

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 5786 **Year:** 2014
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:** Corn **Soil Type:** Sandy Loam
Soil Test: **Date:** 10/1 /14 **pH:** 5.7 **OM (%)** 2.2 **P (ppm)** 61 **K (ppm)** 105

Plot Management

Tillage Operations: Chisel Plow Turbo-Till Cultivated
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 /15/14
Post plant	82-0-0	160 lbs/A	6 /25/14
Manure:	N/A	N/A	N/A

Herbicide: Capreno 3.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: Irrigated **Hybrid:** Factor

Planting Date: 5/15/14 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/23/14 **Harvest Method:** New Holland 707 Plot Chopper
Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5 x 25 **Experiment Size:** 0.26 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 32575 plants per acre

Hybrids:

S1401	S1406	S1411
S1402	S1407	S1412
S1403	S1408	S1413
S1404	S1409	S1420
S1405	S1410	S1423

Results: Table 1401-17.

Table: 1401-%. AgReliant Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI - 2014.

Hybrid	Dry Matter							Milk Per		Plant height	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton		Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
S1401	6.8	49.3	7.1	24.7	45.3	83.4	63.5	35.6	3434	23260	87
S1402	7.2	56.2	6.6	25.4	47.3	84.3	66.8	31.5	3466	25090	88
S1403	5.4	51.1	7.8	27.1	48.2	81.5	61.6	32.0	3302	17911	78
S1404	5.0	48.8	7.1	28.7	51.6	81.1	63.4	28.4	3256	16274	80
S1405	7.1	41.2	6.8	24.6	45.5	83.2	63.1	36.2	3421	24289	82
S1406	7.4	51.5	7.3	24.7	45.3	82.9	62.4	34.7	3407	25368	82
S1407	7.0	45.6	7.0	25.0	46.4	83.0	63.5	35.2	3405	23923	85
S1408	7.7	62.0	6.6	25.7	46.4	83.0	63.2	32.1	3402	26238	100
S1409	6.3	50.5	7.5	25.4	47.0	83.4	64.8	33.1	3417	21497	86
S1410	7.9	58.8	7.1	24.6	45.7	83.6	64.1	34.5	3439	27075	87
S1411	7.8	51.5	7.4	25.4	46.5	83.7	64.9	34.1	3437	26854	93
S1412	6.7	53.2	7.9	25.3	47.1	82.9	63.8	32.6	3388	22850	85
S1413	6.9	61.6	7.6	24.7	45.3	83.5	63.7	34.8	3436	23628	91
S1420	8.4	59.1	7.1	24.8	46.2	84.2	65.7	34.6	3468	28998	94
S1423	8.3	64.6	7.4	27.9	51.2	82.1	65.0	28.3	3314	27653	105
Mean	7.1	53.7	7.2	25.6	47.0	83.1	64.0	33.2	3399	24061	88
<u>Probability (%)</u>											
Hybrid	0.0	0.0	0.0	37.3	41.4	62.0	24.5	21.9	60.8	0.0	0.0
<u>LSD (0.10)</u>											
Hybrid	0.8	5.8	0.4	NS	NS	NS	NS	NS	NS	3574.6	5

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 5785 **Year:** 2014
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:** Loyal Silt Loam
Soil Test: **Date:** 10/1 /14 **pH:** 6.3 **OM (%)** 3.3 **P (ppm)** 45 **K (ppm)** 85

Plot Management

Tillage Operations: Turbo-Till

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	46 lbs/A	N/A
Starter	10-34-0	3.0 gal/A	5 /19/14
Post plant	28-0-0	120 lbs/A	6 /30/14
Manure:	N/A	N/A	N/A

Herbicide: Medal II 1.7 pt/A
 Hornet WDG 3.0 oz/A
 Status 3.0 oz/A
Insecticide: Force 3G 4.4 lbs/A
Hybrid: Factor

Irrigation: None

Planting Date: 5/19/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/29/14 **Harvest Method:** New Holland 707 Plot Chopper

Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB

Replications: 3

Plot Size Seeded: 5 x 25

Experiment Size: 0.26 A

Harvest Plot Size: 23' x 2.5'

Harvest Plant Density: 31062 plants per acre

Hybrids:

S1401	S1406	S1411
S1402	S1407	S1412
S1403	S1408	S1413
S1404	S1409	S1420
S1405	S1410	S1423

Results: Table 1401-18.

**Table: 1401-% . AgReliant Hybrid Corn Silage Evaluation Study.
Marshfield, WI - 2014.**

Hybrid	Dry Matter							Milk Per		Plant height	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton		Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
S1401	5.6	58.8	6.9	28.2	47.9	79.3	56.9	29.2	3159	17622	89
S1402	5.8	64.0	6.1	28.2	49.1	82.5	64.3	26.5	3324	19288	85
S1403	6.3	57.0	7.6	25.5	45.2	81.9	59.8	33.7	3319	20784	77
S1404	5.6	57.7	6.3	26.5	46.2	80.9	58.4	31.2	3261	18405	81
S1405	6.0	52.6	6.4	25.0	42.6	82.3	58.6	35.8	3368	20299	86
S1406	6.7	58.2	6.2	27.2	46.4	81.2	59.5	33.3	3278	21949	85
S1407	5.6	57.4	6.5	26.8	46.3	81.1	59.2	32.1	3271	18592	81
S1408	8.4	62.9	6.6	25.1	43.6	83.7	62.6	31.6	3438	28997	108
S1409	7.5	55.6	6.5	25.8	45.3	83.0	62.6	35.5	3387	25386	80
S1410	8.3	61.3	6.4	24.8	44.9	84.2	64.7	34.0	3453	28590	94
S1411	7.0	57.2	6.5	25.1	45.5	83.7	64.1	33.2	3420	23861	83
S1412	7.6	58.9	7.1	26.3	47.2	82.8	63.5	30.6	3353	25407	83
S1413	7.1	59.6	6.9	25.9	45.3	83.4	63.3	32.8	3404	24139	85
S1420	7.7	63.7	6.7	26.5	45.5	82.9	62.2	33.2	3374	26106	89
S1423	8.4	66.4	6.1	31.5	53.2	78.0	58.5	23.6	3045	25741	109
Mean	6.9	59.4	6.6	26.6	46.3	82.1	61.2	31.8	3324	23011	88
<u>Probability (%)</u>											
Hybrid	0.0	0.0	66.8	0.9	10.6	0.1	0.6	1.7	0.2	0.0	0
<u>LSD (0.10)</u>											
Hybrid	1.1	3.4	NS	2.5	NS	2.0	3.6	5.0	139.0	3829	10

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 5803 **Year:** 2014
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:** 10/1 /14 **pH:** 7.5 **OM (%)** 2.7 **P (ppm)** 41 **K (ppm)** 131

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

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 /24/14
Post plant	28-0-0	65 lbs/A	6 /27/14
Manure:	Dairy	9000 gal	Fall

Herbicide: Keystone LA 1.5 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Steadfast 1.0 oz/A **Hybrid:** Factor
 Callisto 3.0 oz/A
 Atrazine 0.25 lb/A

Irrigation: None

Planting Date: 5/24/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/30/14 **Harvest Method:** New Holland 707 Plot Chopper

Notes: Planted adjacent to public silage trial

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5 x 25 **Experiment Size:** 0.26 A
Harvest Plot Size: 23' x 2.5' **Harvest Plant Density:** 31819 plants per acre

Hybrids:

S1401	S1406	S1411
S1402	S1407	S1412
S1403	S1408	S1413
S1404	S1409	S1420
S1405	S1410	S1423

Results: Table 1401-19.

Table: 1401-% . AgReliant Hybrid Corn Silage Evaluation Study.
Valders, WI - 2014.

Hybrid	Dry Matter							Milk Per		Plant height	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton		Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A	inches
S1401	5.4	62.7	6.0	25.4	45.4	84.4	65.2	32.0	3511	18853	83
S1402	6.9	64.9	5.4	28.0	51.4	84.5	69.8	25.7	3473	23883	97
S1403	6.8	64.0	6.6	26.7	49.4	82.9	65.3	28.2	3399	23185	78
S1404	4.5	61.6	5.4	24.7	45.8	84.8	66.5	34.2	3533	15908	89
S1405	7.8	51.2	5.8	24.7	45.3	83.4	63.6	35.1	3461	26944	83
S1406	6.4	64.8	6.3	25.5	47.8	84.4	67.5	29.7	3495	22304	79
S1407	6.9	56.6	6.4	27.2	48.5	81.8	62.6	29.9	3348	23120	85
S1408	8.5	62.7	5.8	23.5	43.9	85.6	67.4	31.8	3592	30757	101
S1409	7.4	62.6	5.9	26.8	48.7	83.5	66.2	30.3	3441	25566	87
S1410	7.5	67.0	5.8	27.1	49.7	83.5	66.9	27.1	3430	25776	91
S1411	7.8	61.2	5.9	30.9	55.4	80.9	65.6	23.8	3246	25513	91
S1412	7.0	63.1	6.7	25.2	46.8	84.5	67.0	30.1	3503	24790	92
S1413	9.1	63.0	6.7	24.3	45.4	85.3	67.6	31.7	3560	32339	94
S1420	8.3	63.3	5.7	26.1	47.9	83.8	66.2	30.7	3465	28626	92
S1423	8.8	70.9	5.9	29.1	52.6	82.4	66.5	23.3	3351	29553	95
Mean	7.3	62.6	6.0	26.4	48.3	83.7	66.3	29.6	3454	25141	89
Probability (%)											
Hybrid	27.3	2.7	10.4	9.7	13.7	25.8	22.4	2.2	22.3	30.9	4
LSD (0.10)											
Hybrid	NS	5.4	NS	3.2	NS	NS	NS	4.3	NS	NS	9