

FIELD EXPERIMENT HISTORY

Title: Garst Seed Company
Experiment: Private Silage Evaluation **Trial ID** 2627 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: Garst Seed Company

Site Information

Field: **Previous Crop:** **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 10/1 /04 **pH** 6.9 **OM (%)** 3.6 **P (ppm)** 38 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-24-24	150	4-29-05
Post plant	28-0-0	429	N/A
Manure:	N/A	N/A	N/A

Herbicide: Basis 0.33 oz/A
Lumax 2.5 qt/A **Insecticide:** None

Irrigation: None

Planting Date: 4-29-05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/8/05 **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:** 0.05 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
8590IT	NF647
8676IT	NF691
8689IT	NF635IT

Results: Table C-24.

**Table C-24. Garst Hybrid Corn Silage Evaluation Study - Mid.
Fond du Lac, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8590IT	8.7	61.9	63	5.9	23	44	81	57	35	3464	30009
8676IT	9.7	64.6	70	6.6	23	44	80	54	31	3362	32446
8689IT	9.1	59.1	67	5.5	21	42	82	56	36	3450	31552
NF647	8.8	63.0	70	6.4	24	45	79	53	31	3314	29195
NF691	9.6	64.9	78	5.9	24	45	79	53	32	3298	31610
NX635IT	9.3	61.4	65	5.6	23	45	79	54	34	3314	30653
Mean	9.2	62.5	69	6.0	23	44	80	55	33	3367	30911
Probability (%)											
Genotype	32.2	1.1	28.1	6.0	57.0	74.1	12.5	1.1	47.4	20.3	56.8
LSD (0.10)											
Genotype	NS	2.5	NS	0.7	NS	NS	NS	1.8	NS	NS	NS
CV (%)											
	7	3	11	7	8	6	2	2	12	3	7

FIELD EXPERIMENT HISTORY

Title: Garst Seed Company
Experiment: Private Silage Evaluation **Trial ID:** 2628 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Galesville, WI **County:** Trempealeau
Supported By: Garst Seed Company

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 10/1 /04 **pH** 6.1 **OM (%)** 3.8 **P (ppm)** 68 **K (ppm)** 229

Plot Management

Tillage Operations: Fall Zone Builder Cultivated 6 /16/05
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	218	N/A
	21-0-0	238	N/A
Starter	9-24-24	150	5 /2 /05
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Cinch 2.0 pt/A
 Callisto 3.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/2/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/12/05 **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:** 0.05 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31800 plants per acre

Factors/Treatments:

<u>Hybrid</u>	
8590IT	NF647
8676IT	NF691
8689IT	NF635IT

Results: Table C-25.

Table C-25. Garst Hybrid Corn Silage Evaluation Study - Mid. Galesville, WI 2005.

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8590IT	9.7	63.6	52	6.1	24	45	79	55	33	3369	32669
8676IT	10.1	66.4	47	6.9	23	43	79	52	35	3357	33914
8689IT	10.7	65.7	53	7.0	22	43	80	53	35	3397	36371
NF647	10.7	63.3	32	7.1	21	41	81	53	37	3429	36543
NF691	11.1	65.3	52	7.2	21	41	80	52	37	3423	38028
NX635IT	11.1	61.2	55	6.3	19	38	83	55	41	3550	39540
Mean	10.6	64.3	48	6.7	22	42	80	53	36	3421	36177
Probability (%)											
Genotype	11.3	13.8	0.6	0.0	1.6	2.7	2.6	21.3	8.4	6.5	3.6
LSD (0.10)											
Genotype	NS	NS	9	0.3	2.1	3.2	1.6	NS	4.2	107	3518
CV (%)											
	6	4	12	3	6	5	1	3	8	2	6

FIELD EXPERIMENT HISTORY

Title: Garst Seed Company
Experiment: Private Silage Evaluation **Trial ID** 2629 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: Garst Seed Company

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 10/1 /04 **pH** 6.1 **OM (%)** 2.4 **P (ppm)** 47 **K (ppm)** 142

Plot Management

Tillage Operations: Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	535	N/A
Starter	9-24-24	150	5 /2 /05
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Harness 1.6 pt/A
 Hornet 3.0 oz/A **Insecticide:** None

Irrigation: None

Planting Date: 5/2/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 8/30/05 **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:** 0.02 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 30413 plants per acre

Factors/Treatments:

<u>Hybrid</u>
8774PL
NF802CBLL

Results: Table C-26.

**Table C-26. Garst Hybrid Corn Silage Evaluation Study - Early.
Chippewa Falls, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8744PL	6.7	65.9	88	6.5	29	55	76	57	23	3137	21134
NF802CBLL	6.8	63.6	77	6.8	24	48	79	56	31	3292	22566
Mean	6.8	64.7	83	6.6	26	52	77	56	27	3214	21850
<u>Probability (%)</u>											
Genotype	70.7	13.8	11.8	51.7	1.7	1.4	9.0	34.7	2.3	12.5	38.0
<u>LSD (0.10)</u>											
Genotype	NS	NS	NS	NS	1.4	1.8	1.7	NS	3.0	NS	NS
<u>CV (%)</u>											
	5	2	7	6	3	2	1	2	6	2	7

FIELD EXPERIMENT HISTORY

Title: Garst Seed Company
Experiment: Private Silage Evaluation **Trial ID** 2630 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Marshfield, WI **County:** Wood
Supported By: Garst Seed Company

Site Information

Field: **Previous Crop:** **Soil Type:** Loyal Silt Loam
Soil Test: **Date:** 10/1 /04 **pH** 6.7 **OM (%)** 3.4 **P (ppm)** 94 **K (ppm)** 212

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-24-24	150	5 /3 /05
Post plant	28-0-0	160	N/A
Manure:	Dairy	6832 gal/A	Fall

Herbicide: Lumax 2.25 qt/A **Insecticide:** None
Irrigation: None

Planting Date: 5/3/05 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/20/05 **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:** 0.02 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 31086 plants per acre
Factors/Treatments:

- Hybrid
- 8774PL
- NF802CBLL

Results: Table C-27.

**Table C-27. Garst Hybrid Corn Silage Evaluation Study - Early.
Marshfield, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8744PL	7.7	63.6	53	7.8	24	48	80	58	29	3361	25904
NF802CBLL	7.4	62.6	55	8.8	21	46	81	58	31	3442	25633
Mean	7.6	63.1	54	8.3	23	47	80	58	30	3401	25768
Probability (%)											
Genotype	77.2	41.0	80.8	15.0	4.1	5.9	9.1	50.8	2.7	18.6	92.8
LSD (0.10)											
Genotype	NS	NS	NS	NS	1.5	1.6	1.1	NS	1.0	NS	NS
CV (%)	13	2	14	7	3	2	1	2	2	1	13

FIELD EXPERIMENT HISTORY

Title: Garst Seed Company
Experiment: Private Silage Evaluation **Trial ID** 2631 **Year:** 2005
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Valders, WI **County:** Manitowoc
Supported By: Garst Seed Company

Site Information

Field: **Previous Crop:** **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** N/A **pH** 7.3 **OM (%)** 3.3 **P (ppm)** 53 **K (ppm)** 305

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivate
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-24-24	150	5 /4 /05
Post plant	34-0-0	147	N/A
Manure:	Dairy	20 Ton/A	Fall

Herbicide: Steadfast 0.5 oz/A
 Distinct 2.0 oz/A
 Permit 0.2 oz/A

Insecticide: Force 4.4 lb/A

Irrigation: None

Planting Date: 5/4/05 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/16/05 **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:** 0.02 A
Harvest Plot Size: 22' x 2.5' **Harvest Plant Density:** 28776 plants per acre

Factors/Treatments:

<u>Hybrid</u>
8774PL
NF802CBLL

Results: Table C-28.

**Table C-28. Garst Hybrid Corn Silage Evaluation Study - Early.
Valders, WI 2005.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8744PL	7.3	48.7	45	6.9	18	41	83	57	37	3328	24324
NF802CBLL	7.7	46.4	38	7.1	15	34	85	56	45	3423	26334
Mean	7.5	47.6	42	7.0	16	37	84	57	41	3376	25329
<u>Probability (%)</u>											
Genotype	46.6	47.4	38.3	43.0	1.3	0.7	1.2	33.0	0.8	9.5	34.3
<u>LSD (0.10)</u>											
Genotype	NS	NS	NS	NS	1.0	1.3	0.6	NS	1.6	74	NS
<u>CV (%)</u>	7	7	18	3	3	2	0	3	2	1	8