

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 6074 **Year:** 2016
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 /16 **pH:** 5.9 **OM (%)** 2 **P (ppm)** 58 **K (ppm)** 73

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 217 **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 200 lbs/A **Date:** 5 /4 /16
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: 10000 gal

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: Irrigated **Hybrid:** See Factor

Planting Date: 5/4/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/13/16 **Harvest Method:** New Holland 707 Plot Chop

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 25' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32568 plants per acre

Factors/Treatments:

Hybrids:

| | |
|------------------|------------------|
| AgR0115001BJW | AgR0315143PGJZ |
| AgR0116018-3110 | AgR0115034PGJZ |
| AgR0116019-3110 | AgR0215015PGJZ-1 |
| AgR0115140PGJZ | AgR0215015PGJZ-2 |
| AgR0115141PGJZ | AgR0215015PGJZ-3 |
| AgR0115142PGJZ | AgR0214041 |
| AgR0114036PGJZ | AgR0315048BJW |
| AgR23170 | AgR23012 |
| AgR0216021GTCBLL | AgR0115129 |
| AgR0216022PGJZ | |

Results: Table 1601-18.

**Table: 1601-18. AgReliant Hybrid Corn Silage Evaluation Study.
Chippewa Falls, WI - 2016.**

| Hybrid | Dry Matter | | | | | | | | Milk Per | |
|-------------------------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | Yield | Moisture | CP | ADF | NDF | IVD | NDFD | Starch | Ton | Acre |
| Mean | T/A | % | % | % | % | % | % | % | lbs/T | lbs/A |
| AgR0114036PGJZ | 7.7 | 44.6 | 7.6 | 20.7 | 38.2 | 83.0 | 55.4 | 32.8 | 3353 | 25952 |
| AgR0115001BJW | 9.2 | 51.5 | 7.7 | 19.1 | 36.7 | 83.0 | 53.7 | 31.3 | 3155 | 29492 |
| AgR0115034PGJZ | 9.0 | 60.1 | 7.4 | 21.2 | 39.5 | 81.7 | 53.8 | 26.5 | 2863 | 25708 |
| AgR0115129 | 9.4 | 55.1 | 6.9 | 19.8 | 37.3 | 82.9 | 54.3 | 26.1 | 2718 | 25673 |
| AgR0115140PGJZ | 8.9 | 52.8 | 6.5 | 23.3 | 41.3 | 81.7 | 55.7 | 28.7 | 3101 | 27757 |
| AgR0115141PGJZ | 8.6 | 51.6 | 7.0 | 19.9 | 37.9 | 83.7 | 57.1 | 25.9 | 2798 | 24177 |
| AgR0115142PGJZ | 8.3 | 57.3 | 7.3 | 20.6 | 39.5 | 82.4 | 55.4 | 24.5 | 2742 | 22890 |
| AgR0116018-3110 | 5.8 | 52.2 | 7.9 | 20.1 | 37.7 | 82.8 | 54.3 | 29.7 | 3093 | 18048 |
| AgR0116019-3110 | 7.1 | 39.6 | 7.2 | 18.8 | 35.4 | 83.6 | 53.9 | 35.3 | 3375 | 23940 |
| AgR0214041 | 10.6 | 54.8 | 7.5 | 20.3 | 38.0 | 82.7 | 54.5 | 28.6 | 2990 | 31801 |
| AgR0215015PGJZ-1 | 8.7 | 52.2 | 6.9 | 20.5 | 38.2 | 82.6 | 54.5 | 29.2 | 3005 | 26070 |
| AgR0215015PGJZ-2 | 8.4 | 54.4 | 7.1 | 21.2 | 39.3 | 81.6 | 53.2 | 26.9 | 2857 | 24180 |
| AgR0215015PGJZ-3 | 9.4 | 50.6 | 7.1 | 18.9 | 36.6 | 83.5 | 55.0 | 32.1 | 3166 | 29648 |
| AgR0216021GTCBLL | 8.1 | 36.7 | 6.5 | 20.0 | 37.1 | 84.4 | 58.0 | 35.3 | 3417 | 27517 |
| AgR0216022PGJZ | 9.0 | 54.5 | 7.2 | 21.1 | 38.2 | 82.7 | 54.7 | 31.5 | 3217 | 29088 |
| AgR0315048BJW | 9.0 | 62.9 | 7.7 | 22.0 | 41.1 | 80.4 | 52.4 | 21.7 | 2549 | 22929 |
| AgR0315143PGJZ | 8.5 | 60.3 | 7.1 | 22.8 | 42.6 | 79.9 | 52.8 | 20.0 | 2441 | 20781 |
| AgR23012 | 9.2 | 56.9 | 7.9 | 21.2 | 38.9 | 82.2 | 54.3 | 27.4 | 2959 | 27318 |
| AgR23170 | 9.9 | 58.8 | 6.8 | 21.8 | 39.8 | 82.3 | 55.7 | 28.9 | 3075 | 30674 |
| Mean | 8.7 | 53.0 | 7.2 | 20.7 | 38.6 | 82.5 | 54.7 | 28.6 | 2993 | 25981 |
| <u>Probability (%)</u> | | | | | | | | | | |
| Hybrid (H) | 0.0 | 0.0 | 1.1 | 29.9 | 22.7 | 34.6 | 5.7 | 0.1 | 0.0 | 1.0 |
| <u>LSD (0.10)</u> | | | | | | | | | | |
| Hybrid (H) | 1.2 | 3.9 | 0.6 | NS | NS | NS | 2.4 | 5.4 | 313 | 5299 |

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 6104 **Year:** 2016
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 /16 **pH:** 6.3 **OM (%)** 3 **P (ppm)** 45 **K (ppm)** 85

Plot Management

Tillage Operations: Field Cultivator

Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 200 lbs/A **Date:** 5 /5 /16
Post plant Analysis: 32-0-0 **Rate lbs/A:** 30 gal **Date:** N/A
Manure: None

Herbicide: Parallel 1.7 pt/A **Insecticide:** Force 3G 4.4 lbs/A
 Hornet WDG 3.0 oz/A **Hybrid:** See Factor

Irrigation: None

Planting Date: 5/5/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/20/16 **Harvest Method:** New Holland 707 Plot Chop

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 25' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 30166 plants per acre

Factors/Treatments:

Hybrids:

| | |
|------------------|------------------|
| AgR0115001BJW | AgR0315143PGJZ |
| AgR0116018-3110 | AgR0115034PGJZ |
| AgR0116019-3110 | AgR0215015PGJZ-1 |
| AgR0115140PGJZ | AgR0215015PGJZ-2 |
| AgR0115141PGJZ | AgR0215015PGJZ-3 |
| AgR0115142PGJZ | AgR0214041 |
| AgR0114036PGJZ | AgR0315048BJW |
| AgR23170 | AgR23012 |
| AgR0216021GTCBLL | AgR0115129 |
| AgR0216022PGJZ | |

Results: Table 1602-19.

**Table: 1601-19. AgReliant Hybrid Corn Silage Evaluation Study.
Marshfield, WI - 2016.**

| Hybrid | Dry Matter | | | | | | | | Milk Per | |
|------------------------|------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | Yield | Moisture | CP | ADF | NDF | IVD | NDFD | Starch | Ton | Acre |
| Mean | T/A | % | % | % | % | % | % | % | lbs/T | lbs/A |
| AgR0114036PGJZ | 7.8 | 46.3 | 6.3 | 23.6 | 41.4 | 81.2 | 54.7 | 30.5 | 3204 | 25311 |
| AgR0115001BJW | 8.4 | 54.5 | 6.6 | 19.4 | 37.1 | 82.3 | 52.3 | 32.7 | 3174 | 26803 |
| AgR0115034PGJZ | 8.8 | 59.1 | 6.6 | 17.9 | 34.1 | 85.0 | 56.1 | 36.7 | 3433 | 30300 |
| AgR0115129 | 9.7 | 54.3 | 6.5 | 16.8 | 33.3 | 85.2 | 55.7 | 36.0 | 3315 | 32235 |
| AgR0115140PGJZ | 8.9 | 46.3 | 6.2 | 18.3 | 34.9 | 85.2 | 57.5 | 38.2 | 3541 | 31592 |
| AgR0115141PGJZ | 9.3 | 50.5 | 6.2 | 18.2 | 34.6 | 84.0 | 53.8 | 36.4 | 3352 | 31068 |
| AgR0115142PGJZ | 8.3 | 56.6 | 6.5 | 19.6 | 36.8 | 83.4 | 54.8 | 31.7 | 3116 | 25821 |
| AgR0116018-3110 | 6.8 | 47.8 | 6.8 | 17.7 | 34.9 | 85.0 | 57.2 | 36.3 | 3464 | 23682 |
| AgR0214041 | 9.1 | 57.8 | 6.1 | 18.7 | 35.7 | 83.5 | 53.9 | 34.0 | 3198 | 29208 |
| AgR0215015PGJZ-1 | 8.8 | 48.1 | 6.4 | 18.7 | 35.8 | 83.7 | 54.6 | 36.1 | 3406 | 30048 |
| AgR0215015PGJZ-2 | 8.3 | 46.2 | 6.6 | 17.7 | 34.0 | 85.1 | 56.0 | 38.0 | 3521 | 29178 |
| AgR0215015PGJZ-3 | 8.3 | 46.2 | 6.6 | 17.9 | 34.9 | 84.4 | 55.3 | 36.5 | 3405 | 28189 |
| AgR0216021GTCBLL | 8.8 | 51.1 | 5.9 | 16.4 | 32.3 | 86.8 | 59.0 | 39.3 | 3545 | 31147 |
| AgR0216022PGJZ | 7.8 | 54.5 | 6.6 | 18.2 | 34.7 | 84.6 | 55.7 | 36.3 | 3417 | 26862 |
| AgR0315048BJW | 9.7 | 58.0 | 6.5 | 17.2 | 33.4 | 85.7 | 57.2 | 36.2 | 3370 | 32895 |
| AgR0315143PGJZ | 8.9 | 60.2 | 6.6 | 19.4 | 36.6 | 83.6 | 55.2 | 29.6 | 2958 | 26268 |
| AgR23012 | 9.3 | 54.9 | 6.2 | 19.7 | 36.1 | 83.7 | 54.9 | 34.0 | 3250 | 30185 |
| AgR23170 | 7.5 | 56.5 | 6.0 | 19.4 | 35.6 | 84.6 | 56.7 | 36.0 | 3405 | 25297 |
| Mean | 8.6 | 52.7 | 6.4 | 18.6 | 35.4 | 84.3 | 55.6 | 35.2 | 3337 | 28672 |
| Probability (%) | | | | | | | | | | |
| Hybrid (H) | 1.1 | 0.0 | 15.1 | 17.0 | 26.7 | 19.1 | 12.1 | 5.2 | 0.7 | 5.6 |
| LSD (0.10) | | | | | | | | | | |
| Hybrid (H) | 1.1 | 3.5 | NS | NS | NS | NS | NS | 4.5 | 234 | 4547 |

FIELD EXPERIMENT HISTORY

Title: UW Corn Trials - Private Silage
Experiment: 01STPrivate **Trial ID:** 6118 **Year:** 2016
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 /16 **pH:** 7.1 **OM (%)** 2.8 **P (ppm)** 206 **K (ppm)** 104

Plot Management

Tillage Operations: Fall Chisel Turbo till

Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 200 lbs/A **Date:** 5 /9 /16
Post plant Analysis: 28-0-0 **Rate lbs/A:** 30 gal **Date:** N/A
Manure: 9000 gal

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

Irrigation: None

Planting Date: 5/9/16 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/15/16 **Harvest Method:** New Holland 707 Plot Chop

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 25' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32325 plants per acre

Factors/Treatments:

Hybrids:

| | |
|------------------|------------------|
| AgR0115001BJW | AgR0315143PGJZ |
| AgR0116018-3110 | AgR0115034PGJZ |
| AgR0116019-3110 | AgR0215015PGJZ-1 |
| AgR0115140PGJZ | AgR0215015PGJZ-2 |
| AgR0115141PGJZ | AgR0215015PGJZ-3 |
| AgR0115142PGJZ | AgR0214041 |
| AgR0114036PGJZ | AgR0315048BJW |
| AgR23170 | AgR23012 |
| AgR0216021GTCBLL | AgR0115129 |
| AgR0216022PGJZ | |

Results: Table 1601-20.

**Table: 1601-20. AgReliant Hybrid Corn Silage Evaluation Study.
Valders, WI - 2016.**

| Hybrid | Dry Matter | | | | | | | | Milk Per | |
|------------------------|------------|----------|-----|------|------|------|------|--------|----------|-------|
| | Yield | Moisture | CP | ADF | NDF | IVD | NDFD | Starch | Ton | Acre |
| Mean | T/A | % | % | % | % | % | % | % | lbs/T | lbs/A |
| AgR0114036PGJZ | 6.6 | 46.6 | 5.6 | 19.3 | 36.6 | 84.4 | 57.3 | 36.1 | 3454 | 22859 |
| AgR0115001BJW | 7.1 | 48.4 | 5.3 | 22.2 | 40.9 | 80.9 | 53.4 | 30.2 | 3068 | 21699 |
| AgR0115034PGJZ | 10.0 | 57.8 | 5.6 | 16.3 | 33.3 | 86.8 | 60.5 | 37.5 | 3484 | 34951 |
| AgR0115129 | 9.6 | 55.8 | 5.5 | 17.0 | 34.1 | 85.7 | 57.9 | 34.4 | 3204 | 30679 |
| AgR0115140PGJZ | 8.0 | 49.3 | 5.6 | 20.5 | 38.3 | 83.8 | 57.8 | 34.5 | 3352 | 27140 |
| AgR0115141PGJZ | 6.3 | 50.0 | 5.3 | 20.6 | 38.6 | 83.0 | 56.0 | 31.8 | 3155 | 19972 |
| AgR0115142PGJZ | 6.8 | 55.6 | 5.2 | 18.2 | 35.6 | 84.5 | 56.5 | 35.0 | 3283 | 22179 |
| AgR0214041 | 8.5 | 57.7 | 4.7 | 20.4 | 38.1 | 83.1 | 55.7 | 31.6 | 3067 | 25882 |
| AgR0215015PGJZ-1 | 6.8 | 51.4 | 5.6 | 16.5 | 33.5 | 86.2 | 58.7 | 36.9 | 3417 | 23123 |
| AgR0215015PGJZ-2 | 6.9 | 52.1 | 5.5 | 19.9 | 38.3 | 83.1 | 55.8 | 32.4 | 3203 | 22212 |
| AgR0215015PGJZ-3 | 6.3 | 53.1 | 5.5 | 19.8 | 38.0 | 82.8 | 54.9 | 32.6 | 3182 | 20038 |
| AgR0216021GTCBLL | 7.1 | 55.7 | 5.3 | 18.4 | 35.8 | 85.6 | 59.8 | 34.4 | 3318 | 23467 |
| AgR0216022PGJZ | 7.8 | 52.5 | 5.7 | 17.2 | 33.9 | 86.1 | 59.0 | 37.6 | 3498 | 27538 |
| AgR0315048BJW | 8.3 | 60.9 | 5.0 | 19.1 | 36.5 | 84.6 | 57.6 | 33.6 | 3213 | 26640 |
| AgR0315143PGJZ | 9.0 | 57.0 | 5.3 | 17.8 | 34.8 | 85.6 | 58.7 | 32.9 | 3123 | 28147 |
| AgR23012 | 7.4 | 54.2 | 5.3 | 17.8 | 34.7 | 85.8 | 58.9 | 36.9 | 3437 | 25735 |
| AgR23170 | 8.0 | 56.7 | 4.8 | 20.1 | 38.1 | 84.3 | 58.7 | 33.4 | 3284 | 26255 |
| Mean | 7.7 | 53.8 | 5.3 | 18.9 | 36.4 | 84.5 | 57.5 | 34.2 | 3279 | 25207 |
| Probability (%) | | | | | | | | | | |
| Hybrid (H) | 1.0 | 0.0 | 6.3 | 1.5 | 1.4 | 0.1 | 0.2 | 24.1 | 5.0 | 3.9 |
| LSD (0.10) | | | | | | | | | | |
| Hybrid (H) | 1.7 | 4.6 | 0.5 | 2.5 | 3.3 | 2.0 | 2.5 | NS | 243 | 6574 |