

SUPPLEMENTARY DATA

Biss, A. J., & Ellis, R. H. (2022). Weather potential for high-quality still wine from Chardonnay viticulture in different regions of the UK with climate change. *OENO One*, 56(4), 201–220. <https://doi.org/10.20870/oenone.2022.56.4.5458>

Supplementary data



Figure S1. Location of vineyards in relation to administrative regions of the UK (left panel) and the counties of East of England, East Midlands and South East England (right panel, with Greater London's Enfield and City of London also marked). Location of vineyards as of 11 November 2020

Table S1. UKCP18 probabilistic projections for mean summer temperature in England and Wales, in 2040-2059, with different emissions scenarios. Source: UKCP18 Key Results, Met Office (n.d.[b]).

Region	Time Horizon (relative to 1981-2000)	Emissions Scenario	Change in Mean Summer Temperature (°C)				
			5th percentile change	10th percentile change	50th percentile change	90th percentile change	95th percentile change
England and Wales	2040-2059	RCP2.6	0.5	0.8	1.8	2.8	3.1
England and Wales	2040-2059	RCP4.5	0.3	0.6	1.7	2.9	3.2
England and Wales	2040-2059	RCP6.0	0.3	0.5	1.6	2.7	3
England and Wales	2040-2059	RCP8.5	0.7	1	2.3	3.6	4

Table S2. Change in mean climate indices ($T_{mean_{Apr-Sep}}$, CNI and $P_{Jun-Sep}$) from 1981-2000 to 2010-19, derived from HadUK-Grid data and summarized by UK administrative region. Also provided is the ratio of change in CNI to that in $T_{mean_{Apr-Sep}}$.

UK Region	Change (1981-2000 to 2010-19)			
	$T_{mean_{Apr-Sep}}$ (°C)	CNI (°C)	$P_{Jun-Sep}$ (%)	$\Delta CNI / \Delta T_{mean_{Apr-Sep}}$ (%)
England				
East Midlands	0.72	0.30	7.7	42.2
East of England	0.70	0.06	2.0	8.6
London	0.64	0.06	4.3	9.3
North East England	0.68	0.71	20.4	105.1
North West England	0.50	0.52	21.9	104.2
South East England	0.59	0.10	3.8	16.9
South West England	0.53	0.37	6.4	70.7
West Midlands	0.57	0.24	5.7	42.3
Yorkshire and Humber	0.67	0.47	12.8	69.8
Northern Ireland	0.48	0.55	11.5	113.6
Scotland	0.49	0.74	10.0	150.6
Wales	0.48	0.37	9.3	78.3

Table S3. Climate indices for the 30 UK counties with the largest areas of planted vineyards. Indices are weighted within each county based on vineyard size. See Table S4 for individual vineyard scores and climate indices. <see Excel>

Table S4. Vintage scores provided by the Model for 819 UK vineyards. Vineyard name, size, address and location from Skelton (2020b). <see Excel>