

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3402 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.9 **OM (%)** 3.1 **P (ppm)** 87 **K (ppm)** 102

Plot Management

Tillage Operations: Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	130 lbs/A	N/A
Starter	10-34-0	3.0 gal/A	5 /2 /11
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Hornet 3.0 oz/A **Insecticide:** None
 Outlook 14 oz/A
Irrigation: None

Planting Date: 5/2/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/13/11 **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:** 0.33 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 27651 plants per acre

Hybrids:

4530106 7921374
 4647699 902672
 4681045 902687
 4725172 905818
 5878757 909703

Results: Table C-17.

**Table C-17. BASF Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI - 2011.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 4530106	6.4	57.0	5.2	21.1	42.6	82.6	59.0	38.9	3322	21276
BASF 4647699	9.5	54.4	4.7	21.8	42.9	81.2	56.3	39.5	3246	30824
BASF 4681045	8.5	59.4	5.4	24.4	46.8	77.5	52.0	33.5	2999	25351
BASF 4725172	8.1	51.2	5.4	21.5	43.4	80.2	54.5	40.1	3184	25670
BASF 5878757	7.5	54.9	5.5	22.9	46.2	81.7	60.2	34.9	3231	24289
BASF 7921374	9.2	52.0	5.0	22.9	44.7	79.8	54.8	37.9	3147	29176
BASF 902672	9.1	55.0	4.8	20.8	41.7	80.2	52.5	40.8	3199	28979
BASF 902687	9.0	49.1	5.4	22.0	44.2	79.2	53.0	40.1	3120	28130
BASF 905818	8.4	51.1	5.1	22.2	43.7	78.8	51.4	39.5	3101	25978
BASF 909703	8.5	53.5	5.0	20.6	42.6	82.9	60.1	38.9	3342	28538
Mean	8.4	53.8	5.2	22.0	43.9	80.4	55.4	38.4	3189	26821
<u>Probability (%)</u>										
Hybrid	0.1	0.0	34.5	22.1	8.4	0.5	0.0	3.0	1.1	0.9
<u>LSD (0.10)</u>										
Hybrid	1.0	2.5	NS	NS	2.8	2.1	3.4	3.5	138	3667

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3401 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Marshfield, WI **County:** Wood
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Soybeans **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.7 **OM (%)** 3.3 **P (ppm)** 55 **K (ppm)** 138

Plot Management

Tillage Operations: Chisel Plow Spring Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	4 /28/10
Post plant	28-0-0	120	N/A
Manure:	N/A	N/A	N/A

Herbicide: SureStart 2.25 pt/A **Insecticide:** Force 3G 4.4 lbs/A
 Volley 2.75 oz/A

Irrigation: None

Planting Date: 5/18/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 9/22/11 **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:** 0.27 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 33711 plants per acre

Hybrids:
 4530106 7921374
 4647699 902672
 4681045 902687
 4725172 905818
 5878757 909703

Results: Table C-18.

**Table C-18. BASF Hybrid Corn Silage Evaluation Study.
Marshfield, WI - 2011.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 4530106	7.5	73.5	7.1	27.8	51.7	76.5	54.5	29.4	2894	21600
BASF 4647699	7.0	76.2	6.9	30.0	53.8	76.8	56.9	23.0	2890	20153
BASF 4681045	7.6	74.9	6.9	28.2	51.9	76.4	54.8	28.8	2892	22123
BASF 4725172	7.0	73.9	7.9	26.4	49.4	77.9	55.3	31.3	2992	21022
BASF 5878757	7.3	73.9	7.4	27.2	51.7	80.1	61.4	27.4	3085	22618
BASF 7921374	8.4	71.8	6.5	27.4	51.9	77.8	57.3	29.8	2965	25043
BASF 902672	9.1	74.0	6.7	25.4	48.0	79.2	56.6	32.0	3080	28042
BASF 902687	7.5	76.0	7.7	29.8	54.0	74.2	52.2	26.2	2747	20493
BASF 905818	8.0	73.9	7.7	27.8	51.0	75.9	52.7	30.2	2867	22911
BASF 909703	7.6	73.9	7.3	28.5	52.0	76.9	55.6	29.0	2915	22084
Mean	7.7	74.2	7.2	27.9	51.5	77.2	55.7	28.7	2933	22609
<u>Probability (%)</u>										
Hybrid	6.0	3.6	11.1	49.4	64.0	17.6	1.4	34.5	30.3	4.8
<u>LSD (0.10)</u>										
Hybrid	1.0	1.9	NS	NS	NS	NS	3.5	NS	NS	3670

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3400 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 7.3 **OM (%)** 2.6 **P (ppm)** 32 **K (ppm)** 115

Plot Management

Tillage Operations: Chisel Plow Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	5 /19/11
Post plant	46-0-0	160 lbs/A	6 /21/11
Manure:	N/A	N/A	N/A

Herbicide: Steadfast 1.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Laudis 2.0 oz/A

Irrigation: None

Planting Date: 5/19/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/20/11 **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:** 0.33 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 33075 plants per acre
Hybrids:

4530106	7921374
4647699	902672
4681045	902687
4725172	905818
5878757	909703

Results: Table C-19.

**Table C-19. BASF Hybrid Corn Silage Evaluation Study.
Valders, WI - 2011.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 4530106	8.4	53.0	6.3	21.4	42.8	78.6	50.1	40.9	3056	25692
BASF 4647699	9.1	60.3	5.9	24.6	46.0	78.4	53.1	35.6	3007	27317
BASF 4681045	8.7	63.5	6.2	26.2	48.3	76.5	51.2	32.6	2873	24882
BASF 4725172	4.9	53.7	6.4	27.2	51.0	73.5	48.1	32.1	2683	13047
BASF 5878757	7.6	57.6	6.7	22.9	44.7	80.2	55.6	36.6	3119	23591
BASF 7921374	8.8	57.0	6.0	23.9	46.3	78.9	54.4	36.3	3032	26596
BASF 902672	7.2	62.8	6.2	25.0	48.0	76.2	50.4	33.2	2861	20679
BASF 902687	8.4	52.4	6.6	24.2	45.9	76.2	48.2	37.4	2887	24361
BASF 905818	6.7	57.3	6.8	25.2	46.9	76.0	48.7	35.3	2861	19230
BASF 909703	9.2	54.0	6.0	21.6	42.8	79.7	52.6	42.2	3117	28808
Mean	7.9	57.2	6.3	24.2	46.3	77.4	51.3	36.2	2950	23420
<u>Probability (%)</u>										
Hybrid	0.6	0.0	0.3	1.1	2.6	0.0	0.0	0.4	0.0	0.2
<u>LSD (0.10)</u>										
Hybrid	1.7	3.6	0.3	2.5	3.7	1.9	2.2	4.0	140	5282