

2021 Organic Corn Silage Performance Trial Summary

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

Organic corn (82-105 day relative maturity) silage varieties in Alburgh, VT

Planting Date: 05-14-21

Harvest Dates: 09-14-21, 09-21-21, and 09-28-21



Company/Brand	Variety	Traits	RM	Harvest Population	DM	Yield, 35% DM	Starch	CP	Lignin	aNDFom	30 hr NDFD	CNCPS Predicted Milk Yield	CNCPS Predicted DMI
				plants ac ⁻¹	%	tons ac ⁻¹	% DM	% DM	% DM	% DM	% DM	% NDF	lbs day ⁻¹
Blue River Hybrids	14A91	None	82	28641	40.7	18.5	26.0	8.30	3.38	47.0	61.1*	2936	18910
Blue River Hybrids	21L90	None	85	31145	41.7*	20.9	23.6	8.38	3.28	47.8	57.0	2768	20230
Blue River Hybrids	23A71	None	86	30819	39.0	20.3	27.0	8.73*	3.35	44.4	57.1	2937	20950
Blue River Hybrids	22K32	None	89	29294	39.6	22.8	32.1*	8.73*	3.00*	42.4	58.0	3020*	23808
Blue River Hybrids	30K84	None	90	32234	35.9	25.6	27.3	9.28	3.00*	44.4	61.5	3157*	28036
Albert Lea/Viking	O.31-91P	None	91	25700	42.5*	21.5	31.2*	7.88	2.80*	42.8	57.1	2830	21201
Blue River Hybrids	34K79	None	93	29294	40.9	20.8	36.4	8.58	2.60	38.2	59.2*	3142*	22767
Albert Lea/Viking	O.45-97UP	None	97	28859	45.3	24.8	34.6*	8.03	2.68*	40.4	59.0*	2806	24548
Blue River Hybrids	43L96	None	98	31254	43.8*	27.0	33.0*	8.03	2.90*	39.9	54.5	2798	26384
Blue River Hybrids	42C87	None	98	31690	44.7*	34.8	32.0*	8.80*	2.75*	41.1	60.7*	3031*	37041
Albert Lea/Viking	O.69-01UP	None	101	32343	37.5	28.2	34.5*	8.45	2.80*	37.7	56.9	3203	31781*
Albert Lea/Viking	O.51-04	None	104	32126	39.6	29.0*	33.6*	8.25	3.08	40.0	58.5*	3095*	31442*
Blue River Hybrids	54PM37	PuraMaize™	105	30819	41.4*	25.4	34.1*	8.20	2.70*	39.2	55.8	2971	26517
Blue River Hybrids	54C27	None	105	33106	40.5	28.0	31.6*	7.90	3.03*	42.9	57.3	2937	28774
82-105 day													
‡LSD (0.10)			¥NS	NS	4.12	5.92	6.57	0.612	0.455	NS	3.09	227	6643
Overall Mean			95	30523	40.9	24.8	31.2	8.39	2.95	42.0	58.1	2974	25885

‡LSD (0.10); least significant difference at the p=0.10. Top performing varieties are indicated in bold. Values with an asterisk * did not vary significantly from the top performing variety.

¥NS = No significant statistical difference amongst the corn hybrids.