

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1606 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: 408 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 11/19/01 **pH** 6.7 **OM (%)** 3.0 **P (ppm)** 81 **K (ppm)** 196

Plot Management

Tillage Operations: Chisel Plow Soil Finisher 1 Cultivation

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	46-0-0	325	4 /18/01
	Starter	6-24-24	150	4 /28/01
	Post plant	N/A	N/A	N/A
	Manure:	N/A	N/A	N/A

Herbicide: Harness 2.5 pt/A
Permit 0.66 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 4/28/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 9/14/01 **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:** 0.09 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 33833 plants per acre

Hybrid

AgR-S11	AgR-S17
AgR-S12	AgR-S18
AgR-S13	AgR-S19
AgR-S14	AgR-S20
AgR-S15	AgR-S21
AgR-S16	

Results: Table C-12.

**Table C-12. AgReliant Hybrid Corn Silage Evaluation Study - Late.
Arlington, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
AgR-S11	10.3	57.7	30	6.4	24	48	72	41	33	2711	27901
AgR-S12	9.5	62.3	37	6.5	23	45	72	39	35	2821	26744
AgR-S13	9.4	60.2	38	6.7	25	48	71	41	30	2736	25739
AgR-S14	10.3	61.7	47	7.1	22	45	72	38	35	2818	28904
AgR-S15	10.1	62.3	40	7.0	23	46	72	40	32	2841	28843
AgR-S16	10.7	62.0	47	6.3	21	44	74	42	34	2995	31896
AgR-S17	10.6	65.5	52	7.4	24	47	72	39	29	2805	29872
AgR-S18	9.4	66.5	63	7.7	25	48	71	40	28	2772	26251
AgR-S19	10.3	67.3	45	7.0	26	49	70	39	26	2660	27528
AgR-S20	9.7	65.3	50	6.8	24	48	71	39	31	2750	26594
AgR-S21	10.6	66.6	50	6.7	24	47	71	39	32	2761	29316
Mean	10.1	63.4	45	6.9	24	47	72	40	31	2788	28144
Probability (%)											
Genotype	8.0	0.0	0.2	0.1	11.8	25.9	9.6	2.1	1.9	5.1	11.5
LSD (0.10)											
Genotype	0.8	2.9	10	0.4	NS	NS	2.1	1.5	4.1	138	NS
CV (%)											
	6	3	16	5	6	5	2	3	9	4	8

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1609 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Lancaster, WI **County:** Grant
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Fayette
Soil Test: **Date:** 09/01/01 **pH** 7.5 **OM (%)** 2.6 **P (ppm)** 17 **K (ppm)** 71

Plot Management

Tillage Operations: Moldboard Soil Finisher

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	100	N/A
Starter	6-24-24	150	4 /27/01
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Harness 1.0 qt/A
North Star 4.0 oz/A
Accent 0.33 oz/A
Insecticide: None

Irrigation: None

Planting Date: 4/27/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 9/12/01 **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:** 0.09 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31160 plants per acre

Hybrid

AgR-S11	AgR-S17
AgR-S12	AgR-S18
AgR-S13	AgR-S19
AgR-S14	AgR-S20
AgR-S15	AgR-S21
AgR-S16	

Results: Table C-13.

**Table C-13. AgReliant Hybrid Corn Silage Evaluation Study - Late.
Lancaster, WI 2001.**

Genotype	Dry Matter		Kernel							Starch %	Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Ton		Acre	
AgR-S11	7.9	64.6	42	7.7	25	48	71	38	30	2704	21280	
AgR-S12	8.4	65.4	47	7.8	23	45	72	39	33	2850	23903	
AgR-S13	8.0	63.9	48	8.1	25	48	70	37	31	2644	21135	
AgR-S14	8.0	64.8	52	7.2	24	47	71	38	34	2747	22074	
AgR-S15	7.6	66.0	53	8.0	24	48	70	38	32	2701	20553	
AgR-S16	8.5	63.4	55	7.4	24	47	71	38	33	2657	22518	
AgR-S17	6.7	66.7	55	7.8	25	50	70	39	28	2674	17947	
AgR-S18	6.4	67.4	73	8.8	26	50	70	40	25	2661	17327	
AgR-S19	7.1	70.0	50	8.0	26	51	68	38	26	2563	18246	
AgR-S20	8.3	63.2	43	7.5	25	49	70	39	32	2658	21984	
AgR-S21	8.5	69.2	57	7.3	24	48	70	37	33	2692	22798	
Mean	7.7	66.0	53	7.8	25	48	70	38	31	2687	20854	
Probability (%)												
Genotype	36.2	82.7	5.8	21.3	50.4	43.1	48.9	59.8	8.7	41.2	30.7	
LSD (0.10)												
Genotype	NS	NS	13	NS	NS	NS	NS	NS	5.4	NS	NS	
CV (%)												
	14	8	18	8	7	6	2	4	12	4	16	

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1607 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil
Soil Test: **Date:** 11/01/01 **pH** 6.9 **OM (%)** **P (ppm)** 50 **K (ppm)** 98

Plot Management

Tillage Operations: Moldboard Field Cultivator 1 Cultivation

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	82-0-0	130	N/A
Starter	6-24-24	150	5 /20/01
Post plant	46-0-0	150	6 /29/01
Manure:	None	N/A	N/A

Herbicide: Dual II Mag 0.75 pt/A
Accent Gold 2.9 oz/A
Atrazine 0.5 lb/A **Insecticide:** None

Irrigation: None

Planting Date: 5/20/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 10/4/01 **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:** 0.08 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 32566 plants per acre

Hybrid

AgR-S05	AgR-S11
AgR-S06	AgR-S12
AgR-S08	AgR-S13
AgR-S09	AgR-S14
AgR-S10	

Results: Table C-14.

**Table C-14. AgReliant Hybrid Corn Silage Evaluation Study - Mid.
Fond du Lac, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
AgR-S05	6.8	66.5	53	7.5	28	52	67	36	27	2442	16545
AgR-S06	8.0	67.8	53	6.4	28	52	67	37	29	2501	20100
AgR-S08	9.3	64.2	18	6.9	25	48	69	36	33	2581	24072
AgR-S09	7.1	61.6	33	6.9	25	48	71	40	34	2782	19774
AgR-S10	8.4	63.4	57	7.2	24	46	72	38	36	2803	23608
AgR-S11	7.2	69.0	33	6.9	27	51	68	37	29	2560	18362
AgR-S12	8.2	69.6	70	6.2	27	51	67	35	29	2455	20259
AgR-S13	7.7	65.0	28	7.1	23	45	71	35	36	2745	21155
AgR-S14	7.7	68.9	53	7.2	27	51	68	37	28	2532	19614
Mean	7.8	66.2	44	6.9	26	49	69	37	31	2600	20388
<u>Probability (%)</u>											
Genotype	0.1	0.2	0.0	0.7	24.5	26.2	7.7	59.6	16.1	8.0	1.4
<u>LSD (0.10)</u>											
Genotype	0.7	3.0	15	0.5	NS	NS	3.3	NS	NS	232	3063
<u>CV (%)</u>											
	7	3	24	5	10	8	3	8	15	6	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1608 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Galesville, WI **County:** Trempealeau
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs
Soil Test: **Date:** 10/01/01 **pH** 6.2 **OM (%)** **P (ppm)** 60 **K (ppm)** 310

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	46-0-0	350	N/A
	Starter	6-24-24	150	4 /26/01
	Post plant	N/A	N/A	N/A
	Manure:	None	N/A	N/A

Herbicide: Dual II 2.25 pt/A
Hornet 5.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 4/26/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 9/11/01 **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: 0.08 A

Harvest Plot Size: 21' x 2.5'

Harvest Plant Density: 32832 plants per acre

Hybrid

AgR-S05	AgR-S11
AgR-S06	AgR-S12
AgR-S08	AgR-S13
AgR-S09	AgR-S14
AgR-S10	

Results: Table C-15.

Table C-15. AgReliant Hybrid Corn Silage Evaluation Study - Mid. Galesville, WI 2001.

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
AgR-S05	8.4	66.1	43	7.5	22	45	73	39	33	2867	24118
AgR-S06	9.6	66.6	52	6.9	24	48	72	41	31	2804	26837
AgR-S08	9.5	66.8	58	7.4	25	49	70	39	28	2675	25491
AgR-S09	8.1	63.9	40	7.2	23	47	72	42	32	2821	22826
AgR-S10	9.6	65.2	48	7.3	22	44	74	40	37	2981	28600
AgR-S11	9.6	65.8	43	6.4	22	44	74	41	35	2986	28669
AgR-S12	9.4	67.9	58	6.5	24	48	71	40	30	2759	25926
AgR-S13	10.1	62.3	52	6.5	23	46	73	41	33	2893	29288
AgR-S14	8.9	70.0	58	7.5	25	48	70	38	31	2691	24251
Mean	9.2	66.1	50	7.0	23	47	72	40	32	2831	26223
Probability (%)											
Genotype	30.2	18.5	3.3	0.6	24.9	19.7	6.5	9.1	6.0	4.4	27.2
LSD (0.10)											
Genotype	NS	NS	10	0.5	NS	NS	2.3	2.1	4.3	170	NS
CV (%)											
Genotype	10	5	14	5	7	6	2	4	9	4	13

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1610 **Year:** 2001
Personnel: J. G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Marshfield, WI **County:** Wood
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Loyal
Soil Test: **Date:** 11/06/99 **pH** 7.2 **OM (%)** **P (ppm)** 48 **K (ppm)** 147

Plot Management

Tillage Operations: Field Cultivator 2x 1 Cultivation

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	6-24-24	150	5 /18/01
Post plant	34-0-0	350	N/A
Manure:	None	N/A	N/A

Herbicide: Harness 1.0 qt/A
Hornet 2.4 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/18/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 10/9/01 **Harvest Method:** New Holland 707 Plot Chopper

Notes: Planted adjacent to public silage trial
Poor stand due to flooding
AgR-S02 and AgR-S03 not in table due to lack of viable data

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 25' x 5' **Experiment Size:** 0.06 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 18771 plants per acre

Hybrid

AgR-S01	AgR-S05
AgR-S02	AgR-S06
AgR-S03	AgR-S07
AgR-S04	AgR-S08

Results: Table C-16.

**Table C-16. AgReliant Hybrid Corn Silage Evaluation Study - Early.
Marshfield, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
AgR-S01	7.4	49.0	30	6.9	22	46	75	44	37	2747	20447
AgR-S04	6.6	56.0	45	7.1	24	48	73	44	34	2725	18232
AgR-S05	5.4	56.2	40	7.1	25	50	73	45	30	2734	14698
AgR-S06	8.2	58.3	55	7.1	24	47	73	43	33	2802	22897
AgR-S07	7.4	57.6	35	7.4	24	48	74	45	30	2837	21061
AgR-S08	8.7	55.9	10	7.2	26	50	72	45	28	2701	23376
Mean	7.4	54.9	39	7.1	24	48	73	44	33	2761	20512
Probability (%)											
Genotype	50.0	1.3	3.0	66.8	85.6	90.5	76.1	83.5	62.5	57.7	56.2
LSD (0.10)											
Genotype	NS	2.1	10	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)											
	16	2	13	2	10	9	2	4	13	3	18

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1611 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Valders, WI **County:** Manitowoc
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee
Soil Test: **Date:** 10/01/01 **pH** 7.8 **OM (%)** **P (ppm)** 40 **K (ppm)** 204

Plot Management

Tillage Operations: Moldboard Field Cultivator 1 Cultivation

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	N/A	N/A	N/A
	Starter	6-24-24	150	5 /2 /01
	Post plant	N/A	N/A	N/A
	Manure:	Manure	9000 gal/A	N/A

Herbicide: Surpass 1.0 pt/A
Accent 0.33 oz/A
Distinct 4.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/2/01 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: 9/20/01 **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:** 0.06 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31529 plants per acre

Hybrid

AgR-S01	AgR-S05
AgR-S02	AgR-S06
AgR-S03	AgR-S07
AgR-S04	AgR-S08

Results: Table C-17.

**Table C-17. AgReliant Hybrid Corn Silage Evaluation Study - Early.
Valders, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
AgR-S01	4.6	58.9	30	8.8	22	47	73	43	29	2821	12846
AgR-S02	3.3	69.4	67	10.1	27	54	70	44	14	2572	8349
AgR-S03	3.5	71.1	42	10.2	26	54	71	46	14	2658	9206
AgR-S04	4.0	67.0	52	9.1	25	53	71	45	23	2761	11063
AgR-S05	3.9	65.9	60	8.7	24	49	72	43	26	2806	11464
AgR-S06	5.6	65.4	58	8.4	23	48	72	42	28	2820	15601
AgR-S07	4.2	68.9	52	9.6	26	53	72	46	15	2673	11177
AgR-S08	3.3	70.7	68	9.9	28	57	68	44	12	2488	8069
Mean	4.0	67.2	54	9.4	25	52	71	44	20	2695	10951
Probability (%)											
Genotype	1.8	0.0	5.5	22.6	0.3	0.6	1.5	14.4	0.2	2.2	1.5
LSD (0.10)											
Genotype	1.0	2.5	20	1.4	2.1	3.8	2.0	2.6	6.7	165	3111
CV (%)											
	17	3	25	10	6	5	2	4	23	4	20