

## SUPPLEMENTARY DATA

**Supp.Table 1.** The coefficient length of day (d) by latitude for the HI Index. (Tonietto and Carbonneau, 2004.)

Latitude	Length of Day coefficient (d)
<40°00'	1.00
40°01' - 42°00'	1.02
42°01' - 44°00'	1.03
44°01' - 46°00'	1.04
46°01' - 48°00'	1.05
48°01' - 50°00'	1.06

**Supp.Table 2.** Classes of viticultural climate for the heliothermal index of the grape-growing regions. (Tonietto and Carbonneau, 2004.)

Index	Class of viticultural climate	Acronym	Class interval
Heliothermal index, HI	Very warm	HI + 3	>3000
	Warm	HI + 2	>2400 ≤ 3000
	Temperate warm	HI + 1	>2100 ≤ 2400
	Temperate	HI - 1	>1800 ≤ 2100
	Cool	HI - 2	>1500 ≤ 1800
	Very cool	HI - 3	≤1500

**Supp.Table 3.** Monthly Mean Maximum temperature for weather station Yarrowonga (located 45KM from Dookie, Victoria). Station Number: 081124,Victoria, Latitude: 36.03°S, Longitude: 146.03°E, Elevation: 129 m. (Australian Bureau of Meteorology (a).)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2018	35.3	32.8	29.4	27.2	18.9	14.6	14.3	14.9	19.4	25.2	27.4	32.8	24.3
2019	37.2	32.0	29.3	24.9	17.4	14.7	13.8	14.3	18.7	25.7	27.1	33.1	24.0
2020	33.2	31.1	26.6	21.3	16.7	13.8	13.8	14.5	19.1	23.3	30.7	29.9	22.8
2021	32.4	30.0	26.0	23.0	18.9	13.7	12.8	15.5	18.5	21.0	24.0	30.5	22.2

**Supp.Table 4.** Monthly Mean Minimum temperature for weather station Yarrowonga (located 45KM from Dookie, Victoria). Station Number: 081124,Victoria, Latitude: 36.03°S, Longitude: 146.03°E, Elevation: 129 m. (Australian Bureau of Meteorology (b).)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2018	17.2	15.5	12.3	10.1	6.0	3.3	2.7	2.7	2.9	8.0	11.3	16.7	9.1
2019	19.7	15.7	14.6	10.1	7.2	3.5	4.5	1.8	3.7	7.1	10.3	14.1	9.4
2020	15.7	16.4	12.8	9.6	5.0	3.5	2.7	3.5	6.1	9.0	12.6	12.3	9.1
2021	15.5	14.3	11.6	7.5	5.8	4.8	4.2	3.7	5.2	6.6	10.3	12.4	8.5
2022	17.7	15.0	14.0	11.2	7.0	4.3	1.0	4.5	5.6	9.4	10.1	12.3	9.3

**Supp.Table 5.** Monthly Rainfall (mm) for weather station Numurkah (located 33.7km from Dookie, Victoria) Station Number: 8010, Victoria, Latitude: 36.09° S, Longitude: 145.45° Elevation: 105 m. (Australian Bureau of Meteorology (c).)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2019		5.4		9.4	49.4	42.4	54.3	20.6	11.2	7.1	43.1	0.0	
2020	67.9	20.0	69.6	105.2	28.8	22.8	30.8	50.6	16.1	50.6	21.0	12.7	496.1
2021	69.6	10.6	70.7	4.2	21.0	64.7	46.0	27.0	79.2	19.2	59.6	9.0	480.8
2022	78.2	9.4	45.2	70.6		38.2	20.2	63.8	90.3	175.8	77.4	74.8	

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**Supp. Table 6.** Harvest time and water must treatment effects on measures of pigmented tannin %, chemical Age 1 and 2, colour density (a.u.), free anthocyanins (mg/L), hue, pigmented tannin a.u.), total phenolics (a.u.) total pigment (a.u.) and total tannin (%). Combined data results for 2020 (Year 1) and 2021 (Year 2) years.

Phenolic Compound	Early 13.5° Bé			Middle 14.5° Bé			14.5° Bé Middle Diluted 13.5° Bé			Late 15.5° Bé			15.5° Bé Late Diluted 13.5° Bé			15.5° Bé Late Diluted 14.5° Bé			15.5° Bé Late Bleed and Replace 13.5° Bé		
	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI	Mean	Standard Error (SE)	95% CI
Treatment																					
Pigmented Tannin (%)	15.80	0.86	14.05, 17.55 ab	16.23	0.86	14.48, 17.98 abc	15.36	0.86	13.61, 17.11 a	18.60	0.86	16.85, 20.35 cd	19.81	0.80	18.19, 21.43 d	18.20	0.86	16.45, 19.95 bcd	17.26	0.71	15.82, 18.71 abc
Chemical Age 1	0.43	0.01	0.40, 0.45 a	0.44	0.01	0.42, 0.47 ab	0.43	0.01	0.40, 0.45 a	0.49	0.01	0.46, 0.51	0.49	0.01	0.47, 0.52 c	0.47	0.01	0.44, 0.49 bc	0.45	0.01	0.43, 0.47 ab
Chemical Age 2	0.16	0.01	0.14, 0.18 ab	0.16	0.01	0.15, 0.18 abc	0.15	0.01	0.13, 0.17 a	0.19	0.01	0.17, 0.20 cd	0.20	0.01	0.18, 0.22 d	0.18	0.01	0.17, 0.20 bcd	0.17	0.01	0.16, 0.19 abc
Colour Density (a.u.)	11.75	0.34	11.06, 12.44 a	14.98	0.34	14.29, 15.67	13.18	0.34	12.49, 13.87 b	17.00	0.34	16.31, 17.69 d	14.59	0.32	13.95, 15.23 c	14.53	0.34	13.84, 15.22 c	14.33	0.28	13.75, 14.90 c
Free Anthocyanins (mg/L)	292.67	12.85	266.65, 318.68 a	359.50	12.85	333.49, 385.51 b	316.3	12.85	290.32, 342.35 a	363.8	12.85	337.82, 389.85 b	288.4	11.92	264.29, 312.53 a	318.0	12.84	291.99, 344.01 a	318.2	10.61	296.81, 339.76 a
Hue	0.72	0.01	0.70, 0.73 abc	0.72	0.01	0.71, 0.74 bc	0.73	0.01	0.72, 0.75 c	0.71	0.01	0.70, 0.73 abc	0.72	0.01	0.70, 0.73 abc	0.71	0.01	0.69, 0.72 ab	0.70	0.01	0.69, 0.71 a
Pigmented Tannin (a.u.)	2.87	0.14	2.58, 3.16 a	3.84	0.14	3.55, 4.14 bc	3.22	0.14	2.93, 3.51 a	4.84	0.14	4.55, 5.13 d	4.17	0.13	3.90, 4.44 c	3.92	0.14	3.63, 4.21 bc	3.67	0.12	3.52, 4.00 b
Total Phenolics (a.u.)	47.00	1.11	44.75, 49.25 a	57.67	1.11	55.41, 59.92 c	51.33	1.11	49.08, 53.59 b	61.50	1.11	59.25, 63.75 d	51.78	1.03	49.70, 53.87 b	52.67	1.11	50.92, 54.92 b	52.61	0.92	50.75, 54.47 b

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<b>Total Pigment (a.u.)</b>	19.41	0.66	18.07, 20.75	24.39	0.66	23.04, 25.73	21.19	0.66	19.85, 22.53 ab	26.25	0.66	24.90, 27.59 c	21.38	0.62	20.14, 22.63 b	22.44	0.66	21.09, 23.78 b	22.18	0.55	21.07, 23.29 b
<b>Total Tannin (%)</b>	1.13	0.05	1.03, 1.23 a	1.57	0.05	1.47, 1.67 c	1.30	0.05	1.20, 1.40 b	1.74	0.05	1.65, 1.84 d	1.35	0.05	1.26, 1.44 b	1.35	0.05	1.25, 1.45 b	1.39	0.04	1.31, 1.47 b

Mean measurements for triplicate samples are presented. Treatment groups that do not have statistically significant differences ( $p < 0.05$ ) in these plots will share the same letter (95% CI), those processes that are statistically different will have different letters. For the cells where no letters are present, this indicates no overall difference between any treatment groups/processes for that attribute.

**Supp.Table 7.** Just About Right Naïve Wine Consumer sensory analysis raw data, by process (treatment group) and sensory attributes, combined results for 2020 (Year 1) and 2021 (Year 2).

Process	Mean	SE	df	95% CI	group
Colour intensity					
Early 13.5	3.06	0.06	505	2.94, 3.19	a
Middle diluted 13.5	3.21	0.06	505	3.09, 3.33	b
Late diluted 13.5	3.44	0.06	505	3.32, 3.56	c
Late bleed replace 13.5	3.47	0.06	505	3.35, 3.59	c
Middle 14.5	3.43	0.06	505	3.31, 3.55	c
Late diluted 14.5	3.49	0.06	505	3.37, 3.61	c
Late 15.5	3.53	0.06	505	3.41, 3.65	c
Red fruit smell					
Early 13.5	2.83	0.08	726	2.68, 2.97	a
Middle diluted 13.5	2.88	0.08	726	2.73, 3.03	ab
Late diluted 13.5	2.98	0.08	726	2.83, 3.12	abc
Late bleed replace 13.5	2.93	0.08	726	2.78, 3.08	ab
Middle 14.5	3.04	0.08	726	2.89, 3.19	bc
Late diluted 14.5	3.13	0.08	726	2.98, 3.28	c
Late 15.5	2.95	0.08	726	2.80, 3.10	abc
Dark fruit smell					
Early 13.5	3.04	0.07	694	2.90, 3.18	
Middle diluted 13.5	2.99	0.07	694	2.85, 3.12	
Late diluted 13.5	3.10	0.07	694	2.96, 3.24	
Late bleed replace 13.5	2.94	0.07	694	2.80, 3.08	
Middle 14.5	3.02	0.07	694	2.88, 3.16	
Late diluted 14.5	3.13	0.07	694	2.99, 3.27	
Late 15.5	3.16	0.07	694	3.02, 3.30	
Ripe fruit smell					
Early 13.5	2.90	0.08	682	2.75, 3.05	
Middle diluted 13.5	3.00	0.08	682	2.85, 3.15	
Late diluted 13.5	3.09	0.08	682	2.94, 3.24	
Late bleed replace 13.5	2.96	0.08	682	2.81, 3.11	
Middle 14.5	2.99	0.08	682	2.84, 3.14	
Late diluted 14.5	3.14	0.08	682	2.99, 3.29	
Late 15.5	3.09	0.08	682	2.94, 3.24	
Vegetal smell					
Early 13.5	2.50	0.08	638	2.33, 2.66	a
Middle diluted 13.5	2.73	0.08	638	2.56, 2.89	bcd
Late diluted 13.5	2.80	0.08	638	2.64, 2.96	cd
Late bleed replace 13.5	2.89	0.08	638	2.72, 3.05	d
Middle 14.5	2.72	0.08	638	2.56, 2.88	bcd
Late diluted 14.5	2.62	0.08	638	2.46, 2.79	abc
Late 15.5	2.57	0.08	638	2.41, 2.73	ab
Odour intensity					
Early 13.5	3.04	0.07	686	2.90, 3.19	

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Middle diluted 13.5	2.92	0.07	686	2.78, 3.07	
Late diluted 13.5	3.02	0.07	686	2.87, 3.17	
Late bleed replace 13.5	3.04	0.07	686	2.90, 3.19	
Middle 14.5	2.91	0.07	686	2.76, 3.06	
Late diluted 14.5	2.93	0.07	686	2.79, 3.08	
Late 15.5	3.02	0.07	686	2.87, 3.17	
Odour complexity					
Early 13.5	2.81	0.07	703	2.67, 2.95	
Middle diluted 13.5	2.95	0.07	703	2.81, 3.09	
Late diluted 13.5	2.93	0.07	703	2.79, 3.07	
Late bleed replace 13.5	2.93	0.07	703	2.79, 3.07	
Middle 14.5	2.89	0.07	703	2.75, 3.03	
Late diluted 14.5	2.98	0.07	703	2.84, 3.12	
Late 15.5	3.08	0.07	703	2.94, 3.22	
Red fruit taste					
Early 13.5	2.99	0.07	694	2.84, 3.13	
Middle diluted 13.5	3.03	0.07	694	2.89, 3.18	
Late diluted 13.5	2.88	0.07	694	2.74, 3.03	
Late bleed replace 13.5	3.03	0.07	694	2.88, 3.17	
Middle 14.5	2.91	0.07	694	2.76, 3.05	
Late diluted 14.5	3.03	0.07	694	2.89, 3.18	
Late 15.5	2.87	0.07	694	2.72, 3.01	
Dark fruit taste					
Early 13.5	3.05	0.07	600	2.92, 3.19	
Middle diluted 13.5	3.04	0.07	600	2.90, 3.17	
Late diluted 13.5	3.06	0.07	600	2.92, 3.20	
Late bleed replace 13.5	3.08	0.07	600	2.94, 3.21	
Middle 14.5	3.01	0.07	600	2.88, 3.15	
Late diluted 14.5	3.11	0.07	600	2.97, 3.25	
Late 15.5	3.12	0.07	600	2.99, 3.26	
Vegetal taste					
Early 13.5	2.56	0.08	512	2.40, 2.73	a
Middle diluted 13.5	2.75	0.08	512	2.59, 2.92	b
Late diluted 13.5	2.91	0.08	512	2.74, 3.08	b
Late bleed replace 13.5	2.88	0.08	512	2.71, 3.04	b
Middle 14.5	2.91	0.08	512	2.74, 3.08	b
Late diluted 14.5	2.79	0.08	512	2.63, 2.96	b
Late 15.5	2.93	0.08	512	2.76, 3.09	b
Ripe fruit taste					
Early 13.5	2.81	0.07	558	2.67, 2.96	abc
Middle diluted 13.5	2.80	0.07	558	2.65, 2.94	abc
Late diluted 13.5	2.96	0.07	558	2.82, 3.11	c
Late bleed replace 13.5	2.79	0.07	558	2.64, 2.94	ab
Middle 14.5	2.68	0.07	558	2.53, 2.83	a
Late diluted 14.5	2.90	0.07	558	2.75, 3.05	bc
Late 15.5	2.93	0.07	558	2.79, 3.08	bc

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Astringency					
Early 13.5	2.81	0.08	552	2.65, 2.96	a
Middle diluted 13.5	2.95	0.08	552	2.79, 3.11	ab
Late diluted 13.5	3.01	0.08	552	2.85, 3.16	bc
Late bleed replace 13.5	3.09	0.08	552	2.93, 3.24	bc
Middle 14.5	3.14	0.08	552	2.98, 3.30	c
Late diluted 14.5	3.19	0.08	552	3.03, 3.35	c
Late 15.5	3.18	0.08	552	3.02, 3.34	c
Hotness					
Early 13.5	2.84	0.08	624	2.69, 3.00	a
Middle diluted 13.5	2.81	0.08	624	2.66, 2.97	a
Late diluted 13.5	2.95	0.08	624	2.79, 3.10	ab
Late bleed replace 13.5	2.78	0.08	624	2.62, 2.94	a
Middle 14.5	3.12	0.08	624	2.97, 3.28	bc
Late diluted 14.5	3.19	0.08	624	3.04, 3.35	c
Late 15.5	3.27	0.08	624	3.12, 3.43	c
Viscosity					
Early 13.5	2.61	0.07	559	2.48, 2.74	a
Middle diluted 13.5	2.80	0.07	559	2.67, 2.93	b
Late diluted 13.5	2.85	0.07	559	2.72, 2.98	bc
Late bleed replace 13.5	2.87	0.07	559	2.74, 3.00	bc
Middle 14.5	2.78	0.07	559	2.65, 2.90	b
Late diluted 14.5	2.90	0.07	559	2.77, 3.03	bc
Late 15.5	2.97	0.07	559	2.84, 3.10	c
Body					
Early 13.5	2.68	0.07	499	2.54, 2.81	a
Middle diluted 13.5	2.88	0.07	499	2.74, 3.01	bc
Late diluted 13.5	2.98	0.07	499	2.84, 3.11	cd
Late bleed replace 13.5	2.81	0.07	499	2.68, 2.95	ab
Middle 14.5	2.96	0.07	499	2.82, 3.09	bcd
Late diluted 14.5	3.01	0.07	499	2.88, 3.15	cd
Late 15.5	3.04	0.07	499	2.91, 3.18	d
Length					
Early 13.5	2.87	0.08	593	2.73, 3.02	a
Middle diluted 13.5	2.93	0.08	593	2.78, 3.08	ab
Late diluted 13.5	3.11	0.08	593	2.96, 3.26	c
Late bleed replace 13.5	3.01	0.08	593	2.86, 3.16	abc
Middle 14.5	3.10	0.08	593	2.96, 3.25	bc
Late diluted 14.5	3.14	0.08	593	2.99, 3.29	c
Late 15.5	3.18	0.08	593	3.04, 3.33	c
Overall					
Early 13.5	5.31	0.15	555	5.02, 5.60	b
Middle diluted 13.5	5.42	0.15	555	5.13, 5.71	b
Late diluted 13.5	5.23	0.15	555	4.94, 5.53	b
Late bleed replace 13.5	5.23	0.15	555	4.94, 5.52	b
Middle 14.5	4.85	0.15	555	4.56, 5.14	a

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Late diluted 14.5	5.33	0.15	555	5.04, 5.62	b
Late 15.5	5.15	0.15	555	4.86, 5.44	ab
Purchase likelihood					
Early 13.5	2.79	0.09	531	2.62, 2.96	
Middle diluted 13.5	2.77	0.09	531	2.60, 2.94	
Late diluted 13.5	2.80	0.09	531	2.63, 2.97	
Late bleed replace 13.5	2.85	0.09	531	2.68, 3.01	
Middle 14.5	2.56	0.09	531	2.39, 2.73	
Late diluted 14.5	2.71	0.09	531	2.54, 2.88	
Late 15.5	2.66	0.09	531	2.49, 2.83	

**Supp Table 8.** Fermentation tracking 2020 (Year 1). Mean measurements for triplicate samples are presented.

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		
			PM	AM	PM	AM	PM	AM	PM	AM	PM	
Early 13.5	Temp (oC)			21.0	22.5	25.5	28.8	27.3	24.5	24.5	23.2	22.2
	Baume (Be)			13.5	12.6	9.3	7.3	5.1	1.9	1.1	-0.4	-0.4
Middle 14.5	Temp (oC)			16.5	18.3	20.0	22.3	24.5	26.0	29.5	21.0	20.0
	Baume (Be)			14.5	14.3	13.9	12.6	11.3	6.3	4.1	1.8	-0.1
Middle diluted 13.5	Temp (oC)			16.0	18.5	19.8	22.2	24.5	26.8	28.8	21.2	20.3
	Baume (Be)			14.5	13.1	12.4	11.3	10.5	5.3	3.5	1.1	-0.2
Late	Temp (oC)			18.0	19.0	19.3	21.2	22.0	25.7	28.7	21.7	21.0
	Baume (Be)			15.3	15.3	15.3	13.6	13.0	8.5	6.7	2.5	-0.1
Late diluted 14.5	Temp (oC)			18.0	18.5	18.8	20.3	21.7	24.7	27.0	22.3	21.3
	Baume (Be)			15.2	14.5	14.2	13.1	11.9	8.4	6.5	2.6	-0.1
Late diluted 13.5	Temp (oC)			18.0	18.8	19.0	21.2	21.5	24.5	27.2	23.3	21.0
	Baume (Be)			15.3	13.4	13.1	12.2	11.3	7.2	5.7	1.5	-0.2
Late bleed and replace 13.5	Temp (oC)			18.0	19.0	19.0	20.7	22.2	24.3	26.7	23.0	21.0
	Baume (Be)			15.1	13.4	12.9	11.7	10.5	6.8	5.1	1.6	-0.2

**Supp. Table 9.** Fermentation tracking 2021 (Year 2). Mean measurements for triplicate samples are presented.

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		
			PM	AM	PM	AM	PM	AM	PM	AM	PM	
Early 13.5	Temp (oC)			22.0	24.5	27.8	27.5	27.3	23.5	23.3	23.1	21.1
	Baume (Be)			13.5	12.7	9.4	7.4	5.2	3.4	2.2	-0.2	-0.4
Middle 14.5	Temp (oC)			18.0	18.6	21.0	22.0	24.5	25.5	24.5	22.5	21.2
	Baume (Be)			14.5	14.2	13.8	12.5	11.3	6.4	3.9	1.0	-0.1
Middle diluted 13.5	Temp (oC)			18.0	18.4	20.0	22.0	24.5	25.4	27.4	21.6	21.3
	Baume (Be)			14.5	13.2	12.5	11.4	10.5	6.5	3.6	1.0	-0.1
Late	Temp (oC)			18.5	18.6	19.3	21.4	22.0	25.4	26.8	22.5	22.0
	Baume (Be)			15.5	15.2	14.8	13.6	13.0	6.8	3.9	1.9	-0.1
Late diluted 14.5	Temp (oC)			18.5	18.4	19.0	21.5	21.7	25.8	26.5	23.5	22.1
	Baume (Be)			15.5	14.6	14.0	13.5	11.9	8.5	4.9	1.8	-0.1
Late diluted 13.5	Temp (oC)			18.6	19.1	19.0	23.5	21.5	26.5	27.5	23.5	23.1
	Baume (Be)			15.4	13.6	13.0	11.9	11.3	6.9	3.5	1.6	-0.1
Late bleed and replace 13.5	Temp (oC)			19.0	19.1	19.5	21.5	22.2	23.9	27.4	23.0	23.1
	Baume (Be)			15.1	13.5	12.8	11.6	10.5	6.8	3.6	1.6	-0.2

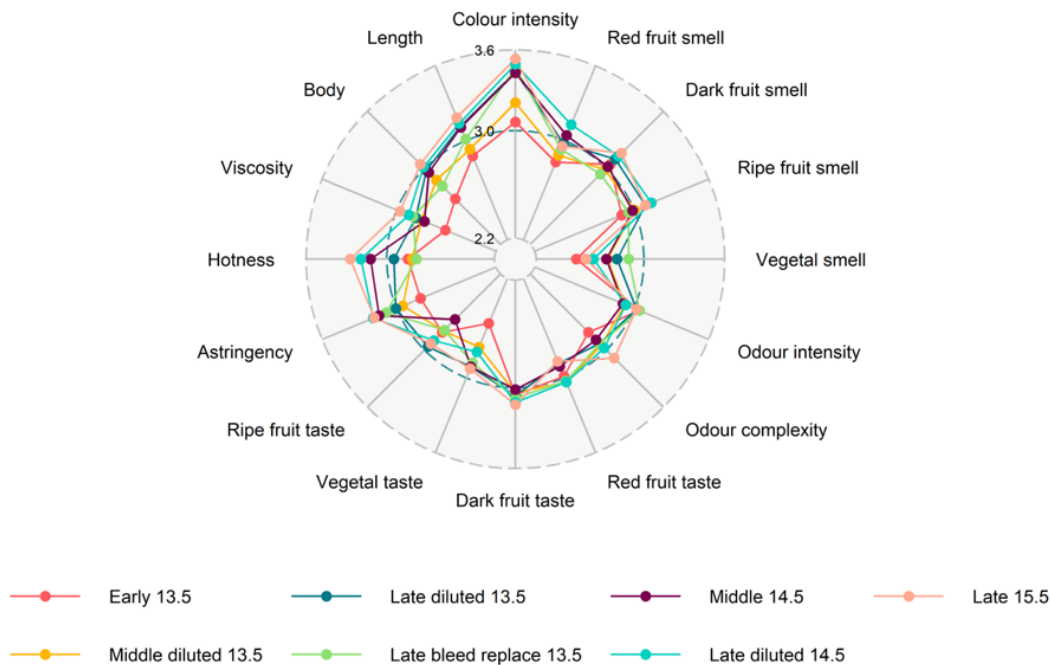


**Supp. Table 10.** Analysis of wine treatments post fermentation (day 5) 2020 (Year 1). Mean measurements for triplicate samples are presented.

Trial	pH	VA g/L	Lactic Acid g/L	Total sugar g/L	TA g/L	Malic Acid g/L
Early 13.5	3.61	0.48	2.10	1.93	7.01	0.82
Middle 14.5	3.73	0.37	1.86	2.42	6.32	0.96
Middle diluted 13.5	3.67	0.44	1.91	2.21	6.35	0.83
Late	3.71	0.38	1.53	2.32	6.35	1.07
Late diluted 14.5	3.74	0.36	1.56	2.04	6.55	0.96
Late diluted 13.5	3.73	0.37	1.62	1.95	6.34	0.88
Late bleed and replace 13.5	3.72	0.39	1.70	1.63	6.37	0.78

**Supp. Table 11.** Analysis of wine treatments means post fermentation (day 5) 2021 (Year 2). Mean measurements for triplicate samples are presented.

Trial	pH	VA g/L	Lactic Acid g/L	Total sugar g/L	TA g/L	Malic Acid g/L
Early 13.5	3.62	0.42	2.12	1.93	6.75	0.80
Middle 14.5	3.71	0.36	1.93	2.10	6.30	0.90
Middle diluted 13.5	3.70	0.38	1.91	1.96	6.29	0.82
Late	3.71	0.40	1.81	2.07	6.25	1.00
Late diluted 14.5	3.74	0.31	1.68	2.00	6.36	1.01
Late diluted 13.5	3.73	0.39	1.63	1.99	6.37	0.93
Late bleed and replace 13.5	3.72	0.36	1.66	1.90	6.40	0.86



**Supp. Figure 1.** Just About Right analysis for all sensory parameters – for 2020 (Year 1) and 2021 (Year 2) combined. Naïve cohort sensory data analysis shows that there is a difference in consumer perception of different wine attributes between wines at Early, Middle and Late harvest times and between different water treatment groups.