

2017

Non-GMO Corn Silage Performance Trial Summary

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2017 Non-GMO Corn Silage Performance Trial Summary

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

Silage corn at Bridgeman View Farm, Franklin, Vermont

Planting Date: 5/24/2017

Harvest Date: 10/18/2017

Variety	Company/Brand	RM	Silage Yield+ tons ac ⁻¹	Moisture (%)	CP++ %	ADF++ %	NDF++ %	Lignin %	NFC++ %	Starch++ %	TDN %	NE _L Mcal lb ⁻¹	30 hr NDFD	Milk lbs ton ⁻¹	Milk lbs ac ⁻¹
0.53-05UP	Viking	105	20.4	54.3	7.7*	23.9*	42.3	3.2	44.4	36.6	72.0	0.74*	48.0	3003	21398*
2G161	Mycogen Seeds	84	15.8	41.2*	6.7	21.9*	41.1	2.8*	46.9	38.1	76.0*	0.79*	53.5*	3281*	18110*
2T493	Mycogen Seeds	99	25.8	51.1	7.1*	25.1*	44.3	3.1*	42.1	35.2	70.5	0.73	47.5	2925	26291*
42-92GS	Viking	92	14.3	45.4	6.6	21.9*	41.4	2.6*	46.8	38.7	75.0*	0.77*	52.0*	3185*	15897
71-90GS UP	Viking	90	17.4	39.0*	7.3*	25.5	45.9	3.4	42.0	35.1	73.0*	0.74*	53.0*	3103*	18883*
SW1990	Seedway, LLC.	80	20.1	41.0*	6.9	24.3*	43.4	3.3	43.3	36.1	72.0	0.74*	49.0	3003	20905*
SW3750	Seedway, LLC.	92	19.3	39.7*	7.0*	26.6	46.0	3.7	41.7	36.2	70.5	0.72	48.0	2936	19775*
SW3760	Seedway, LLC.	94	25.1	55.4	7.3*	23.2*	41.2	3.1*	45.9	36.8	75.5*	0.79*	54.5*	3242*	28456*
SW4030	Seedway, LLC.	100	22.1	56.8	7.2*	24.7*	44.1	3.2*	42.8	34.0	74.5*	0.77*	55.5*	3182*	24582*
TMF94	Mycogen Seeds	97	21.6	51.9	6.9	22.5*	43.3	2.9*	44.4	36.0	75.0*	0.78*	55.0*	3214*	24322*
TMF96Q40	Mycogen Seeds	96	23.5	49.7	7.0*	25.7	46.0	3.0*	41.6	33.0	72.0	0.73	52.5*	3018	24470*
LSD (0.10)			NS	5.2	0.8	3.6	NS	0.6	NS	NS	3.8	0.06	4.5	229	12068
Trial Mean			20.5	47.8	7.0	24.1	43.5	3.1	43.8	36.0	73.3	0.75	51.7	3099	22099

Key:

CP: Crude protein
 ADF: Acid detergent fiber
 NDF: Neutral detergent fiber
 NFC: Nonfibrous carbohydrates
 TDN: Total digestible nutrients
 NE_L: Net energy from lactation
 30hr NDFD: Digestible neutral detergent fiber at 48 hours

LSD (0.1): Least Significant Differences (LSDs) at the 0.10 level of significance. NS indicates no significant difference between varieties. Top performing varieties are indicated in **bold**. Values with an asterisk* did not vary significantly from the top performing variety.

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

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