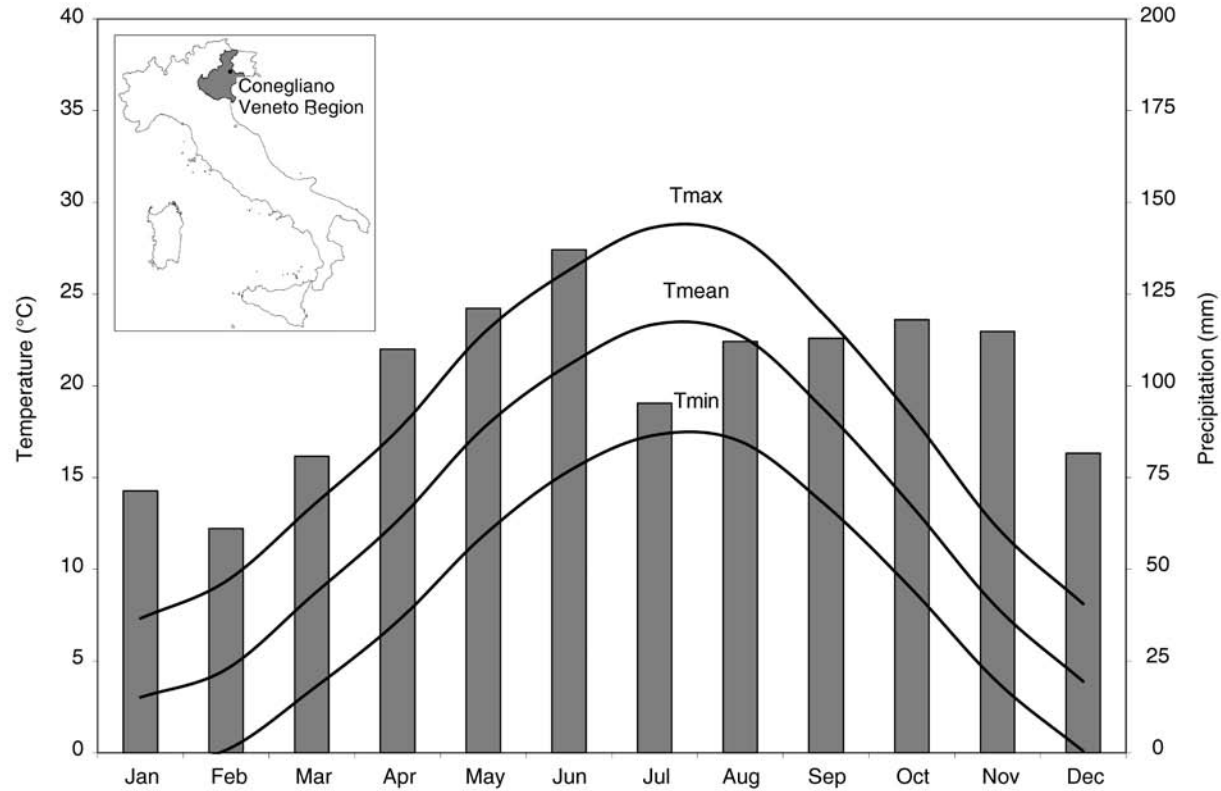


Supplemental Data for:

Tomasi, D., G.V. Jones, M. Giust, L. Lovat, and F. Gaiotti. 2011.

Grapevine Phenology and Climate Change: Relationships and Trends in the Veneto Region of Italy for 1964–2009.

Am. J. Enol. Vitic. 62:329-339. doi: 10.5344/ajev.2011.10108.



Supplemental Figure 1 Average monthly temperature and precipitation characteristics for the site of the *V. vinifera* cultivar collection and climate station in Conegliano, Veneto region, Italy (inset), 1964–2009.

Supplemental Data for:

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Supplemental Table 1 Statistics of the length of the intervals between budbreak, bloom, veraison, and harvest dates for 18 *V. vinifera* cultivars, their overall average and averages for early (E), middle (M), and late (L) cultivars, 1964–2009, Conegliano, Italy.

Cultivar	Budbreak to Bloom					Budbreak to Veraison					Budbreak to Harvest					Bloom to Veraison					Bloom to Harvest					Veraison to Harvest				
	Mean	SD	Max	Min	Range	Mean	SD	Max	Min	Range	Mean	SD	Max	Min	Range	Mean	SD	Max	Min	Range	Mean	SD	Max	Min	Range	Mean	SD	Max	Min	Range
Müller Thurgau (E)	52	10.0	74	33	41	108	9.0	129	91	38	145	9.8	172	127	45	56	6.6	69	44	25	94	10.1	122	74	48	38	9.4	59	23	36
Pinot Grigio (E)	50	10.1	71	33	38	110	9.5	132	91	41	145	9.8	172	127	45	60	5.6	77	50	27	95	9.8	132	78	54	35	9.7	60	16	44
Chardonnay (E)	52	10.5	76	33	43	114	10.7	142	90	52	145	13.2	187	124	63	63	5.1	78	52	26	97	6.5	114	87	27	34	6.5	53	20	33
Franconia (E)	55	11.1	82	36	46	117	12.0	143	93	50	148	11.3	173	123	50	62	7.3	85	42	43	98	9.6	120	81	39	36	10.5	57	12	45
Pinot noir (E)	52	10.8	80	33	47	116	10.7	137	99	38	153	14.4	182	129	53	63	8.6	88	42	46	103	12.7	143	78	65	40	12.1	75	10	65
Merlot (M)	51	11.1	73	32	41	116	11.2	144	90	54	155	14.7	189	132	57	65	6.2	84	53	31	102	10.7	136	85	52	37	10.3	63	19	44
Albana (M)	52	11.7	93	34	59	114	12.5	148	91	57	153	14.6	189	126	63	62	6.9	91	50	41	99	9.0	117	76	41	37	9.1	52	13	39
Tocai Friulano (M)	49	10.3	68	31	37	116	11.6	137	94	43	150	13.0	185	124	61	67	5.5	93	59	34	104	11.2	129	77	52	37	11.5	62	10	52
Cabernet franc (M)	52	11.4	76	32	44	120	11.4	141	98	43	152	13.2	187	130	57	68	7.0	87	52	35	109	9.4	137	90	47	41	10.7	63	17	46
Corvinone (M)	55	10.9	75	33	43	123	9.4	142	99	43	160	12.1	185	129	56	68	6.8	86	54	32	109	11.0	138	80	58	42	10.6	63	15	48
Prosecco (M)	56	9.0	74	42	33	126	10.0	146	102	44	164	11.2	194	146	48	70	5.8	92	59	33	113	8.7	134	96	38	42	8.8	62	21	42
Cabernet Sauvignon (L)	48	8.9	67	32	35	116	9.8	135	95	40	168	12.7	193	138	55	67	5.9	83	57	26	110	10.7	141	86	55	43	11.9	73	17	57
Garganega (L)	48	9.5	72	32	40	113	10.6	141	99	43	159	13.3	196	139	58	65	6.4	84	53	31	108	8.6	127	93	34	43	8.1	64	31	33
Marzemino (L)	56	10.6	80	35	45	125	10.8	153	105	48	156	13.4	194	137	57	70	5.9	90	58	32	112	9.6	135	96	39	42	10.8	63	22	41
Trebbiano di Soave (L)	50	10.5	72	31	41	120	11.3	149	97	52	168	14.3	197	139	58	70	7.3	89	44	45	111	9.8	130	89	41	41	10.4	71	22	50
Trebbiano Toscano (L)	48	8.2	66	33	33	117	9.5	148	103	45	161	13.7	192	136	57	69	8.4	93	48	45	110	9.7	128	93	36	41	9.7	63	15	48
Corvina (L)	53	10.5	74	35	39	127	11.9	151	103	48	158	11.7	193	140	53	74	8.2	101	54	47	116	10.5	138	89	49	42	9.0	61	28	33
Molinara (L)	52	10.3	72	31	41	127	12.4	151	86	65	169	13.8	191	138	53	76	8.2	97	50	47	116	8.0	137	96	41	41	7.8	63	26	37
Overall avg.	52	10.3	75	33	41	118	10.8	143	96	47	156	12.8	187	132	55	66	6.8	87	51	36	106	9.8	131	86	45	39	10.0	63	19	44
Early avg. (E)	52	10.5	77	34	43	113	10.4	137	93	44	147	11.7	177	126	51	61	6.6	79	46	33	97	9.7	126	80	47	36	10.2	61	16	45
Middle avg. (M)	52	10.7	77	34	43	119	11.0	143	96	47	156	13.1	188	131	57	67	6.4	89	55	34	106	10.0	132	84	48	39	10.2	61	16	45
Late avg. (L)	51	9.8	72	33	39	121	10.9	147	98	49	163	13.3	194	138	56	70	7.2	91	52	39	112	9.6	134	92	42	42	9.7	65	23	43