

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3256 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.2 **OM (%)** 2.9 **P (ppm)** 39 **K (ppm)** 110

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Soil Finisher Cultivate

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 /2 /09
	Post plant	46-0-0	50	6 /26/09
	Manure:		N/A	N/A

Herbicide: Dual II Mag 24 oz/A
Hornet 4 oz/A

Insecticide:

Irrigation: None

Planting Date: 5/2/09 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/18/09 **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:** 0.28 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32640 plants per acre

Hybrids:

299582	890349	902460
887140	899867	902509
889619	900246	902575
889643	901038	902998
889785	901040	902999

Results: Table C-08.

**Table C-08. BASF Hybrid Corn Silage Evaluation Study.
Arlington, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	11.2	62.9	6.7	24.2	47.0	76.8	50.6	28.4	2915	32705
BASF 887140	10.1	59.8	6.9	23.8	46.2	77.5	51.2	28.1	2959	29958
BASF 889619	12.5	60.5	6.2	25.2	48.3	74.5	47.2	26.2	2774	34642
BASF 889643	11.4	62.6	6.2	26.4	51.1	74.9	50.7	23.0	2729	31201
BASF 889785	12.0	64.3	6.0	24.6	47.2	76.6	50.3	28.5	2903	34758
BASF 890349	11.4	57.6	6.2	22.9	44.9	77.7	50.4	30.6	2992	34240
BASF 899867	11.9	61.1	6.9	25.5	49.0	76.1	51.2	25.1	2851	33876
BASF 900246	12.3	62.1	6.1	25.7	49.0	74.7	48.3	25.1	2778	34272
BASF 901038	10.8	58.2	7.0	23.9	46.7	76.6	49.7	26.9	2893	31318
BASF 901040	11.4	62.3	6.1	24.4	46.0	76.3	48.4	26.3	2817	32287
BASF 902460	11.9	60.9	6.5	23.4	45.4	76.5	48.2	27.4	2888	34323
BASF 902509	10.8	57.5	6.8	25.0	47.9	75.9	49.7	26.2	2855	30951
BASF 902575	12.7	60.2	6.4	23.7	46.3	77.6	51.6	27.7	2963	37771
BASF 902998	9.6	65.9	6.7	24.6	48.4	80.8	60.3	22.7	3008	28799
BASF 902999	10.3	67.6	6.8	23.3	46.5	81.3	59.7	24.7	3085	31809
Mean	11.4	61.6	6.5	24.5	47.3	76.9	51.2	26.5	2894	32861
<u>Probability (%)</u>										
Hybrid	0.0	0.1	0.0	30.6	13.9	0.0	0.0	6.6	0.7	4.1
<u>LSD (0.10)</u>										
Hybrid	1.0	3.4	0.3	NS	NS	2.2	3.1	3.7	138	3768

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3260 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Lancaster, WI **County:** Grant
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.9 **OM (%)** 1.9 **P (ppm)** 26 **K (ppm)** 118

Plot Management

Tillage Operations: Disk Cultimulcher Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	160	N/A
Starter	10-34-0	3.0 gal/A	5 /4 /09
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Lumax 3 qt/A **Insecticide:**
Irrigation: None

Planting Date: 5/4/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/21/09 **Harvest Method:** New Holland 707 Plot Chopper

Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.28 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32133 plants per acre

Hybrids:

299582	890349	902460
887140	899867	902509
889619	900246	902575
889643	901038	902998
889785	901040	902999

Results: Table C-09.

**Table C-09. BASF Hybrid Corn Silage Evaluation Study.
Lancaster, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	7.5	54.2	6.3	24.0	44.7	74.0	41.8	30.9	2732	20292
BASF 887140	8.3	59.8	6.9	23.2	42.6	76.0	43.6	32.6	2865	23773
BASF 889619	8.8	66.2	5.5	25.9	46.2	72.4	40.4	28.8	2621	23195
BASF 889643	9.3	68.7	5.2	25.1	46.2	75.4	46.7	27.5	2796	26013
BASF 889785	9.0	68.5	5.6	24.7	45.7	76.5	48.7	28.1	2842	25643
BASF 890349	9.1	65.8	6.3	25.2	45.7	75.7	47.0	28.8	2818	25620
BASF 899867	7.8	60.3	5.8	25.4	46.0	74.9	45.5	29.9	2772	21610
BASF 900246	8.9	65.5	5.6	26.7	47.3	71.8	40.3	28.3	2583	23053
BASF 901038	8.6	51.4	6.8	24.0	46.0	74.6	44.7	30.0	2750	23616
BASF 901040	8.6	67.6	5.5	23.9	44.0	75.7	44.8	30.5	2839	24511
BASF 902460	9.1	66.8	5.5	23.3	43.8	77.4	48.4	29.6	2928	26639
BASF 902509	9.1	61.0	6.3	23.1	43.8	76.2	45.6	30.6	2866	26177
BASF 902575	8.6	65.0	6.4	25.4	46.5	74.4	45.1	26.8	2718	23337
BASF 902998	7.5	59.4	7.0	22.9	45.7	78.9	53.9	28.1	2987	22421
BASF 902999	7.0	61.8	7.0	25.1	48.4	77.9	54.3	23.9	2890	20227
Mean	8.5	62.8	6.1	24.5	45.5	75.5	46.1	28.9	2801	23742
<u>Probability (%)</u>										
Hybrid	3.8	0.0	0.1	36.6	51.3	1.0	0.0	16.4	5.9	16.9
<u>LSD (0.10)</u>										
Hybrid	1.2	5.1	0.7	NS	NS	2.8	3.5	NS	186	NS

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3258 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
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:** 10/25/09 **pH** 6.5 **OM (%)** 3.4 **P (ppm)** 29 **K (ppm)** 97

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	120	N/A
Starter	10-34-0	3.0 gal/A	5 /20/09
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Lumax 6.6 pt/A **Insecticide:**
Irrigation: None

Planting Date: 5/20/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/30/09 **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:** 0.24 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 33256 plants per acre

Hybrids:

299582	890349	902460
887140	899867	902509
889619	900246	902575
889643	901038	902998
889785	901040	902999

Results: Table C-10.

**Table C-10. BASF Hybrid Corn Silage Evaluation Study.
Fond du Lac, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	8.6	66.3	5.6	22.4	43.1	78.4	50.0	30.7	3024	26248
BASF 887140	8.5	64.0	4.5	22.2	41.8	79.6	51.2	31.2	3019	25738
BASF 889619	8.3	69.6	3.4	26.7	49.4	74.0	47.4	20.6	2302	19326
BASF 889643	9.1	69.2	4.6	24.2	46.4	76.0	48.3	26.2	2736	24880
BASF 889785	7.3	68.6	4.5	26.0	47.9	75.9	49.6	23.4	2605	18621
BASF 890349	5.5	65.3	4.8	24.7	46.7	76.6	49.9	27.0	2836	15836
BASF 899867	8.6	66.3	5.0	24.6	45.7	77.5	50.8	26.6	2844	24369
BASF 900246	8.3	68.8	4.0	26.0	48.1	73.7	45.4	25.7	2651	22138
BASF 901038	7.3	67.0	3.6	23.7	45.5	78.3	52.4	27.3	2820	20536
BASF 901040	7.8	70.5	3.9	26.8	49.1	73.5	46.1	23.1	2494	19445
BASF 902460	9.1	68.0	4.6	24.1	45.7	75.4	46.2	26.2	2671	24287
BASF 902509	8.4	64.6	4.7	23.1	44.0	77.9	49.6	28.3	2853	23978
BASF 902575	8.3	66.6	4.1	23.7	44.7	77.5	49.7	26.8	2725	22718
BASF 902998	6.2	71.5	4.6	26.2	49.9	79.6	59.2	20.0	2682	16795
BASF 902999	7.4	70.6	4.3	23.8	46.8	81.4	60.3	22.4	2736	20120
Mean	7.9	67.8	4.4	24.5	46.3	77.0	50.4	25.7	2733	21669
<u>Probability (%)</u>										
Hybrid	0.2	0.0	0.7	0.8	1.6	0.0	0.0	0.6	0.6	0.3
<u>LSD (0.10)</u>										
Hybrid	1.3	2.1	0.8	2.1	3.5	2.4	3.3	4.5	260	4275

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3259 **Year:** 2009
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Galesville, WI **County:** Trempealeau
Supported By: BASF Plant Science

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 5.9 **OM (%)** 3.5 **P (ppm)** 52 **K (ppm)** 215

Plot Management

Tillage Operations: Fall Zone

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	35	N/A
Starter	10-34-0	3.0 gal/A	5 /5 /09
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Cinch 2.0 pt/A
Callisto 3.0 oz/A

Insecticide:

Irrigation: None

Planting Date: 5/5/09 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/16/09 **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: 0.24 A
Harvest Plot Size: 23' x 2.5'	Harvest Plant Density: 32859 plants per acre

Hybrids:

299582	890349	902460
887140	899867	902509
889619	900246	902575
889643	901038	902998
889785	901040	902999

Results: Table C-11.

**Table C-11. BASF Hybrid Corn Silage Evaluation Study.
Galesville, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	9.9	74.0	7.6	27.4	50.2	74.5	49.3	24.5	2746	27419
BASF 887140	9.8	72.9	8.0	26.8	48.6	75.5	49.6	26.3	2816	27603
BASF 889619	13.1	73.6	7.3	27.6	50.2	73.7	47.6	22.6	2702	35318
BASF 889643	8.0	76.6	7.7	27.9	51.7	74.3	50.3	21.3	2712	21589
BASF 889785	11.1	73.8	6.5	28.7	51.5	73.4	48.3	22.9	2671	29755
BASF 890349	9.7	70.7	6.9	26.8	49.9	76.1	52.2	24.7	2837	27506
BASF 899867	9.7	74.3	8.0	28.0	50.9	75.0	50.8	23.0	2758	26648
BASF 900246	11.3	73.2	6.9	28.9	52.6	73.2	49.0	21.9	2649	29859
BASF 901038	11.4	73.1	8.2	27.2	50.7	75.9	52.5	23.2	2811	32054
BASF 901040	10.5	75.2	6.8	29.9	52.7	71.3	45.7	20.6	2549	26768
BASF 902460	10.2	76.0	8.4	27.7	50.2	74.5	49.2	23.3	2738	27910
BASF 902509	9.5	72.8	8.2	26.8	49.8	74.8	49.5	24.2	2764	26222
BASF 902575	10.9	73.1	7.4	27.3	49.6	75.2	50.1	23.6	2791	30532
BASF 902998	9.8	74.8	7.1	27.0	51.6	80.2	61.5	18.6	2905	28384
BASF 902999	7.7	77.6	8.4	28.5	53.7	78.9	60.7	18.9	2918	22464
Mean	10.2	74.1	7.6	27.8	50.9	75.1	51.1	22.6	2758	28002
<u>Probability (%)</u>										
Hybrid	0.0	0.0	0.0	62.7	40.9	0.0	0.0	3.6	3.5	1.0
<u>LSD (0.10)</u>										
Hybrid	1.5	2.0	0.6	NS	NS	2.3	2.5	3.4	156	4924

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3257 **Year:** 2009
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:** 10/25/09 **pH** 6.4 **OM (%)** 1.7 **P (ppm)** 37 **K (ppm)** 108

Plot Management

Tillage Operations: Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	120	N/A
Starter	10-34-0	3.0 gal/A	4 /29/09
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Harness 1.6 pt/A
 Hornet 3.0 oz/A **Insecticide:**

Irrigation: None

Planting Date: 4/29/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/17/09 **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:** 0.21 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32385 plants per acre

Hybrids:

299582	890349	902509
554724	890351	902575
887140	899867	902687
888776	900246	902996
889619	901038	902998
889643		

Results: Table C-12.

**Table C-12. BASF Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	7.9	71.0	6.4	27.4	49.6	75.0	49.5	21.9	2699	21234
BASF 554724	8.1	63.7	5.7	23.3	44.3	78.2	50.7	27.5	2948	24069
BASF 887140	8.8	68.8	5.9	25.0	46.1	78.6	53.5	24.7	2878	25254
BASF 888776	7.3	66.6	5.7	23.1	43.7	79.3	52.8	29.2	3067	22343
BASF 889619	9.9	70.9	5.5	28.5	51.3	74.0	49.3	17.9	2424	23991
BASF 889643	8.7	69.2	5.8	25.1	48.5	76.5	51.5	22.6	2759	23960
BASF 890349	8.6	66.7	6.2	23.9	45.7	78.6	53.1	26.5	2971	25704
BASF 890351	6.9	68.4	6.2	23.7	46.5	81.8	60.8	23.8	3028	20909
BASF 899867	9.6	68.2	6.4	26.2	49.4	76.2	51.8	22.0	2802	26936
BASF 900246	9.3	69.0	5.8	28.8	51.9	73.5	48.9	19.9	2600	24405
BASF 901038	7.9	67.2	5.6	24.0	46.8	78.2	53.3	24.1	2838	22608
BASF 902509	9.6	64.9	6.1	23.9	45.5	77.8	51.2	26.1	2914	28120
BASF 902575	8.5	68.2	5.9	25.6	48.1	78.5	55.3	19.5	2598	22248
BASF 902687	8.7	63.5	6.3	23.3	45.5	79.0	54.0	26.5	3016	26121
BASF 902996	8.8	65.8	6.0	23.6	44.8	78.8	52.6	26.1	2923	25770
BASF 902998	9.0	70.8	6.6	23.6	45.9	81.9	60.6	24.8	3070	27576
Mean	8.6	67.7	6.0	25.0	47.1	77.9	53.1	23.9	2846	24453
<u>Probability (%)</u>										
Hybrid	0.1	0.0	35.3	0.0	0.4	0.0	0.0	0.4	0.0	11.0
<u>LSD (0.10)</u>										
Hybrid	1.0	2.5	NS	2.2	3.4	2.1	2.6	4.2	207	4062

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3263 **Year:** 2009
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:** Soybean **Soil Type:** Loyal Silt Loam
Soil Test: **Date:** 10/25/09 **pH** 6.7 **OM (%)** 3.4 **P (ppm)** 78 **K (ppm)** 196

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	90	N/A
Starter	10-34-0	3.0 gal/A	5 /7 /09
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Gmax Lite 2.33 pt/A
 Hornet 2.4 oz/A **Insecticide:**

Irrigation: None

Planting Date: 5/7/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/29/09 **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:** 0.21 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32499 plants per acre

Hybrids:

299582	890349	902509
554724	890351	902575
887140	899867	902687
888776	900246	902996
889619	901038	902998
889643		

Results: Table C-13.

**Table C-13. BASF Hybrid Corn Silage Evaluation Study.
Marshfield, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	10.1	70.1	6.7	25.2	47.1	77.7	52.8	24.0	2933	29745
BASF 554724	9.9	68.4	6.7	24.1	46.2	79.2	55.1	24.7	3006	29888
BASF 887140	9.9	70.7	6.7	25.6	47.5	77.9	53.4	23.7	2940	29496
BASF 888776	8.4	70.2	6.3	23.7	45.4	80.1	56.2	26.6	3117	26294
BASF 889619	10.6	72.7	5.8	28.3	51.4	76.0	53.4	19.1	2677	28393
BASF 889643	10.7	71.8	6.5	25.5	48.4	78.4	55.2	22.1	2894	30970
BASF 890349	8.0	72.1	6.4	25.8	48.8	77.6	54.0	23.2	2953	23453
BASF 890351	7.8	73.1	7.1	24.2	47.6	83.8	66.0	20.5	3044	23882
BASF 899867	10.3	71.3	6.4	26.8	50.0	77.5	54.9	20.8	2842	29204
BASF 900246	10.0	72.5	6.0	28.3	51.5	75.2	51.8	19.4	2687	26988
BASF 901038	10.0	71.8	6.5	25.8	48.5	77.8	54.1	22.6	2902	29005
BASF 902509	9.9	71.6	6.8	25.6	48.4	78.1	54.7	20.6	2778	27547
BASF 902575	10.7	71.4	6.1	26.0	47.9	77.8	53.7	22.5	2826	30270
BASF 902687	9.1	71.9	7.1	25.4	48.3	78.9	56.4	22.7	3009	27560
BASF 902996	10.3	69.3	6.7	22.8	44.6	80.1	55.3	25.2	2991	30805
BASF 902998	7.6	75.9	6.8	27.8	52.9	80.7	63.5	16.5	2903	22093
Mean	9.6	71.6	6.5	25.7	48.4	78.5	55.6	22.1	2907	27850
<u>Probability (%)</u>										
Hybrid	0.3	7.6	22.3	5.0	7.9	0.0	0.0	2.7	0.4	15.9
<u>LSD (0.10)</u>										
Hybrid	1.4	3.0	NS	2.6	3.9	1.9	1.7	4.1	169	5268

FIELD EXPERIMENT HISTORY

Title: BASF Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 3262 **Year:** 2009
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:** Kewaunee Clay Loam
Soil Test: **Date:** 10/25/09 **pH** 7.9 **OM (%)** 2.8 **P (ppm)** 52 **K (ppm)** 121

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	63	N/A
Starter	10-34-0	3.0 gal/A	5 /18/09
Post plant	46-0-0	50	6 /24/09
Manure:	Dairy	12000 gallons	

Herbicide: Callisto 2.0 oz/A
 Atrazine 0.5 lb/A
 Steadfast 0.5 oz/A
 SureStart 1.2 pt/A

Insecticide:

Irrigation: None

Planting Date: 5/18/09 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/22/09 **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:** 0.21 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 31565 plants per acre

Hybrids:

299582	890349	902509
554724	890351	902575
887140	899867	902687
888776	900246	902996
889619	901038	902998
889643		

Results: Table C-14.

**Table C-14. BASF Hybrid Corn Silage Evaluation Study.
Valders, WI - 2009.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
BASF 299582	8.7	71.0	7.3	24.7	46.7	77.7	52.4	25.4	2997	25910
BASF 554724	7.3	68.9	7.6	25.1	48.2	76.6	51.4	24.0	2921	21477
BASF 887140	7.7	68.8	7.8	25.0	47.1	77.2	51.7	24.8	2966	22727
BASF 888776	9.3	67.5	6.5	23.7	45.0	78.8	52.9	27.3	3059	28577
BASF 889619	9.3	71.1	6.6	27.3	50.2	75.7	51.6	19.4	2644	24499
BASF 889643	8.7	71.6	6.9	26.6	49.8	77.4	54.6	20.5	2825	24595
BASF 890349	9.0	69.4	6.5	25.3	47.8	77.7	53.4	23.9	2918	26063
BASF 890351	7.1	72.2	7.5	26.1	48.9	81.5	62.2	21.6	3119	22308
BASF 899867	9.1	70.1	7.2	25.2	47.2	78.1	53.7	24.3	3003	27317
BASF 900246	8.7	69.2	6.6	24.4	46.1	77.9	52.1	24.7	2906	25228
BASF 901038	8.0	70.8	7.6	24.1	46.0	78.7	54.0	24.3	2984	24073
BASF 902509	7.8	70.0	7.4	24.3	46.4	78.1	52.8	24.1	2937	22788
BASF 902575	8.9	71.5	7.3	26.3	48.5	77.6	53.8	21.8	2879	25646
BASF 902687	8.1	65.4	7.7	21.9	43.4	80.8	55.6	29.7	3198	25731
BASF 902996	8.0	67.5	8.2	25.5	48.0	77.4	52.8	23.6	2963	23707
BASF 902998	7.8	72.3	7.1	26.6	50.0	81.0	62.0	18.9	2922	22752
Mean	8.3	69.8	7.2	25.1	47.5	78.3	54.2	23.6	2953	24587
<u>Probability (%)</u>										
Hybrid	6.2	6.8	0.0	11.3	15.4	0.4	0.0	0.3	0.1	29.3
<u>LSD (0.10)</u>										
Hybrid	1.2	3.3	0.5	NS	NS	2.2	2.4	3.7	153	NS