

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2273 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Thurston Genetics, Inc.

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:** 0.09 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 23602 plants per acre

Hybrid

Results: Table C-16.

**Table C-16. Thurston Hybrid Corn Silage Evaluation Study - Late.
Arlington, 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
TE7130	8.3	62.7	57	7.5	24	47	84	66	32	3650	30402
TE8785	9.0	63.5	28	8.2	25	49	83	66	34	3645	32635
TE8983	8.7	65.1	45	8.5	24	47	84	67	31	3723	32309
TE8991	7.8	66.4	48	8.5	27	51	81	63	28	3459	26639
TE9002	9.2	62.5	47	7.6	24	47	84	67	33	3696	34021
TE9716	7.4	67.0	40	8.4	24	48	86	70	32	3849	28334
TE9899	9.2	61.8	23	7.5	25	48	82	63	33	3504	32418
TE9977	8.7	63.9	58	8.9	25	49	83	66	30	3649	31762
TE9978	8.5	67.7	62	8.6	27	51	83	66	24	3582	30434
TE9979	8.4	65.1	50	8.2	29	55	82	66	22	3513	29619
TE9980	9.1	66.7	47	8.5	27	51	81	64	24	3464	31386
Mean	8.6	64.8	46	8.2	25	49	83	66	29	3612	31039
Probability (%)											
Genotype	3.1	1.7	7.5	0.0	2.6	5.3	0.8	0.0	2.1	0.1	14.9
LSD (0.10)											
Genotype	1.1	2.7	15	0.5	2.5	3.9	1.9	1.4	5.4	129	NS
CV (%)											
	9	3	23	4	7	6	2	2	13	3	10

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2274 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Lancaster, WI **County:** Grant
Supported By: Thurston Genetics, Inc.

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:** 0.09 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 25027 plants per acre

Hybrid

Results: Table C-17.

**Table C-17. Thurston 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
TE7130	7.6	65.4	45	7.7	25	48	82	63	32	3551	27121
TE8785	9.4	59.9	28	8.3	21	42	85	65	39	3694	34854
TE8983	8.6	62.1	43	8.5	23	46	83	64	33	3588	30941
TE8991	9.3	66.7	47	8.2	24	47	82	61	33	3528	32915
TE9002	9.1	62.3	43	7.5	25	47	82	62	33	3485	31945
TE9716	7.1	59.6	27	7.8	23	47	86	71	37	3819	27095
TE9899	9.8	58.0	28	7.8	26	49	81	61	32	3329	32557
TE9977	8.2	63.2	57	8.4	25	50	83	65	31	3597	29280
TE9978	9.4	65.7	45	8.1	27	52	81	63	26	3452	32339
TE9979	9.6	63.5	48	7.6	26	50	83	66	30	3615	34723
TE9980	9.6	63.6	38	7.2	26	49	81	62	31	3486	33408
Mean	8.9	62.7	41	7.9	25	48	83	64	33	3559	31561
<u>Probability (%)</u>											
Genotype	6.3	2.5	1.5	0.3	5.1	1.5	0.6	0.0	0.5	0.2	30.3
<u>LSD (0.10)</u>											
Genotype	1.5	4.0	13	0.5	2.6	3.5	2.2	2.2	4.2	150	NS
<u>CV (%)</u>											
	12	5	23	4	8	5	2	2	9	3	13

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2275 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: Thurston Genetics, Inc.

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:** 0.07 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 30096 plants per acre

Hybrid

Results: Table C-18.

**Table C-18. Thurston Hybrid Corn Silage Evaluation Study - Early.
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
TE7051	7.7	56.1	30	6.6	26	50	82	63	32	3370	25915
TE8784	7.4	59.1	23	6.9	28	53	80	62	28	3303	24554
TE8785	8.5	61.8	42	6.6	26	50	81	61	33	3418	29121
TE9712	8.6	52.1	10	6.2	28	54	80	63	29	3228	27946
TE9713	8.3	52.6	15	6.0	27	52	82	65	31	3369	27814
TE9714	7.8	54.6	17	6.7	28	53	80	63	29	3258	25225
TE9929	9.7	56.3	28	6.7	28	54	80	62	29	3239	31537
TE9938	9.3	55.6	25	6.4	26	50	80	60	33	3237	30197
Mean	8.4	56.0	24	6.5	27	52	81	62	31	3303	27789
<u>Probability (%)</u>											
Genotype	8.3	0.1	2.3	21.2	81.8	76.0	73.0	1.4	73.4	27.6	19.4
<u>LSD (0.10)</u>											
Genotype	1.3	3.1	13	NS	NS	NS	NS	1.8	NS	NS	NS
<u>CV (%)</u>											
	11	4	39	6	10	8	2	2	14	3	12

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 2276 **Year:** 2002
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Galesville, WI **County:** Trempealeau
Supported By: Thurston Genetics, Inc.

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:** 0.07 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 32076 plants per acre

Hybrid

Results: Table C-19.

**Table C-19. Thurston Hybrid Corn Silage Evaluation Study - Early.
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
TE7051	9.9	65.3	43	7.6	25	47	81	60	36	3504	34602
TE8784	8.9	65.5	58	8.4	25	48	80	60	32	3434	30705
TE8785	11.6	69.1	53	8.4	26	49	80	59	33	3387	39273
TE9712	10.7	60.6	45	7.8	24	46	82	62	34	3518	37755
TE9713	11.4	62.2	55	7.3	26	48	81	61	34	3476	39592
TE9714	9.2	66.2	48	8.1	26	48	81	60	33	3482	31909
TE9929	9.9	67.2	48	7.8	28	51	79	58	30	3292	32628
TE9938	10.5	66.2	52	7.6	25	47	81	59	34	3464	36443
Mean	10.3	65.3	50	7.9	26	48	81	60	33	3445	35363
Probability (%)											
Genotype	2.3	0.2	53.8	1.2	30.6	26.5	4.1	1.9	27.4	12.4	4.5
LSD (0.10)											
Genotype	1.3	2.8	NS	0.5	NS	NS	1.6	1.4	NS	NS	5035
CV (%)											
	9	3	19	5	6	5	1	2	8	3	10