

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID** 2419 **Year:** 2003
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: BASF Plant Science

Site Information

Field: 412 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/01/03 **pH** 6.7 **OM (%)** 4.1 **P (ppm)** 70 **K (ppm)** 164

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	4 /22/03
Starter	6-24-24	150	5 /3 /03
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Harness 2.5 pt/A
 Hornet 3.0 oz/A
 Callisto 3.0 oz/A

Insecticide: None

Irrigation: None

Planting Date: 5/3/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/11/03 **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: 0.11 A

Harvest Plot Size: 22' x 2.5'

Harvest Plant Density: 31574 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
1707051	1709930 Pioneer 35R58
1707130	1709939
1708785	1710197
1708983	1710251
1709395	EXMY108 CL
1709899	NK N48V8

Results: Table C-17.

**Table C-17. BASF Hybrid Corn Silage Evaluation Study - Late.
Arlington, WI 2003.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
1707051	9.1	61.5	63	7.5	32	58	77	61	21	3146	28477
1707130	9.8	69.0	75	7.4	29	54	79	62	23	3346	32844
1708785	8.4	64.2	67	7.9	26	50	82	63	28	3470	29024
1708983	8.6	68.3	70	7.3	27	51	80	62	26	3417	29483
1709395	9.1	64.6	67	8.2	25	50	83	66	28	3604	32673
1709899	9.5	64.1	68	7.6	26	50	83	66	30	3555	33905
1709930	8.9	62.8	77	7.4	29	55	81	66	25	3450	30569
1709939	9.2	65.8	80	7.8	29	54	79	62	24	3331	30741
1710197	9.0	68.0	73	8.3	28	53	81	65	23	3492	31289
1710251	9.3	63.4	77	7.6	27	52	83	67	28	3570	33463
EXMY108 CL	9.2	67.9	70	8.0	28	53	80	62	24	3386	31296
NK N48V8	9.3	65.0	58	7.6	29	55	79	62	24	3298	30630
Mean	9.1	66.0	71	7.8	28	53	81	64	25	3425	31200
<u>Probability (%)</u>											
Genotype	87.2	0.1	0.6	0.5	8.3	5.1	4.8	1.0	7.7	7.6	70.9
<u>LSD (0.10)</u>											
Genotype	NS	3.8	8	0.6	2.9	3.9	2.7	2.9	5.5	216	NS
<u>CV (%)</u>											
	10	4	8	6	7	5	2	3	16	5	11

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: Private Silage Evaluation **Trial ID** 2420 **Year:** 2003
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:** 10/01/03 **pH** 7.1 **OM (%)** 2.1 **P (ppm)** 35 **K (ppm)** 62

Plot Management

Tillage Operations: Soil Finisher Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	300	4 /27/03
Starter	6-24-24	150	4 /28/03
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Aatrex 4L 1.0 qt/A
 Harness 1.0 qt/A
 Accent 0.33 oz/A
 Northstar 4.0 oz/A

Insecticide: None

Irrigation: None

Planting Date: 4/28/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/9/03 **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:** 0.11 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 29990 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
1707051	1709930 Pioneer 35R58
1707130	1709939
1708785	1710197
1708983	1710251
1709395	EXMY108 CL
1709899	NK N48V8

Results: Table C-18.

**Table C-18. BASF Hybrid Corn Silage Evaluation Study - Late.
Lancaster, WI 2003.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
1707051	8.4	52.8	47	6.1	30	57	79	64	25	3193	26840
1707130	8.3	62.8	72	6.8	26	50	80	59	30	3333	27794
1708785	7.6	61.5	63	7.1	26	49	82	63	30	3504	26755
1708983	9.0	62.6	58	7.1	26	49	80	60	30	3391	30632
1709395	8.3	61.4	67	7.4	26	49	81	62	31	3444	28580
1709899	9.3	60.8	55	7.0	29	53	80	63	29	3387	31635
1709930	8.0	63.2	62	7.3	27	51	82	64	29	3544	28396
1709939	8.6	61.8	63	7.0	27	51	80	61	30	3384	29191
1710197	8.0	62.6	72	7.6	26	50	80	61	30	3396	27017
1710251	8.7	59.7	67	6.3	31	59	78	63	23	3248	28331
EXMY108 CL	8.1	59.6	53	7.6	26	50	81	62	31	3353	27128
NK N48V8	8.8	63.9	55	6.8	27	51	80	61	28	3398	29967
Pioneer 35R58	5.9	68.7	73	8.1	26	50	82	64	25	3572	21032
Mean	8.3	61.6	62	7.1	27	51	80	62	29	3396	28078
Probability (%)											
Genotype	10.3	0.0	24.9	0.1	5.0	0.9	25.8	1.6	15.6	2.5	30.5
LSD (0.10)											
Genotype	NS	3.6	NS	0.6	2.9	4.1	NS	2.3	NS	161	NS
CV (%)											
Genotype	11	4	19	6	8	6	2	3	12	3	12

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID** 2421 **Year:** 2003
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:** 10/01/03 **pH** 6.7 **OM (%)** 2.8 **P (ppm)** 31 **K (ppm)** 77

Plot Management

Tillage Operations: Soil Finisher Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	430	N/A
Starter	6-24-24	150	5 /3 /03
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Basis 0.33 oz/A
 Lumax 5.0 pt/A **Insecticide:** None

Irrigation: None

Planting Date: 5/3/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/16/03 **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:** 0.11 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 28842 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
1707130	1709982
1707565	1710250
1708983	1710252
1709410	EXMY108
1709905	NK N48V8
1709907	Pioneer 34M95
1709979	

Results: Table C-19.

**Table C-19. BASF Hybrid Corn Silage Evaluation Study - Early.
Fond du Lac, WI 2003.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
1707130	7.7	67.1	33	7.1	29	53	79	61	31	3325	25548
1707565	9.5	55.6	40	7.0	24	45	83	63	41	3453	32762
1708983	6.8	65.7	53	6.8	32	57	78	61	26	3249	21914
1709410	9.2	68.1	53	6.9	28	52	81	63	31	3501	32180
1709905	6.7	66.4	60	6.5	27	50	81	63	33	3522	23753
1709907	8.1	65.2	50	6.9	32	56	77	58	28	3126	25552
1709979	7.8	59.7	48	8.0	27	51	80	62	35	3355	26034
1709982	8.6	62.5	53	6.8	27	51	81	63	34	3503	30303
1710250	8.2	67.4	67	6.6	29	52	81	63	29	3463	28241
1710252	8.9	64.4	60	6.8	29	52	80	63	33	3450	30847
EXMY108	8.3	67.7	47	6.9	29	52	80	61	32	3410	28314
NK N48V8	6.8	62.0	40	7.2	25	47	83	64	38	3538	23950
Pioneer 34M95	8.0	56.0	27	6.6	29	53	80	62	33	3234	25828
Mean	8.0	63.7	49	6.9	28	52	80	62	33	3395	27325
Probability (%)											
Genotype	0.0	0.0	5.8	28.1	2.7	2.9	10.4	37.9	1.4	35.4	0.0
LSD (0.10)											
Genotype	0.8	4.4	19	NS	3.6	4.9	NS	NS	5.6	NS	3703
CV (%)											
	7	5	28	8	9	7	3	4	12	6	10

FIELD EXPERIMENT HISTORY

Title: **BASF Hybrid Corn Silage Trial**
Experiment: Private Silage Evaluation **Trial ID** 2422 **Year:** 2003
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:** 10/01/03 **pH** 6.2 **OM (%)** 3.4 **P (ppm)** 36 **K (ppm)** 136

Plot Management

Tillage Operations: Zone Builder Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	350	N/A
Starter	6-24-24	150	4 /28/03
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Dual II 2.25 pt/A
 Hornet 3.0 oz/A
 Clarity 4.0 oz/A

Insecticide: None

Irrigation: None

Planting Date: 4/28/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/10/03 **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:** 0.11 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31802 plants per acre

Factors/Treatments:

Hybrid

1707130	1709982
1707565	1710250
1708983	1710252
1709410	EXMY108
1709905	NK N48V8
1709907	Pioneer 34M95
1709979	

Results: Table C-20.

**Table C-20. BASF Hybrid Corn Silage Evaluation Study - Early.
Galesville, WI 2003.**

Genotype	Dry Matter		Kernel						Milk Per		
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
1707130	8.1	72.9	65	8.6	28	53	80	63	24	3384	27485
1707565	9.2	63.7	63	7.8	25	49	83	65	31	3602	33145
1708983	8.8	67.0	57	7.1	29	54	79	62	25	3332	29535
1709410	9.7	70.2	67	8.9	24	48	84	67	29	3711	36125
1709905	9.0	69.2	75	7.6	27	50	81	62	30	3450	31165
1709907	9.1	64.8	52	7.7	26	49	82	63	33	3533	32129
1709979	8.4	65.0	50	8.6	26	51	82	64	29	3533	29950
1709982	11.1	61.6	72	7.0	25	49	83	66	31	3632	40176
1710250	8.4	71.0	70	7.9	26	50	83	65	27	3589	30155
1710252	9.5	69.7	70	8.0	30	55	80	64	24	3404	32465
EXMY108	9.6	69.3	65	7.9	26	50	82	63	31	3506	33806
NK N48V8	7.9	66.9	65	8.0	26	49	83	64	32	3591	28277
Pioneer 34M95	8.5	60.7	48	7.5	28	51	82	65	30	3525	30056
Mean	9.0	67.1	63	7.9	27	51	82	64	29	3523	31882
<u>Probability (%)</u>											
Genotype	0.1	0.0	0.4	0.1	23.2	20.0	9.8	1.4	9.6	11.3	1.0
<u>LSD (0.10)</u>											
Genotype	1.0	2.5	11	0.6	NS	NS	2.5	2.2	5.3	NS	4751
<u>CV (%)</u>											
	8	3	13	6	9	6	2	2	13	4	11