

Table 10. Berry weight, cluster weight, soluble solids concentration (SSC) and titratable acidity (TA) of 20 grapevine genotypes grown at Frelighsburg during 2000 and 2001 growing seasons.

Cultivar	2000										2001									
	Berry weight				Cluster weight				SSC	TA	Berry weight				Cluster weight				SSC	TA
	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(%)	(g/l) ^x	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(%)	(g/l)
M1	M2	M3	M4	M1	M2	M3	M4	M3	M3	M1	M2	M3	M4	M1	M2	M3	M4	M3	M3	
Sabrevois*	1.58	1.54	1.75	-	90.3	91.4	106.7	-	17.3	14.8	1.72	1.69	1.60	-	79.5	70.8	81.8	-	16.6	14.6
Prairie Star	1.77	1.63	1.62	-	100.4	89.1	81.7	-	19.1	15.2	1.58	1.57	1.78	-	80.1	85.0	91.8	-	20.0	12.7
ES-4-7-25	1.98	1.88	1.97	-	148.4	127.6	137.3	-	18.6	9.20	1.73	2.02	1.73	-	89.3	94.3	94.1	-	18.5	8.8
Delisle*	1.10	1.10	1.15	-	64.2	64.3	62.2	-	16.5	9.90	1.21	1.20	1.32	-	49.9	48.5	55.0	-	17.0	9.8
Michurinetz*	1.02	0.94	0.87	-	82.5	75.7	85.9	-	20.4	18.93	0.89	0.99	1.07	-	91.9	77.6	81.0	-	18.5	16.1
St. Croix*	1.57	1.59	1.54	-	129.3	119.5	127.5	-	16.6	11.1	1.66	1.71	1.54	-	88.3	77.8	90.4	-	16.0	10.7
St. Pepin	1.87	1.91	92.7	-	133.3	147.2	140.1	-	18.9	14.2	1.55	1.76	1.64	-	87.5	124.6	112.6	-	20.5	14.7
Vandal-Cliche	1.73	1.61	1.71	-	141.0	136.1	128.9	-	15.0	12.1	1.57	1.75	1.61	-	86.5	106.7	91.5	-	16.7	13.0
Kay Gray	2.21	2.17	2.19	-	92.9	77.6	78.0	-	15.0	10.1	2.18	2.37	2.12	-	63.6	62.3	59.9	-	17.7	5.9
ES-6-12-28	1.36	1.29	1.39	-	126.9	99.4	121.6	-	18.9	12.6	1.52	1.64	1.58	-	109.4	103.4	111.5	-	19.4	9.5
GR-7	0.82	0.80	0.78	-	93.6	95.4	93.7	-	22.4	16.2	0.82	0.99	0.96	-	55.1	-	69.7	-	19.6	13.5
L. Kuhlmann	0.85	0.93	0.85	-	102.8	110.9	92.7	-	19.4	15.2	0.88	0.85	0.90	-	65.3	78.1	73.1	-	17.7	15.9
Chancellor*	-	-	1.27	-	-	-	184.5	-	16.5	14.1	-	-	1.29	-	-	-	153.5	-	16.1	10.6
Hibernal*	-	-	1.24	-	-	-	184.1	-	17.0	12.7	-	-	1.28	-	-	-	117.5	-	13.0	12.9
Ok. Riesling	-	-	1.58	-	-	-	74.3	-	17.8	12.8	-	-	1.53	-	-	-	75.1	-	17.8	10.7
Seyval blanc	-	-	1.57	1.70	-	-	278.0	282.9	17.2	11.9	-	-	1.28	1.72	-	-	242.8	242.8	16.4	10.4
Seyval noir*	-	-	1.84	-	-	-	237.1	-	16.7	12.4	-	-	1.63	-	-	-	185.9	-	13.5	10.8
Siegerrebe*	-	-	-	-	-	-	-	-	-	-	-	-	2.13	-	-	-	160.2	-	15.6	6.8
SV-18-307	-	-	1.29	-	-	-	200.3	-	17.5	12.2	-	-	1.10	-	-	-	191.8	-	16.1	12.0
Vidal blanc*	-	-	1.52	-	-	-	176.6	-	16.4	18.6	-	-	1.64	-	-	-	202.9	-	17.0	12.0
F value	88.6	72.3	82.5		10.6	8.6	20.7		13.2	16.7	41.1	57.0	17.1		2.97	10.9	26.0		3.8	19.7
LSD 5%	0.14	0.15	0.12	-	23.1	25.2	37.0	-	1.44	1.58	0.20	0.17	0.23	-	29.6	18.2	29.1	-	2.66	1.80

Data are means of 4 replicates of 3 vines/replicate.

Winter protection: M1 = no winter protection, M2 = 50% of canes on ground covered by snowfall and 50% of canes without any protection, M3 = vine under geotextile fabric, M4 = vine buried by 0.35 m of soil.

* early harvest to prevent birds damage.

‘ - ’ not planted, using an incomplete, randomised block design (split-plots).

^xTitratable acidity (TA) as grams tartaric acid equivalents per liter.