

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1614 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Thurston Genetics, Inc.

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:	None	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:** 0.08 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 33833 plants per acre

Hybrid

TE7130	TE8991
TE7565	TE9410
TE7566	TE9716
TE8785	TE9717
TE8983	

Results: Table C-20.

**Table C-20. Thurston 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
TE7130	10.6	62.9	53	6.4	22	45	73	40	36	2871	30378
TE7565	10.1	66.6	42	7.4	25	50	71	42	31	2759	28320
TE7566	10.2	66.2	38	7.5	24	48	72	42	31	2847	29162
TE8785	10.9	62.5	33	7.5	23	47	72	41	34	2820	30786
TE8983	10.2	64.3	35	7.1	22	45	74	43	34	2997	30475
TE8991	10.6	64.4	42	6.9	25	50	71	41	28	2705	28561
TE9410	10.9	65.2	58	7.1	22	45	74	43	33	3005	32743
TE9716	8.7	65.3	38	7.3	22	46	76	47	34	3151	27433
TE9717	10.6	65.4	40	7.2	23	46	74	43	34	2964	31589
Mean	10.3	64.7	42	7.2	23	47	73	42	33	2902	29939
<u>Probability (%)</u>											
Genotype	16.6	33.5	5.5	0.3	15.5	28.6	4.1	0.5	46.7	2.0	68.3
<u>LSD (0.10)</u>											
Genotype	NS	NS	13	0.4	NS	NS	2.5	2.4	NS	189	NS
<u>CV (%)</u>											
	9	3	21	4	8	6	2	4	12	5	12

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1617 **Year:** 2001
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:** 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 1qt/A
North Star 4 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:** 0.08 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31160 plants per acre

Hybrid

TE7130	TE8991
TE7565	TE9410
TE7566	TE9716
TE8785	TE9717
TE8983	

Results: Table C-21.

**Table C-21. Thurston Hybrid Corn Silage Evaluation Study - Late.
Lancaster, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
TE7130	7.6	67.7	55	7.2	25	49	69	38	30	2631	19987
TE7565	8.4	68.7	58	8.4	26	50	71	41	30	2750	23299
TE7566	8.7	66.0	52	8.2	21	43	74	39	38	2940	25750
TE8785	8.4	67.0	40	8.4	25	48	70	37	31	2659	22380
TE8983	7.7	69.4	60	7.8	26	52	70	42	27	2702	20865
TE8991	7.9	70.5	55	7.6	28	53	68	40	24	2542	20162
TE9410	8.6	67.2	63	8.1	24	48	72	41	32	2810	24136
TE9716	5.8	69.8	47	8.3	25	50	71	42	29	2785	16218
TE9717	7.7	69.3	58	8.5	25	48	71	40	32	2750	21111
Mean	7.9	68.4	54	8.1	25	49	71	40	30	2730	21545
<u>Probability (%)</u>											
Genotype	0.6	59.1	6.8	27.6	1.9	1.2	11.5	3.4	2.9	15.5	4.8
<u>LSD (0.10)</u>											
Genotype	1.1	NS	12	NS	2.4	3.7	NS	2.6	5.2	NS	4224
<u>CV (%)</u>											
	9	4	15	8	7	5	3	5	12	5	14

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1615 **Year:** 2001
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:** 11/01/01 **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:** 0.09 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 32566 plants per acre

Hybrid

TE7051	TE9713
TE7106	TE9714
TE8784	TE9719
TE8785	TE9720
TE9711	TE9721
TE9712	

Results: Table C-22.

**Table C-22. Thurston Hybrid Corn Silage Evaluation Study - Early.
Fond du Lac, WI 2001.**

Genotype	Dry Matter		Kernel							Starch %	Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Ton		Acre	
TE7051	8.0	65.8	45	6.9	26	51	69	39	30	2614	20925	
TE7106	8.2	66.8	45	7.2	28	52	69	40	28	2604	21260	
TE8784	8.4	65.0	52	7.5	24	47	71	37	35	2715	22714	
TE8785	9.1	70.7	65	7.4	26	50	69	38	30	2598	23661	
TE9711	7.4	52.6	12	7.5	25	48	69	36	34	2372	17412	
TE9712	8.4	62.2	22	6.8	27	51	69	38	31	2562	21467	
TE9713	8.8	63.2	52	6.6	28	52	68	38	30	2554	22611	
TE9714	7.4	63.7	35	7.2	25	49	70	39	33	2709	20112	
TE9719	8.8	67.4	47	7.7	27	52	68	39	27	2548	22478	
TE9720	7.7	68.3	53	7.9	26	50	70	41	31	2746	21116	
TE9721	8.2	65.4	67	6.4	32	59	64	39	21	2242	18587	
Mean	8.2	64.6	45	7.2	27	51	69	39	30	2569	21122	
Probability (%)												
Genotype	37.0	0.0	0.1	0.7	2.6	3.8	0.3	54.1	2.0	0.1	25.1	
LSD (0.10)												
Genotype	NS	2.2	17	0.6	2.9	4.9	2.2	NS	5.4	161	NS	
CV (%)												
	11	2	27	6	8	7	2	6	13	4	13	

FIELD EXPERIMENT HISTORY

Title: Thurston Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1616 **Year:** 2001
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:** 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: 0.09 A

Harvest Plot Size: 21' x 2.5'

Harvest Plant Density: 32832 plants per acre

Hybrid
TE7051 TE9713
TE7106 TE9714
TE8784 TE9719
TE8785 TE9720
TE9711 TE9721
TE9712

Results: Table C-23.

**Table C-23. Thurston Hybrid Corn Silage Evaluation Study - Early.
Galesville, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
TE7051	9.4	65.3	48	7.0	24	48	72	41	31	2794	26168
TE7106	10.4	66.6	52	7.4	25	48	72	42	30	2847	29721
TE8784	10.8	62.3	50	7.3	23	48	72	42	32	2785	30039
TE8785	9.6	73.3	57	7.3	27	52	68	39	26	2556	24662
TE9711	9.7	60.7	25	7.3	24	48	72	41	29	2744	26661
TE9712	9.1	62.1	33	7.1	24	47	72	40	31	2794	25509
TE9713	10.6	64.8	53	6.5	24	48	72	41	31	2823	30043
TE9714	8.9	63.3	45	7.6	21	43	74	39	36	2922	25921
TE9719	9.9	67.6	48	7.6	25	51	70	42	21	2667	26638
TE9720	8.8	70.6	62	7.9	24	48	72	41	30	2816	24651
TE9721	11.3	65.0	60	6.6	25	50	71	42	28	2765	31272
Mean	9.9	65.6	48	7.2	24	48	72	41	30	2774	27390
Probability (%)											
Genotype	20.2	0.5	0.0	16.2	3.8	1.6	5.1	20.1	0.9	8.5	30.6
LSD (0.10)											
Genotype	NS	4.7	9	NS	2.2	3.3	2.1	NS	5.0	165	NS
CV (%)											
	12	5	13	8	7	5	2	4	12	4	13