FIELD EXPERIMENT HISTORY

Title: **UW Corn Performance Trials - Private Silage**

Experiment: 01PrivateSilage **Trial ID:** 3613 **Year:** 2012

Personnel: J.G. Lauer, K.D. Kohn, and T. 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:** 10/01/12 **pH:** 7.0 **OM (%)** 3.1 **P (ppm)** 19 **K (ppm)** 90

Plot Management

Tillage Operations: Field Cultivator Cultivated

Fertilizer:

	Analysis	Rate	Date
Preplant	28-0-0		
Starter	10-34-0	3.0 gal/A	4 /24/12
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Hornet 3.0 oz/A
Outlook 14 oz/A

Insecticide: None

Irrigation: None

Planting Date: 4/24/12 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 8/30/12 **Harvest Method:** New Holland 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 25' x 5' **Experiment Size:** 0.33 A

Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 25692 plants per acre

Factors/Treatments:

Hybrids:

AgReliant S1201	AgReliant S1213
AgReliant S1202	AgReliant S1215
AgReliant S1203	AgReliant S1217
AgReliant S1204	AgReliant S1218
AgReliant S1205	AgReliant S1219
AgReliant S1206	AgReliant S1220
AgReliant S1207	AgReliant S1221
AgReliant S1209	AgReliant S1223
AgReliant S1211	AgReliant S1224

Results: Table C-10.

Table C-10. AgReliant Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI - 2012.

	Dry Matter								Milk Per		Plant
Hybrid	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre	height
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
AgReliant S1201	4.0	58.2	8.1	23.4	44.2	82.8	61.1	32.0	3382	13688	78
AgReliant S1202	5.5	56.8	8.7	22.6	42.5	83.2	60.6	33.6	3418	18685	84
AgReliant S1203	5.8	52.9	7.9	21.1	39.1	85.4	62.7	38.4	3571	20552	80
AgReliant S1204	6.6	59.0	7.4	22.0	41.4	84.4	62.4	35.1	3498	22991	81
AgReliant S1205	5.6	55.5	7.8	21.3	39.0	85.3	62.5	36.9	3564	19928	83
AgReliant S1206	7.0	54.7	7.5	21.0	38.8	84.9	61.2	38.2	3546	24915	84
AgReliant S1207	7.7	56.6	7.7	22.0	40.9	84.3	61.8	36.9	3494	26875	84
AgReliant S1209	6.8	59.7	7.2	24.6	44.3	83.8	63.5	32.5	3442	23589	82
AgReliant S1211	6.6	61.5	7.2	22.7	41.5	84.7	63.2	35.7	3516	23190	80
AgReliant S1213	6.2	57.9	6.8	23.4	42.9	84.0	62.9	35.7	3465	21623	84
AgReliant S1215	5.7	60.6	7.4	24.9	44.6	81.9	59.4	31.3	3329	19009	86
AgReliant S1217	7.3	59.5	7.3	23.6	43.2	83.2	61.2	32.6	3416	24994	88
AgReliant S1218	7.9	57.2	7.0	24.5	43.5	83.9	63.0	34.4	3453	27415	96
AgReliant S1219	7.9	60.0	6.7	22.4	40.8	84.0	60.8	37.8	3480	27611	90
AgReliant S1220	5.5	61.3	7.4	24.6	44.7	84.1	64.4	31.9	3454	18929	92
AgReliant S1221	6.9	59.5	7.2	26.3	47.7	82.2	62.7	28.8	3322	22840	99
AgReliant S1223	7.3	60.1	7.5	22.6	41.9	83.5	60.6	36.7	3444	25130	90
AgReliant S1224	8.0	60.0	6.9	23.5	41.6	84.9	63.8	34.0	3524	28125	96
Mean	6.6	58.4	7.4	23.1	42.4	83.9	62.1	34.6	3462	22783	87
Probability (%)											
Hybrid	0.0	3.1	0.0	55.3	35.1	62.7	11.3	39.4	60.3	0.1	0.4
LSD (0.10)											
Hybrid	1.2	3.9	0.5	NS	NS	NS	NS	NS	NS	4869	9

FIELD EXPERIMENT HISTORY

Title: **UW Corn Performance Trials - Private Silage**

Experiment: 01PrivateSilage **Trial ID:** 3614 **Year:** 2012

Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo

Location: Marshfield, WI **County:** Wood

Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam

Soil Test: **Date:** 10/01/12 **pH:** 6.9 **OM (%)** 3.4 **P (ppm)** 36 **K (ppm)** 60

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated

Fertilizer:

	Analysis	Rate	Date
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	4 /27/12
Post plant	28-0-0	120	6 /15/12
Manure:	N/A	N/A	N/A

Herbicide: SureStart 2.25 pt/A
Volley 2.75 oz/A

Insecticide: Force 3G 4.4 lbs/A
Baythroid-2 1.6 oz/A

Irrigation: None

Planting Date: 4/27/12 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 9/6/12 **Harvest Method:** New Holland 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 25' x 5' **Experiment Size:** 0.33 A

Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 25639 plants per acre

Factors/Treatments:

Hybrids:

AgReliant S1201	AgReliant S1213
AgReliant S1202	AgReliant S1215
AgReliant S1203	AgReliant S1217
AgReliant S1204	AgReliant S1218
AgReliant S1205	AgReliant S1219
AgReliant S1206	AgReliant S1220
AgReliant S1207	AgReliant S1221
AgReliant S1209	AgReliant S1223
AgReliant S1211	AgReliant S1224

Results: Table C-11.

Table C-11. AgReliant Hybrid Corn Silage Evaluation Study.
Marshfield, WI - 2012.

Hybrid	Dry Matter Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per Ton	Milk Per Acre	Plant height
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
AgReliant S1201	3.8	55.3	8.4	25.7	47.5	82.2	62.6	28.4	3292	12553	76
AgReliant S1202	5.6	49.3	8.3	26.2	47.7	80.9	60.2	29.0	3218	18171	82
AgReliant S1203	5.8	48.2	8.3	21.4	40.8	84.8	62.9	36.4	3498	20203	76
AgReliant S1204	6.5	52.1	7.7	25.9	46.6	82.2	62.0	31.2	3301	21380	81
AgReliant S1205	5.5	55.3	7.9	24.4	44.6	82.4	60.3	32.4	3328	18369	88
AgReliant S1206	6.4	52.6	7.7	25.0	45.0	82.3	60.6	32.8	3321	21304	79
AgReliant S1207	7.8	51.2	8.1	22.8	42.9	84.2	63.1	35.7	3442	26923	82
AgReliant S1209	6.7	52.1	7.9	23.4	42.3	83.5	61.1	34.7	3413	22788	82
AgReliant S1211	7.1	55.6	7.8	25.7	45.6	82.2	61.1	31.7	3312	23745	88
AgReliant S1213	6.6	51.3	7.4	26.0	47.5	82.0	62.0	31.0	3282	21512	85
AgReliant S1215	5.0	63.6	8.2	28.4	50.3	80.1	60.4	26.6	3149	15815	93
AgReliant S1217	7.5	54.3	7.2	26.9	48.6	80.7	60.6	29.3	3205	24084	87
AgReliant S1218	7.0	55.5	7.8	26.2	47.3	82.8	63.7	30.1	3328	23204	88
AgReliant S1219	7.6	54.6	7.4	24.2	43.7	83.5	62.3	35.0	3400	25975	89
AgReliant S1220	6.4	55.5	7.5	23.6	43.7	84.9	65.4	35.2	3477	22051	96
AgReliant S1221	5.6	60.4	8.0	28.0	50.9	82.1	64.8	24.3	3253	18217	100
AgReliant S1223	7.0	57.3	7.8	25.5	47.0	82.1	61.9	30.9	3293	23228	92
AgReliant S1224	6.9	59.8	7.3	25.5	45.8	84.0	65.2	30.6	3410	23566	88
Mean	6.4	54.7	7.8	25.3	46.0	82.6	62.2	31.4	3329	21283	86
Probability (%)											
Hybrid	0.0	0.0	0.0	9.1	6.3	26.2	18.3	1.9	21.5	0.0	0.0
LSD (0.10)											
Hybrid	0.9	3.6	0.4	3.3	4.8	NS	NS	5.1	NS	3368	8

FIELD EXPERIMENT HISTORY

Title: **UW Corn Performance Trials - Private Silage**

Experiment: 01PrivateSilage **Trial ID:** 3506 **Year:** 2012

Personnel: J.G. Lauer, K.D. Kohn, and T. 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:** 10/01/12 **pH:** 7.9 **OM (%)** 3.4 **P (ppm)** 33 **K (ppm)** 107

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated

Fertilizer:

	Analysis	Rate	Date
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	5 /1 /12
Post plant	46-0-0	80	6 /25/12
Manure:	Dairy	6000 gal	Fall

Herbicide: Keystone LA 1.5 oz/A
Steadfast 1.0 oz/A
Callisto 3.0 oz/A
Atrazine 0.25 lb/A

Insecticide: Force 3G 4.4 lbs/A

Irrigation: None

Planting Date: 5/1/12 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 9/12/12 **Harvest Method:** New Holland 707 Plot Chopper

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 25' x 5' **Experiment Size:** 0.33 A

Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 26730 plants per acre

Factors/Treatments:

Hybrids:

AgReliant S1201	AgReliant S1213
AgReliant S1202	AgReliant S1215
AgReliant S1203	AgReliant S1217
AgReliant S1204	AgReliant S1218
AgReliant S1205	AgReliant S1219
AgReliant S1206	AgReliant S1220
AgReliant S1207	AgReliant S1221
AgReliant S1209	AgReliant S1223
AgReliant S1211	AgReliant S1224

Results: Table C-12.

Table C-12. AgReliant Hybrid Corn Silage Evaluation Study.
Valders, WI - 2012.

	Dry Matter								Milk Per		Plant
Hybrid	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre	height
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
AgReliant S1201	5.1	50.5	8.3	19.8	38.4	86.1	63.8	36.5	3616	18596	76
AgReliant S1202	6.7	45.9	7.1	19.5	36.6	87.0	64.5	39.8	3686	24619	76
AgReliant S1203	6.5	51.9	7.3	20.0	37.7	86.7	64.9	38.3	3653	23877	73
AgReliant S1204	6.5	55.4	7.2	20.9	39.6	86.8	66.6	36.1	3652	23921	81
AgReliant S1205	5.8	60.5	7.5	22.5	41.1	84.1	61.2	35.1	3485	20225	89
AgReliant S1206	7.7	50.0	7.1	20.5	38.0	86.5	64.5	40.4	3649	28070	77
AgReliant S1207	9.4	49.1	7.6	18.2	35.5	87.6	65.1	41.2	3730	35068	82
AgReliant S1209	8.2	47.4	6.7	18.6	35.0	87.6	64.6	42.8	3724	30462	80
AgReliant S1211	7.9	55.1	7.7	20.4	37.7	86.2	63.4	40.4	3629	28553	79
AgReliant S1213	8.6	56.2	7.0	22.3	40.7	84.8	62.8	35.2	3532	30483	91
AgReliant S1215	7.4	62.3	7.6	21.7	40.0	85.8	64.5	35.9	3591	26709	81
AgReliant S1217	9.9	57.6	7.0	20.7	39.4	85.9	64.2	37.9	3603	35607	75
AgReliant S1218	8.9	54.0	6.8	19.5	37.2	87.7	66.8	40.2	3721	33092	90
AgReliant S1219	8.3	57.0	7.1	19.7	36.3	87.4	65.1	41.2	3710	30862	79
AgReliant S1220	6.3	57.7	7.8	20.8	38.6	86.8	66.1	37.5	3630	22812	88
AgReliant S1221	9.5	57.8	7.1	21.3	40.1	85.4	63.7	36.5	3571	34031	75
AgReliant S1223	8.7	58.8	7.4	22.4	40.9	84.3	61.8	36.0	3501	30559	91
AgReliant S1224	8.3	58.7	6.5	22.1	39.6	85.9	64.3	37.4	3601	29952	89
Mean	7.8	54.8	7.3	20.6	38.5	86.2	64.3	38.2	3627	28194	82
Probability (%)											
Hybrid	0.0	0.0	6.4	30.3	28.2	20.8	34.2	18.6	18.8	0.0	10.4
LSD (0.10)											
Hybrid	1.5	4.8	0.8	NS	NS	NS	NS	NS	NS	5587	NS