

University of Vermont

UVM ScholarWorks

Northwest Crops & Soils Program

UVM Extension

2019

Short Season Corn Silage Performance Trials Summary

Heather Darby

Follow this and additional works at: <https://scholarworks.uvm.edu/nwcsp>



Part of the [Agricultural Economics Commons](#)

2019 Corn Silage Performance Trials Summary

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

Short season corn (85-95 day relative maturity) silage hybrids in Alburgh, VT

Planting Date: 05-22-19

Harvest Date: 09-25-19



Company/Brand	Hybrid	Trait Code †	RM	Harvest Population plants ac ⁻¹	DM %	Yield, 35% DM tons ac ⁻¹	Starch % DM	CP % DM	Lignin % DM	NDF % DM	30 hr NDFD % NDFom	CNCPS Predicted Milk Yield lbs day ⁻¹	CNCPS Predicted DMI lbs day ⁻¹
Albert Lea Seed/Viking	O.58-85P	1	85	30492	33.4	23.9	37.4	7	3	37.4	55.9	100.7	59.3
Local Seed Company	LC8597 VT2PRIB	8	85	32380	36.2	23.8	36.1	6.9	3.1	39.5	55.7	98.1	58.6
Local Seed Company	LC8667SSXRIB	7	86	27515	32.8	21	37.3	7.3	2.8	37	57.4	104.9	60.9
Dekalb	DKC36-30RIB	9	86	31073	35.3	22.9	37.1	7	2.9	38	57	102.8	60.2
Hubner Seed	HH6053RCSS	7	87	29621	35.1	21.3	41.1	7.3	2.6	34.9	58.1	110.7	62.9
Masters Choice Inc.	MCT3891*	3	88	25628	36.3	21.7	36.8	7.8	2.9	38.3	56.7	99.9	59.2
Hubner Seed	H6038RCSS	7	89	32307	33.4	20.8	35.8	7.8	3	38.4	55.9	99.4	59.2
Growmark FS	FS4095XRIB	7	90	30928	33.5	21.6	36.9	7.5	2.9	37.5	56.2	101.9	59.9
Albert Lea Seed/Viking	O.71-90GS	1	90	29693	33.7	24.9	38.1	6.9	3	37.7	56.1	99.9	59.1
Seedway	SW3110GENSS	7	90	30710	34.2	23.4	37.4	7.3	3	37.7	56	99.9	59.2
Schlessmans	908	6	91	29548	31.2	22.5	35.2	7.8	3	38.1	54.6	98	58.5
Syngenta NK	NK9175-3110	5	91	30710	34.3	25.6	40.1	6.8	2.9	35.3	53.7	102.1	59.5
85-91 day			88	30050	34.1	22.8	37.4	7.3	2.9	37.5	56.1	101.5	59.7
Seedway	SW3600GENSS	7	92	30419	32.1	22.5	31.6	7.2	3.3	42.8	55.3	91.4	56.4
Local Seed Company	LC9278SSXRIB	7	92	31799	33.7	24.9	36.8	7.1	2.8	39.1	58.6	104	60.6
Growmark FS	FS42R88VT2P	9	92	30928	33.9	23	36	7.4	2.9	39	58	102.3	60.3
Dekalb	DKC42-04RIB	9	92	30782	34	24.7	37.5	7.5	3	38	55.5	99.6	58.9
Channel	192-98STXRIB	7	92	31581	34.2	24.8	35	7.2	3.1	39.6	55.9	96.3	57.9
Albert Lea Seed/Viking	42-92P	1	92	30202	34.5	28.3	36.6	7.2	2.9	38.6	58.1	103.2	60.4
Pioneer	P9330AM	2	93	31654	33.8	21	35.3	7.3	3.3	41	54.2	91.7	56.2
Dekalb	DKC44-80RIB	9	94	31799	32.5	24	37.5	6.5	2.8	38	57.9	104.9	61
Albert Lea Seed/Viking	O.82-95P	1	95	31436	31.8	21.1	32.2	8	3.1	40.2	57	98.2	59.2
Dekalb	DKC45-07RIB	9	95	31654	32.5	23.7	35.8	7.7	2.9	38.7	56.8	100.5	59.9
Local Seed Company	ZS9598 5222EZ	5	95	31654	32.6	21.3	35.3	7.4	3	38.3	54.9	98.1	58.6
Masters Choice Inc.	MCT4572	4	95	30928	32.9	23.9	36.7	7.4	2.9	37.9	56.9	102.1	59.9
Seedway	SW3768GENSS	7	95	30274	33.4	22.5	35.7	7.2	3.1	39.5	55.4	97.4	50.3
Seed Consultants	SCS 958AGT	4	95	31037	33.9	25.6	36.6	7.3	2.7	38	60.4	109.1	62.5
92-95 day			94	31153	33.3	23.7	35.6	7.3	3	39.2	56.8	99.9	59.3
LSD (0.10)			N/A	1830	1.6	NS	NS	0.5	0.2	NS	2.2	6.8	2.4
Overall Mean			92	30644	33.7	23.3	36.5	7.3	3	38.4	56.5	100.7	59.5

Top performing varieties are indicated in **bold**

NS - Not significant

N/A - Statistical analysis was not performed for this parameter

† See trait details

*One plot replicate had a harvest population count < 25,000

Trait Code†	Trait details
1 Conventional	
2 AcreMax	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
3 Agrisure GT	resistance to glyphosate herbicides
4 Agrisure 3000GT	protection from corn rootworm and European corn borer with resistance to glyphosate herbicides
5 Agrisure Viptera 3110 and 3110A	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
6 Agrisure Duracade 5222 EZ Refuge	protection from corn rootworm, corn borer, and provides broad spectrum lepidopteran control with tolerance to glyphosate and glufosinate herbicides
7 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
8 VT Double Pro	provides protection against corn earworm and other ear-feeding insects as well as fall armyworm, European corn borer, and corn earworm
9 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

KEY

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