

## 2019 Corn Silage Performance Trials Summary

Conducted by Dr. Heather Darby and the University of Vermont Northwest Crops and Soils Program

Long season corn (96-110 day relative maturity) silage hybrids in Alburgh, VT

Planting Date: 05-13-19

Harvest Date: 10-02-19



Company/Brand	Hybrid	Trait Code †	RM	Harvest	DM	Yield,	Starch	CP	Lignin	NDF	30 hr	CNCPS	CNCPS
				Population	%	35% DM	% DM	% DM	% DM	% DM	NDFD	Predicted	Predicted
				plants ac <sup>-1</sup>		tons ac <sup>-1</sup>	% DM	% DM	% DM	% DM	% NDFom	lbs day <sup>-1</sup>	lbs day <sup>-1</sup>
Hubner Seed	H6124RCSS	9	96	31145	36.3	21	39	7.7	2.4	36	61.8	114.9	64.5
Mycogen	BMR97B37RA	8	97	30565	34	25.6	39.9	7.4	2.2	35.6	65.5	125.1	68.1
Albert Lea Seed/Viking	O.45-97GS	1	97	30492	36.6	22.4	37.4	6.9	2.7	39.7	60.9	108.7	62.5
Seed Consultants	SCS978AMXT	3	97	30202	36.9	22.2	39.9	7.7	2.5	35.8	59.9	112.4	63.8
Dekalb	DKC47-55RIB	12	97	30782	37.2	25.8	38.5	7.7	2.5	36.3	61.4	114.3	64.5
Local Seed Company	LC9888VT2RIB	12	98	27225	35.5	20.8	37.3	8.6	2.8	37.1	59	104.7	61
Seedway	SW3970VIP	5	98	30855	37	21.8	41.2	7.4	2.4	34.9	61	116.4	64.7
Channel	198-98STXRIB	9	98	31436	37.1	24.2	40.3	7.8	2.5	35.4	60.4	113.5	64
Hubner Seed	H6172RCSS	9	98	32815	37.1	25.5	39.3	7.7	2.6	36.7	61.1	112.5	63.5
Mycogen	F2F499	8	99	28677	31.9	20.2	36.9	7.7	2.1	37.4	68.2	126.6	69.1
Seedway	SW4000GENSS	9	99	30565	35.2	22.5	36.9	7.5	2.6	37.8	60.4	109.2	62.5
Dekalb	DKC49-45RIB	12	99	32234	35.4	24.5	39.8	7.6	2.2	35.8	63.6	119.8	66.4
Dyna-Gro	D39DC43	11	99	31581	36.6	24.8	39.5	6.8	2.5	37	61	111.8	63.2
Channel	199-11STXRIB	9	99	32162	39.3	26.1	38.9	7.4	2.6	37.2	61.2	112.4	63.5
Pioneer	P9998AMXT	3	100	29403	35.7	26.1	42.1	7.9	2.3	33.6	61.4	119.4	66.1
Growmark FS	F55090X RIB	9	100	32234	36.1	28.3	40.3	7.7	2.4	34.6	60.7	116	64.8
Seed Consultants	SCS1018YHR	7	101	31363	33.1	27.6	39.9	7.2	2.2	36	64.1	120.5	66.6
Albert Lea Seed/Viking	O.69-01P	1	101	28387	34.1	21.4	38.4	8.3	2.5	36.2	60.8	112.1	63.6
Channel	201-67STXRIB	9	101	30565	36.7	22.8	38.9	7.1	2.6	37.2	60.5	110.2	62.5
Hubner Seed	H6225RCSS	9	102	31109	35.1	19.9	39.9	7.2	2.4	35.8	61.3	115.4	64.6
Syngenta	NK0243-3120	6	102	30347	35.9	24.2	38.9	7.7	2.4	36.1	62.4	116.6	65
Dekalb	DKC53-27RIB	9	103	30637	34.6	22.1	38.1	8.4	2.6	36.4	60.2	109.9	62.8
Pioneer	P0242AMXT	3	103	30129	35.1	23.8	39.3	7.8	2.5	35.5	59.5	111.6	63.4
Channel	203-01STXRIB	9	103	30782	35.4	23.6	38.1	7.9	2.4	36.3	62.5	115.7	64.8
Growmark FS	F553R85SS	9	103	28677	35.8	22.3	41.8	7.2	2.3	34.7	61.1	117.1	65.1
Local Seed Company	ZS0398 3111	4	103	31654	38.8	23.6	39.5	7.7	2.7	36.5	58.6	106.6	61.2
		<b>96-103 day</b>	<b>100</b>	<b>30616</b>	<b>35.9</b>	<b>23.6</b>	<b>39.2</b>	<b>7.6</b>	<b>2.5</b>	<b>36.2</b>	<b>61.5</b>	<b>114.4</b>	<b>64.3</b>

Table continued on next page

Company/Brand	Hybrid	Trait Code †	RM	Harvest Population	DM	Yield, 35% DM	Starch	CP	Lignin	NDF	30 hr NDFD	CNCPS Predicted Milk Yield	CNCPS Predicted DMI
				plants ac <sup>-1</sup>	%	tons ac <sup>-1</sup>	% DM	% DM	% DM	% DM	% DM	% NDFom	lbs day <sup>-1</sup>
Seed Consultants	SCS 10HR43	13	104	28677	34.3	23.1	39.3	7.6	2.5	35.8	60.3	113	63.7
Hubner Seed	H6257RCSS	9	104	31581	34.4	23.6	38.8	7.5	2.4	35.6	61.5	115.8	64.7
Local Seed Company	LC0488SSXRIB	9	104	30710	35.5	28.2	39.1	7.3	2.5	36.3	60.9	112.7	63.7
Syngenta	NK0472-3110	4	104	32234	36.3	26.3	34.6	8.1	2.8	39.1	61.2	108	62.3
Albert Lea Seed/Viking	O.51-04GS	1	104	29258	37	21.1	41.4	7.1	2.2	35	62.5	119.9	66
Channel	205-63STXRIB	9	105	31726	34.5	25.8	38.1	8	2.4	37.1	63	116	65.2
Dekalb	DKC55-53RIB	9	105	31508	35.3	28.7	38.3	7.8	2.6	37	60.6	111	63.2
Dekalb	DKC55-37RIB	9	105	28169	36.8	24.2	40	7.6	2.4	35.6	61.4	115.1	64.4
Seed Consultants	SCS1069YHR	7	106	31726	32	29.2	40.1	7.3	2.4	35.9	61	113.9	64.1
Mycogen	BMRO6B58	10	106	30855	32.9	23.1	35.9	7.8	<b>2</b>	38.4	<b>69.2</b>	<b>130.2</b>	<b>70.5</b>
Growmark FS	FS5699X RIB	9	106	25337	34.9	25.4	39.5	7.4	2.4	36	61.4	114.9	64.4
Local Seed Company	LC0657SSXRIB	9	106	30419	38.4	26.3	42.3	7.2	2.6	34.9	57.3	108.8	62
Pioneer	P0789AMXT	3	107	30492	34.1	24.3	39.6	7.4	2.5	36.1	60.2	111.8	63.2
Masters Choice	MC5790	1	107	30202	35.7	23.1	36.9	7.9	2.7	37.7	59.9	108.4	62.2
Channel	207-27STXRIB	9	107	<b>33033</b>	36.5	28.2	<b>43.8</b>	7.6	2.3	<b>32.2</b>	60.7	121.8	67
Seed Consultants	SCS1087YHR	7	108	31799	33.9	<b>31.1</b>	41.3	7.4	2.3	33.9	60.1	116.8	65.1
Seedway	SW6540VT2P	12	108	30637	34.5	26	39.7	7.5	2.5	34.9	61.3	116.2	65
Albert Lea Seed/Viking	O.48-08GS	1	108	30347	35.7	19.9	38	7.4	2.5	36.5	60.7	110.7	62.8
Local Seed Company	LC0877VT2PRIB	12	108	28967	36.5	24.7	41.7	7.8	2.2	34.4	62.2	119.9	66.4
Seed Consultants	SCS 1105AM	2	109	31944	31.4	24.3	37.8	6.8	2.5	37.7	62.3	113.5	63.9
Dekalb	DKC59-07RIB	9	109	32452	35.1	27.6	40.6	7.8	2.3	33.9	62.2	120.9	66.7
Dyna-Gro	D49SS70	8	109	31508	35.5	23	39.6	7.6	2.5	35.6	62.6	117.4	65.3
Mycogen	BMR10B27RA	8	110	29258	32.7	21.4	37.7	7.5	2.1	37.5	67.6	126.8	69.1
		<b>104-110 day</b>	<b>107</b>	<b>30558</b>	<b>35</b>	<b>25.1</b>	<b>39.3</b>	<b>7.5</b>	<b>2.4</b>	<b>36</b>	<b>61.7</b>	<b>115.8</b>	<b>64.8</b>
		<b>LSD (0.10)</b>	<b>N/A</b>	<b>2522</b>	<b>2.8</b>	<b>5.1</b>	<b>NS</b>	<b>0.6</b>	<b>0.3</b>	<b>NS</b>	<b>2.9</b>	<b>9.7</b>	<b>3.6</b>
		<b>Overall Mean</b>	<b>103</b>	<b>30589</b>	<b>35.4</b>	<b>24.3</b>	<b>39.3</b>	<b>7.6</b>	<b>2.4</b>	<b>36.1</b>	<b>61.6</b>	<b>115</b>	<b>64.6</b>

Values in **bold** indicate the top performer for that measure  
NS = Not significant  
N/A = Not applicable; statistical analysis not performed on the parameter

<u>KEY</u>	
<b>RM:</b>	Relative maturity
<b>DM:</b>	Dry matter content
<b>CP:</b>	Crude protein
<b>NDF:</b>	Neutral detergent fiber content
<b>30 hr NDFD:</b>	Digestible NDF after 30 hrs
<b>CNCPS Milk Yield:</b>	Daily milk yield predicted using the Cornell Net Carbohydrate and Protein System software
<b>CNCPS DMI:</b>	Daily dry matter intake predicted using the Cornell Net Carbohydrate and Protein System software

Trait Code†	Trait details
1	Conventional
2	AcreMax
3	AcreMax Xtreme
4	Agrisure Viptera 3110 and 3110A
5	Agrisure Viptera 3111
6	Agrisure 3120 EZ Refuge
7	Intrasect
8	SmartStax
9	SmartStax RIB Complete
10	SmartStax Enlist
11	VT Double Pro
12	VT Double Pro RIB Complete
13	Herculex 1

protection from black cutworm, European corn borer, fall armyworm, lesser corn stalk borer, southern corn stalk borer, southwestern corn borer, sugarcane borer, and western bean cutworm; suppresses corn earworm and common stalk borer with resistance to Liberty® herbicides

AcreMax XTreme protection from black cutworm, European corn borer, fall armyworm, stalk borer, Southern corn borer, Western bean cutworm, corn earworm, and corn rootworm with resistance to glufosinate and glyphosate herbicides

protection from European corn borer, southwestern corn borer, southern cornstalk borer, corn earworm, fall armyworm, dingy cutworm, beet armyworm, black cutworm, western bean cutworm, sugarcane borer, common stalk borer; resistance to glyphosate and glufosinate herbicides

protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, Southern corn borer, true armyworm, Western bean cutworm, and corn rootworm with resistance to glyphosate and glufosinate herbicides

protection from black cutworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, and southwestern corn borer with resistance to glyphosate herbicides with 5% refuge seed in bag

protection from black cutworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, and southwestern corn borer with resistance to glyphosate and glufosinate herbicides with 5% refuge seed in bag

protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, Southern corn borer, Western bean cutworm, and corn rootworm with resistance to glyphosate and glufosinate herbicides

Genuity® SmartStax® RIB Complete® provides broad spectrum protection against corn earworm and other ear-feeding insects as well as fall armyworm, European corn borer, and corn earworm with multiple modes of action; glyphosate herbicide tolerance ((Roundup Ready®, Touchdown®) and glufosinate-ammonium (LibertyLink®)) with 5% refuge seed in the bag

Enlist E3™- tolerant to a new 2,4-D choline, glyphosate and glufosinate in a three-gene stack

provides protection against corn earworm and other ear-feeding insects as well as fall armyworm, European corn borer, and corn earworm

Genuity® VT Double PRO™ RIB Complete protection against corn earworm and other ear-feeding insects as well as fall armyworm, European corn borer, and corn earworm with 5% refuge seed in the bag

protection from black cutworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer with resistance to glyphosate (Roundup Ready2®) and glufosinate (LibertyLink®) herbicides