

FIELD EXPERIMENT HISTORY

Title: IFSI Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1612 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Illinois Foundation Seed, 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:** 0.09 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 33833 plants per acre

<u>Hybrid</u>	
10001	10006
10002	10007
10003	10008
10004	10009
10005	10010

Results: Table C-18.

**Table C-18. IFSI Hybrid Corn Silage Evaluation Study.
Arlington, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
10001	9.9	61.8	35	6.4	22	45	73	40	36	2884	28464
10002	9.8	60.6	28	6.9	24	47	72	40	32	2781	27403
10003	9.6	62.8	48	6.8	24	46	72	40	32	2815	27066
10004	8.4	64.3	32	7.0	23	45	73	40	34	2910	24408
10005	8.9	66.0	43	7.0	23	46	73	41	33	2900	25807
10006	10.2	60.2	45	6.7	22	45	73	41	35	2859	29311
10007	10.8	69.1	58	7.2	28	53	68	41	25	2571	27850
10008	10.7	63.2	52	6.7	22	44	74	41	35	2969	31899
10009	10.7	64.2	45	6.2	24	48	73	43	31	2901	31183
10010	9.9	61.2	40	6.9	22	44	74	41	35	2923	28975
Mean	9.9	63.3	43	6.8	23	46	73	41	33	2851	28236
<u>Probability (%)</u>											
Genotype	0.2	0.3	4.6	2.8	8.1	4.0	4.8	5.4	4.1	4.6	6.1
<u>LSD (0.10)</u>											
Genotype	0.9	3.1	14.2	0.4	2.9	4.3	2.5	1.4	4.9	3663	173
<u>CV (%)</u>											
	6	4	24	4	9	7	2	2	11	4	9

FIELD EXPERIMENT HISTORY

Title: IFSI Hybrid Corn Silage Trial
Experiment: 01PrivateSilage **Trial ID** 1613 **Year:** 2001
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Lancaster, WI **County:** Grant
Supported By: Illinois Foundation Seed, 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:** 0.09 A
Harvest Plot Size: 21' x 2.5' **Harvest Plant Density:** 31160 plants per acre

<u>Hybrid</u>	
10001	10006
10002	10007
10003	10008
10004	10009
10005	10010

Results: Table C-19.

**Table C-19. IFSI Hybrid Corn Silage Evaluation Study.
Lancaster, WI 2001.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield T/A	Moisture %	Milk %	CP %	ADF %	NDF %	IVD %	CWD %	Starch %	Ton	Acre
10001	7.4	66.2	53	7.3	23	46	72	38	33	2788	20763
10002	6.9	65.5	45	7.8	24	48	71	39	30	2773	19102
10003	6.1	68.3	60	8.1	28	53	67	39	22	2495	15435
10004	7.1	64.4	50	7.3	23	46	72	39	34	2833	20005
10005	5.7	75.6	48	7.8	25	49	70	38	30	2676	15192
10006	7.7	62.7	52	7.2	23	45	72	39	35	2816	21706
10007	9.5	66.7	58	7.5	24	47	71	38	32	2721	26002
10008	7.2	66.8	57	7.3	26	50	70	40	29	2712	19473
10009	10.9	58.3	45	7.4	24	48	70	38	32	2559	27669
10010	7.2	67.6	45	7.4	24	48	71	38	33	2722	19815
Mean	7.7	65.8	51	7.5	24	48	71	39	31	2718	20888
<u>Probability (%)</u>											
Genotype	1.6	23.6	69.7	78.4	28.1	51.9	14.6	90.1	28.2	4.1	5.0
<u>LSD (0.10)</u>											
Genotype	1.9	NS	NS	NS	NS	NS	NS	NS	NS	147	5556
<u>CV (%)</u>											
	18	8	21	8	9	8	2	6	15	4	19