

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3300 **Year:** 2010
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: ARS411 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/21/10 **pH:** 6.2 **OM (%)** 3.9 **P (ppm)** 65 **K (ppm)** 129

Plot Management

Tillage Operations: Fall Chisel Field Cultivator 2x N/A
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 /30/10
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Dual II Mag 24 oz/A **Insecticide:** Force 3G 4.4 b/A
 Hornet 4 oz/A

Irrigation: None

Planting Date: 4/30/10 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/31/10 **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:** 0.45 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32575 plants per acre
Hybrids:

S1026	S1035	S1049
S1027	S1036	S1060
S1028	S1038	S929
S1029	S1039	S936
S1030	S1041	S944
S1031	S1042	S947
S1032	S1043	S954
S1033	S1045	S978
S1034	S1048	

Results: Table C-13.

**Table C-13. AgReliant Hybrid Corn Silage Evaluation Study.
Arlington, WI - 2010.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S1026	9.8	67.9	7.1	27.2	47.8	77.8	53.5	31.4	2985	29149
AgReliant S1027	9.8	68.1	6.9	28.2	48.5	76.4	51.3	31.0	2904	28673
AgReliant S1028	9.2	69.0	8.0	27.1	48.2	77.1	52.6	29.4	2941	27152
AgReliant S1029	8.8	64.4	7.1	26.2	46.9	76.9	50.8	33.0	2947	25899
AgReliant S1030	8.7	63.6	7.6	26.0	47.1	78.4	54.1	31.9	3022	26274
AgReliant S1031	9.9	67.6	7.4	27.2	48.3	76.4	51.1	29.6	2902	28694
AgReliant S1032	10.6	64.0	6.7	25.2	46.2	79.0	54.5	34.1	3069	32643
AgReliant S1033	9.2	68.7	7.2	26.9	47.0	77.5	52.2	31.6	2979	27365
AgReliant S1034	9.3	69.5	7.5	26.3	47.2	78.5	54.4	30.6	3028	28302
AgReliant S1035	9.5	70.5	7.3	25.5	45.5	77.6	50.7	33.0	2997	28462
AgReliant S1036	9.4	71.6	7.8	28.2	51.5	77.4	56.1	26.6	2919	27394
AgReliant S1038	9.5	72.7	7.4	26.1	47.2	78.8	55.1	31.0	3046	28986
AgReliant S1039	8.3	71.5	8.2	28.8	49.4	76.1	51.7	28.0	2872	23916
AgReliant S1041	10.0	72.7	7.7	28.9	50.6	75.9	52.3	27.5	2850	28422
AgReliant S1042	8.8	70.5	7.9	27.0	48.7	77.8	54.3	29.4	2973	26220
AgReliant S1043	10.5	70.8	7.6	26.9	47.6	78.3	54.6	30.5	3012	31755
AgReliant S1045	8.9	72.9	7.6	28.6	50.3	76.5	53.4	28.7	2888	25683
AgReliant S1048	9.8	70.5	7.8	27.9	50.2	77.0	54.2	27.2	2913	28689
AgReliant S1049	8.9	72.2	7.2	29.3	51.3	75.4	52.2	28.0	2820	25396
AgReliant S1060	10.3	69.1	7.0	28.0	49.3	76.8	52.9	30.3	2918	30012
AgReliant S929	10.1	67.6	7.4	25.2	46.3	79.6	56.1	32.5	3101	31327
AgReliant S936	8.9	65.2	7.2	26.0	46.8	78.6	54.2	31.8	3038	27111
AgReliant S944	9.5	67.0	7.7	27.3	48.9	76.6	52.1	29.7	2904	27528
AgReliant S947	10.3	70.4	7.3	25.0	45.3	78.2	51.9	33.4	3034	31261
AgReliant S954	9.4	71.3	7.6	28.1	48.3	77.1	52.6	30.2	2944	27777
AgReliant S978	10.5	72.0	7.8	25.9	46.0	78.5	53.2	32.1	3039	31914
Mean	9.5	69.3	7.5	27.0	48.1	77.5	53.2	30.5	2963	28308
Probability (%)										
Hybrid	5.8	0.0	0.0	80.7	81.4	82.2	3.7	59.5	86.2	34.7
LSD (0.10)										
Hybrid	1.2	3.4	0.4	NS	NS	NS	2.7	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID:** 3301 **Year:** 2010
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:** Soybeans **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 10/04/10 **pH:** 7.3 **OM (%)** 1.9 **P (ppm)** 31 **K (ppm)** 78

Plot Management

Tillage Operations: Fall Chisel Soil Finisher Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150	N/A
Starter	10-34-0	3.0 gal/A	4 /21/10
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Lumax 3 qt/A **Insecticide:** Force 3G 4.4 b/A
Irrigation: None

Planting Date: 4/21/10 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/7/10 **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:** 0.15 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 28787 plants per acre

Hybrids:

S1026	S1035	S1049
S1027	S1036	S1060
S1028	S1038	S929
S1029	S1039	S936
S1030	S1041	S944
S1031	S1042	S947
S1032	S1043	S954
S1033	S1045	S978
S1034	S1048	

Results: Table C-14.

**Table C-14. AgReliant Hybrid Corn Silage Evaluation Study.
Lancaster, WI - 2010.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgReliant S1026	8.9	65.9	6.5	27.2	48.9	76.6	52.0	28.4	2888	25805
AgReliant S1027	10.0	62.8	6.2	26.9	47.1	76.0	49.1	32.7	2879	28941
AgReliant S1028	7.9	67.1	7.2	27.8	48.8	76.6	52.3	28.5	2891	22884
AgReliant S1029	8.2	59.0	6.6	25.6	46.2	77.2	50.6	32.5	2950	24106
AgReliant S1030	7.3	61.9	7.6	24.9	46.5	78.4	53.5	29.8	3011	22111
AgReliant S1031	7.7	61.3	7.3	24.9	44.9	77.0	48.7	32.5	2951	22841
AgReliant S1032	8.7	63.7	7.0	26.6	47.9	76.4	50.6	30.2	2888	25092
AgReliant S1033	10.1	64.1	6.6	25.6	45.3	76.6	48.3	33.2	2927	29493
AgReliant S1034	9.6	61.8	7.0	23.2	43.1	79.8	53.1	34.8	3127	29957
AgReliant S1035	6.9	62.1	6.5	26.1	46.2	76.0	48.0	33.6	2885	19736
AgReliant S1036	11.4	62.7	7.0	24.2	45.8	80.2	56.7	31.8	3118	35637
AgReliant S1038	7.4	69.4	7.8	26.0	46.4	78.9	54.6	29.9	3038	22810
AgReliant S1039	7.8	68.6	8.0	26.1	46.9	76.8	50.6	30.0	2918	22827
AgReliant S1041	11.3	66.8	7.1	26.1	46.9	77.6	52.1	29.9	2963	33384
AgReliant S1042	7.1	64.9	7.4	27.2	48.9	76.1	51.0	29.0	2857	20292
AgReliant S1043	8.7	66.9	7.4	25.4	46.5	78.5	53.8	30.2	3019	26496
AgReliant S1045	9.3	66.5	6.6	26.3	47.5	77.6	52.7	32.6	2958	27489
AgReliant S1048	10.6	66.1	7.0	25.3	45.8	77.3	50.5	32.3	2960	31517
AgReliant S1049	7.4	67.5	6.8	26.6	47.3	76.8	51.1	31.0	2918	21579
AgReliant S1060	9.6	64.9	6.7	24.6	44.4	77.2	48.7	34.4	2974	28667
AgReliant S929	9.4	63.9	6.7	25.0	45.0	78.6	52.2	33.2	3040	28733
AgReliant S936	9.4	62.2	6.5	25.3	45.7	76.8	49.1	32.1	2934	27568
AgReliant S944	7.8	61.4	7.6	26.6	47.9	76.1	50.0	29.2	2868	22562
AgReliant S947	8.1	65.8	6.5	23.4	43.0	78.9	50.8	36.4	3078	24638
AgReliant S954	9.5	67.0	7.1	26.5	46.3	77.1	50.5	32.3	2942	27967
AgReliant S978	10.3	63.1	6.7	24.7	44.7	79.6	54.1	33.3	3098	31884
Mean	8.9	64.5	7.0	25.7	46.3	77.5	51.3	31.7	2965	26347
Probability (%)										
Hybrid	0.0	0.3	0.0	69.5	70.9	27.3	0.5	19.9	45.0	0.1
LSD (0.10)										
Hybrid	1.6	3.9	0.6	NS	NS	NS	3.3	NS	NS	5917