

**Table S1.** Meteorological data from June to September 2007, collected from the meteorological stations near the vineyards where the grapes were grown.

Meteorological station	Climatic region	Average monthly temperature (°C)					Monthly precipitation (mm)					Number of days with precipitation (VI-IX)	Vineyard location
		VI	VII	VIII	IX	(VI-IX)	VI	VII	VIII	IX	(VI-IX)		
Beli Manastir	Continental	22.3	23.6	22.4	14.3	20.7	62.7	28.9	62.7	52.7	207.0	47	Banovo brdo (Beli Manastir)
Benkovac	Mediterranean	21.8	24.4	23.8	17.2	21.8	23.3	44.5	2.2	110.0	180.1	15	Korlat (Benkovac)
Čakovec - Nedelišće	Continental	21.4	22.0	19.9	13.1	19.1	26.8	89.1	109.3	156.8	382.0	44	Železna gora (Štrigova); Lopatinec (Sv. Juraj na Bregu)
Dubrovnik - Čilipi	Mediterranean	24.2	27.3	25.8	19.4	24.2	19.2	0.7	31.7	126.5	178.1	25	Konavle
Ilok	Continental	22.7	24.0	22.7	14.9	21.1	60.1	33.0	80.9	102.8	276.7	48	Principovac (Ilok)
Jastrebarsko	Continental	21.6	21.9	20.6	14.0	19.5	81.2	74.9	63.5	187.2	406.8	43	Okić (Plešivica)
Jelsa	Mediterranean	24.0	26.4	25.1	18.4	23.5	15.8	11.5	55.4	35.9	118.6	17	Ivan Dolac (Island Hvar)
Korčula	Mediterranean	25.3	27.8	26.0	20.3	24.8	28.3	0.0	8.8	35.5	72.7	15	Postup (Pelješac Peninsula)
Kutjevo - Vidim	Continental	21.3	23.2	21.7	14.6	20.2	53.7	32.4	83.6	106.8	276.5	51	Hrnjavac (Kutjevo)
Novigrad - Celega	Mediterranean	22.7	24.7	22.7	17.6	21.9	35.5	1.2	62.5	161.1	260.3	41	Dajla (Novigrad)
Poreč	Mediterranean	22.5	24.6	22.6	17.4	21.8	46.3	6.9	64.0	188.8	306.0	36	Mornarica (Poreč); Faragude (Funtana); Radovani (Višnjan)
Ston	Mediterranean	–	26.5	25.7	–	–	1.1	5.9	8.9	15.4	31.3	6	Ston (Pelješac Peninsula)
Šibenik	Mediterranean	24.3	26.6	25.2	18.7	23.7	17.2	26.9	51.5	25.5	121.0	32	Primošten; Skradin
Voćin	Continental	20.4	21.0	20.3	12.9	18.7	46.2	20.0	81.9	137.2	285.2	41	Đulovac (Daruvvar)

–: not measured