

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3102 **Year:** 2008
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: ARS407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/4 /08 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 41 **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	46-0-0	138	N/A
Starter	10-34-0	3.0 gal/A	5 /9 /08
Post plant	46-0-0	50	6 /17/08
Manure:		N/A	N/A

Herbicide: Dual II Mag 24 oz/A
 Hornet 4 oz/A
 Accent 0.33 oz/A

Insecticide: Force 3G 4.4 lb/A

Irrigation: None

Planting Date: 5/9/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/18/08 **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:** 31900 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
S510	S823
S709	S824
S817	S825
S818	S826
S822	

Results: Table C-05.

**Table C-05. AgReliant Hybrid Corn Silage Evaluation Study.
Arlington, WI - 2008.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	7.9	68.5	7.6	24.8	46.3	77.9	52.4	30.4	3008	23912
AgReliant S709	9.3	69.9	7.7	25.5	47.9	78.2	54.4	28.6	3005	27826
AgReliant S817	9.7	66.7	7.1	23.9	44.6	79.7	54.4	31.3	3122	30425
AgReliant S818	11.3	66.2	6.6	25.8	47.0	77.0	51.0	32.0	2951	33399
AgReliant S822	10.2	71.8	7.6	27.7	49.5	77.2	53.9	26.9	2934	30007
AgReliant S823	10.0	72.0	7.6	26.5	48.6	77.9	54.5	27.5	2982	29967
AgReliant S824	9.5	69.6	7.8	25.5	47.6	76.9	51.5	28.4	2938	28030
AgReliant S825	10.5	68.8	7.4	25.2	47.1	79.0	55.5	27.4	3058	32321
AgReliant S826	10.0	67.8	7.3	25.8	47.8	78.5	55.1	29.6	3025	30173
Mean	9.8	69.0	7.4	25.6	47.4	78.0	53.6	29.1	3003	29562
<u>Probability (%)</u>										
Hybrid	11.8	0.1	0.2	49.3	65.6	47.8	3.4	39.3	58.0	31.4
<u>LSD (0.10)</u>										
Hybrid	NS	1.9	0.4	NS	NS	NS	2.4	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3104 **Year:** 2008
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:** 10/20/08 **pH:** 7.4 **OM (%)** 2.0 **P (ppm)** 26 **K (ppm)** 78

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	10-34-0	3.0 gal/A	5 /15/08
Post plant	N/A	N/A	N/A
Manure:		N/A	N/A

Herbicide: Dual II 2.0 pt/A
 Accent 0.67 oz/A
 Callisto 6.0 oz/A
 Aatrex 4L 0.7 qt./A

Insecticide: Force 3G 4.4 lbs/A

Irrigation: None

Planting Date: 5/15/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/15/08 **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:** 30900 plants per acre

Factors/Treatments:

Hybrid

S510	S823
S709	S824
S817	S825
S818	S826
S822	

Results: Table C-06.

**Table C-06. AgReliant Hybrid Corn Silage Evaluation Study.
Lancaster, WI - 2008.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	8.1	66.5	6.8	24.2	45.6	79.5	55.0	34.3	3110	25237
AgReliant S709	8.5	70.7	6.5	25.5	48.5	78.0	54.5	31.4	2998	25529
AgReliant S817	9.4	66.3	6.9	24.2	45.4	78.5	52.6	33.3	3057	28676
AgReliant S818	9.8	65.7	6.6	24.6	46.0	79.0	54.3	32.2	3080	30312
AgReliant S822	8.3	72.9	6.3	27.7	50.6	76.7	54.1	29.8	2911	24173
AgReliant S823	9.2	72.3	6.8	27.6	51.0	77.2	55.3	27.4	2930	27083
AgReliant S824	8.0	71.1	6.7	27.8	51.7	75.9	53.3	27.6	2854	22970
AgReliant S825	9.8	66.2	6.9	25.1	46.5	79.0	54.9	32.2	3077	30152
AgReliant S826	9.9	68.8	7.2	24.7	46.1	79.1	54.7	32.3	3085	30519
Mean	9.0	68.9	6.7	25.7	47.9	78.1	54.3	31.2	3011	27183
<u>Probability (%)</u>										
Hybrid	2.7	0.0	56.9	0.3	0.1	0.6	65.8	9.7	0.2	1.3
<u>LSD (0.10)</u>										
Hybrid	1.1	2.1	NS	1.7	2.6	1.5	NS	4.1	98	3682

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3107 **Year:** 2008
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:** 10/23/08 **pH:** 6.7 **OM (%)** 4.6 **P (ppm)** 17 **K (ppm)** 95

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		10-34-0	3.0 gal/A	5 /8 /08
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: 5/8/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/23/08 **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:** 32600 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
S510	S816
S707	S819
S814	S820
S815	S821

Results: Table C-07.

**Table C-07. AgReliant Hybrid Corn Silage Evaluation Study.
Fond du Lac, WI - 2008.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	8.4	60.2	5.5	24.3	45.8	78.4	52.8	32.1	3042	25568
AgReliant S707	6.6	62.2	5.3	23.4	45.2	80.3	56.3	31.8	3151	20667
AgReliant S814	8.4	57.6	6.0	22.5	43.2	78.3	49.9	36.0	3063	26099
AgReliant S815	8.6	58.2	5.5	23.4	45.0	79.2	53.7	34.7	3092	26726
AgReliant S816	7.7	51.2	5.8	21.3	42.2	80.2	52.9	37.9	3178	24155
AgReliant S819	9.7	58.4	5.5	23.4	44.7	79.5	54.2	33.8	3113	30202
AgReliant S820	8.6	60.7	5.4	24.0	45.4	78.7	53.0	33.5	3063	26473
AgReliant S821	8.6	62.7	5.6	23.5	43.8	79.0	52.0	34.4	3093	26596
Mean	8.3	58.9	5.6	23.2	44.4	79.2	53.1	34.3	3099	25811
<u>Probability (%)</u>										
Hybrid	2.1	0.1	36.7	84.9	92.8	85.5	5.7	63.9	93.6	13.4
<u>LSD (0.10)</u>										
Hybrid	1.2	3.3	NS	NS	NS	NS	2.8	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3105 **Year:** 2008
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:** 10/21/08 **pH:** 6.1 **OM (%)** 3.6 **P (ppm)** 22 **K (ppm)** 140

Plot Management

Tillage Operations: Fall Zone 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 /12/08
	Post plant	28-0-0	120	N/A
	Manure:		N/A	N/A

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

Irrigation: None

Planting Date: 5/12/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/17/08 **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:** 29300 plants per acre

Factors/Treatments:

Hybrid

S510	S816
S707	S819
S814	S820
S815	S821

Results: Table C-08.

**Table C-08. AgReliant Hybrid Corn Silage Evaluation Study.
Galesville, WI - 2008.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S510	6.9	72.0	8.0	26.3	49.4	77.7	55.0	26.6	2968	20380
AgReliant S707	6.4	70.2	7.3	27.2	51.2	77.5	56.1	20.4	2888	18670
AgReliant S814	8.0	68.0	7.0	25.1	47.8	77.8	53.5	29.1	2993	23926
AgReliant S815	8.9	69.5	6.7	24.9	47.1	78.6	54.4	30.0	3042	27006
AgReliant S816	8.3	64.4	6.9	22.9	45.3	78.9	53.3	33.3	3080	25790
AgReliant S819	9.5	67.5	6.9	25.0	47.3	78.9	55.4	30.4	3058	29176
AgReliant S820	8.8	69.8	6.7	25.3	48.1	77.9	54.0	28.5	2995	26415
AgReliant S821	8.0	71.8	7.5	27.7	50.6	75.2	51.0	25.2	2821	22508
Mean	8.1	69.1	7.1	25.6	48.4	77.8	54.1	27.9	2981	24234
<u>Probability (%)</u>										
Hybrid	1.7	0.4	3.2	11.6	24.4	6.6	6.3	0.4	4.1	1.8
<u>LSD (0.10)</u>										
Hybrid	1.3	2.7	0.6	NS	NS	1.9	2.4	4.2	128	4592

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3101 **Year:** 2008
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:** 10/21/08 **pH:** 6.5 **OM (%)** 2.2 **P (ppm)** 23 **K (ppm)** 162

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	10-34-0	3.0 gal/A	5 /7 /08
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: 5/7/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/16/08 **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:** 0.14 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 30635 plants per acre

Factors/Treatments:

<u>Hybrid</u>
S603
S811
S812
S813

Results: Table C-09.

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3106 **Year:** 2008
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:** 10/30/08 **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	10-34-0	3.0 gal/A	5 /19/08
Post plant	28-0-0	76	7 /1 /08
Manure:		N/A	N/A

Herbicide: G-MaxLite 2.33 pt/A
 Hornet 2.4 oz/A
 Atrazine 1.0 qt/A

Insecticide: None

Irrigation: None

Planting Date: 5/19/08 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/26/08 **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:** 0.14 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 30200 plants per acre
Factors/Treatments:

<u>Hybrid</u>
S603
S811
S812
S813

Results: Table C-10.

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3103 **Year:** 2008
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:** 9 /25/08 **pH:** 6.7 **OM (%)** 2.9 **P (ppm)** 41 **K (ppm)** 100

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		10-34-0	3.0 gal/A	5 /13/08
Post plant		34-0-0	150	6 /26/08
Manure:		Dairy	10 ton	

Herbicide: Callisto 2.0 oz/A
 Harness Xtra 1.5 pt/A
 Atrazine 0.5 lb/A
 Steadfast 0.5 oz/A

Insecticide: Force 3G 4.4 lb/A

Irrigation: None

Planting Date: 5/13/08 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/25/08 **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:** 0.14 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 30980 plants per acre

Factors/Treatments:

Hybrid

S603
 S811
 S812
 S813

Results: Table C-11.

