

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2524 **Year:** 2004  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** BASF Plant Science

### Site Information

**Field:** 407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 7.0 **OM (%)** 3.9 **P (ppm)** 69 **K (ppm)** 258

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	325	N/A
<b>Starter</b>	6-24-24	150	4 /29/04
<b>Post plant</b>	34-0-0	150	6 /14/04
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Dual II 2pt/A Insecticide: None  
 Hornet 3.5 oz/A  
**Irrigation:** None

**Planting Date:** 4/29/04 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/21/04 **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:** 0.12 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31086 plants per acre

#### Factors/Treatments:

##### Hybrid

144	168
151	191YG
152	214
155YG	218
159YG	220
166	222
167	

**Results:** Table C-21.

**Table C-21. BASF Hybrid Corn Silage Evaluation Study - Late.  
Arlington, WI 2004.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
144	10.4	72.0	70	9.1	25	51	80	60	26	3367	34897
151	8.8	71.0	63	8.1	26	51	80	61	27	3403	30068
152	8.9	72.0	67	8.9	25	50	80	60	28	3401	30253
155YG	9.8	70.5	68	8.6	23	47	81	60	31	3491	34115
159YG	10.1	70.4	68	8.7	25	50	81	62	28	3469	34967
166	10.2	70.4	67	8.8	25	50	79	59	27	3342	34212
167	9.8	69.3	52	7.6	28	53	77	57	25	3184	31197
168	10.3	67.4	62	8.7	24	48	81	61	30	3495	36008
191YG	11.0	68.1	65	7.3	24	48	81	60	30	3465	38218
214	9.0	69.5	58	7.4	25	49	80	59	30	3384	30447
218	10.2	63.7	67	7.7	25	50	80	61	29	3431	34987
220	10.4	67.1	63	7.8	25	50	82	63	28	3548	36974
222	10.1	62.7	62	7.2	26	52	79	60	25	3341	33796
Mean	9.9	68.8	64	8.1	25	50	80	60	28	3409	33857
<b>Probability (%)</b>											
Genotype	11.5	0.0	25.4	0.0	6.7	13.5	1.2	0.0	1.9	0.7	11.6
<b>LSD (0.10)</b>											
Genotype	NS	2.7	NS	0.4	2.0	NS	1.6	1.5	2.8	125	NS
<b>CV (%)</b>											
Genotype	9	3	11	4	6	5	1	2	7	3	10

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2525 **Year:** 2004  
**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:** Corn **Soil Type:** Fayette Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 7.1 **OM (%)** **P (ppm)** 35 **K (ppm)** 62

### Plot Management

**Tillage Operations:** Disk Soil Finisher Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	413	N/A
<b>Starter</b>	6-24-24	150	4 /27/04
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Atrazine 1 qt/A **Insecticide:** Force 4.4 lb/A  
 Harness 1 qt/A

**Irrigation:** None

**Planting Date:** 4/27/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/17/04 **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:** 0.12 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30888 plants per acre

#### Factors/Treatments:

##### Hybrid

144	168
151	191YG
152	214
155YG	218
159YG	220
166	222
167	

**Results:** Table C-22.

**Table C-22. BASF Hybrid Corn Silage Evaluation Study - Late.  
Lancaster, WI 2004.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
144	9.4	65.4	58	7.9	25	49	79	57	30	3314	31253
151	9.2	62.8	53	7.5	23	46	81	59	34	3481	32158
152	9.2	61.5	58	7.4	22	45	82	59	36	3496	32224
155YG	9.7	61.6	55	7.0	23	47	81	59	33	3425	33052
159YG	11.1	62.5	58	7.6	23	48	80	59	31	3393	37701
166	9.7	63.5	65	7.3	23	47	80	57	33	3391	32924
167	11.3	66.0	55	6.5	26	49	78	56	32	3255	36721
168	9.6	63.0	53	7.6	23	46	81	60	35	3502	33660
191YG	10.5	62.2	55	6.7	22	44	82	59	36	3511	37047
214	9.7	64.0	47	6.7	22	45	82	59	36	3532	34250
218	9.9	58.3	38	6.9	23	46	81	60	35	3402	33757
220	10.7	61.8	62	7.1	24	48	81	61	33	3503	37327
222	10.6	56.5	62	6.5	24	48	81	60	33	3313	35164
Mean	10.0	62.2	55	7.1	23	47	81	59	34	3424	34403
<b><u>Probability (%)</u></b>											
Genotype	0.3	0.0	2.8	0.0	14.0	18.0	3.7	0.0	3.9	2.9	8.9
<b><u>LSD (0.10)</u></b>											
Genotype	0.9	0.7	11	0.5	NS	NS	1.8	1.5	3.1	138	3836
<b><u>CV (%)</u></b>											
	6	3	14	5	6	5	2	2	7	3	8

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2526 **Year:** 2004  
**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:** Corn **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.9 **OM (%)** 4.5 **P (ppm)** 27 **K (ppm)** 85

### Plot Management

**Tillage Operations:** Moldboard Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	82-0-0	183	N/A
<b>Starter</b>	6-24-24	150	5 /3 /04
<b>Post plant</b>	28-0-0	135	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Cinch ATZ Lite 2.25 pt/A  
 Cinch 0.67 pt/A  
 Hornet 3.0 oz/A

**Insecticide:** Force 4.4 lb/A

**Irrigation:** None

**Planting Date:** 5/3/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/24/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre

#### **Factors/Treatments:**

##### Hybrid

156	215
157	218
165YG	221YG
171	223
177	224RR

**Results: Table C-23.**

**Table C-23. BASF Hybrid Corn Silage Evaluation Study - Early.  
Fond du Lac, WI 2004.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156	8.5	64.7	52	5.8	23	46	81	59	32	3446	29203
157	7.2	64.9	63	6.1	21	44	84	64	33	3713	26622
165YG	7.7	61.9	60	6.8	22	47	81	61	32	3445	26629
171	8.2	67.3	68	6.0	24	48	82	63	30	3576	29161
177	6.6	59.4	50	6.6	24	51	79	59	28	3244	21221
215	7.5	63.8	65	5.1	21	44	84	64	36	3744	27898
218	8.3	63.2	65	6.4	23	47	82	62	30	3513	29389
221YG	6.9	61.1	48	5.4	22	46	84	64	33	3644	25015
223	6.5	62.2	35	6.7	22	47	82	62	31	3536	22954
224RR	8.3	59.3	60	6.5	23	46	82	61	31	3449	28687
Mean	7.6	62.9	57	6.1	22	46	82	62	32	3541	26866
<b>Probability (%)</b>											
Genotype	10.8	0.2	6.1	3.0	19.0	8.8	1.9	10.3	23.2	0.6	10.4
<b>LSD (0.10)</b>											
Genotype	NS	2.5	16	0.8	NS	3.2	2.0	NS	NS	163	NS
<b>CV (%)</b>											
Genotype	12	3	20	9	6	5	2	4	9	3	12

## FIELD EXPERIMENT HISTORY

**Title:** BASF Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2527 **Year:** 2004  
**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:** 10/1 /04 **pH** 6.1 **OM (%)** 3.8 **P (ppm)** 22 **K (ppm)** 150

### Plot Management

**Tillage Operations:** V-Rip Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	348	N/A
<b>Starter</b>	6-24-24	150	4 /28/04
<b>Post plant</b>	34-0-0	150	6 /25/04
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Dual II 2.25 pt/A  
 Callisto 3.0 oz/A **Insecticide:** None

**Irrigation:** None

**Planting Date:** 4/28/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/22/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30096 plants per acre

#### **Factors/Treatments:**

##### Hybrid

156	215
157	218
165YG	221YG
171	223
177	224RR

**Results: Table C-24.**

**Table C-24. BASF Hybrid Corn Silage Evaluation Study - Early.  
Galesville, WI 2004.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
156	7.8	70.8	63	7.4	25	49	79	58	29	3327	25962
157	9.0	71.3	65	8.0	23	47	81	59	32	3447	30793
165YG	9.0	66.9	65	7.8	23	47	82	61	31	3525	31763
171	10.8	71.8	72	8.2	24	48	81	60	30	3472	37366
177	8.9	65.4	50	8.3	22	45	82	60	34	3534	31464
215	9.2	70.1	73	7.2	24	49	81	61	28	3469	31996
218	8.2	67.4	67	7.2	24	48	81	60	32	3482	28557
221YG	8.1	68.6	68	7.7	24	48	81	61	30	3477	28015
223	7.2	68.0	40	7.6	21	45	82	59	34	3522	25153
224RR	8.2	64.3	62	6.8	23	46	82	60	35	3547	29247
Mean	8.6	68.5	63	7.6	23	47	81	60	31	3480	30032
<b>Probability (%)</b>											
Genotype	6.5	0.1	0.7	0.2	43.3	81.3	72.6	27.2	33.0	69.5	7.9
<b>LSD (0.10)</b>											
Genotype	1.5	2.6	13	0.5	NS	NS	NS	NS	NS	NS	5854
<b>CV (%)</b>											
Genotype	13	3	14	5	9	7	2	2	12	4	14