

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2616 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /05 **pH** 6.4 **OM (%)** 3.7 **P (ppm)** 66 **K (ppm)** 131

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Soil Finisher Cultivated

<b>Fertilizer:</b>		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	<b>Preplant</b>	46-0-0	325	N/A
	<b>Starter</b>	9-24-24	150	4 /28/05
	<b>Post plant</b>	N/A	N/A	N/A
	<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Outlook 20 oz/A  
 Hornet 4.0 oz/A  
 Callisto 3.0 oz/A

**Insecticide:** None

**Irrigation:** None

**Planting Date:** 4/28/05 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/14/05 **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:** 0.07 A

**Harvest Plot Size:** 22' x 2.5'

**Harvest Plant Density:** 30730 plants per acre

**Factors/Treatments:**

Hybrid

S510	S514
S511	S516
S512	S517
S513	S525

**Results:** Table C-13.

**Table C-13. AgReliant Hybrid Corn Silage Evaluation Study - Late.  
Arlington, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S510	9.3	54.6	52	6.6	19	38	82	54	40	3328	30828
S511	8.5	53.1	57	6.8	18	39	83	57	39	3412	28902
S512	9.1	54.4	57	6.4	19	40	83	56	39	3389	30740
S513	9.3	58.5	50	6.9	20	41	82	56	38	3439	32046
S514	6.9	58.1	50	6.5	23	45	80	55	32	3261	22653
S516	10.1	59.3	58	5.9	23	46	80	57	32	3334	33778
S517	8.7	57.9	47	6.4	20	42	81	54	36	3313	29079
S525	9.1	59.7	73	7.2	23	47	80	57	29	3327	30237
Mean	8.8	56.8	55	6.6	20	42	81	56	36	3351	29609
<b><u>Probability (%)</u></b>											
Genotype	33.5	16.8	0.6	0.4	7.0	5.3	5.9	28.8	9.2	22.6	32.0
<b><u>LSD (0.10)</u></b>											
Genotype	NS	NS	10	0.4	3.2	5.3	2.2	NS	6.7	NS	NS
<b><u>CV (%)</u></b>											
	16	6	12	4	10	8	2	3	12	2	17

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2617 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Lancaster, WI **County:** Grant  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Fayette Silt Loam  
**Soil Test:** **Date:** N/A **pH** 7.1 **OM (%)** **P (ppm)** 35 **K (ppm)** 62

### Plot Management

**Tillage Operations:** Disk Soil Finisher Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	392	N/A
<b>Starter</b>	9-24-24	150	4 /25/05
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Aatrex 4L 1.0 qt/A **Insecticide:** Force 4.4 lb/A  
 Harness 1.0 qt/A

**Irrigation:** None

**Planting Date:** 4/25/05 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/7/05 **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:** 0.07 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre

#### **Factors/Treatments:**

##### Hybrid

S510	S514
S511	S516
S512	S517
S513	S525

**Results: Table C-14.**

**Table C-14. AgReliant Hybrid Corn Silage Evaluation Study - Late.  
Lancaster, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S510	9.1	65.3	52	7.5	25	47	77	52	30	3218	29263
S511	9.8	61.2	53	6.9	23	44	79	51	34	3248	31863
S512	9.5	64.0	57	6.5	25	47	78	52	32	3240	30899
S513	10.1	64.4	53	7.0	23	44	79	51	35	3310	33429
S514	10.4	63.6	58	6.9	24	46	78	52	33	3260	34017
S516	10.2	64.5	67	6.7	24	47	77	51	31	3202	32699
S517	10.7	66.7	53	6.9	25	47	77	50	30	3155	33970
S525	9.9	64.4	77	6.9	29	54	75	52	22	3018	29864
Mean	10.0	64.3	59	6.9	25	47	77	52	31	3207	32001
<b><u>Probability (%)</u></b>											
Genotype	18.9	2.1	0.1	1.3	0.8	1.0	3.1	14.0	0.7	4.7	29.5
<b><u>LSD (0.10)</u></b>											
Genotype	NS	2.2	9	0.4	2.3	3.8	1.9	NS	4.7	136	NS
<b><u>CV (%)</u></b>											
	7	2	10	4	6	5	2	2	10	3	9

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2618 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Fond du Lac, WI **County:** Fond du Lac  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.9 **OM (%)** 3.6 **P (ppm)** 38 **K (ppm)** 127

### Plot Management

**Tillage Operations:** Field Cultivator Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	9-24-24	150	4-29-05
<b>Post plant</b>	28-0-0	429	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Basis 0.33 oz/A  
Lumax 2.5 qt/A **Insecticide:** None  
**Irrigation:** None

**Planting Date:** 4-29-05 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/8/05 **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:** 30492 plants per acre  
**Factors/Treatments:**

<u>Hybrid</u>	
S504	S509
S505	S510
S507	S511
S508	

**Results:** Table C-15.

**Table C-15. AgReliant Hybrid Corn Silage Evaluation Study - Mid.  
Fond du Lac, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S504	8.1	54.3	48	6.2	22	44	79	52	34	3115	25289
S505	7.9	57.9	48	6.6	22	43	80	54	37	3288	25881
S507	8.5	62.3	57	6.5	23	45	80	57	35	3429	29155
S508	8.6	58.9	63	6.4	20	40	82	56	39	3465	29800
S509	8.9	62.6	77	6.4	24	46	79	55	31	3325	29632
S510	8.3	64.0	70	6.3	25	49	79	57	29	3319	27469
S511	9.3	62.3	65	6.1	22	43	81	56	35	3457	32011
Mean	8.5	60.3	61	6.3	22	44	80	55	34	3343	28463
<b>Probability (%)</b>											
Genotype	27.9	0.6	2.5	96.0	4.6	4.1	11.0	7.6	0.9	1.9	11.8
<b>LSD (0.10)</b>											
Genotype	NS	3.9	15	NS	2.7	4.0	NS	2.6	4.2	161	NS
<b>CV (%)</b>											
	8	4	16	10	8	6	2	3	8	3	10

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID:** 2619 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Galesville, WI **County:** Trempealeau  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.1 **OM (%)** 3.8 **P (ppm)** 68 **K (ppm)** 229

### Plot Management

**Tillage Operations:** Fall Zone Builder Cultivated 6 /16/05  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	218	N/A
	21-0-0	238	N/A
<b>Starter</b>	9-24-24	150	5 /2 /05
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

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

**Irrigation:** None

**Planting Date:** 5/2/05 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/12/05 **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:** 31680 plants per acre

**Factors/Treatments:**

<u>Hybrid</u>	
S504	S509
S505	S510
S507	S511
S508	

**Results:** Table C-16.

**Table C-16. AgReliant Hybrid Corn Silage Evaluation Study - Mid. Galesville, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S504	7.4	57.1	43	7.9	23	46	78	53	31	3123	23229
S505	8.1	60.1	37	7.8	22	43	80	54	35	3326	27085
S507	10.0	62.3	43	7.3	21	43	82	57	35	3542	35286
S508	9.9	61.3	50	6.8	22	43	80	54	35	3387	33532
S509	9.8	66.8	50	7.8	22	43	79	52	35	3341	32770
S510	10.2	65.0	53	7.4	22	42	81	54	35	3424	35044
S511	9.6	63.2	52	6.7	23	45	80	55	33	3392	32468
Mean	9.3	62.3	47	7.4	22	44	80	54	34	3362	31345
<b>Probability (%)</b>											
Genotype	0.6	0.7	8.5	1.0	78.4	59.0	8.1	0.4	42.1	0.0	0.1
<b>LSD (0.10)</b>											
Genotype	1.2	3.7	10.0	0.6	NS	NS	1.9	1.7	NS	90	4252
<b>CV (%)</b>											
	8	4	14	5	8	6	2	2	8	2	9



## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2620 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**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:** 10/1 /04 **pH** 6.1 **OM (%)** 2.4 **P (ppm)** 47 **K (ppm)** 142

### Plot Management

**Tillage Operations:** Field Cultivator Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	28-0-0	535	N/A
<b>Starter</b>	9-24-24	150	5 /2 /05
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

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

**Irrigation:** None

**Planting Date:** 5/2/05 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 8/30/05 **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:** 0.05 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30413 plants per acre

**Factors/Treatments:**

<u>Hybrid</u>	
S501	S504
S502	S505
S503	S506

**Results:** Table C-17.

**Table C-17. AgReliant Hybrid Corn Silage Evaluation Study - Early.  
Chippewa Falls, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S501	5.5	64.9	90	7.5	26	50	78	56	26	3225	17691
S502	7.0	65.6	73	7.5	28	53	77	57	25	3199	22386
S503	7.0	64.7	65	6.7	27	53	78	58	27	3297	23212
S504	6.1	63.8	85	6.9	31	58	73	53	19	2844	17378
S505	6.9	65.5	70	7.4	27	51	77	54	27	3152	21625
S507	6.6	67.6	87	6.8	29	55	76	56	24	3118	20700
Mean	6.5	65.3	78	7.1	28	53	76	56	25	3139	20499
<b>Probability (%)</b>											
Genotype	18.8	23.2	19.9	14.5	7.0	10.8	1.0	0.3	20.0	0.6	7.9
<b>LSD (0.10)</b>											
Genotype	NS	NS	NS	NS	3.1	NS	2.2	1.9	NS	164	3925
<b>CV (%)</b>											
	12	3	17	6	7	6	2	2	15	3	12

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2621 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Marshfield, WI **County:** Wood  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** **Soil Type:** Loyal Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.7 **OM (%)** 3.4 **P (ppm)** 94 **K (ppm)** 212

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	9-24-24	150	5 /3 /05
<b>Post plant</b>	28-0-0	160	N/A
<b>Manure:</b>	Dairy	6832 gal/A	Fall

**Herbicide:** Lumax 2.25 qt/A **Insecticide:** None  
**Irrigation:** None

**Planting Date:** 5/3/05 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/20/05 **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:** 0.05 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31086 plants per acre  
**Factors/Treatments:**

<u>Hybrid</u>	
S501	S504
S502	S505
S503	S506

**Results:** Table C-18.

**Table C-18. AgReliant Hybrid Corn Silage Evaluation Study - Early.  
Marshfield, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S501	7.5	60.7	53	8.6	21	46	82	61	28	3489	26076
S502	6.8	62.7	33	8.0	26	52	78	57	23	3208	21986
S503	7.5	61.8	45	7.7	23	47	79	56	33	3283	24716
S504	7.2	62.4	57	9.0	22	47	80	57	27	3316	23880
S505	7.3	63.7	53	9.0	23	47	80	57	27	3373	24794
S507	8.8	64.6	63	7.8	24	49	80	60	27	3434	30307
Mean	7.5	62.7	51	8.4	23	48	80	58	28	3350	25293
<b>Probability (%)</b>											
Genotype	12.3	75.8	0.9	0.2	36.0	50.9	28.3	2.0	34.9	14.1	12.2
<b>LSD (0.10)</b>											
Genotype	NS	NS	12	0.5	NS	NS	NS	2.4	NS	NS	NS
<b>CV (%)</b>											
	10	5	15	4	11	8	3	3	18	4	13

## FIELD EXPERIMENT HISTORY

**Title:** AgReliant Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2622 **Year:** 2005  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Valders, WI **County:** Manitowoc  
**Supported By:** AgReliant Genetics, LLC

### Site Information

**Field:** **Previous Crop:** **Soil Type:** Kewaunee Clay Loam  
**Soil Test:** **Date:** N/A **pH** 7.3 **OM (%)** 3.3 **P (ppm)** 53 **K (ppm)** 305

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivate  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	9-24-24	150	5 /4 /05
<b>Post plant</b>	34-0-0	147	N/A
<b>Manure:</b>	Dairy	20 Ton/A	Fall

**Herbicide:** Steadfast 0.5 oz/A  
 Distinct 2.0 oz/A  
 Permit 0.2 oz/A

**Insecticide:** Force 4.4 lb/A

**Irrigation:** None

**Planting Date:** 5/4/05 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/16/05 **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:** 0.05 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 28776 plants per acre

**Factors/Treatments:**

<u>Hybrid</u>	
S501	S504
S502	S505
S503	S506

**Results: Table C-19.**

**Table C-19. AgReliant Hybrid Corn Silage Evaluation Study - Early.  
Valders, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
S501	7.5	45.5	22	7.8	16	38	84	57	40	3378	25152
S502	5.5	50.0	20	7.5	18	39	83	56	40	3290	18745
S503	7.7	49.1	22	6.7	17	38	84	58	42	3368	26095
S504	7.2	46.3	37	7.8	16	37	84	56	41	3365	24271
S505	7.1	49.1	25	7.5	18	39	83	56	40	3326	23461
S507	8.1	54.4	53	7.2	20	44	83	60	33	3396	27454
Mean	7.2	49.0	30	7.4	17	39	83	57	39	3358	24517
<b>Probability (%)</b>											
Genotype	0.3	1.0	2.0	1.3	7.4	8.1	58.6	2.9	9.8	44.6	0.7
<b>LSD (0.10)</b>											
Genotype	0.8	3.5	16	0.5	2.2	3.8	NS	1.9	5.0	NS	2945
<b>CV (%)</b>											
	7	5	36	4	8	6	1	2	8	2	8