

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6364 **Year:** 2019
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH, Syngenta

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 5 /1 /19 **pH:** 5.7 **OM (%)** 3.3 **P (ppm)** 30 **K (ppm)** 136

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	123 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /13/19
Post plant	N/A	N/A	N/A
Manure:	Dairy	9258 gal/A	N/A

Herbicide: Resicore 80.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Factor
Planting Date: 5/13/19 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/18/19 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 35226 plants per acre

Hybrids:

G12W66-3122 EZ
 G90921
 G90926
 G91088
 G91214
 G91406
 G91489
 G91492
 G91591
 SK6303
 SL6177

Results: Table 1901-02.

**Table: 1901-02. Syngenta Corn Silage Evaluation Study.
Arlington, WI - 2019.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
G12W66-3122 EZ	10.3	70.6	7.2	22.2	39.0	83.3	57.2	30.6	3252	33542
G90921	11.1	71.8	7.1	25.9	44.1	80.0	54.6	24.5	2932	32590
G90926	10.9	73.2	7.2	23.6	41.3	82.5	57.7	27.7	3144	34190
G91088	12.8	73.2	6.9	24.7	42.8	81.3	56.5	25.8	3004	38560
G91214	10.3	73.3	7.6	23.4	41.1	82.3	57.0	26.9	3078	31812
G91406	10.8	71.3	7.1	24.1	42.1	81.5	56.2	27.2	3093	33477
G91489	10.9	71.9	7.2	23.6	42.1	82.4	58.2	26.3	3074	33406
G91492	10.3	71.0	7.9	23.4	42.2	81.7	56.8	25.4	3023	31352
G91591	11.8	73.8	7.3	24.5	43.2	81.6	57.5	24.3	2958	34844
SK6303	10.8	71.6	7.2	25.1	42.6	80.5	54.0	25.7	2954	32047
SL6177	11.5	71.9	7.0	25.0	43.0	81.6	57.2	26.5	3087	35506
Mean	11.0	72.1	7.2	24.1	42.1	81.7	56.6	26.4	3055	33757
<u>Probability (%)</u>										
Hybrid (H)	58.2	10.9	1.0	55.7	43.1	51.1	27.7	21.4	19.1	86.9
<u>LSD (0.10)</u>										
Hybrid (H)	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6361 **Year:** 2019
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Montfort, WI **County:** Iowa
Supported By: HATCH, Syngenta

Site Information

Field: **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 5 /11/19 **pH:** 6.1 **OM (%)** 3.3 **P (ppm)** 57 **K (ppm)** 175

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	185 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	5 /11/19
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: 5/11/19 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/16/19 **Harvest Method:** NH 707

Experimental Design

Design: RCB	Replications: 3
Plot Size Seeded: 5' x 23'	Experiment Size: 0.25 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 33182 plants per acre

Hybrids:

G12W66-3122 EZ
 G90921
 G90926
 G91088
 G91214
 G91406
 G91489
 G91492
 G91591
 SK6303
 SL6177

Results: Table 1901-03.

**Table: 1901-03. Syngenta Corn Silage Evaluation Study.
Montfort, WI - 2019.**

Hybrid	Dry Matter								Milk Per	
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
G12W66-3122 EZ	8.8	72.6	7.4	24.5	42.2	80.0	52.6	27.3	3032	26679
G90921	11.7	70.9	7.8	24.6	42.8	80.3	54.0	26.8	3077	35904
G90926	9.0	75.7	8.0	24.9	42.6	81.1	55.8	27.6	3183	28660
G91088	11.5	72.9	7.5	22.3	39.7	82.9	56.8	28.8	3144	36047
G91214	13.1	71.3	7.6	21.7	38.5	83.4	56.9	30.7	3247	42535
G91406	12.6	70.0	7.0	24.5	42.8	79.5	52.2	26.5	2943	37181
G91489	12.0	70.6	7.3	22.0	39.7	83.4	58.2	30.5	3285	39453
G91492	8.8	72.4	8.7	23.9	42.2	81.5	56.4	24.6	3000	26250
G91591	12.7	73.6	7.6	24.3	42.9	81.3	56.5	24.8	2969	37938
SK6303	9.9	72.5	7.6	26.0	43.7	79.2	52.6	26.4	3030	29737
SL6177	10.7	72.2	7.6	24.0	42.0	81.2	55.3	27.4	3106	33153
Mean	11.0	72.2	7.6	23.9	41.7	81.3	55.2	27.4	3092	33958
<u>Probability (%)</u>										
Hybrid (H)	0.0	25.8	0.3	67.0	58.9	27.6	2.1	31.4	25.1	0.0
<u>LSD (0.10)</u>										
Hybrid (H)	1.6	NS	0.5	NS	NS	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6356 **Year:** 2019
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: HATCH, Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 6 /4 /19 **pH:** 6.6 **OM (%)** 3.0 **P (ppm)** 18 **K (ppm)** 92

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	180 lbs/A	N/A
Starter	9-11-30-6S-1Zn	200 lbs/A	6 /4 /19
Post plant	N/A	N/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: 6/4/19 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 10/9/19 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33855 plants per acre

Hybrids:

G12W66-3122 EZ
 G90921
 G90926
 G91088
 G91214
 G91406
 G91489
 G91492
 G99944
 SK6303
 SL6177

Results: Table 1901-04.

**Table: 1901-04. Syngenta Corn Silage Evaluation Study.
Fond du Lac, WI - 2017.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
G12W66-3122 EZ	10.4	62.3	6.3	23.0	39.9	80.4	51.1	32.0	3079	31956
G90921	10.9	61.9	6.6	24.9	42.2	78.8	49.8	28.5	2913	31719
G90926	9.9	67.7	7.1	25.6	43.6	79.4	52.9	26.7	2999	29684
G91088	10.3	65.6	7.0	23.3	40.8	81.4	54.5	29.1	3090	31897
G91214	10.2	63.7	7.3	22.2	39.6	81.2	52.5	30.7	3127	31796
G91406	11.6	64.2	6.5	22.5	39.2	81.2	52.2	32.5	3180	36960
G91489	10.3	60.5	6.7	25.7	44.1	78.6	51.5	25.7	2781	28597
G91492	10.4	61.6	7.2	22.7	40.1	80.8	52.0	30.9	3040	31727
G99944	9.9	51.7	6.9	23.0	40.3	79.6	49.7	33.2	2954	29262
SK6303	11.3	67.1	6.8	24.1	40.6	80.1	51.1	29.3	2991	34000
SL6177	11.3	61.1	6.7	21.2	37.9	82.7	54.5	33.6	3205	36217
Mean	10.6	62.5	6.8	23.5	40.8	80.4	52.0	30.2	3033	32165
<u>Probability (%)</u>										
Hybrid (H)	17.6	14.4	1.3	12.2	9.5	30.3	20.7	2.1	10.5	8.7
<u>LSD (0.10)</u>										
Hybrid (H)	NS	NS	0.4	NS	3.4	NS	NS	3.7	NS	4635

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6377 **Year:** 2019
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Galesville, WI **County:** Trempeleau
Supported By: HATCH, Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 4 /29/19 **pH:** 5.6 **OM (%)** 3.5 **P (ppm)** 18 **K (ppm)** 163

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	46-0-0	100 lbs/A	N/A
		21-0-0-24S	21 lbs/A	N/A
		18-46-0	18 lbs/A	N/A
	Starter	9-11-30-6S-1Zn	200 lbs/A	4 /29/19
	Post plant	N/A	N/A	N/A
	Manure:	N/A	N/A	N/A

Herbicide: Callisto 3.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Me-too-lachlor 1.25 pts/A **Hybrid:** Factor
 Banvel 2.0 oz/A

Irrigation: None

Planting Date: 4/29/19 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/17/19 **Harvest Method:** NH 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.25 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32259 plants per acre

Hybrids:

G12W66-3122 EZ
 G90921
 G90926
 G91088
 G91214
 G91406
 G91489
 G91492
 G99944
 SK6303
 SL6177

Results: Table 1901-05.

**Table: 1901-05. Syngenta Corn Silage Evaluation Study.
Galesville, WI - 2019.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
G12W66-3122 EZ	10.3	69.9	7.3	22.5	39.9	81.3	53.4	28.8	3059	31815
G90921	9.9	69.1	7.8	23.3	41.6	81.8	56.5	25.5	2982	29454
G90926	9.6	72.3	7.6	22.1	39.4	83.9	59.2	29.1	3215	31091
G91088	10.6	71.9	7.5	23.2	40.8	82.3	56.6	26.7	3027	32230
G91214	12.2	72.7	7.9	22.7	40.6	82.4	56.6	27.5	3105	38102
G91406	12.0	69.5	7.5	23.9	42.2	80.8	54.6	23.9	2830	33929
G91489	11.7	74.1	7.7	25.9	44.3	80.7	56.5	24.4	3018	35481
G91492	7.6	72.3	8.4	25.1	44.8	79.6	54.4	18.0	2532	19703
G99944	11.9	68.6	7.4	25.6	43.6	79.4	52.7	25.8	2984	35380
SK6303	7.0	68.4	7.6	20.7	37.5	84.4	58.6	31.3	3292	23059
SL6177	11.5	71.5	7.8	23.3	41.3	82.8	58.6	26.9	3133	35904
Mean	10.4	70.9	7.7	23.5	41.5	81.8	56.1	26.2	3016	31468
<u>Probability (%)</u>										
Hybrid (H)	1.5	2.5	2.1	39.7	26.4	19.0	4.0	12.2	10.6	5.9
<u>LSD (0.10)</u>										
Hybrid (H)	2.4	2.8	0.4	NS	NS	NS	3.4	NS	NS	9123