

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6712 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.1 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 127

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	32-0-0	43 lbs/A	N/A
	Starter	9-11-30-6S-1Zn	18 lbs/A	5 /9 /22
	Post plant	N/A	N/A	N/A
	Manure:	N/A	N/A	N/A

Herbicide: Bellum 6.0 oz/A **Insecticide:** Force 6.5G 2.0 lbs/A
 Medal II EC 24 oz/A **Hybrid:** Factor

Irrigation: None

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/15/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.125 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 34090 plants per acre

Hybrids:

SK6758DS
 SL6768DS
 SL7506DD
 SP6613DQ
 SP8011DX

Results: Table 2201-01.

**Table: 2201-01. Syngenta Corn Silage Evaluation Study.
Arlington, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SK6758DS	12.0	66.4	7.5	21.2	40.3	83.4	58.9	28.6	3253	38993
SL6768DS	10.6	62.6	7.5	18.2	36.3	85.2	59.3	33.9	3431	36488
SL7506DD	11.4	64.7	7.4	19.4	37.2	85.2	60.4	34.3	3543	40360
SP6613DQ	11.3	70.3	8.3	20.9	39.3	84.5	60.5	29.2	3344	37714
SP8011DX	9.4	68.1	8.0	19.3	38.3	87.3	66.7	29.9	3467	32814
Mean	10.9	66.4	7.7	19.8	38.3	85.1	61.2	31.2	3407	37274
<u>Probability (%)</u>										
Hybrid (H)	2.3	0.0	2.9	7.7	16.1	3.3	0.4	8.5	18.9	15.0
<u>LSD (0.10)</u>										
Hybrid (H)	1.1	1.5	0.5	1.9	NS	1.7	2.7	4.1	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6713 **Year:** 2022
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 /22 **pH:** 6.3 **OM (%)** 2.5 **P (ppm)** 64 **K (ppm)** 215

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	32-0-0	71 lbs/A	N/A
Starter	9-11-30-6S-1Zn	18 lbs/A	4 /29/23
Post plant	N/A	N/A	N/A
Manure:	Dairy	10000 gal/A	N/A

Herbicide:	Atrazine 4L 32.0 oz/A Explorer 3.2 oz/A Roundup 25.6 oz/A Zidua 3.25 oz/A	Insecticide:	Force 6.5G 2.0 lbs/A
		Hybrid:	Factor

Irrigation: None

Planting Date: 4/29/22 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/8/22 **Harvest Method:** New Holland 707

Notes:

Experimental Design

Design: RCB	Replications: 3
Plot Size Seeded: 5' x 23'	Experiment Size: 0.125 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 24091 plants per acre

Hybrids:

SK6758DS
 SL6768DS
 SL7506DD
 SP6613DQ
 SP8011DX

Results: Table 2201-02.

**Table: 2201-02. Syngenta Corn Silage Evaluation Study.
Montfort, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SK6758DS	11.4	69.1	8.0	19.9	38.7	85.6	62.8	29.3	3387	38463
SL6768DS	10.9	67.9	8.3	16.9	34.7	87.7	64.7	33.6	3584	39074
SL7506DD	9.9	68.7	7.9	17.3	34.8	88.4	66.9	34.3	3660	36026
SP6613DQ	8.5	73.0	8.7	19.6	37.9	87.0	65.6	28.5	3401	29062
SP8011DX	7.2	72.9	8.7	19.2	38.4	88.2	69.2	28.0	3469	25170
Mean	9.6	70.3	8.3	18.6	36.9	87.4	65.8	30.7	3500	33559
<u>Probability (%)</u>										
Hybrid (H)	0.5	0.3	0.9	8.3	6.6	8.9	0.9	3.7	7.9	0.4
<u>LSD (0.10)</u>										
Hybrid (H)	1.5	2.0	0.4	2.1	2.8	1.7	2.4	3.8	176	5357

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6714 **Year:** 2022
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 /22 **pH:** 5.2 **OM (%)** 2.8 **P (ppm)** 36 **K (ppm)** 136

Plot Management

Tillage Operations: Strip-Till

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	9-11-30-6S-1Zn	18 lbs/A	5 /9 /22
Post plant	28-0-0	30 lbs/A	N/A
	32-0-0	128 lbs/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A
Irrigation: None **Hybrid:** Factor

Planting Date: 5/9/22 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/16/22 **Harvest Method:** New Holland 707

Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.125 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33334 plants per acre

Hybrids:

SK5738DS
 SK6167DD
 SK6217ZJ
 SK6758DS
 SL5196
 SP2007DQ

Results: Table 2201-03.

Table: 2201-03. Syngenta Corn Silage Evaluation Study.
Fond du Lac, WI - 2022.

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SK5738DS	9.9	61.3	5.6	18.2	35.9	85.2	58.8	34.4	3238	32031
SK6167DD	10.9	68.4	6.3	19.8	38.1	83.4	56.4	32.3	3280	35868
SK6217ZJ	9.6	61.4	6.4	17.2	35.0	85.9	59.8	35.9	3405	32641
SK6758DS	11.1	64.7	6.2	19.7	38.0	84.3	58.7	31.6	3240	36055
SL5196	9.6	61.6	5.6	20.6	38.8	84.0	58.9	33.8	3349	32129
SP2007DQ	9.7	63.7	5.8	17.2	34.0	87.6	63.5	35.0	3357	32736
Mean	10.1	63.5	6.0	18.8	36.6	85.1	59.4	33.8	3312	33577
<u>Probability (%)</u>										
Hybrid (H)	54.4	1.4	17.7	11.5	8.4	6.4	4.5	37.4	58.7	82.2
<u>LSD (0.10)</u>										
Hybrid (H)	NS	3.2	NS	NS	3.0	2.3	3.2	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6715 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Galesville, WI **County:** Trempealeau
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Downs Silt Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 5.2 **OM (%)** 3.6 **P (ppm)** 75 **K (ppm)** 192

Plot Management

Tillage Operations:

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
Starter	9-11-30-6S-1Zn	18 lbs/A	5 /5 /22
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Strelis II 2.0 pt/A **Insecticide:** Force 6.5G 2.0 lbs/A
 Atrazine 4L 16.0 oz/A Factor
 Dicamba 2.0 oz/A

Irrigation: None

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width** 30"

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

Harvest Date: 9/9/22 **Harvest Method:** New Holland 707

Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.125 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 33334 plants per acre

Factors/Treatments:

Hybrids:

SK5738DS
 SK6167DD
 SK6217ZJ
 SK6758DS
 SL5196
 SP2007DQ

Results: Table 2201-04.

**Table: 2201-04. Syngenta Corn Silage Evaluation Study.
Galesville, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SK5738DS	11.1	68.6	7.4	19.7	37.1	84.4	58.1	31.7	3286	36543
SK6167DD	10.3	71.7	7.5	21.6	39.7	82.2	55.3	29.0	3142	32305
SK6217ZJ	10.7	70.1	7.9	22.0	40.5	82.2	56.0	27.4	3095	33102
SK6758DS	12.0	70.7	7.3	24.0	43.0	81.1	56.3	23.3	2846	34161
SL5196	11.3	66.9	7.5	20.2	37.4	83.9	56.8	32.4	3331	37712
SP2007DQ	11.7	69.7	7.3	19.8	36.7	85.3	59.9	30.6	3214	37470
Mean	11.2	69.6	7.5	21.2	39.1	83.2	57.1	29.1	3153	35215
<u>Probability (%)</u>										
Hybrid (H)	1.2	1.9	29.7	9.5	3.4	9.7	15.8	2.9	6.2	10.6
<u>LSD (0.10)</u>										
Hybrid (H)	0.7	2.0	NS	2.7	3.2	2.5	NS	4.3	254	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6716 **Year:** 2022
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 /22 **pH:** 5.2 **OM (%)** 1.4 **P (ppm)** 40 **K (ppm)** 92

Plot Management

Tillage Operations: Spring Chisel Field Cultivator

Fertilizer:	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	21-0-0-24S	11 lbs/A	N/A
Starter	9-11-30-6S-1Zn	18 lbs/A	5 /5 /22
Post plant	32-0-0	64 lbs/A	N/A
Manure:	Dairy	10000 gal/A	N/A

Herbicide: Acuron 3.0 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A
Irrigation: Yes **Hybrid:** Factor

Planting Date: 5/5/22 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/12/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.125 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32577 plants per acre

Hybrids:

SH2517DD
 SH4370DD
 SH4397DS
 SI3232DL
 SP7500DQ

Results: Table 2201-05.

**Table: 2201-05. Syngenta Corn Silage Evaluation Study.
Chippewa Falls, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SH2517DD	8.2	62.8	7.3	16.7	33.1	87.0	60.9	36.0	3475	28555
SH4370DD	8.0	63.8	7.4	17.5	34.5	87.5	63.7	33.4	3422	27269
SH4397DS	8.0	66.8	7.3	19.4	37.2	85.7	61.6	31.5	3389	27085
SI3232DL	8.3	61.4	7.1	16.4	32.7	87.1	60.5	36.4	3410	28436
SP7500DQ	8.7	66.4	7.3	18.2	35.8	87.2	64.2	32.9	3474	30775
Mean	8.3	64.2	7.3	17.6	34.7	86.9	62.2	34.0	3434	28424
<u>Probability (%)</u>										
Hybrid (H)	71.0	5.1	78.8	12.0	5.5	51.5	12.4	14.6	86.8	49.0
<u>LSD (0.10)</u>										
Hybrid (H)	NS	3.1	NS	NS	2.5	NS	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6717 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Marshfield, WI **County:** Marathon
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Owen Withee Silt Loam
Soil Test: **Date:** 9/1/227 **pH:** 6.6 **OM (%)** 2.7 **P (ppm)** 31 **K (ppm)** 113

Plot Management

Tillage Operations: Strip-Till Vertical-Till

Fertilizer:		<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
	Preplant	N/A	N/A	N/A
	Starter	9-11-30-6S-1Zn	18 lbs/A	5 /16/22
	Post plant	32-0-0	170 lbs/A	N/A
	Manure:	N/A	N/A	N/A

Herbicide: Resicore 2.5 qt/A **Insecticide:** Force 6.5G 2.0 lbs/A
Irrigation: None **Hybrid:** Factor

Planting Date: 5/16/22 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 9/23/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 23' **Experiment Size:** 0.125 A
Harvest Plot Size: 2.5' x 23' **Harvest Plant Density:** 32387 plants per acre

Hybrids:

SH2517DD
 SH4370DD
 SH4397DS
 SI3232DL
 SP7500DQ

Results: Table 2201-06.

**Table: 2201-06. Syngenta Corn Silage Evaluation Study.
Marshfield, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SH2517DD	8.7	71.0	7.6	20.0	37.5	85.1	60.3	30.6	3330	29099
SH4370DD	9.3	70.7	7.6	19.7	38.2	87.0	65.8	27.0	3195	29588
SH4397DS	8.3	73.7	7.4	23.5	42.7	83.3	60.9	25.2	3151	26141
SI3232DL	8.8	69.2	7.2	20.0	37.5	85.6	61.7	29.9	3275	29357
SP7500DQ	9.8	71.1	7.4	19.8	38.0	87.4	67.1	28.3	3296	32206
Mean	9.0	71.1	7.4	20.6	38.8	85.7	63.1	28.2	3249	29278
<u>Probability (%)</u>										
Hybrid (H)	12.7	2.8	46.0	14.3	9.8	8.8	1.9	13.7	58.3	30.9
<u>LSD (0.10)</u>										
Hybrid (H)	NS	2.0	NS	NS	3.5	2.5	3.4	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Private Silage - Syngenta
Experiment: 01ST **Trial ID:** 6718 **Year:** 2022
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Wheat **Soil Type:** Kewaunee Clay Loam
Soil Test: **Date:** 9 /1 /22 **pH:** 6.6 **OM (%)** 2.7 **P (ppm)** 77 **K (ppm)** 128

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	18 lbs/A	5 /13/22
Post plant	28-0-0-5S	61 lbs/A	N/A
Manure:	Dairy	5000 gal/A	N/A

Herbicide: Atrazine 1.0 lb/A Realm Q 3.0oz/A TripleFlex 3.0 qt/A Yukon 4.0 oz/A	Insecticide: Force 6.5G 2.0 lbs/A Hybrid: Factor
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Irrigation: None

Planting Date: 5/13/22 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 35000 plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: 9/19/22 **Harvest Method:** New Holland 707

Experimental Design

Design: RCB	Replications: 3
Plot Size Seeded: 5' x 23'	Experiment Size: 0.125 A
Harvest Plot Size: 2.5' x 23'	Harvest Plant Density: 34092 plants per acre

Hybrids:

SH2517DD
 SH4370DD
 SH4397DS
 SI3232DL
 SP7500DQ

Results: Table 2201-07.

**Table: 2201-07. Syngenta Corn Silage Evaluation Study.
Valders, WI - 2022.**

Hybrid	Dry Matter							Milk Per		
	Yield	Moisture	CP	ADF	NDF	IVD	NDFD	Starch	Ton	Acre
	T/A	%	%	%	%	%	%	%	lbs/T	lbs/A
SH2517DD	8.6	59.0	7.1	16.6	33.3	86.4	59.2	38.1	3471	29499
SH4370DD	10.0	63.5	7.7	17.5	35.2	87.3	64.0	33.6	3507	35339
SH4397DS	9.3	64.8	7.6	18.2	35.6	87.7	65.3	32.9	3498	32631
SI3232DL	9.3	53.0	7.1	16.3	33.5	86.9	60.9	38.0	3343	31202
SP7500DQ	9.5	66.1	7.3	17.9	35.4	88.1	66.6	32.6	3484	32592
Mean	9.3	61.3	7.3	17.3	34.6	87.3	63.2	35.0	3461	32253
<u>Probability (%)</u>										
Hybrid (H)	38.2	0.0	0.1	20.5	16.2	43.9	1.1	0.5	20.1	20.8
<u>LSD (0.10)</u>										
Hybrid (H)	NS	1.5	0.2	NS	NS	NS	3.1	2.4	NS	NS