9.4	66.2	0	0	6.8	22.9	43.7	79.8	53.9	34.2	3133	29616
554 730	9.4	69.7	0	0	6.8	25.0	46.9	76.7	50.4	30.1	2927	27629
771 326	9.4	70.8	0	0	7.3	26.4	48.2	76.3	50.8	28.0	2890	27153
780 937	8.8	69.0	0	0	7.0	25.8	48.0	76.9	51.9	28.6	2926	25817
780 943	9.8	66.7	8	0	6.7	29.3	53.8	74.7	53.0	19.6	2712	26668
806 148	9.8	69.3	0	0	7.3	23.2	44.3	78.4	51.2	32.7	3046	29903
806 171	8.4	61.2	0	0	7.6	22.1	43.5	79.4	52.7	35.1	3111	26111
807 329	9.0	64.7	0	0	6.9	23.0	44.2	78.4	51.2	33.9	3051	27483
827 074	8.9	59.5	0	0	6.6	21.8	42.9	79.2	51.6	36.6	3111	27568
827 121	8.7	69.3	0	0	7.0	25.8	48.1	76.8	51.9	30.2	2922	25521
827 268	9.3	69.0	0	0	7.4	25.7	47.9	77.0	52.0	29.6	2929	27419
827 278	8.8	68.9	0	0	6.9	26.6	48.4	76.4	51.2	29.6	2895	25454
832 707	9.8	68.8	0	0	7.1	24.6	46.0	78.0	52.2	28.5	3006	29378
864 973	9.5	66.9	0	0	6.6	24.6	46.3	77.8	52.0	32.1	2997	28591
866 220	7.7	67.3	0	0	7.3	22.0	44.0	82.5	60.2	32.8	3274	25741
866 221	7.6	70.4	13	0	7.2	23.2	45.6	82.3	61.2	30.6	3244	24614
866 222	9.1	66.5	3	0	6.8	26.0	48.7	76.7	52.0	29.0	2907	26551
Mean	9.1	67.0	1	0	7.0	24.2	45.9	78.3	52.8	31.5	3024	27513
<b>Probability (%)</b>												
Genotype	0.5	0.0	56.5	-	16.9	0.5	0.8	0.0	0.0	0.0	0.0	9.4
<b>LSD (0.10)</b>												
Genotype	1.0	2.1	NS	-	NS	2.9	4.2	2.2	1.8	4.2	162	3729
<b>CV (%)</b>												
	8	2	525	-	6	9	7	2	2	10	4	10

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID:** 2845 **Year:** 2006  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Fond du Lac, WI **County:** Fond du Lac  
**Supported By:** BASF Plant Science

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 11/01/06 **pH** 7.1 **OM (%)** 5.5 **P (ppm)** 14 **K (ppm)** 113

### Plot Management

**Tillage Operations:** No Till Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	9-23-30	150	5 /8 /06
<b>Post plant</b>	28-0-0	120	N/A
<b>Manure:</b>		N/A	N/A

**Herbicide:** Basis 0.33 oz/A **Insecticide:** None  
 Cinch 0.8 oz/A  
 Glyphosate 1.5 pt/A  
 Steadfast 0.5 oz/A  
 Callisto 1.5 oz/A  
 Atrazine 0.66 oz/A

**Irrigation:** None

**Planting Date:** 05/08/06 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9-16-06 **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:** 0.19  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 25019 plants per acre  
**Factors/Treatments:**

<u>Hybrid</u>				
156 819	554 729	806 148	827 268	866 221
299 565	554 730	806 171	827 278	866 222
299 582	771 326	807 329	832 707	
554 709	780 937	827 074	864 973	
554 723	780 943	827 121	866 220	

**Results: Table C-27.**

**Table C-27. BASF Hybrid Corn Silage Evaluation Study.  
Fond du Lac, WI 2006.**

Genotype	Dry Matter		Root	Stalk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per	
	Yield	Moisture	Lodging	Lodging							Ton	Acre
	T/A	%	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156 819	7.6	65.7	0	0	6.2	23.1	45.3	81.7	59.5	30.7	3266	24815
299 565	6.3	64.2	0	0	5.6	23.0	44.3	80.6	56.2	34.0	3220	20479
299 582	10.3	66.9	0	0	5.6	24.0	45.4	78.2	52.0	33.8	3076	31665
554 709	7.4	66.2	0	0	6.1	23.0	45.8	78.7	53.5	35.7	3099	22982
554 723	9.6	62.2	0	0	6.2	21.9	44.2	80.0	54.7	37.7	3183	30526
554 729	7.1	67.6	0	0	6.5	24.1	47.3	80.0	57.7	31.4	3151	22275
554 730	8.1	69.2	0	0	4.9	25.6	50.5	77.0	54.8	28.3	2971	23962
771 326	9.4	69.5	0	0	6.3	25.2	47.8	79.3	56.6	27.4	3112	29171
780 937	10.1	69.3	0	0	5.2	26.1	50.5	77.8	56.1	28.1	3010	30445
780 943	9.0	64.9	0	0	5.3	26.2	50.2	77.9	56.0	24.3	2999	26998
806 148	10.7	66.5	0	0	5.1	24.2	46.8	78.4	53.9	33.9	3079	32991
806 171	6.6	61.1	0	0	6.9	21.5	44.3	80.7	56.5	35.0	3220	21149
807 329	8.6	65.7	0	0	5.7	23.1	45.6	79.6	55.2	33.6	3153	27111
827 074	6.7	58.3	0	0	6.5	21.7	44.6	81.1	57.6	33.8	3239	21790
827 121	6.9	65.9	0	0	6.3	22.3	44.9	80.8	57.3	33.7	3224	22305
827 268	8.3	66.1	0	0	6.0	23.4	45.7	80.0	56.2	32.5	3170	26227
827 278	7.6	64.6	0	0	6.7	20.4	41.4	82.3	57.2	34.9	3337	25466
832 707	7.4	64.6	0	0	5.3	20.2	40.3	82.8	57.4	35.3	3381	25179
864 973	7.4	66.8	0	0	4.9	24.4	48.0	78.3	54.9	29.9	3062	23093
866 220	7.5	63.9	0	0	6.4	20.8	42.4	84.6	63.7	35.1	3456	26016
866 221	5.9	70.1	0	0	6.0	24.1	47.5	83.9	66.2	26.2	3298	19568
Mean	8.1	65.9	0	0	5.9	23.5	46.2	80.0	56.8	31.8	3163	25612
<b>Probability (%)</b>												
Genotype	46.5	0.0	-	-	0.0	2.4	2.0	0.4	0.0	0.0	2.0	57.7
<b>LSD (0.10)</b>												
Genotype	NS	2.5	-	-	0.5	2.4	3.8	2.3	2.0	3.8	165	NS
<b>CV (%)</b>												
	13	3	-	-	7	7	6	2	3	9	4	15

## FIELD EXPERIMENT HISTORY

**Title:** **BASF Hybrid Corn Silage Trial**  
**Experiment:** Private Silage Evaluation **Trial ID:** 2846 **Year:** 2006  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Galesville, WI **County:** Trempealeau  
**Supported By:** BASF Plant Science

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam  
**Soil Test:** **Date:** 11/01/06 **pH** 5.9 **OM (%)** 4.0 **P (ppm)** 25 **K (ppm)** 140

### Plot Management

**Tillage Operations:** Fall Zone Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	9-23-30	150	4 /26/06
<b>Post plant</b>	28-0-0	120	N/A
<b>Manure:</b>		N/A	N/A

**Herbicide:** Cinch 2.0 pt/A **Insecticide:** None  
 Callisto 3.0 oz/A

**Irrigation:** None

**Planting Date:** 04/26/06 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9-15-06 **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:** 0.19  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30753 plants per acre

#### Factors/Treatments:

##### Hybrid

156 819	554 729	806 148	827 268	866 221
299 565	554 730	806 171	827 278	866 222
299 582	771 326	807 329	832 707	
554 709	780 937	827 074	864 973	
554 723	780 943	827 121	866 220	

**Results: Table C-28.**

**Table C-28. BASF Hybrid Corn Silage Evaluation Study.  
Galesville, WI 2006.**

Genotype	Dry Matter		Root	Stalk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per	
	Yield	Moisture	Lodging	Lodging							Ton	Acre
	T/A	%	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156 819	10.2	63.2	0	0	6.7	25.2	48.4	78.8	56.1	29.4	3038	31128
299 565	11.2	61.7	0	0	7.0	21.0	41.7	81.4	55.3	35.9	3252	36463
299 582	9.4	67.3	0	0	7.5	24.6	47.0	76.9	50.8	31.3	2949	27773
554 709	9.8	65.5	0	0	7.4	22.9	44.6	79.7	54.5	34.1	3127	30586
554 723	8.7	60.1	0	0	8.0	22.9	45.3	78.0	51.5	34.8	3025	26419
554 729	10.2	66.2	0	0	7.3	22.6	44.6	80.5	56.1	33.5	3170	32461
554 730	9.5	69.1	0	0	7.3	26.8	50.6	75.6	51.9	26.5	2843	27201
771 326	8.5	72.6	0	0	8.4	26.1	48.9	77.1	53.1	29.4	2937	25029
780 937	10.0	69.6	0	0	7.3	26.1	50.0	76.7	53.4	27.9	2909	29232
780 943	9.7	65.0	0	0	6.4	27.1	50.4	76.9	54.1	23.3	2916	28168
806 148	10.1	69.2	0	0	7.4	26.0	49.3	76.7	52.7	30.2	2913	29351
806 171	8.9	58.8	0	0	7.8	23.0	45.8	77.5	51.0	35.1	2995	26746
807 329	9.8	64.2	0	0	7.5	24.0	47.5	76.9	51.4	31.5	2944	28986
827 074	8.7	56.6	0	0	7.0	20.6	41.6	79.8	51.5	39.5	3165	27566
827 121	9.2	66.9	0	0	7.1	26.5	49.4	76.7	52.8	29.4	2914	26813
827 268	11.1	64.8	0	0	7.7	24.1	47.2	78.5	54.5	30.7	3034	33835
827 278	9.8	67.7	0	0	7.9	25.9	49.4	77.5	54.3	29.9	2952	28941
832 707	9.5	69.4	0	0	7.6	24.7	47.7	78.4	54.7	28.1	3022	28681
864 973	10.6	64.3	0	0	6.7	24.8	47.7	77.4	52.7	29.1	2973	31440
866 220	6.8	67.9	0	0	8.3	24.8	49.6	80.7	61.0	27.7	3122	21139
866 221	7.3	72.0	0	0	7.7	26.1	50.5	80.7	61.8	24.6	3112	22676
866 222	9.9	63.9	0	0	7.4	25.6	49.0	77.2	53.5	28.6	2947	29179
Mean	9.5	65.7	0	0	7.4	24.6	47.6	78.2	54.0	30.5	3012	28628
<b>Probability (%)</b>												
Genotype	0.0	0.0	-	-	0.0	0.6	0.4	0.0	0.0	0.0	0.1	0.1
<b>LSD (0.10)</b>												
Genotype	1.2	3.4	-	-	0.6	2.7	3.9	1.9	1.4	4.0	146	4539
<b>CV (%)</b>												
Genotype	9	4	-	-	6	8	6	2	2	10	4	12