

Table 7. Mean vigour of 20 grapevine genotypes grown under four winter protection methods at Frelighsburg, L'Orpailleur, Dunham and Dietrich-Jooss, Iberville during 2000 and 2001 growing seasons.

Cultivar	Frelighsburg								L'Orpailleur								Dietrich-Jooss			
	2000				2001				2000				2001				2000			
	M1	M2	M3	M4	M1	M2	M3	M4	M1	M2	M3	M4	M1	M2	M3	M4	M1	M2	M3	M4
Sabrevois	4.6	4.0	4.5	-	4.4	4.2	5	-	3.5	4.3	4.1	-	4.0	3.8	4.6	-	3.3	4.2	3.6	-
Prairie Star	4.2	4.4	3.6	-	3.1	2.9	3.6	-	2.9	3.6	3.5	-	2.6	3.5	3.4	-	3.0	2.5	2.5	-
ES-4-7-25	4.5	4.2	4.3	-	3.1	3.6	4.5	-	3.0	4.5	3.2	-	2.8	4.0	3.6	-	2.2	2.7	3.2	-
Delisle	4.3	4.2	4.1	-	4.3	4.3	4.6	-	3.2	3.4	3.6	-	3.2	3.8	4.2	-	3.2	3.2	2.8	-
Michurinetz	3.8	4.5	3.9	-	3.0	4.3	3.5	-	3.8	4.0	4.0	-	2.7	3.3	4.5	-	3.1	3.5	3.2	-
St. Croix	5.0	4.6	5.0	-	4.2	4.5	4.9	-	4.4	4.6	4.4	-	3.7	4.9	4.5	-	3.6	3.3	3.7	-
St. Pepin	4.1	4.2	4.1	-	3.9	3.2	4.0	-	3.7	3.2	3.8	-	3.6	3.5	4.2	-	3.2	3.2	3.6	-
Vandal-Cliche	4.5	4.2	3.9	-	3.7	3.9	4.7	-	4.0	3.3	4.1	-	3.7	2.7	4.3	-	3.2	3.2	3.5	-
Kay Gray	4.7	4.5	4.5	-	4.6	4.7	4.9	-	3.7	3.6	4.1	-	3.7	4.6	4.7	-	3.0	3.7	3.6	-
ES-6-12-28	4.2	3.6	4.3	-	4.0	3.4	4.7	-	3.5	4.2	4.2	-	2.5	4.0	4.0	-	2.7	3.2	2.0	-
GR-7	4.7	4.6	4.6	-	3.8	4.5	5.0	-	3.9	4.2	4.0	-	4.0	4.0	4.7	-	3.6	3.8	3.7	-
L. Kuhlmann	4.7	5.0	4.7	-	3.9	3.8	5.0	-	3.6	3.7	4.0	-	2.9	3.7	4.6	-	2.9	3.8	3.8	-
Chancellor	-	-	3.0	-	-	-	3.0	-	-	-	2.2	-	-	-	2.1	-	-	-	2.3	-
Hibernal	-	-	3.6	-	-	-	3.6	-	-	-	2.6	-	-	-	3.1	-	-	-	3.2	-
Ok. Riesling	-	-	4.3	-	-	-	4.5	-	-	-	1.0	-	-	-	3.2	-	-	-	2.3	-
Seyval blanc	-	-	3.0	2.8	-	-	3.1	1.9	-	-	2.5	2.3	-	-	2.2	1.3	-	-	2.4	2.2
Seyval noir	-	-	2.8	-	-	-	3.3	-	-	-	3.3	-	-	-	2.9	-	-	-	2.2	-
Siegerrebe	-	-	2.4	-	-	-	3.0	-	-	-	1.7	-	-	-	1.4	-	-	-	2.1	-
SV-18-307	-	-	1.8	-	-	-	1.6	-	-	-	2.8	-	-	-	2.6	-	-	-	2.1	-
Vidal blanc	-	-	2.8	-	-	-	1.6	-	-	-	2.5	-	-	-	1.2	-	-	-	2.6	-
F value	4.49	7.76	29.1		6.60	4.72	26.6		3.11	6.14	10.9		3.11	3.05	19.08		1.70	2.97	5.40	
LSD 5%	0.44	0.36	0.44	-	0.58	0.70	0.58	-	0.68	0.53	0.65	-	0.90	0.91	0.71	-	0.66	0.76	0.79	-

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 was buried by 0.35 m of soil.

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

Vigour was rated according to the scoring system of 0=dead, 1=very weak, 2=weak, 3=average, 4=strong, 5=very strong.