FIELD EXPERIMENT HISTORY

Title: **IFSI Hybrid Corn Silage Trial**

Experiment: Private Silage Evaluation **Trial ID** 2430 **Year:** 2003

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: 412 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/01/03 **pH** 6.7 **OM (%)** 4.1 **P (ppm)** 70 **K (ppm)** 164

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Soil Finisher Cultivated

Fertilizer:

	Analysis	Rate	Date
Preplant	46-0-0	325	4 /22/03
Starter	6-24-24	150	5 /3 /03
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
Callisto 3.0 oz/A

Insecticide: None

Irrigation: None

Planting Date: 5/3/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/11/03 **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:** 31574 **plants per acre**

Factors/Treatments:

Hybrid	
IFSI-01	IFSI-06
IFSI-02	IFSI-07
IFSI-03	IFSI-08
IFSI-04	IFSI-09
IFSI-05	IFSI-10

Results: Table C-28.

Table C-28. IFSI Hybrid Corn Silage Evaluation Study. Arlington, WI 2003.

Genotype	Dry Matter Yield	Moisture	Kernel Milk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per Ton	Milk Per Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
IFSI-01	9.2	54.6	43	7.8	26	50	82	64	32	31554	3420
IFSI-02	7.7	54.6	52	8.0	24	48	84	66	33	27365	3539
IFSI-03	8.4	62.9	60	7.5	28	52	81	63	29	28398	3409
IFSI-04	8.8	61.2	60	7.8	24	46	83	63	34	31108	3552
IFSI-05	9.0	66.4	73	7.8	29	53	81	64	25	31262	3472
IFSI-06	8.8	60.2	45	7.8	27	52	81	63	30	30079	3406
IFSI-07	10.0	64.6	72	7.5	24	47	83	64	32	36008	3616
IFSI-08	9.0	64.5	73	7.7	28	53	79	61	23	30013	3331
IFSI-09	9.2	64.9	72	7.0	29	54	80	62	24	30824	3340
IFSI-10	9.1	68.6	92	8.0	29	54	81	64	22	31501	3449
Mean	8.9	62.3	64	7.7	27	51	81	64	28	30811	3453
Probability (%)											
Genotype	40.6	0.2	0.0	41.5	26.9	22.3	28.0	12.9	4.7	50.0	55.2
LSD (0.10)											
Genotype	NS	5.1	10.5	NS	NS	NS	NS	NS	7.0	NS	NS
CV (%)	11	6	12	6	11	9	3	3	17	5	14

FIELD EXPERIMENT HISTORY

Title: **IFSI Hybrid Corn Silage Trial**

Experiment: Private Silage Evaluation **Trial ID** 2431 **Year:** 2003

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:** Soybean **Soil Type:** Fayette Silt Loam

Soil Test: **Date:** 10/01/03 **pH** 7.1 **OM (%)** 2.1 **P (ppm)** 35 **K (ppm)** 62

Plot Management

Tillage Operations: Soil Finisher Cultivated

Fertilizer:

	Analysis	Rate	Date
Preplant	46-0-0	300	4 /27/03
Starter	6-24-24	150	4 /28/03
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: 4/28/03 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/9/03 **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:** 29990 **plants per acre**

Factors/Treatments:

Hybrid	
IFSI-01	IFSI-06
IFSI-02	IFSI-07
IFSI-03	IFSI-08
IFSI-04	IFSI-09
IFSI-05	IFSI-10

Results: Table C-29.

Table C-29. IFSI Hybrid Corn Silage Evaluation Study.
Lancaster, WI 2003.

Genotype	Dry Matter Yield	Moisture	Kernel Milk	CP	ADF	NDF	IVD	NDFD	Starch	Milk Per Ton	Milk Per Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
IFSI-01	8.1	48.2	7	6.7	27	52	81	64	33	26399	3262
IFSI-02	6.9	51.4	25	6.9	24	46	83	64	35	23321	3387
IFSI-03	7.2	60.9	33	7.4	24	46	84	65	37	26131	3633
IFSI-04	8.9	54.2	58	6.7	22	43	84	64	39	31129	3488
IFSI-05	8.8	58.8	65	6.9	24	47	84	65	33	31638	3592
IFSI-06	7.7	58.2	48	7.3	25	48	82	63	32	26416	3441
IFSI-07	8.9	60.0	65	6.8	23	45	85	65	35	32667	3669
IFSI-08	9.2	58.1	63	6.7	26	49	80	60	32	30467	3285
IFSI-09	8.9	60.0	52	6.1	26	50	81	62	31	30390	3405
IFSI-10	9.1	67.0	92	7.1	29	54	80	63	22	30822	3385
Mean	8.4	57.7	51	6.9	25	48	82	63	33	28938	3455
Probability (%)											
Genotype	1.9	0.0	0.0	10.7	9.7	6.9	2.9	6.4	1.3	0.2	4.9
LSD (0.10)											
Genotype	1.2	3.8	17.0	NS	3.5	5.2	2.5	2.7	6.2	156	4836
CV (%)	10	5	24	6	10	8	2	3	13	3	12