

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2988 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: 408 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.0 **OM (%)** 3.3 **P (ppm)** 43 **K (ppm)** 137

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Soil Finisher Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150	N/A
Starter	9-23-30	150	4 /30/07
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Harness 29 oz/A **Insecticide:** Force 3G 4.4 lb/A
 Callisto 3.0 oz/A

Irrigation: None

Planting Date: 4/30/07 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/5/07 **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: 22' x 2.5' **Harvest Plant Density:** 31720 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
S510	S610
S512	S611
S513	S708
S514	S709

Results: Table C-11.

**Table C-11. AgReliant Hybrid Corn Silage Evaluation Study.
Arlington, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	9.3	59.2	7.7	24.4	44.7	78.6	52.3	33.5	3050	28177
AgReliant S512	7.8	66.8	7.3	26.0	47.9	76.8	51.6	30.3	2914	22673
AgReliant S513	8.8	59.6	7.2	25.4	46.7	78.4	53.6	31.7	3014	26431
AgReliant S514	8.9	61.3	7.4	24.4	45.8	77.9	51.9	31.4	3000	26575
AgReliant S610	9.6	62.0	6.4	24.7	45.4	77.8	51.2	33.7	3002	28825
AgReliant S611	9.2	67.8	8.0	26.4	48.2	78.2	54.9	29.5	2986	27410
AgReliant S708	9.9	61.5	7.1	27.9	49.3	75.0	49.4	29.2	2802	27937
AgReliant S709	9.2	68.5	7.7	24.8	45.8	78.8	53.8	32.5	3046	28000
Mean	9.1	63.3	7.3	25.5	46.7	77.7	52.3	31.5	2977	27003
Probability (%)										
Hybrid	21.0	0.2	0.0	59.7	66.3	43.2	3.7	63.4	53.1	55.5
LSD (0.10)										
Hybrid	NS	3.8	0.4	NS	NS	NS	2.5	NS	NS	NS
CV (%)										
Hybrid	10	4	4	9	7	3	3	11	5	13

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2989 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Lancaster, WI **County:** Grant
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.0 **OM (%)** 2.0 **P (ppm)** 20 **K (ppm)** 75

Plot Management

Tillage Operations: Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	160	N/A
Starter	9-23-30	150	5 /3 /07
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Dual II 2.0 pt/A **Insecticide:** Force 3G 4.4 lbs/A
Accent 0.67 oz/A
Callisto 6.0 oz/A
Aatrex 4L 0.7 qt./A

Irrigation: None

Planting Date: 5/3/07 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/4/07 **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: 22' x 2.5' **Harvest Plant Density:** 30806 plants per acre
Factors/Treatments:

<u>Hybrid</u>	
S510	S610
S512	S611
S513	S708
S514	S709

Results: Table C-12.

**Table C-12. AgReliant Hybrid Corn Silage Evaluation Study.
Lancaster, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	8.0	52.2	6.8	26.3	48.4	76.3	51.2	30.7	2867	23044
AgReliant S512	8.2	54.8	6.3	24.4	45.3	78.5	52.5	33.8	3019	24730
AgReliant S513	8.3	57.9	6.7	25.1	45.4	78.3	52.1	33.6	3005	25089
AgReliant S514	8.7	60.1	6.6	23.9	44.2	78.6	51.7	34.0	3041	26359
AgReliant S610	9.0	55.0	5.6	24.2	45.5	77.7	50.9	34.5	2978	26771
AgReliant S611	9.1	63.5	6.7	24.2	44.4	78.3	51.1	34.3	3017	27538
AgReliant S708	9.7	54.4	6.1	25.0	45.0	76.0	46.5	35.4	2886	28138
AgReliant S709	8.8	65.1	6.5	25.4	46.5	76.1	48.5	32.8	2875	25177
Mean	8.7	57.9	6.4	24.8	45.6	77.5	50.6	33.6	2961	25889
Probability (%)										
Hybrid	42.3	0.8	41.2	67.7	46.0	12.1	0.1	70.2	21.8	52.9
LSD (0.10)										
Hybrid	NS	5.4	NS	NS	NS	NS	2.0	NS	NS	NS
CV (%)										
	11	6	10	7	5	2	3	9	3	12

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2990 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.3 **OM (%)** 2.9 **P (ppm)** 19 **K (ppm)** 74

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	9-23-30	150	5 /8 /07
Post plant	28-0-0	120	N/A
Manure:		N/A	N/A

Herbicide: Cinch 0.8 oz/A **Insecticide:** None
 Atrazine 0.5 oz/A
 Accent Gold 3.5 oz/A
 Callisto 1.5 oz/A

Irrigation: None

Planting Date: 5/8/07 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/12/07 **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:** 0.17 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31303 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
S510	S706
S608	S707
S704	S719
S705	

Results: Table C-13.

**Table C-13. AgReliant Hybrid Corn Silage Evaluation Study.
Fond du Lac, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	9.0	62.8	5.9	23.4	43.1	78.9	50.9	36.4	3089	27898
AgReliant S608	9.5	58.7	6.2	21.7	41.6	79.5	50.7	38.4	3138	29878
AgReliant S704	9.3	63.0	5.7	24.3	45.0	78.8	52.9	34.4	3066	28382
AgReliant S705	9.7	63.5	6.0	24.3	44.6	78.7	52.4	34.4	3066	29674
AgReliant S706	9.8	66.0	5.9	24.0	44.4	79.4	53.6	35.6	3104	30324
AgReliant S707	9.3	66.6	5.9	25.4	46.1	78.5	53.4	33.2	3038	28335
AgReliant S719	8.5	64.0	5.7	23.6	43.8	80.0	54.4	36.1	3147	26845
Mean	9.3	63.5	5.9	23.8	44.1	79.1	52.6	35.5	3092	28762
<u>Probability (%)</u>										
Hybrid	43.9	0.2	80.6	33.6	42.2	88.6	4.0	18.9	86.1	80.7
<u>LSD (0.10)</u>										
Hybrid	NS	2.4	NS	NS	NS	NS	1.9	NS	NS	NS
<u>CV (%)</u>										
	8	3	7	7	5	2	3	6	4	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2991 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Galesville, WI **County:** Trempealeau
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 6.4 **OM (%)** 3.0 **P (ppm)** 31 **K (ppm)** 113

Plot Management

Tillage Operations: Fall Zone

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-23-30	150	5 /2 /07
Post plant	28-0-0	120	N/A
Manure:		N/A	N/A

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

Irrigation: None

Planting Date: 5/2/07 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/5/07 **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:** 0.17 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31259 plants per acre

Factors/Treatments:

Hybrid

S510	S706
S608	S707
S704	S719
S705	

Results: Table C-14.

**Table C-14. AgReliant Hybrid Corn Silage Evaluation Study.
Galesville, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	9.4	61.7	7.5	23.6	45.0	78.0	51.1	34.8	2983	27992
AgReliant S608	10.1	57.1	7.3	23.9	46.0	77.0	49.9	34.1	2920	29341
AgReliant S704	9.7	59.8	6.7	25.4	46.0	76.5	49.0	34.3	2898	28198
AgReliant S705	10.0	62.7	7.2	25.4	46.8	77.2	51.2	32.2	2919	29298
AgReliant S706	9.1	66.5	6.5	26.4	47.6	75.8	49.1	32.5	2837	25889
AgReliant S707	10.2	59.9	6.6	22.5	42.3	78.3	48.7	37.1	3038	30971
AgReliant S719	7.4	64.8	6.6	26.2	47.5	76.4	50.2	32.0	2872	21391
Mean	9.4	61.8	6.9	24.8	45.9	77.0	49.9	33.9	2924	27583
<u>Probability (%)</u>										
Hybrid	15.3	16.3	0.7	14.8	13.6	45.0	81.3	18.8	32.6	15.1
<u>LSD (0.10)</u>										
Hybrid	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS
<u>CV (%)</u>										
	13	6	4	7	5	2	5	7	4	14

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2992 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 7.0 **OM (%)** 1.3 **P (ppm)** 14 **K (ppm)** 54

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	9-23-30	150	5 /2 /07
Post plant	28-0-0	150	N/A
Manure:		N/A	N/A

Herbicide: Harness 1.6 pt/A
 Hornet 3.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/2/07 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 8/30/07 **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:** 0.06 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 30635 plants per acre

Factors/Treatments:

Hybrid

S601	S702
S602	S703
S603	S720
S701	

Results: Table C-15.

**Table C-15. AgReliant Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI 2007.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S601	2.1	74.2	9.8	28.8	56.4	73.5	53.0	6.8	2198	4681
AgReliant S602	2.5	70.9	10.4	28.3	54.1	74.0	51.7	10.1	2360	5747
AgReliant S603	2.5	73.5	10.6	27.3	51.6	74.2	49.9	18.7	2741	6738
AgReliant S701	2.0	73.2	10.6	28.2	56.1	75.4	56.1	10.2	2608	5169
AgReliant S702	1.8	74.4	11.9	28.1	56.3	76.6	58.3	0.7	2015	3536
AgReliant S703	2.0	76.2	11.5	27.7	56.9	75.4	56.7	7.1	2477	4882
AgReliant S720	2.2	72.6	10.9	26.3	52.5	74.7	51.9	12.5	2529	5600
Mean	2.1	73.6	10.8	27.8	54.8	74.8	53.9	9.4	2418	5193
<u>Probability (%)</u>										
Hybrid	17.1	12.6	29.0	69.5	17.6	27.1	7.3	0.9	3.7	2.3
<u>LSD (0.10)</u>										
Hybrid	NS	NS	NS	NS	NS	NS	4.8	6.3	344	1285
<u>CV (%)</u>										
	15	3	9	6	5	2	6	46	10	17

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2993 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Marshfield, WI **County:** Wood
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Loyal Silt Loam
Soil Test: **Date:** 11/01/07 **pH:** 6.4 **OM (%)** 3.3 **P (ppm)** 75 **K (ppm)** 220

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-23-30	150	5 /10/07
Post plant	28-0-0	82	
Manure:		N/A	N/A

Herbicide: Hornet 2.4 oz/A **Insecticide:** None
 Atrazine 1.0 qt/A
 Outlook 14 oz/A

Irrigation: None

Planting Date: 5/10/07 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/13/07 **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:** 0.06 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31185 plants per acre
Factors/Treatments:

<u>Hybrid</u>	
S601	S702
S602	S703
S603	S720
S701	

Results: Table C-16.

**Table C-16. AgReliant Hybrid Corn Silage Evaluation Study.
Marshfield, WI 2007.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S601	7.2	71.2	8.1	24.9	46.9	79.8	56.9	29.1	3128	22425
AgReliant S602	7.6	67.8	7.3	22.0	43.1	81.7	57.5	34.8	3272	25033
AgReliant S603	7.6	69.6	7.4	23.2	44.4	79.7	54.2	33.0	3148	24030
AgReliant S701	7.4	68.9	7.7	24.9	47.1	79.4	56.3	31.5	3108	23203
AgReliant S702	7.9	72.1	7.5	24.4	45.8	80.1	56.3	31.7	3156	25011
AgReliant S703	6.3	72.6	7.2	26.4	49.3	78.6	56.5	28.1	3040	19012
AgReliant S720	7.6	68.7	7.2	24.4	46.1	78.8	54.1	31.5	3087	23588
Mean	7.4	70.1	7.5	24.3	46.1	79.7	56.0	31.4	3134	23186
<u>Probability (%)</u>										
Hybrid	13.9	0.2	5.8	15.6	16.2	31.9	47.4	12.0	25.9	18.5
<u>LSD (0.10)</u>										
Hybrid	NS	1.7	0.5	NS	NS	NS	NS	NS	NS	NS
<u>CV (%)</u>										
Hybrid	9	2	4	7	5	2	4	9	3	12

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2994 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 11/01/07 **pH:** 6.9 **OM (%)** 2.8 **P (ppm)** 38 **K (ppm)** 88

Plot Management

Tillage Operations: Fall Chisel Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-23-30	150	5 /7 /07
Post plant	34-0-0	150	6 /18/07
Manure:	Dairy	12400 gal/A	

Herbicide: Acetochlor 0.75 pt/A **Insecticide:** Force 3G 4.4 lb/A
 Stout 0.5 oz/A
 Impact 0.5 oz/A
 Atrazine 0.25 lb/A

Irrigation: None

Planting Date: 5/7/07 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/11/07 **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:** 0.06 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31523 plants per acre
Factors/Treatments:

<u>Hybrid</u>	
S601	S702
S602	S703
S603	S720
S701	

Results: Table C-17.

**Table C-17. AgReliant Hybrid Corn Silage Evaluation Study.
Valders, WI 2007.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S601	5.4	57.6	6.9	19.5	39.9	83.1	57.6	37.6	3396	18441
AgReliant S602	5.8	59.5	6.5	19.6	39.5	83.4	57.8	38.0	3418	19684
AgReliant S603	7.2	64.1	7.0	20.3	40.8	82.8	57.9	36.9	3371	24315
AgReliant S701	5.6	62.5	7.3	19.9	40.0	82.6	56.6	37.7	3367	18988
AgReliant S702	6.4	65.7	6.8	20.7	40.7	82.7	57.6	36.6	3371	21572
AgReliant S703	5.4	62.6	6.6	19.9	40.9	83.0	58.4	36.7	3384	18324
AgReliant S720	8.1	63.3	6.6	21.5	43.1	81.3	56.5	34.5	3267	26322
Mean	6.3	62.2	6.8	20.2	40.7	82.7	57.5	36.9	3368	21092
<u>Probability (%)</u>										
Hybrid	0.0	9.7	34.9	61.4	56.1	56.2	69.2	68.2	54.8	0.0
<u>LSD (0.10)</u>										
Hybrid	0.5	4.5	NS	NS	NS	NS	NS	NS	NS	2040
<u>CV (%)</u>										
	5	5	6	7	6	2	3	7	3	7