

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Evaluation Study.
Experiment: 01 Silage **Trial ID:** 6215 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics

Site Information

Field: ARS408 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 5 /8 /17 **pH:** 6.7 **OM (%)** 3.5 **P (ppm)** 53 **K (ppm)** 168

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	46-0-0	250	N/A
	Starter	9-11-30-6S-1Zn	200 lbs/A	5 /8 /17
	Post plant	N/A	N/A	N/A
	Manure:	N/A	N/A	N/A

Herbicide: Hornet 4.0 oz/A
 Harness 28 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Hybrid: Factor

Irrigation: None

Planting Date: 5/8/17 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 34000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 9/18/17 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5" x 25' **Experiment Size:** 0.10 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33606 plants per acre

Hybrids:

AgR0615145PGJZ	AgR0716046-3000GT
AgR0617031PGJZ	AgR0717005PGJZ
AgR0717052PGJZ	AgR0717006PGJZ
AgR0715014JRM	AgR0717035QQRZ
AgR0716042QQRZ	AgR73121
AgR0717034PGJZ	

Results: Table 1701-01.

**Table: 1701-01. AgReliant Hybrid Corn Silage Evaluation Study.
Arlington, WI - 2017.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgR0615145PGJZ	11.8	60.8	7.6	18.5	36.0	86.6	63.0	32.7	3367	39738
AgR0617031PGJZ	11.5	63.9	6.8	19.1	36.3	85.9	61.1	30.1	3154	36330
AgR0717052PGJZ	10.8	65.7	6.8	20.6	38.5	84.8	60.6	29.6	3209	34760
AgR0715014JRM	11.6	67.1	6.6	18.6	36.0	88.4	67.8	28.6	3167	36844
AgR0716042QQRZ	11.4	65.0	7.1	18.3	35.6	86.9	63.3	30.5	3235	36864
AgR0717034PGJZ	11.8	65.8	6.8	20.8	38.3	86.1	63.8	29.4	3279	38624
AgR0716046-3000GT	11.6	68.5	6.7	22.0	40.0	84.4	61.0	24.7	2926	34001
AgR0717005PGJZ	12.3	64.9	7.2	19.3	37.2	86.6	64.1	30.0	3292	40954
AgR0717006PGJZ	11.3	66.5	7.1	22.0	39.8	84.0	59.8	26.2	3042	34178
AgR0717035QQRZ	11.3	66.4	7.1	19.7	37.3	85.9	62.1	28.0	3110	32617
AgR73121	11.0	65.8	7.4	20.1	37.3	85.2	60.4	29.0	3159	34615
Mean	11.5	65.5	7.0	19.9	37.5	85.9	62.5	29.0	3176	36320
Probability (%)										
Hybrid (H)	77.3	4.6	0.0	11.3	18.3	11.3	3.8	18.0	20.6	15.0
LSD (0.10)										
Hybrid (H)	NS	3.1	0.3	NS	NS	NS	3.5	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Evaluation Study.
Experiment: 01 Silage **Trial ID:** 6216 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Montfort, WI **County:** Grant
Supported By: AgReliant Genetics

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam
Soil Test: **Date:** 4 /24/17 **pH:** 6.5 **OM (%)** 2.9 **P (ppm)** 23 **K (ppm)** 104

Plot Management

Tillage Operations: Strip-Till

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	21-0-0-24S	75	N/A
	11-52-0	50	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	4 /24/17
Post plant	32-0-0	280	N/A
Manure:	N/A	N/A	N/A

Herbicide:	Compadre 2.6 oz/A Parallel 1.7 pt/A Callisto 3.0 oz/A Zidua 2.0 oz/A	Insecticide:	Force 3G 4.4 lbs/A
		Hybrid:	Factor

Irrigation:

Planting Date: 4/24/17 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 34000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/11/17 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB	Replications: 3
Plot Size Seeded: 5' x 25'	Experiment Size: 0.10 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 32752 plants per acre

Hybrids:

AgR0615145PGJZ	AgR0716046-3000GT
AgR0617031PGJZ	AgR0717005PGJZ
AgR0717052PGJZ	AgR0717006PGJZ
AgR0715014JRM	AgR0717035QQRZ
AgR0716042QQRZ	AgR73121
AgR0717034PGJZ	

Results: Table 1701-02.

**Table: 1701-02. AgReliant Hybrid Corn Silage Evaluation Study.
Montfort, WI - 2017.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgR0615145PGJZ	9.8	57.5	6.1	19.4	37.2	84.7	58.8	30.3	2960	29001
AgR0617031PGJZ	10.0	59.4	5.9	16.6	33.4	87.5	62.4	33.3	3105	31169
AgR0717052PGJZ	9.7	60.5	6.2	19.8	37.3	85.5	61.4	29.2	3011	29290
AgR0715014JRM	10.3	64.2	6.2	18.6	35.9	87.2	64.7	29.0	3084	33193
AgR0716042QQRZ	9.7	61.9	6.6	17.2	34.0	87.9	64.3	31.0	3110	30171
AgR0717034PGJZ	9.3	62.0	6.4	19.6	37.1	86.2	62.9	30.4	3190	29551
AgR0716046-3000GT	10.6	61.8	6.4	19.9	37.8	85.1	60.4	29.0	3048	32450
AgR0717005PGJZ	10.2	62.8	6.4	20.2	37.7	86.1	63.1	27.1	2952	30140
AgR0717006PGJZ	11.3	60.1	6.0	19.2	36.8	86.2	62.6	28.5	2942	33773
AgR0717035QQRZ	10.1	62.8	6.3	18.8	36.4	85.4	60.0	29.5	3028	30712
AgR73121	10.2	63.5	6.6	20.2	37.8	84.7	59.6	27.6	2965	30287
Mean	10.1	61.5	6.3	19.0	36.5	86.0	61.8	29.5	3036	30885
Probability (%)										
Hybrid (H)	3.4	8.2	30.2	16.7	19.7	17.7	5.7	36.4	48.9	42.8
LSD (0.10)										
Hybrid (H)	0.8	3.4	NS	NS	NS	NS	3.1	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Evaluation Study.
Experiment: 01 Silage **Trial ID:** 6217 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Coleman, WI **County:** Marinette
Supported By: AgReliant Genetics

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Oconto Silt Loam
Soil Test: **Date:** 5 /15/17 **pH:** 6.4 **OM (%)** 2.4 **P (ppm)** 33 **K (ppm)** 155

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /15/17
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

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

Planting Date: 5/15/17 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 34000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/21/17 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5" x 25' **Experiment Size:** 0.10 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33639 plants per acre

Hybrids:

AgR0117133	AgR0115129	AgR0315023BJW
AgR0115138	AgR0115040BJW	AgR0415002BJW
AgR0115139	AgR0216021-3220	AgR0415095-3110A
AgR0117010PGJZ	AgR0215039BJW	AgR0416027BJW
AgR0115130	AgR0217012PGJZ	AgR0415027JRM
AgR0114036BJW	AgR0316023GTCBLL	AgR43128
AgR0115141PGJZ	AgR0115034BJW	AgR0516033BJW
AgR0116086	AgR0317013-3010	

Results: Table 1701-03.

**Table: 1701-03. AgReliant Hybrid Corn Silage Evaluation Study.
Coleman, WI - 2017.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgR0117133	9.1	60.8	6.9	18.0	35.3	87.3	64.1	31.8	3245	29447
AgR0115138	5.1	61.6	7.1	17.4	35.0	86.9	62.4	31.8	3225	16576
AgR0115139	7.3	60.8	6.8	18.5	35.6	87.2	64.0	32.6	3311	24382
AgR0117010PGJZ	7.5	65.8	7.4	19.4	37.4	85.5	61.4	30.8	3328	25349
AgR0115130	9.1	62.3	7.0	17.7	34.7	88.0	65.4	32.3	3322	30132
AgR0114036BJW	7.6	62.5	6.9	19.5	37.2	86.7	64.3	33.4	3492	26196
AgR0115141PGJZ	7.1	61.0	6.1	20.9	40.0	84.5	61.3	26.6	2951	20978
AgR0116086	6.9	68.4	6.7	22.2	40.3	83.6	59.3	27.7	3144	21591
AgR0115129	9.1	68.3	6.9	19.9	37.4	84.9	59.5	26.0	2886	26298
AgR0115040BJW	6.7	62.3	7.1	20.3	37.8	84.2	58.3	30.4	3187	21367
AgR0216021-3220	5.9	66.0	7.3	18.8	35.9	86.8	63.3	31.2	3340	19506
AgR0215039BJW	7.3	66.5	7.0	18.7	36.0	87.4	64.9	31.2	3347	24551
AgR0217012PGJZ	8.5	67.2	7.0	19.7	36.8	86.2	62.4	31.8	3387	28593
AgR0316023GTCBLL	9.3	65.1	7.3	17.5	34.9	87.5	64.3	33.9	3493	32300
AgR0115034BJW	6.8	67.9	7.0	18.9	36.3	87.0	64.2	31.1	3342	22734
AgR0317013-3010	9.4	68.8	7.2	21.4	39.6	84.5	60.9	27.6	3173	29773
AgR0315023BJW	7.7	70.1	6.4	20.8	40.5	86.9	67.6	26.9	3254	24879
AgR0415002BJW	6.9	68.4	7.0	20.6	37.9	86.0	63.3	29.6	3289	22846
AgR0415095-3110A	8.7	69.9	7.0	20.9	39.4	85.2	62.5	25.7	3038	26644
AgR0416027BJW	7.5	67.8	6.6	18.3	36.9	88.6	68.9	28.2	3219	24211
AgR0415027JRM	8.8	68.6	7.1	19.6	37.3	86.9	64.8	29.4	3292	29259
AgR43128	8.7	71.4	6.3	22.2	41.8	85.2	64.8	24.3	3043	26352
AgR0516033BJW	8.8	68.3	6.8	17.9	34.5	88.5	66.7	33.6	3488	30622
Mean	7.8	66.1	6.9	19.5	37.3	86.3	63.4	29.9	3252	25417
Probability (%)										
Hybrid (H)	5.1	0.0	4.6	4.4	6.4	5.5	0.6	0.5	0.0	7.8
LSD (0.10)										
Hybrid (H)	2.4	2.3	0.6	2.8	4.1	2.7	4.0	4.0	192	8353

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Evaluation Study.
Experiment: 01 Silage **Trial ID:** 6218 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Marshfield, WI **County:** Wood
Supported By: AgReliant Genetics

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 5 /12/17 **pH:** 5.9 **OM (%)** 3.2 **P (ppm)** 32 **K (ppm)** 122

Plot Management

Tillage Operations: Field Cultivator Cultimulcher

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /12/17
Post plant	46-0-0	100	N/A
Manure:	N/A	N/A	N/A

Herbicide:	Roundup 32 oz/A Parallel 1.7 pt/A Accent Q 1.0 oz/A Status 5.0 oz/A	Insecticide:	Force 3G 4.4 lbs/A
		Hybrid:	Factor

Irrigation:

Planting Date: 5/12/17 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 34000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/27/17 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5" x 25' **Experiment Size:** 0.10 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 27468 plants per acre

Hybrids:

AgR0117133	AgR0115129	AgR0315023BJW
AgR0115138	AgR0115040BJW	AgR0415002BJW
AgR0115139	AgR0216021-3220	AgR0415095-3110A
AgR0117010PGJZ	AgR0215039BJW	AgR0416027BJW
AgR0115130	AgR0217012PGJZ	AgR0415027JRM
AgR0114036BJW	AgR0316023GTCBLL	AgR43128
AgR0115141PGJZ	AgR0115034BJW	AgR0516033BJW
AgR0116086	AgR0317013-3010	

Results: Table 1701-04.

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Evaluation Study.
Experiment: 01 Silage **Trial ID:** 6219 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Spooner, WI **County:** Washburn
Supported By: AgReliant Genetics

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Cress Sandy Loam
Soil Test: **Date:** 5 /8 /17 **pH:** 5.7 **OM (%)** 1.9 **P (ppm)** 19 **K (ppm)** 132

Plot Management

Tillage Operations: Chisel Plow Disk

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /8 /17
Post plant	46-0-0	250	N/A
Manure:	N/A	N/A	N/A

Herbicide: Dual II Mag 1.0 pt/A **Insecticide:** Force 3G 4.4 lbs/A
 Hornet 4.0 oz/A **Hybrid:** Factor
 Atrazine 4L 8.0 oz/A

Irrigation:

Planting Date: 5/8/17 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 34000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 9/14/17 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5" x 25' **Experiment Size:** 0.10 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 31582 plants per acre

Hybrids:

AgR0117133	AgR0115129	AgR0315023BJW
AgR0115138	AgR0115040BJW	AgR0415002BJW
AgR0115139	AgR0216021-3220	AgR0415095-3110A
AgR0117010PGJZ	AgR0215039BJW	AgR0416027BJW
AgR0115130	AgR0217012PGJZ	AgR0415027JRM
AgR0114036BJW	AgR0316023GTCBLL	AgR43128
AgR0115141PGJZ	AgR0115034BJW	AgR0516033BJW
AgR0116086	AgR0317013-3010	

Results: Table 1701-05.

**Table: 1701-05. AgReliant Hybrid Corn Silage Evaluation Study.
Spooner, WI - 2017.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
AgR0117133	7.9	55.5	7.2	19.5	36.7	87.5	65.8	30.9	3199	25409
AgR0115138	8.1	57.6	7.4	19.0	37.0	86.6	63.7	30.8	3211	25863
AgR0115139	7.9	50.7	7.2	17.7	35.7	87.5	64.9	34.3	3276	25734
AgR0117010PGJZ	8.5	59.6	7.4	19.0	37.5	86.3	63.5	29.8	3212	27336
AgR0115130	8.6	55.5	7.0	19.0	37.2	87.1	65.2	31.9	3256	28097
AgR0114036BJW	8.2	60.5	7.2	20.7	39.5	85.7	63.7	27.5	3150	25916
AgR0115141PGJZ	7.6	60.0	6.9	19.6	38.2	85.7	62.5	28.9	3128	23740
AgR0116086	8.3	59.7	7.0	19.7	37.3	85.6	61.4	32.4	3326	27525
AgR0115129	9.4	62.0	7.2	18.3	35.9	87.7	65.7	29.7	3199	30069
AgR0115040BJW	7.5	52.8	7.3	20.0	38.4	83.9	58.0	32.1	3129	23602
AgR0216021-3220	8.5	54.0	7.4	18.6	36.7	87.3	65.3	31.8	3275	27679
AgR0215039BJW	8.9	59.2	7.0	16.9	34.2	87.9	64.6	34.1	3343	29683
AgR0217012PGJZ	8.4	61.3	7.2	19.9	37.9	85.9	62.9	30.8	3317	28004
AgR0316023GTCBLL	9.0	61.9	7.2	18.9	36.7	87.1	64.9	31.2	3348	30267
AgR0115034BJW	8.7	63.6	6.9	19.3	37.7	86.9	65.2	28.6	3220	29110
AgR0317013-3010	10.0	64.1	7.6	20.1	38.4	85.6	62.5	30.2	3365	33699
AgR0315023BJW	8.9	66.2	7.2	20.6	38.7	86.4	64.9	28.6	3306	29407
AgR0415002BJW	9.0	64.4	7.5	19.7	37.8	87.0	65.5	30.3	3421	30843
AgR0415095-3110A	10.2	65.1	7.7	19.7	37.8	87.1	65.9	27.8	3240	33138
AgR0416027BJW	8.6	62.1	6.9	18.9	36.7	87.4	65.7	29.8	3234	27848
AgR0415027JRM	9.0	66.0	7.3	21.1	39.8	86.1	65.1	25.3	3035	28070
AgR43128	9.1	67.4	7.1	21.5	40.4	85.7	64.9	26.7	3234	29446
AgR0516033BJW	9.9	66.8	7.0	21.2	39.9	86.3	65.8	24.6	3063	30284
Mean	8.7	60.7	7.2	19.5	37.6	86.5	64.2	29.9	3238	28294
Probability (%)										
Hybrid (H)	0.3	0.0	0.3	0.4	0.5	1.5	0.0	0.0	0.4	0.3
LSD (0.10)										
Hybrid (H)	1.1	3.9	0.3	1.6	2.2	1.5	2.2	2.6	144	3834