

2016 UVM Corn Silage Performance Trials

Long Season Corn (98 - 118 Relative Maturity) silage hybrids in Alburgh, VT

Planting Dates: 5/17/2016

Harvest Dates: 9/27/2016 & 9/29/2016



Company	Variety	Traits***	RM days	DM %	Silage Yield* tons ac ⁻¹	CP** %	ADF** %	NDF** %	48 hr NDFD %	NE _L Mcal lb ⁻¹	TDN %	Milk lbs ton ⁻¹	Milk lbs ac ⁻¹
Albert Lea Seed	Viking 58-98 GS	None	98	38.6	18.1	7.08	29.6	44.3	66.6	62.0	0.62	2709	16999
Channel Bio, LLC	198-98STXRIB	SSRIB	98	38.5	17.6	7.57	28.7	41.4	66.7	64.6	0.65	2887	17943
DEKALB-Monsanto	DKC48-56	SSRIB	98	38.8	15.7	8.20	29.9	45.3	65.9	60.9	0.61	2623	14268
T.A. Seeds	TA487-22DPRIB	Double Pro RIB	98	38.6	19.9	7.73	26.7	40.2	67.2	63.6	0.64	2817	19665
Channel Bio, LLC	199-72STXRIB	SSRIB	99	39.7	20.6	6.84	27.7	42.8	69.0	63.1	0.64	2786	19941
Channel Bio, LLC	201-28STXRIB	SSRIB	99	38.9	20.4	6.70	27.3	42.6	68.0	61.4	0.62	2664	19217
Mycogen Seeds	TMF99Q47RA	RR, CB, LL	99	39.3	25.4	8.05	26.6	41.3	67.7	64.5	0.65	2876	25329
Mycogen Seeds	F2F499	RR, LL	99	38.8	23.1	7.48	25.7	42.7	72.0	73.3	0.69	3099	25119
Chemgro Seeds	6069RSX	SSRIB	100	38.9	22.3	7.14	28.0	43.1	67.1	61.5	0.62	2677	20811
Mycogen Seeds	TMF2L505	RR, LL, HX	100	39.3	23.2	7.69	28.9	43.3	66.9	61.5	0.62	2679	21916
Seedway LLC	SW 4018 Gen VT3P	RR, CB	100	38.5	18.7	8.38	23.5	34.8	67.4	67.7	0.69	3112	25581
Seedway LLC	SW 4010 GenSS	RR, CB, LL	100	38.7	23.5	7.22	29.6	46.3	68.8	60.7	0.61	2621	17089
Mycogen Seeds	TMF2L538	RR	101	36.6	25.3	7.17	27.6	43.0	67.4	63.5	0.64	2822	25200
Channel Bio, LLC	202-20STXRIB	SSRIB	102	39.4	21.7	7.34	28.6	43.0	67.6	63.3	0.64	2804	21368
Chemgro Seeds	6258G3A	Artesian 3011A	102	38.6	20.3	8.10	27.4	42.1	66.2	61.9	0.62	2701	19239
DEKALB-Monsanto	DKC52-30	SSRIB	102	38.3	22.8	7.53	28.1	41.8	67.2	63.4	0.64	2815	22654
Albert Lea Seed	Viking O.51-04GS	None	104	38.8	24.9	6.44	27.1	42.2	69.4	63.7	0.64	2830	24843
Channel Bio, LLC	205-19STXRIB	SSRIB	105	39.4	23.5	7.79	28.3	44.0	67.2	71.7	0.65	2850	23496
Chemgro Seeds	6538G3N	3000GT	105	37.2	20.6	7.41	29.9	46.2	68.3	60.5	0.61	2604	18748
Chemgro Seeds	6546R3P	VT3P, RIB	105	38.3	22.3	7.13	27.7	44.6	68.1	61.1	0.61	2642	20572
DEKALB-Monsanto	DKC54-38	SSRIB	105	38.8	24.4	7.15	26.8	39.9	67.0	64.4	0.65	2889	24751
Mycogen Seeds	F2F569	RR, LL, HX	105	38.2	16.1	8.17	29.0	45.2	68.4	70.4	0.71	3087	17390
Mycogen Seeds	2K595	SSRIB	105	39.1	27.6	7.75	29.2	44.7	66.5	61.0	0.61	2642	25415
Seedway LLC	SW 5430 GenSS	RR, CB, LL	105	37.7	23.9	7.23	29.0	41.9	66.8	64.1	0.65	2862	23941
Channel Bio, LLC	206-30STXRIB	SSRIB	106	37.5	26.7	7.09	26.5	41.2	67.8	63.5	0.64	2818	26403
Chemgro Seeds	6638G3	3000GT	106	36.3	24.3	7.92	26.0	39.6	67.3	64.9	0.66	2921	20908
Mycogen Seeds	TMF06S67	SSRIB	106	36.5	27.2	7.31	27.4	40.8	67.7	64.8	0.65	2909	27696
Seedway LLC	SW 5554 RT	GT	106	36.9	20.9	7.95	27.4	42.5	68.9	63.7	0.64	2823	20747
T.A. Seeds	TA566-31	None	106	36.8	23.7	7.94	27.9	42.5	67.7	61.2	0.62	2649	22036
Channel Bio, LLC	207-27STXRIB	SSRIB	107	38.8	27.0	7.11	25.7	40.4	69.9	64.2	0.65	2865	27154
DEKALB-Monsanto	DKC57-75	SSRIB	107	38.8	25.0	6.74	27.8	44.0	69.0	61.2	0.62	2651	23166
Brownseed Genetics, LLC	16BEL:42	None	108	37.5	18.6	7.79	28.3	44.0	67.2	71.7	0.72	2940	19131
DEKALB-Monsanto	DKC58-06	SSRIB	108	38.2	25.2	7.31	26.3	41.2	68.0	62.7	0.63	2759	24303
T.A. Seeds	TA583-22DPRIB	Double Pro RIB	108	39.0	19.9	8.09	27.6	42.3	68.3	62.6	0.63	2753	19274
Mycogen Seeds	TM2H708	SS	109	36.9	26.1	7.80	29.3	43.9	67.7	62.0	0.62	2707	24809

Company	Variety	Traits	RM days	DM %	Silage Yield tons ac ⁻¹	CP %	ADF %	NDF %	48 hr NDFD %	NE _L Mcal lb ⁻¹	TDN %	Milk lbs ton ⁻¹	Milk lbs ac ⁻¹
Albert Lea Seed	Viking 53-10 GS	None	110	38.9	21.2	7.11	26.3	40.8	69.7	63.4	0.64	2806	20886
Channel Bio, LLC	210-95STXRIB	SSRIB	110	38.8	21.3	7.66	25.7	40.0	69.5	64.7	0.65	2904	21710
Chemgro Seeds	7037RVPN	VT3P	110	35.7	26.7	8.11	29.5	45.7	69.2	62.6	0.63	2748	25777
DEKALB-Monsanto	DKC60-67	SSRIB	110	39.2	23.7	7.29	25.7	41.0	67.8	62.4	0.63	2736	22755
Mycogen Seeds	TMF2R720	SSRIB	110	37.4	28.1	7.59	29.5	44.6	67.6	61.9	0.62	2706	26600
DEKALB-Monsanto	DKC61-88	VT3P, RIB	111	36.4	24.7	8.00	29.1	46.1	67.8	60.0	0.60	2567	22456
Mycogen Seeds	TMF17L86	SS	117	31.4	24.0	7.95	31.9	48.9	69.5	62.2	0.62	2724	22915
Mycogen Seeds	TMF2L874	SS	118	31.4	23.8	8.00	32.7	50.5	68.5	62.1	0.62	2714	22793
LSD (0.1)				3.78	5.20	0.78	2.87	4.79	2.96	3.38	0.036	228	5489
Trial Mean				37.7	22.8	7.54	27.9	42.9	68.0	63.4	0.64	2786	22163

Top performing varieties are indicated in **bold**

*Silage yields are compared on a 35% dry matter basis

**CP, ADF, NDF, and Starch are compared on a dry matter basis

LSD (0.1): Least Significant Differences (LSDs) at the 0.10 level of significance

*****Traits:**

Agrisure Artesian 3011A - The Agrisure Artesian® 3011A trait stack combines Agrisure Artesian® water optimization technology with the Agrisure® 3000GT trait stack, for herbicide flexibility as well as protection from corn borer and corn rootworm.

Agrisure 3000GT - This triple stack protects against both corn borer and corn rootworm with tolerance to in-season applications of both glyphosate and glufosinate herbicides
CB - protects against corn borer.

Double PRO RIB - contains dual modes of action for max. protection against corn earworm and other above-ground pests, like European and SW corn borers and fall armyworm.
GT - Glyphosate tolerant.

HX- Herculex Xtra is an in-plant, insect protection stacked trait that combines broad-spectrum, above-ground protection from insect pests and below-ground protection against larval stages of major corn rootworm pests, including western, northern and Mexican corn rootworm.

LL – Glufosinate-ammonium herbicide (LibertyLink®) tolerant.

RIB – RIB Complete® (Refuge In a Bag) means that refuge seed is blended into each bag of insect-protected corn seed.

RR – Roundup Ready corn is glyphosate herbicide (Roundup®) tolerant.

SS - SmartStax.

SSRIB - 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®)). Bags of this seed also contain refuge seed mixed in eliminating the need for a separate refuge (Refuge-in-bag).

VT3P - provides two modes of action to protect from corn earworm and other above ground insect pests as well as one mode of action to protect against below ground pests.

Key

RM: Relative maturity

DM: Dry matter

CP: Crude protein

ADF: Acid detergent fiber

NDF: Neutral detergent fiber

48hr NDFD: Digestible neutral detergent fiber at 48 hours

NE_L: Net energy from lactation

TDN: Total digestible nutrients

For a full report of the long season corn trial and additional research reports, please visit our website: <http://www.uvm.edu/extension/cropsoil/>. For more information, contact heather.darby@uvm.edu.