

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2510 **Year:** 2004  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** Garst Seed Company

### Site Information

**Field:** 407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 7.0 **OM (%)** 3.9 **P (ppm)** 69 **K (ppm)** 258

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	325	N/A
<b>Starter</b>	6-24-24	150	4 /29/04
<b>Post plant</b>	34-0-0	150	6 /14/04
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Dual II 2pt/A Insecticide: None  
 Hornet 3.5 oz/A  
**Irrigation:** None

**Planting Date:** 4/29/04 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/21/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre  
**Factors/Treatments:**

<u>Hybrid</u>	
8450IT	NE486
8523IT	NE518IT
NE320IT	NE554
NE446IT	

**Results: Table C-25.**

**Table C-25. Garst Hybrid Corn Silage Evaluation Study - Late.  
Arlington, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8450IT	9.5	70.0	60	7.6	26	51	80	60	27	3381	32095
8523IT	10.3	67.6	67	7.5	23	46	82	61	30	3541	36628
NE320IT	11.2	65.0	55	7.2	24	48	81	60	29	3468	39009
NE446IT	10.9	69.0	68	7.4	24	48	82	63	29	3594	39168
NE486	10.6	68.8	70	7.3	22	44	83	62	30	3643	38489
NE518IT	9.2	66.5	60	7.4	24	47	81	59	30	3461	31826
NE554	10.1	67.5	63	7.2	26	49	80	60	30	3430	34788
Mean	10.3	67.8	63	7.4	24	48	81	61	29	3503	36000
<b>Probability (%)</b>											
Genotype	12.2	0.1	3.7	46.3	3.1	4.0	3.9	2.5	9.9	4.0	8.6
<b>LSD (0.10)</b>											
Genotype	NS	1.4	7	NS	2.0	3.0	1.7	1.6	2.2	131	5061
<b>CV (%)</b>											
	8	1	8	4	6	4	1	2	5	3	10

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2511 **Year:** 2004  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Lancaster, WI **County:** Grant  
**Supported By:** Garst Seed Company

### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Fayette Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 7.1 **OM (%)** **P (ppm)** 35 **K (ppm)** 62

### Plot Management

**Tillage Operations:** Disk Soil Finisher Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	413	N/A
<b>Starter</b>	6-24-24	150	4 /27/04
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Atrazine 1 qt/A **Insecticide:** Force 4.4 lb/A  
 Harness 1 qt/A

**Irrigation:** None

**Planting Date:** 4/27/04 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/17/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31152 plants per acre  
**Factors/Treatments:**

<u>Hybrid</u>	
8450IT	NE486
8523IT	NE518IT
NE320IT	NE554
NE446IT	

**Results: Table C-26.**

**Table C-26. Garst Hybrid Corn Silage Evaluation Study - Late.  
Lancaster, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8450IT	10.7	67.0	48	7.1	23	45	82	59	34	3516	37856
8523IT	10.6	60.7	57	7.2	21	43	83	60	37	3511	37102
NE320IT	10.8	59.3	40	6.7	20	41	83	60	39	3546	38391
NE446IT	10.9	63.5	53	6.7	23	46	81	60	33	3493	38144
NE486	10.6	66.3	55	6.9	23	47	81	59	31	3476	36928
NE518IT	10.5	58.0	53	6.8	21	43	83	60	37	3493	36644
NE554	11.0	63.1	48	6.7	23	45	82	59	36	3529	38772
Mean	10.7	62.6	51	6.9	22	44	82	60	35	3509	37691
<b><u>Probability (%)</u></b>											
Genotype	98.5	2.0	26.4	33.3	39.3	38.3	49.6	92.8	27.3	99.2	98.8
<b><u>LSD (0.10)</u></b>											
Genotype	NS	4.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b><u>CV (%)</u></b>											
	8	5	16	5	10	7	2	2	11	3	10

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2512 **Year:** 2004  
**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:** Corn **Soil Type:** Virgil Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.9 **OM (%)** 4.5 **P (ppm)** 27 **K (ppm)** 85

### Plot Management

**Tillage Operations:** Moldboard Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	82-0-0	183	N/A
<b>Starter</b>	6-24-24	150	5 /3 /04
<b>Post plant</b>	28-0-0	135	N/A
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Cinch ATZ Lite 2.25 pt/A  
 Cinch 0.67 pt/A  
 Hornet 3.0 oz/A

**Insecticide:** Force 4.4 lb/A

**Irrigation:** None

**Planting Date:** 5/3/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/24/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre

**Factors/Treatments:**

Hybrid  
 8625  
 8787YG1  
 NE634IT  
 NE685IT

**Results:** Table C-27.

**Table C-27. Garst Hybrid Corn Silage Evaluation Study - Mid.  
Fond du Lac, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8625	7.6	64.1	48	6.1	22	44	83	62	35	3646	27645
8787YG1	8.8	58.9	40	6.1	22	46	82	60	32	3425	30276
NE634IT	8.2	63.0	48	5.6	22	45	83	62	34	3619	29786
NE685IT	7.2	63.9	52	5.2	21	43	84	63	36	3672	26228
Mean	8.0	62.5	47	5.7	22	44	83	62	34	3590	28484
<b>Probability (%)</b>											
Genotype	45.4	18.1	34.8	13.8	95.7	78.0	41.3	50.6	39.6	11.7	70.0
<b>LSD (0.10)</b>											
Genotype	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>CV (%)</b>											
	16	4	16	8	9	7	2	4	7	3	16

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2513 **Year:** 2004  
**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)** 22 **K (ppm)** 150

### Plot Management

**Tillage Operations:** V-Rip Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	46-0-0	348	N/A
<b>Starter</b>	6-24-24	150	4 /28/04
<b>Post plant</b>	34-0-0	150	6 /25/04
<b>Manure:</b>	N/A	N/A	N/A

**Herbicide:** Dual II 2.25 pt/A  
 Callisto 3.0 oz/A **Insecticide:** None

**Irrigation:** None

**Planting Date:** 4/28/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/22/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31086 plants per acre

**Factors/Treatments:**

<u>Hybrid</u>
8625
8787YG1
NE634IT
NE685IT

**Results: Table C-28.**

**Table C-28. Garst Hybrid Corn Silage Evaluation Study - Mid.  
Galesville, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8625	8.9	69.1	57	7.3	24	47	82	61	33	3525	31337
8787YG1	9.4	66.6	58	7.1	23	46	81	59	34	3489	32620
NE634IT	11.0	67.2	63	6.8	23	45	82	60	33	3552	39072
NE685IT	9.4	69.8	60	7.1	24	47	81	59	31	3470	32626
Mean	9.7	68.2	60	7.1	23	46	81	60	33	3509	33914
<b>Probability (%)</b>											
Genotype	13.4	21.6	85.5	61.0	90.7	96.1	94.4	43.3	83.3	92.6	11.9
<b>LSD (0.10)</b>											
Genotype	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>CV (%)</b>											
	10	3	16	6	11	9	3	2	15	5	10



## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2514 **Year:** 2004  
**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 /03 **pH** 6.4 **OM (%)** 2.1 **P (ppm)** 25 **K (ppm)** 109

### Plot Management

**Tillage Operations:** Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	28-0-0	535	N/A
<b>Starter</b>	6-24-24	150	4 /28/04
<b>Post plant</b>	N/A	N/A	N/A
<b>Manure:</b>	N/A	N/A	N/A

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

**Irrigation:** None

**Planting Date:** 4/28/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 9/28/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 30096 plants per acre

#### **Factors/Treatments:**

##### Hybrid

8865	NE839IT
8920RR	NE892RR
8922YG1	NE909
8986YGRR	NE919RR
NE795IT	

**Results: Table C-29.**

**Table C-29. Garst Hybrid Corn Silage Evaluation Study - Early.  
Chippewa Falls, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8865	9.1	62.1	33	7.5	21	43	84	64	33	3698	33618
8920RR	7.3	60.0	32	6.7	21	45	85	66	34	3707	26886
8922YG1	7.6	62.7	50	6.7	21	44	85	66	35	3763	28804
8986YGRR	8.1	56.1	23	6.8	19	40	84	61	38	3530	28648
NE795IT	9.0	62.5	48	6.4	23	46	82	61	33	3540	31761
NE839IT	8.3	63.3	27	7.2	24	47	81	60	31	3485	28924
NE892RR	8.3	61.7	42	6.8	22	44	83	61	34	3585	29861
NE909	8.8	62.9	27	6.8	23	45	82	60	33	3522	30974
NE919RR	8.6	62.7	32	6.7	22	43	82	58	35	3490	29965
Mean	8.4	61.7	35	6.9	22	44	83	62	34	3594	29988
<b>Probability (%)</b>											
Genotype	11.9	3.2	0.4	1.1	13.0	35.5	2.5	0.0	47.3	0.7	29.3
<b>LSD (0.10)</b>											
Genotype	NS	2.8	11	0.4	NS	NS	1.9	1.9	NS	123	NS
<b>CV (%)</b>											
	9	3	22	4	8	6	2	2	8	2	10

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2515 **Year:** 2004  
**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:** Soybean **Soil Type:** Loyal Silt Loam  
**Soil Test:** **Date:** 10/1 /04 **pH** 6.5 **OM (%)** 2.9 **P (ppm)** 38 **K (ppm)** 103

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	6-24-24	150	4 /29/04
<b>Post plant</b>	28-0-0	27 gal/A	6 /22/04
<b>Manure:</b>	N/A	N/A	N/A

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

**Planting Date:** 4/29/04 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 32000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 9/29/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31680 plants per acre

#### **Factors/Treatments:**

##### Hybrid

8865	NE839IT
8920RR	NE892RR
8922YG1	NE909
8986YGRR	NE919RR
NE795IT	

**Results: Table C-30.**

**Table C-30. Garst Hybrid Corn Silage Evaluation Study - Early.  
Marshfield, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8865	7.9	58.0	45	6.7	24	49	82	64	30	3482	27574
8920RR	7.0	58.7	43	6.9	21	45	85	67	34	3696	25776
8922YG1	7.7	57.8	52	6.4	22	47	85	68	32	3690	28388
8986YGRR	7.6	52.9	23	6.9	21	46	83	62	34	3329	25214
NE795IT	6.9	60.7	55	7.0	24	50	81	62	30	3417	23609
NE839IT	6.5	60.5	42	7.1	24	50	82	64	29	3485	22801
NE892RR	7.3	59.3	58	6.4	23	48	83	64	32	3516	25662
NE909	7.1	58.8	37	6.6	24	49	82	64	31	3468	24775
NE919RR	7.2	59.9	33	6.9	22	47	82	62	33	3459	24971
Mean	7.3	58.5	43	6.8	23	48	83	64	32	3505	25419
<b>Probability (%)</b>											
Genotype	27.0	2.4	1.0	3.2	5.9	16.4	1.4	0.0	16.4	0.0	16.8
<b>LSD (0.10)</b>											
Genotype	NS	3.3	14	0.4	2.1	NS	1.8	2.0	NS	102	NS
<b>CV (%)</b>											
	9	4	22	4	7	5	2	2	8	2	9

## FIELD EXPERIMENT HISTORY

**Title:** Garst Hybrid Corn Silage Trial  
**Experiment:** Private Silage Evaluation **Trial ID** 2516 **Year:** 2004  
**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:** Corn **Soil Type:** Kewaunee Clay Loam  
**Soil Test:** **Date:** 10/1 /03 **pH** 6.9 **OM (%)** **P (ppm)** 91 **K (ppm)** 186

### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	N/A	N/A	N/A
<b>Starter</b>	6-24-24	150	5 /4 /04
<b>Post plant</b>	34-0-0	150	6 /30/04
<b>Manure:</b>	Manure	11000 gal/A	Fall

**Herbicide:** Dual II 1.0 pt/A  
 Accent Gold WDG 2.5 oz/A  
 Banvel 2.0 oz/A

**Insecticide:** Force 4.4 lb/A

**Irrigation:** None

**Planting Date:** 5/4/04 **Planting Depth:** 1.5" **Row Width** 30"

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

**Harvest Date:** 10/5/04 **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:** 0.10 A  
**Harvest Plot Size:** 22' x 2.5' **Harvest Plant Density:** 31284 plants per acre

### Factors/Treatments:

#### Hybrid

8865	NE839IT
8920RR	NE892RR
8922YG1	NE909
8986YGRR	NE919RR
NE795IT	

**Results: Table C-31.**

**Table C-31. Garst Hybrid Corn Silage Evaluation Study - Early.  
Valders, WI 2004.**

Genotype	Dry Matter		Kernel							Milk Per	
	Yield	Moisture	Milk	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	%	lbs/T	lbs/A
8865	8.7	59.0	48	7.0	20	43	85	64	36	3630	31753
8920RR	8.6	56.7	53	6.7	18	40	87	67	38	3744	32082
8922YG1	8.9	56.8	42	7.1	16	39	88	68	40	3812	33943
8986YGRR	8.8	57.8	33	7.5	18	41	85	64	37	3634	32114
NE795IT	8.6	57.5	65	6.9	20	44	84	64	34	3549	30635
NE839IT	9.4	58.0	33	6.9	20	42	85	64	36	3626	34060
NE892RR	9.2	59.8	55	6.9	21	45	84	64	34	3608	33137
NE909	8.3	53.6	33	6.8	18	40	85	62	39	3488	29044
NE919RR	9.0	59.1	45	6.8	18	41	84	61	38	3584	32382
Mean	8.8	57.7	46	7.0	19	42	85	65	37	3637	32174
<b>Probability (%)</b>											
Genotype	53.5	63.7	8.0	10.7	0.2	0.6	0.2	0.1	3.1	4.2	47.2
<b>LSD (0.10)</b>											
Genotype	NS	NS	17	NS	1.6	2.4	1.3	2.0	3.0	132	NS
<b>CV (%)</b>											
	6	5	26	4	6	4	1	2	6	3	7