

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2264 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: AgReliant Genetics, LLC

Site Information

Field: 406 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 11/01/02 **pH** 6.2 **OM (%)** 3.3 **P (ppm)** 79 **K (ppm)** 247

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Rotary Cultivate

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	325	4 /18/02
Starter	6-24-24	150	4 /25/02
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Harness 2.5 pt/A
Hornet 3.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 4/25/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/21/02 **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:** 0.10 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 27324 plants per acre

Hybrid

Results: Table C-7.

**Table C-7. AgReliant Hybrid Corn Silage Evaluation Study - Late.
Arlington, WI 2002.**

Genotype	Dry Matter	Kernel			ADF	NDF	IVD	NDFD	Starch	Milk Per	
	Yield	Moisture	Milk	CP						Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR560	8.2	58.2	48	7.8	25	49	82	64	32	3446	28463
AGR561	8.6	59.9	22	7.4	24	47	84	66	36	3622	31106
AGR562	8.3	59.1	37	7.2	25	48	83	64	34	3458	28645
AGR563	9.5	56.5	47	7.6	25	48	84	67	33	3567	33769
AGR564	7.7	59.1	32	7.9	24	47	84	65	36	3562	27581
AGR565	8.9	61.3	30	7.7	26	49	83	66	32	3586	31855
AGR566	9.7	62.8	43	8.0	25	49	84	66	32	3646	35206
AGR567	10.5	60.9	48	7.7	23	45	85	66	35	3690	38633
AGR568	8.4	65.2	37	8.1	25	49	83	66	32	3645	30509
AGR569	9.4	64.0	37	8.2	25	48	83	65	30	3601	33997
AGR570	10.1	62.3	47	7.5	22	44	85	66	38	3727	37699
AGR571	10.3	61.3	45	7.4	24	47	84	65	35	3638	37256
Mean	9.1	60.9	39	7.7	25	48	84	65	34	3599	32893
Probability (%)											
Genotype	3.2	7.7	1.6	2.1	54.0	62.1	69.5	50.8	46.5	15.1	1.9
LSD (0.10)											
Genotype	1.2	4.1	11	0.4	NS	NS	NS	NS	NS	NS	4929
CV (%)											
Genotype	10	5	20	4	8	6	2	3	11	3	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2265 **Year:** 2002
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:** Soybean **Soil Type:** Fayette
Soil Test: **Date:** 11/01/02 **pH** 7.3 **OM (%)** 2.1 **P (ppm)** 57 **K (ppm)** 157

Plot Management

Tillage Operations: Soil Finisher Cultivated

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	300	N/A
Starter	6-24-24	150	4 /26/02
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Aatrex 4L 1.0 qt/A
Harness 1.0 qt/A
Accent 0.33 oz/A
Northstar 4.0 oz/A

Insecticide: None

Irrigation: None

Planting Date: 4/26/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/16/02 **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:** 0.10 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 25106 plants per acre

Hybrid

Results: Table C-8.

**Table C-8. AgReliant Hybrid Corn Silage Evaluation Study - Late.
Lancaster, WI 2002.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR560	8.9	55.9	40	7.8	24	47	83	64	35	3441	30691
AGR561	8.8	56.7	30	7.0	23	46	84	65	36	3515	30954
AGR562	8.3	56.7	42	7.0	24	46	83	64	35	3498	28937
AGR563	10.1	53.3	28	7.3	22	44	85	65	38	3505	35511
AGR564	8.5	55.8	37	7.3	23	45	84	65	38	3545	30326
AGR565	8.7	58.4	35	7.1	24	47	83	64	35	3510	30526
AGR566	8.1	60.1	48	7.3	22	44	85	66	38	3722	30027
AGR567	9.3	61.1	38	7.5	24	47	83	63	35	3537	32808
AGR568	8.3	64.1	32	8.3	22	43	85	64	38	3728	30778
AGR569	9.7	63.0	37	7.8	24	47	83	64	34	3631	35279
AGR570	9.9	61.9	47	7.5	24	46	84	65	35	3636	35961
AGR571	10.0	58.7	40	7.4	23	44	84	64	37	3568	35661
Mean	9.0	58.8	38	7.4	23	45	84	65	36	3570	32288
<u>Probability (%)</u>											
Genotype	2.0	0.2	46.0	11.9	81.9	85.8	76.3	32.7	89.2	1.3	7.5
<u>LSD (0.10)</u>											
Genotype	1.1	3.9	NS	NS	NS	NS	NS	NS	NS	128	4468
<u>CV (%)</u>											
	8	5	28	6	9	7	2	2	10	3	10

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2266 **Year:** 2002
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:** 11/01/02 **pH** 7.1 **OM (%)** 4.2 **P (ppm)** 42 **K (ppm)** 100

Plot Management

Tillage Operations: Moldboard Field Cultivator Cultivated

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	82-0-0	185	N/A
Starter	6-24-24	150	5 /10/02
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Accent Gold 2.9 oz/A
Aatrazine 0.5 lb/A **Insecticide:** None

Irrigation: None

Planting Date: 5/10/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/18/02 **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: 22' x 2.5' **Harvest Plant Density:** 30571 plants per acre

Hybrid

Results: Table C-9.

**Table C-9. AgReliant Hybrid Corn Silage Evaluation Study - Mid.
Fond du Lac, WI 2002.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR556	8.4	51.2	13	6.1	27	53	80	63	32	3225	27207
AGR557	7.0	50.5	12	6.4	29	55	79	62	30	3170	21897
AGR558	7.5	52.0	27	6.3	29	55	79	63	29	3159	23809
AGR559	8.2	58.6	17	6.9	25	48	82	62	33	3433	28230
AGR560	9.0	56.8	43	6.6	27	50	81	62	32	3325	30011
AGR561	8.5	60.3	28	6.5	28	53	80	63	28	3368	28649
AGR562	8.6	53.7	30	6.4	25	48	82	62	36	3328	28658
AGR563	9.7	54.9	43	6.2	27	51	80	61	33	3219	31150
AGR564	8.2	54.4	27	6.0	26	50	82	64	34	3382	27707
AGR565	9.2	59.4	40	6.2	27	51	81	63	32	3407	31357
Mean	8.4	55.1	28	6.4	27	51	81	62	32	3302	27868
Probability (%)											
Genotype	44.8	0.5	0.1	89.1	6.6	5.5	4.9	12.0	17.9	0.0	28.3
LSD (0.10)											
Genotype	NS	4.2	12	NS	2.5	4.2	1.6	NS	NS	93	NS
CV (%)											
Genotype	16	5	31	11	7	6	1	2	10	2	16

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2267 **Year:** 2002
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:** 11/01/02 **pH** 6.6 **OM (%)** 3.2 **P (ppm)** 43 **K (ppm)** 161

Plot Management

Tillage Operations: V-Ripper Field Cultivator Cultivated

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	350	N/A
Starter	6-24-24	150	5 /3 /02
Post plant	N/A	N/A	N/A
Manure:	None	N/A	N/A

Herbicide: Dual II Magnum 2.25 pt/A
Hornet 3.0 oz/A
Clarity 4.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/3/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/13/02 **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: 22' x 2.5' **Harvest Plant Density:** 30334 plants per acre

Hybrid

Results: Table C-10.

Table C-10. AgReliant Hybrid Corn Silage Evaluation Study - Mid. Galesville, WI 2002.

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR556	11.3	61.3	30	7.6	23	44	82	59	38	3480	39457
AGR557	9.4	61.0	42	7.6	27	50	80	61	33	3396	31870
AGR558	9.4	68.0	42	8.2	26	48	81	60	33	3446	32287
AGR559	10.8	64.0	37	8.2	24	45	81	59	37	3455	37300
AGR560	10.9	64.0	62	8.0	25	47	81	59	36	3448	37481
AGR561	10.4	68.8	42	7.5	24	45	83	62	37	3624	37878
AGR562	9.1	66.8	47	7.3	26	48	80	57	35	3375	30646
AGR563	11.0	65.0	60	8.2	26	49	81	62	31	3483	38585
AGR564	10.3	66.0	52	7.8	28	51	79	59	32	3323	34298
AGR565	9.2	68.6	50	8.5	27	50	79	58	31	3340	30588
Mean	10.2	65.3	46	7.9	26	48	81	59	34	3437	35039
<u>Probability (%)</u>											
Genotype	2.7	0.5	0.3	1.0	8.7	5.4	14.9	0.7	3.2	10.8	4.6
<u>LSD (0.10)</u>											
Genotype	1.2	3.4	11	0.5	2.5	3.7	NS	1.8	4.0	NS	5365
<u>CV (%)</u>											
	9	4	17	4	7	5	2	2	8	3	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2268 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: AgReliant Genetics, LLC

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Sattre
Soil Test: **Date:** 11/01/02 **pH** 6.4 **OM (%)** 2.1 **P (ppm)** 30 **K (ppm)** 111

Plot Management

Tillage Operations: Field Cultivator Cultivated

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant		28-0-0	535	N/A
Starter		6-24-24	150	5 /3 /02
Post plant		N/A	N/A	N/A
Manure:		None	N/A	N/A

Herbicide: Frontier 25 oz/A
Hornet 3.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/3/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/17/02 **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: 22' x 2.5' **Harvest Plant Density:** 29066 plants per acre

Hybrid

Results: Table C-11.

**Table C-11. AgReliant Hybrid Corn Silage Evaluation Study - Early.
Chippewa Falls, WI 2002.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR551	8.2	65.3	45	6.8	27	51	82	64	30	3524	29052
AGR552	7.0	62.1	27	6.8	26	50	81	62	32	3438	24044
AGR553	8.0	61.8	23	6.9	24	46	83	64	36	3634	29238
AGR554	8.1	59.8	23	6.3	28	52	81	63	31	3385	27512
AGR555	7.8	63.1	57	6.2	27	51	82	65	31	3578	28099
AGR556	8.6	62.7	25	6.1	26	49	82	64	34	3559	30386
AGR557	8.6	60.1	37	6.2	26	49	83	64	35	3538	30413
AGR558	7.7	65.7	48	6.9	27	50	81	62	32	3470	26807
AGR559	7.8	66.0	43	6.2	29	54	80	62	26	3381	26446
Mean	8.0	63.0	36	6.5	27	50	82	63	32	3501	28000
Probability (%)											
Genotype	40.4	1.4	0.0	4.6	21.6	33.3	24.7	3.8	7.8	17.3	34.1
LSD (0.10)											
Genotype	NS	3.0	11	0.5	NS	NS	NS	2.3	4.9	NS	NS
CV (%)											
Genotype	10	3	20	6	8	7	2	2	11	3	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2269 **Year:** 2002
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:** Corn **Soil Type:** Loyal
Soil Test: **Date:** 10/25/00 **pH** 6.5 **OM (%)** 3.3 **P (ppm)** 47 **K (ppm)** 108

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	6-24-24	150	5 /15/02
Post plant	46-0-0	100	7 /2 /02
Manure:	Manure	9342 gal/A	Fall

Herbicide: Hornet 2.4 oz/A
Harness 2 pt/A **Insecticide:** Force 4.4 lb/A

Irrigation: None

Planting Date: 5/15/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/2/02 **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: 22' x 2.5' **Harvest Plant Density:** 30096 plants per acre

Hybrid

Results: Table C-12.

**Table C-12. AgReliant Hybrid Corn Silage Evaluation Study - Early.
Marshfield, WI 2002.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR551	8.9	72.1	47	8.3	28	51	81	63	31	3491	31089
AGR552	7.7	69.2	37	7.8	29	54	79	61	29	3343	25990
AGR553	6.8	68.1	48	7.3	29	55	80	64	29	3438	23414
AGR554	7.7	66.4	28	7.4	29	54	80	63	30	3400	26337
AGR555	9.2	69.4	40	7.2	28	51	82	65	31	3557	32753
AGR556	9.3	69.4	42	7.4	28	51	80	60	33	3388	31498
AGR557	8.7	67.0	48	7.6	28	52	82	64	32	3541	30866
AGR558	9.1	67.5	53	7.6	27	50	81	62	33	3479	31483
AGR559	8.5	72.2	23	7.9	29	52	80	62	29	3396	28886
Mean	8.4	69.1	41	7.6	28	52	81	63	31	3448	29146
Probability (%)											
Genotype	1.2	9.6	26.9	6.0	76.2	38.2	54.3	13.3	28.3	50.2	3.4
LSD (0.10)											
Genotype	1.1	3.5	NS	0.5	NS	NS	NS	NS	NS	NS	4646
CV (%)											
	9	4	36	5	6	5	2	3	9	4	11

FIELD EXPERIMENT HISTORY

Title: AgReliant Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2270 **Year:** 2002
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:** 11/01/02 **pH** 6.8 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 105

Plot Management

Tillage Operations: Moldboard Field Cultivator Cultivated

Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	6-24-24	150	5 /15/02
Post plant	N/A	N/A	N/A
Manure:	Manure	7500 gal/A	Fall

Herbicide: Surpass 1 pt/A
Accent Gold 2 oz/A
Banvel 2 oz/A **Insecticide:** Force 4.4 lb/A

Irrigation: None

Planting Date: 5/15/02 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/24/02 **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: 22' x 2.5' **Harvest Plant Density:** 28750 plants per acre

Hybrid

Results: Table C-13.

**Table C-13. AgReliant Hybrid Corn Silage Evaluation Study - Early.
Valders, WI 2002.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
AGR551	5.5	62.8	45	8.1	24	50	86	71	25	3788	20724
AGR552	4.5	58.3	25	8.0	24	50	85	71	28	3675	16606
AGR553	5.2	58.0	28	7.9	22	48	87	72	30	3772	19751
AGR554	5.4	54.2	15	7.4	24	48	85	70	32	3581	19440
AGR555	6.2	58.7	50	7.6	22	47	88	74	30	3888	24156
AGR556	6.4	58.6	37	7.9	22	46	87	72	33	3814	24485
AGR557	6.7	55.2	42	7.9	23	47	87	72	32	3713	24979
AGR558	5.4	58.8	50	7.5	23	48	85	69	29	3668	20001
AGR559	5.6	60.5	40	8.4	24	49	86	71	27	3764	21190
Mean	5.7	58.3	37	7.8	23	48	86	71	30	3740	21259
<u>Probability (%)</u>											
Genotype	6.1	1.0	2.7	39.7	30.7	16.1	4.9	7.1	0.8	1.1	2.7
<u>LSD (0.10)</u>											
Genotype	1.1	3.2	17	NS	NS	NS	1.4	2.2	3.4	115	3912
<u>CV (%)</u>											
	13	4	32	7	5	4	1	2	8	2	13