

2018

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2018 Corn Silage Performance Trials Summary

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

Short season corn (88-95 day relative maturity) silage hybrids in Alburgh, VT

Planting Date: 05-18-18

Harvest Date: 09-12-18



Company/Brand	Hybrid	Trait Code †	RM	Harvest	DM	Yield, 35% DM	Starch	CP	Lignin	NDF	30 hr NDFD	CNCPS Predicted Milk Yield	CNCPS Predicted DMI
				Population									
Masters Choice	MCT3891	3	88	28604	38.5	20.4	35.3	7.5	3.1	38.4	55.9	95.7	57.4
Hubner	H4062RC2P	11	86	28459	38.0	19.7	35.3	7.3	3.0	38.5	56.7	99.0	58.9
Dekalb	DKC36-28RIB	9	86	29185	35.2	17.5	32.6	8.1	3.0	39.3	57.1	99.1	59.2
Seedway	SW3654RR	1	91	28314	34.0	20.3	28.1	7.6	3.1	42.9	57.5	92.6	56.8
Dekalb	DKC40-77RIB	9	90	28169	34.0	17.3	31.7	7.5	3.1	39.7	56.0	96.3	58.2
Growmark FS	FS 42R88VT2P	10	92	28314	33.7	18.1	32.4	8.0	2.8	38.4	60.1	106.2	61.7
Local Seed Company	LC9278 S5XRIB	9	92	25991	33.1	16.8	28.9	7.6	3.1	41.6	57.8	95.9	58.0
Local Seed Company	ZS8926 VIP3111	5	89	28024	32.7	21.1	31.3	7.8	3.0	38.5	56.9	98.7	58.7
Channel	192-98VT2PRIB	11	92	29040	32.4	18.2	31.3	7.9	2.8	39.2	59.3	103.1	60.7
Syngenta NK	NK8920-3120	6	89	30347	32.1	22.0	32.0	7.5	3.3	39.9	54.0	90.4	55.8
Syngenta NK	NK9227-3220A	7	92	27733	29.2	15.3	27.8	8.0	3.1	40.2	57.6	96.2	58.1
		86-92 day	90	28380	33.9	18.8	31.5	7.7	3.1	39.7	57.2	97.6	58.5
Pioneer	P9330AM	2	93	29330	35.8	19.6	31.3	7.3	3.5	42.5	52.2	81.8	52.5
Seedway	SW3768GENSS	9	95	25991	33.6	16.8	32.0	7.9	2.8	38.3	58.8	103.3	60.7
Dekalb	DKC44-80RIB	11	94	28459	33.0	17.8	34.0	7.5	2.8	37.3	59.0	106.8	61.8
Dyna-Gro	D35SS58	8	95	27733	33.0	16.4	33.2	8.1	2.8	36.7	60.4	109.7	63.1
Masters Choice	MCT4572	4	95	27007	32.8	18.2	31.9	7.8	3.2	38.9	55.1	92.9	56.5
Augusta Seed Corp.	A2843	4	93	*	32.6	*	29.0	8.1	3.3	40.4	55.8	91.1	56.1
Seedway	SW3600GENSS	9	93	28750	32.0	18.4	31.0	8.1	3.0	38.7	57.1	98.9	59.1
Dekalb	DKC45-07RIB ³	9	95	28895	31.5	19.3	30.3	7.9	3.1	39.4	57.8	98.7	59.2
Wolf River Valley	3995FL	12	95	27588	30.1	15.6	20.2	8.2	3.3	45.7	58.6	89.6	56.1
		93-95 day	94	27969	32.7	17.8	30.3	7.9	3.1	39.8	57.2	97.0	58.3
		LSD (0.10)	N/A	NS²	2.0	2.9	4.9	0.5	0.4	3.8	2.9	12.2	4.4
		Overall Mean	92	28207	33.4	18.4	31.0	7.8	3.1	39.7	57.2	97.3	58.4

Top performing varieties are indicated in **bold**

NS - Not significant

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

* Harvest population and yield data removed due to 2 replicates having population <25,000

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

Trait Code†	Trait details
1	Roundup Ready; Roundup Ready Corn 2 glyphosate resistance
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 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
5	Agrisure Viptera 3111 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
6	Agrisure 3120 EZ refuge Protection from European corn borer with resistance to glufosinate herbicides and 5% refuge seed in the bag
7	Agrisure Viptera 3220 EZ Refuge protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, Southern corn borer, true armyworm, and Western bean cutworm with resistance to glufosinate herbicides
8	SmartStax 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
9	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
10	VT Double Pro provides protection against corn earworm and other ear-feeding insects as well as fall armyworm, European corn borer, and corn earworm
11	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
12	Floury, Leafy increased fiber digestibility and 25% of kernels produced have no hard starch