

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: Private Silage Evaluation **Trial ID** 2623 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/1 /05 **pH** 6.4 **OM (%)** 3.7 **P (ppm)** 66 **K (ppm)** 131

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Cultivated

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	325	N/A
Starter	9-24-24	150	4 /28/05
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

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

Insecticide: None

Irrigation: None

Planting Date: 4/28/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/14/05 **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: 0.18 A

Harvest Plot Size: 22' x 2.5'

Harvest Plant Density: 31600 plants per acre

Factors/Treatments:

<u>Hybrid</u>		
243	263	308
244	266	318
245	273	323
247	274	326
248	290	336
251	295	349
257	299	367

Results: Table C-20.

**Table C-20. BASF Hybrid Corn Silage Evaluation Study - Late.
Arlington, WI 2005.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
243	9.2	55.4	52	7.5	20	41	82	56	36	3345	30931
244	9.3	56.4	53	7.2	19	41	83	57	37	3430	32060
245	8.7	57.9	48	7.2	20	41	82	55	36	3372	29169
247	7.9	54.0	53	7.9	21	45	79	54	33	3149	24793
248	8.5	59.0	63	6.9	20	42	82	56	35	3422	29244
251	8.8	58.5	63	6.9	19	41	82	56	35	3432	30291
257	8.1	61.0	60	7.6	21	42	82	56	35	3465	27955
263	8.4	58.3	63	7.3	19	41	82	56	36	3408	28420
266	9.1	57.9	70	7.5	19	40	83	58	38	3496	31975
273	6.4	51.3	8	7.8	20	43	81	55	35	3199	20286
274	6.3	60.6	53	7.6	22	45	81	57	31	3391	21102
290	7.8	53.4	48	6.8	19	39	83	56	39	3327	25942
295	8.1	57.1	57	7.0	18	38	83	56	40	3476	27992
299	8.5	55.7	68	7.0	20	43	82	58	33	3399	28815
308	9.8	55.9	53	6.7	22	44	80	55	30	3237	31567
318	9.1	58.8	52	6.3	19	40	82	54	37	3396	30937
323	9.1	57.1	52	6.4	19	40	82	55	38	3364	30825
326	9.1	61.3	70	6.9	21	43	82	57	34	3499	32023
336	7.4	53.5	57	7.0	19	40	82	56	38	3360	24951
349	8.2	57.8	53	7.1	20	41	82	55	37	3381	27753
367	8.1	46.6	10	7.0	17	37	83	53	42	3260	26467
Mean	8.4	56.6	53	7.1	20	41	82	56	36	3372	28262
<u>Probability (%)</u>											
Genotype	8.6	0.0	0.0	0.0	7.0	5.4	5.1	1.1	0.1	0.0	2.6
<u>LSD (0.10)</u>											
Genotype	1.7	3.1	10	0.5	2.3	3.6	1.7	2.0	3.9	112	5703
<u>CV (%)</u>											
	15	4	14	5	8	6	1	3	8	2	14

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID** 2624 **Year:** 2005
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:** N/A **pH** 7.1 **OM (%)** **P (ppm)** 35 **K (ppm)** 62

Plot Management

Tillage Operations: Disk Soil Finisher Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	392	N/A
Starter	9-24-24	150	4 /25/05
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Aatrex 4L 1.0 qt/A **Insecticide:** Force 4.4 lb/A
 Harness 1.0 qt/A

Irrigation: None

Planting Date: 4/25/05 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/7/05 **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:** 0.18 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31114 plants per acre

Factors/Treatments:

Hybrid

243	263	308
244	266	318
245	273	323
247	274	326
248	290	336
251	295	349
257	299	367

Results: Table C-21.

**Table C-21. BASF Hybrid Corn Silage Evaluation Study - Late.
Lancaster, WI 2005.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
243	10.2	61.7	55	8.4	22	43	79	51	34	3251	33028
244	8.9	65.4	62	7.6	26	48	76	51	30	3120	27945
245	9.4	66.1	55	7.7	24	46	77	51	31	3197	30151
247	9.3	60.6	58	8.2	23	45	79	52	33	3238	30161
248	10.2	65.5	67	7.7	25	47	77	51	29	3177	32325
251	9.0	68.0	70	7.3	25	47	77	52	29	3185	28650
257	9.3	69.4	70	8.2	25	48	78	53	26	3228	30008
263	9.9	66.8	73	7.4	25	48	78	54	24	3232	31872
266	10.5	65.8	67	7.0	26	49	78	54	26	3253	34255
273	8.5	59.8	22	7.8	23	45	79	53	32	3250	27735
274	9.7	69.0	70	7.4	26	49	76	51	26	3113	30291
290	9.4	62.1	63	6.7	24	47	79	55	30	3301	31204
295	9.7	63.7	58	7.1	22	43	80	53	35	3380	32750
299	10.1	58.4	42	6.6	24	46	78	53	31	3182	32248
308	11.0	61.9	53	7.0	25	47	78	53	28	3212	35387
318	10.3	65.3	57	6.7	23	44	79	52	33	3299	33945
323	10.7	64.9	60	6.7	24	45	78	52	33	3252	34694
326	9.5	66.4	60	6.7	25	48	78	53	31	3233	30831
336	10.5	65.0	65	7.4	25	48	78	53	27	3222	34017
349	10.5	65.2	67	7.7	26	49	79	57	27	3351	35273
367	7.8	61.7	48	7.2	21	42	80	52	36	3301	25617
Mean	9.7	64.4	59	7.4	24	46	78	53	30	3237	31542
<u>Probability (%)</u>											
Genotype	1.5	0.0	0.0	0.0	1.1	1.5	5.0	0.2	0.0	15.8	5.7
<u>LSD (0.10)</u>											
Genotype	1.3	3.5	10	0.7	2.3	3.3	1.8	2.1	3.8	NS	4827
<u>CV (%)</u>											
	9	4	12	7	7	5	2	3	9	3	11

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID** 2625 **Year:** 2005
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:** **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 10/1 /04 **pH** 6.9 **OM (%)** 3.6 **P (ppm)** 38 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-24-24	150	4-29-05
Post plant	28-0-0	429	N/A
Manure:	N/A	N/A	N/A

Herbicide: Basis 0.33 oz/A
Lumax 2.5 qt/A **Insecticide:** None

Irrigation: None

Planting Date: 4-29-05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/8/05 **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:** 0.18 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31001 plants per acre

Factors/Treatments:

<u>Hybrid</u>		
243	263	308
244	266	318
245	273	323
247	274	326
248	290	336
251	295	349
257	299	367

Results: Table C-22.

**Table C-22. BASF Hybrid Corn Silage Evaluation Study - Early.
Fond du Lac, WI 2005.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
243	9.1	62.2	55	6.5	23	46	79	55	31	3328	30453
244	10.1	62.1	58	6.7	21	43	80	53	34	3369	34095
245	7.5	65.6	68	6.7	23	45	80	56	31	3394	25392
247	7.5	62.2	70	7.8	22	46	81	59	31	3502	26222
248	8.5	65.1	67	6.7	23	46	80	57	30	3445	29324
251	8.0	65.3	72	6.7	23	46	80	57	31	3421	27224
257	9.2	66.4	75	6.6	23	45	81	59	30	3505	32260
263	9.4	64.5	78	6.6	22	45	81	57	30	3444	32502
266	8.7	67.3	82	7.4	24	48	79	56	27	3291	28764
273	8.4	58.6	33	7.3	21	43	80	55	36	3304	27844
274	9.3	68.4	82	7.1	25	48	78	56	28	3280	30539
290	9.0	57.7	70	6.5	20	40	82	56	38	3432	30922
295	8.7	62.6	70	6.0	23	45	81	56	35	3401	29738
299	9.4	58.6	67	6.5	22	43	80	55	36	3306	31213
308	9.4	63.2	70	6.8	24	47	80	56	29	3353	31341
318	10.2	63.5	73	5.7	23	45	80	55	33	3373	34232
323	9.3	65.2	73	5.9	24	46	79	55	31	3332	31064
326	9.6	65.6	78	6.4	22	44	81	58	33	3520	33673
336	8.7	64.7	92	6.2	25	47	79	56	31	3326	28986
349	8.5	67.0	82	7.0	25	48	79	57	27	3340	28487
367	8.4	56.6	55	6.9	20	42	82	56	37	3364	28272
Mean	8.9	63.4	70	6.7	23	45	80	56	32	3382	30121
<u>Probability (%)</u>											
Genotype	7.5	0.0	0.0	0.0	3.9	6.3	1.7	0.5	1.0	7.5	18.8
<u>LSD (0.10)</u>											
Genotype	1.3	3.1	9	0.5	2.5	4.0	2.0	2.1	5.1	134	NS
<u>CV (%)</u>											
	11	3	9	6	8	6	9	3	11	3	12

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID:** 2626 **Year:** 2005
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)** 68 **K (ppm)** 229

Plot Management

Tillage Operations: Fall Zone Builder Cultivated 6 /16/05
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	218	N/A
	21-0-0	238	N/A
Starter	9-24-24	150	5 /2 /05
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

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

Irrigation: None

Planting Date: 5/2/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/12/05 **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:** 0.18 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31918 plants per acre

Factors/Treatments:

<u>Hybrid</u>		
243	263	308
244	266	318
245	273	323
247	274	326
248	290	336
251	295	349
257	299	367

Results: Table C-23.

**Table C-23. BASF Hybrid Corn Silage Evaluation Study - Early.
Galesville, WI 2005.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
243	10.6	64.1	48	8.3	21	42	81	55	37	3469	36825
244	10.5	65.8	53	8.0	22	44	80	54	33	3406	35616
245	9.9	66.2	53	7.7	22	44	79	53	33	3333	32895
247	11.0	60.2	48	8.1	20	42	81	56	35	3436	37965
248	9.0	71.3	68	8.3	23	46	80	55	32	3369	30273
251	9.2	68.6	67	7.9	22	43	80	55	34	3425	31511
257	9.7	70.1	68	8.7	24	47	79	56	30	3364	30493
263	10.3	69.3	75	8.1	24	47	79	54	29	3286	33881
266	10.5	68.2	63	8.0	23	45	80	55	31	3379	35668
273	9.3	58.3	32	8.1	21	43	81	56	34	3364	31316
274	10.6	71.9	68	8.9	25	47	79	55	30	3296	34928
290	9.8	62.1	55	7.3	22	44	81	57	33	3475	34084
295	9.3	67.1	60	7.9	23	45	80	56	31	3399	31555
299	11.0	60.6	57	7.1	24	47	79	56	30	3309	36454
308	11.2	63.5	58	6.7	25	49	79	56	26	3304	36901
318	8.8	69.7	63	7.1	24	46	79	55	33	3346	29291
323	9.8	68.6	62	6.8	22	44	80	53	34	3358	32763
326	10.2	69.7	67	7.1	25	47	79	56	31	3369	34338
336	10.9	66.0	70	7.3	22	44	81	56	31	3444	37476
349	10.9	69.2	58	8.0	23	44	80	56	34	3441	37445
367	9.2	57.3	42	7.8	21	43	81	56	33	3331	30526
Mean	10.1	66.1	59	7.8	23	45	80	55	32	3377	33970
Probability (%)											
Genotype	0.9	0.0	0.0	0.0	1.4	8.4	12.4	0.4	5.3	23.7	0.7
LSD (0.10)											
Genotype	1.2	2.7	9	0.5	2.3	3.6	NS	1.5	4.4	NS	4177
CV (%)											
	8	3	11	5	7	6	2	2	10	3	9