

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6449 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 6.1 **OM (%)** 2.8 **P (ppm)** 60 **K (ppm)** 119

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	350 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	4 /28/20
Post plant	N/A	N/A	N/A
Manure:	Dairy	13543 gal/A	N/A

Herbicide: Resicore 80.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Factor

Planting Date: 4/28/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/14/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.12 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 36580 plants per acre

Hybrids:

90771	SK6758
90921	SL6177
91089	SL6768
91384	SL7117
91480	SL7918
91482	SM6664
SK6167	

Results: Table 2001-04.

**Table: 2001-04. Syngenta Corn Silage Evaluation Study.
Arlington, WI - 2020.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90771	13.0	66.8	7.9	22.7	41.0	81.6	55.2	25.4	2935	38270
90921	12.2	66.5	7.6	21.9	40.0	82.7	57.0	30.3	3289	40292
91089	13.0	68.7	8.0	21.1	39.1	83.2	56.9	29.1	3186	41445
91384	12.4	66.6	8.2	20.4	38.3	84.3	59.3	31.1	3346	41695
91480	11.1	71.3	7.0	23.8	42.5	80.6	54.9	24.8	2871	32520
91482	11.5	68.1	7.5	24.1	42.1	81.4	55.8	27.6	3146	36405
SK6167	12.3	69.1	8.1	22.7	41.3	82.1	56.6	25.9	3038	37477
SK6758	11.8	69.6	8.1	23.8	43.3	80.8	55.7	21.3	2737	32186
SL6177	10.2	70.3	7.9	23.2	42.2	82.5	58.5	24.5	2999	30578
SL6768	10.4	70.0	8.2	23.0	42.3	81.3	55.9	22.0	2758	28661
SL7117	10.8	68.8	7.7	21.4	39.2	82.2	54.5	30.5	3217	34914
SL7918	12.2	69.6	7.9	19.8	37.5	84.7	59.3	29.9	3217	39496
SM6664	10.7	68.4	7.4	22.1	40.2	82.2	55.9	28.3	3112	33436
Mean	11.7	68.8	7.8	22.3	40.7	82.3	56.6	27.0	3066	35952
<u>Probability (%)</u>										
Hybrid (H)	12.5	39.1	2.6	77.8	66.8	65.2	28.2	6.3	1.9	16.9
<u>LSD (0.10)</u>										
Hybrid (H)	NS	NS	0.5	NS	NS	NS	NS	5.5	288	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6450 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Chippewa Falls, WI **County:** Chippewa
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Sattre Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 5.5 **OM (%)** 1.6 **P (ppm)** 69 **K (ppm)** 117

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	21-0-0-24S	52 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /4 /20
Post plant	46-0-0	200 lbs/A	N/A
Manure:	Dairy	10000 gal/A	N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Factor

Planting Date: 5/4/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/11/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.05 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32954 plants per acre

Hybrids:

90771
 SH4397
 SH4688
 SK6167
 SL5367

Results: Table 2001-05.

**Table: 2001-05. Syngenta Corn Silage Evaluation Study.
Chippewa Falls, WI - 2020.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90771	11.4	63.6	6.6	20.5	37.8	84.4	58.7	31.5	3251	37160
SH4397	10.3	64.1	7.2	17.7	34.8	87.5	64.2	32.4	3328	34292
SH4688	10.5	62.9	7.4	18.7	35.7	85.2	58.4	31.7	3198	33560
SK6167	10.4	68.9	6.8	22.5	40.3	82.0	55.9	27.7	3039	31918
SL5367	11.0	62.4	7.0	17.2	34.3	87.5	63.6	34.6	3423	37497
Mean	10.7	64.4	7.0	19.3	36.6	85.3	60.2	31.6	3248	34885
<u>Probability (%)</u>										
Hybrid (H)	56.3	6.0	4.8	11.1	9.6	10.0	6.9	13.1	11.1	44.8
<u>LSD (0.10)</u>										
Hybrid (H)	NS	3.7	0.4	NS	3.9	NS	5.2	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6451 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 6.6 **OM (%)** 3.0 **P (ppm)** 20 **K (ppm)** 117

Plot Management

Tillage Operations: Strip-Till

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	28-0-0	107 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /5 /20
Post plant	32-0-0	397 lbs/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Factor

Planting Date: 5/5/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/18/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.04 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 24495 plants per acre

Hybrids:

90594
 90771
 SK6758
 SL5367

Results: Table 2001-06.

Table: 2001-06. Syngenta Corn Silage Evaluation Study.
Fond du Lac, WI - 2020.

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90594	8.8	66.1	6.0	19.8	37.8	87.1	66.3	27.8	3131	27828
90771	8.1	65.4	5.4	19.1	36.4	86.7	63.6	30.8	3210	26134
SK6758	8.2	62.7	6.0	16.7	33.3	89.3	68.0	34.2	3384	27564
SL5367	9.0	66.1	5.3	20.4	38.1	86.1	63.7	28.7	3123	28163
Mean	8.5	65.1	5.7	19.0	36.4	87.3	65.4	30.4	3212	27422
Probability (%)										
Hybrid (H)	81.7	15.1	9.7	12.6	11.1	17.0	20.6	11.5	19.9	96.0
LSD (0.10)										
Hybrid (H)	NS	NS	0.6	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6452 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Galesville, WI **County:** Trempeleau
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 5.2 **OM (%)** 4.6 **P (ppm)** 65 **K (ppm)** 113

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant		46-0-0	217 lbs/A	N/A
		21-0-0-24S	100 lbs/A	
		18-46-0	100 lbs/A	
Starter		9-11-30-6S-1Zn	200 lbs/A	4 /29/20
Post plant		N/A	N/A	N/A
Manure:		Dairy	N/A	N/A

Herbicide: Dual II Mag 3.0 pt/A **Insecticide:** Force 3G 4.4 lbs/A
 Callisto 3.0 oz/A **Hybrid:** Factor

Irrigation: None

Planting Date: 4/29/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/3/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.04 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33636 plants per acre

Hybrids:

90594
 90771
 SK6758
 SL5367

Results: Table 2001-07.

**Table: 2001-07. Syngenta Corn Silage Evaluation Study.
Galesville, WI - 2020.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90594	11.2	69.9	6.6	23.5	40.7	81.8	55.3	28.7	3096	34771
90771	13.2	68.9	7.0	22.4	39.7	82.7	56.5	28.5	3085	40905
SK6758	12.1	68.3	7.2	23.9	42.9	81.7	57.3	24.6	2958	35679
SL5367	8.7	70.2	7.6	23.3	41.2	83.5	60.0	26.6	3127	27176
Mean	11.3	69.3	7.1	23.3	41.1	82.4	57.3	27.1	3066	34633
<u>Probability (%)</u>										
Hybrid (H)	5.7	68.3	20.6	60.1	15.5	25.1	3.9	7.5	20.5	8.2
<u>LSD (0.10)</u>										
Hybrid (H)	2.5	NS	NS	NS	NS	NS	2.3	2.7	NS	8102

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6453 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Marshfield, WI **County:** Marathon
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Fenwood Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 6.9 **OM (%)** 3.3 **P (ppm)** 24 **K (ppm)** 146

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /1 /20
Post plant	30-0-02.6S	390 lbs/A	N/A
Manure:	Dairy	25 ton	N/A

Herbicide: Instigate 6.0 oz/A
 Breakfree 3.8 pt/A

Insecticide: Force 3G 4.4 lbs/A
Hybrid: Factor

Irrigation: None

Planting Date: 5/1/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/23/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB

Replications: 3

Plot Size Seeded: 5' x 23'

Experiment Size: 0.05 A

Harvest Plot Size: 2.5' x 23'

Harvest Plant Density: 32954 plants per acre

Hybrids:

90771
 SH4397
 SH4688
 SK6167
 SL5367

Results: Table 2001-08.

**Table: 2001-08. Syngenta Corn Silage Evaluation Study.
Marshfield, WI - 2020.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90771	9.6	70.6	6.1	24.3	43.4	80.5	55.2	24.4	2825	27060
SH4397	8.8	72.0	6.6	24.9	43.4	81.5	57.3	25.4	3002	26523
SH4688	8.6	72.1	7.0	23.5	41.9	81.3	55.6	25.8	2949	25536
SK6167	8.7	73.6	6.5	24.6	44.2	80.9	56.7	21.9	2734	23844
SL5367	7.9	72.8	6.3	27.0	47.0	80.2	57.8	19.5	2681	21280
Mean	8.7	72.2	6.5	24.8	44.0	80.8	56.5	23.4	2838	24849
<u>Probability (%)</u>										
Hybrid (H)	12.2	44.6	6.8	68.6	54.6	95.5	48.6	26.8	33.6	31.4
<u>LSD (0.10)</u>										
Hybrid (H)	NS	NS	0.5	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6454 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Montfort, WI **County:** Iowa
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Dodgeville Silt Loam
Soil Test: **Date:** 9 /1 /20 **pH** 5.3 **OM (%)** 3.2 **P (ppm)** 10 **K (ppm)** 130

Plot Management

Tillage Operations: Strip-Till

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	443 lbs/A	N/A
	12-0-026S	108 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	4 /27/20
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide:	Explorer 3.0 oz/A Zidua 3.25 oz/A Atrazine 4L 32.0 oz/A Roundup 25.6 oz/A	Insecticide:	Force 3G 4.4 lbs/A
		Hybrid:	Factor

Irrigation: None

Planting Date: 4/27/20 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter

Harvest Date: 9/15/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB	Replications: 3
Plot Size Seeded: 5' x 23'	Experiment Size: 0.12 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 32348 plants per acre

Hybrids:

90771	SK6758
90921	SL6177
91089	SL6768
91384	SL7117
91480	SL7918
91482	SM6664
SK6167	

Results: Table 2001-09.

**Table: 2001-09. Syngenta Corn Silage Evaluation Study.
Montfort, WI - 2020.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90771	10.8	69.1	7.5	21.8	39.4	83.0	57.1	28.0	3080	33329
90921	11.2	67.7	7.2	21.6	38.5	83.4	56.7	31.1	3250	36420
91089	8.2	73.9	7.2	26.5	44.9	78.1	51.3	22.8	2756	22736
91384	12.6	66.9	7.7	20.3	38.2	84.5	59.5	30.2	3264	41116
91480	12.5	68.0	6.7	20.2	37.4	84.4	58.4	30.3	3135	39386
91482	11.9	68.8	7.1	22.3	39.5	82.5	55.6	30.9	3248	38777
SK6167	10.5	70.7	6.9	21.3	39.1	82.3	54.8	30.1	3138	32806
SK6758	11.1	69.2	7.0	23.8	42.7	81.1	55.8	24.3	2870	31884
SL6177	10.3	71.4	7.0	24.7	43.2	80.7	55.4	23.6	2829	29135
SL6768	10.9	70.4	7.6	22.2	40.7	83.9	60.3	23.0	2824	30855
SL7117	11.7	68.7	6.7	22.7	40.2	81.5	54.4	28.0	2986	34963
SL7918	10.6	71.8	7.7	21.9	40.0	82.8	57.1	27.0	3045	32405
SM6664	9.8	68.5	7.0	20.8	37.7	84.1	57.8	30.2	3159	31056
Mean	10.9	69.6	7.2	22.3	40.1	82.5	56.5	27.6	3045	33451
<u>Probability (%)</u>										
Hybrid (H)	0.4	0.1	0.0	2.2	3.4	2.3	0.7	0.3	0.2	0.1
<u>LSD (0.10)</u>										
Hybrid (H)	1.5	2.3	0.3	2.7	3.5	2.7	3.2	4.0	216	5574

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6455 **Year:** 2020
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 9 /1 /20 **pH** 7.1 **OM (%)** 3.1 **P (ppm)** 12 **K (ppm)** 71

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /6 /20
Post plant	32-0-0	443 lbs/A	N/A
Manure:	Dairy	10000 gal/A	N/A

Herbicide: TripleFlex 3.0 qt/A
 Realm Q 4.0oz/A
 Atrazine 1.0 lb/A

Insecticide: Force 3G 4.4 lbs/A
Hybrid: Factor

Irrigation: None

Planting Date: 5/6/20 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/17/20 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.05 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32070 plants per acre

Hybrids:

90771
 SH4397
 SH4688
 SK6167
 SL5367

Results: Table 2001-10.

**Table: 2001-10. Syngenta Corn Silage Evaluation Study.
Valders, WI - 2020.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
90771	11.0	64.6	5.2	22.3	40.1	82.3	56.0	29.9	3067	33589
SH4397	9.0	64.7	6.2	19.9	36.9	85.8	61.7	33.3	3359	30519
SH4688	9.3	63.7	6.7	20.5	37.5	83.8	57.0	30.9	3109	28973
SK6167	9.2	66.4	6.1	21.6	40.0	82.4	56.2	29.2	3087	28675
SL5367	9.3	65.3	6.4	21.1	38.9	84.7	60.8	28.9	3132	29197
Mean	9.6	64.9	6.1	21.1	38.7	83.8	58.3	30.4	3151	30190
<u>Probability (%)</u>										
Hybrid (H)	32.1	67.9	0.4	78.9	71.2	32.8	3.0	66.6	31.9	76.2
<u>LSD (0.10)</u>										
Hybrid (H)	NS	NS	0.5	NS	NS	NS	3.3	NS	NS	NS