

HARVEST FEEDBACK 2019! #3

Results for Chenin Blanc, Sauvignon Blanc, Viognier, Pinotage & Merlot

5 February 2019



Data collected between 25-31 January 2019

CULTIVAR	ORIGIN		BALLING	pH	TA	MALIC	NOPA	AMMONIA	YAN	GLUCOSE	FRUCTOSE	POTASSIUM
Chenin Blanc (Green)	Botrivier	MIN	20.63	3.10	9.65	4.92	127	71	198	103.65	110.06	1303.11
		MAX	23.69	3.23	7.43	3.64	136	52	188	134.91	124.24	1590.86
		AVG	21.33	3.15	9.24	4.94	150	74	223	113.14	110.52	1482.05
	Darling	MIN	21.88	3.24	9.22	5.37	158	62	220	116.62	113.12	1591.19
		MAX	23.84	3.21	9.47	4.81	159	69	228	132.94	121.55	1734.03
		AVG	22.86	3.23	9.35	5.09	159	66	224	124.78	117.34	1662.61
	Franschhoek	MIN	18.11	3.06	12.72	7.95	209	105	314	93.70	86.85	1348.39
		MAX	22.73	3.22	10.04	4.81	104	25	129	126.38	112.36	2226.87
		AVG	20.17	3.11	11.07	6.32	116	47	163	108.64	98.38	1613.17
	Olifants River	MIN	22.04	3.16	10.08	5.18	142	41	183	116.59	107.74	1868.39
		MAX	28.79	3.23	7.97	2.97	104	63	167	171.69	156.53	2179.21
		AVG	25.42	3.20	9.03	4.08	123	52	175	144.14	132.14	2023.80
	Paarl 18-22 Balling	MIN	18.40	3.18	9.48	5.24	187	85	272	94.33	87.64	1408.47
		MAX	21.95	3.19	9.49	4.79	147	54	201	114.93	112.21	1722.91
		AVG	20.75	3.17	9.25	4.62	148	60	208	106.11	102.15	1722.43
	Paarl >22 Balling	MIN	22.17	3.14	7.62	3.65	113	49	162	118.21	113.87	1544.79
		MAX	24.98	3.20	7.24	2.71	85	32	117	147.73	129.33	1823.60
		AVG	23.34	3.30	7.26	3.78	145	44	190	126.80	119.83	1786.50
	Stellenbosch 18-22 Balling	MIN	18.61	2.97	10.60	4.69	129	76	205	93.70	89.93	1228.09
		MAX	21.76	3.26	6.77	2.74	181	64	245	118.23	114.78	1504.64
		AVG	20.30	3.05	10.39	4.83	127	59	186	102.33	96.63	1594.35
Stellenbosch >22 Balling	MIN	19.23	3.00	11.71	6.09	89	50	139	109.21	92.20	1402.71	
	MAX	23.56	3.11	9.49	4.76	132	65	197	130.25	121.40	1624.13	
	AVG	21.93	3.12	9.50	4.65	140	65	205	117.12	109.35	1497.14	
Swarthland 18-22 Balling	MIN	18.05	3.09	12.05	7.41	148	63	211	89.43	79.90	1491.66	
	MAX	21.97	3.26	8.42	4.48	139	46	185	119.10	106.03	1930.27	
	AVG	20.58	3.14	9.23	4.42	144	67	211	105.76	100.66	1565.86	
Swarthland >22 Balling	MIN	22.26	3.20	8.10	3.75	126	51	177	125.40	117.35	1447.32	
	MAX	26.04	3.61	6.30	3.52	250	91	341	145.48	139.43	2382.28	
	AVG	23.70	3.33	7.11	3.28	171	64	235	126.37	123.13	1848.68	
Walker Bay	MIN	21.84	3.15	13.16	7.72	245	112	357	103.85	110.12	2146.96	
	MAX	22.84	3.13	12.84	6.88	198	79	277	114.11	115.11	2271.71	
	AVG	22.34	3.14	13.00	7.30	222	96	317	108.98	112.62	2209.34	
Wellington	MIN	21.93	3.41	7.75	5.59	133	46	179	115.83	109.87	2101.92	
	MAX	22.94	3.29	8.97	5.77	124	43	167	127.64	117.20	1903.18	
	AVG	22.44	3.38	8.12	5.51	154	50	204	120.71	113.97	1933.09	
Sauvignon Blanc	Botrivier	MIN	20.88	3.03	10.97	4.85	134	89	223	109.72	103.37	1550.38
		MAX	21.70	2.89	11.98	4.15	91	79	170	116.32	108.26	1534.56
		AVG	21.44	2.98	10.85	4.26	107	75	181	108.88	106.49	1526.14
	Cape Peninsula	MIN	20.24	2.81	14.45	6.19	152	112	264	90.69	97.61	1534.44
		MAX	22.79	3.09	9.31	3.33	206	87	293	125.70	113.73	1704.82
		AVG	21.37	2.97	11.44	4.73	161	97	258	106.46	106.38	1559.63
	Darling	MIN	22.67	3.20	10.50	5.14	219	78	297	124.29	109.61	2398.18
		MAX	24.94	3.36	6.94	3.05	271	82	353	139.83	128.11	1876.97
		AVG	23.87	3.20	9.57	4.54	185	72	257	131.53	121.33	1849.25
	Durbanville	MIN	19.42	2.89	10.26	3.69	95	75	170	96.97	93.09	1185.56
		MAX	23.29	2.92	11.31	3.97	86	65	151	126.29	120.29	1604.55
		AVG	22.00	2.94	10.46	3.52	106	63	168	112.50	109.68	1535.09

Sauvignon Blanc	Elgin	MIN	18.92	2.82	16.02	7.77	174	116	290	84.50	85.86	1486.88
		MAX	21.62	2.89	11.78	3.95	167	89	256	100.23	105.42	1021.96
		AVG	20.10	2.86	13.09	5.37	156	96	252	92.18	95.36	1413.81
	Franschhoek	MIN	19.01	2.95	12.58	6.62	90	70	160	100.59	92.57	1391.70
		MAX	24.19	3.06	9.40	3.13	127	68	195	132.07	124.95	1797.77
		AVG	21.47	3.04	10.37	4.50	134	75	210	113.83	106.36	1728.10
	Napier	MIN	20.48	2.91	12.39	5.35	93	85	178	103.10	102.10	1500.59
		MAX	21.46	2.90	12.47	5.32	104	81	185	114.27	109.70	1502.43
		AVG	20.96	2.93	12.15	5.27	102	78	180	106.01	104.71	1561.74
	Olifantsrivier	MIN	24.55	3.24	8.51	4.08	139	55	194	130.54	127.29	1859.67
		MAX	24.93	3.31	7.75	4.04	156	49	205	127.12	128.44	2067.30
		AVG	24.74	3.28	8.13	4.06	148	52	200	128.83	127.87	1963.49
Paarl	MIN	20.08	3.15	10.69	5.75	193	81	274	102.69	98.91	1705.11	
	MAX	26.35	3.43	5.61	1.73	134	37	171	149.50	138.59	2166.80	
	AVG	21.94	3.20	8.67	4.15	174	89	263	114.32	109.92	1788.77	
Philadelphia	MIN	23.55	3.03	10.21	3.42	97	69	166	127.02	125.63	1853.89	
	MAX	25.45	3.09	9.28	2.85	119	80	199	136.34	140.77	1907.21	
	AVG	24.18	3.05	9.84	3.48	125	76	201	127.91	128.25	1914.45	
Stellenbosch 18-22 Balling	MIN	18.15	2.85	14.55	7.95	91	55	146	98.52	82.84	1245.03	
	MAX	21.91	3.26	8.27	4.07	146	59	205	122.89	105.98	2043.78	
	AVG	20.62	2.99	11.53	5.23	140	76	217	107.77	98.41	1601.93	
Stellenbosch >22 Balling	MIN	22.01	2.93	12.64	5.57	167	116	283	114.57	109.19	1736.82	
	MAX	24.99	3.11	9.30	3.39	81	32	113	147.58	128.48	2197.28	
	AVG	22.99	3.05	10.31	4.13	135	68	203	121.87	115.12	1782.79	
Swarfand	MIN	21.94	3.01	9.93	3.86	154	74	228	119.64	108.83	1669.06	
	MAX	23.04	2.83	12.38	3.72	122	83	205	119.53	113.11	1529.73	
	AVG	22.49	2.92	11.16	3.79	138	79	217	119.59	110.97	1599.40	
Walker Bay	MIN	19.08	2.90	12.77	5.73	78	76	154	90.19	91.08	1499.99	
	MAX	20.24	2.97	12.23	5.40	184	100	284	92.90	100.96	1624.18	
	AVG	19.66	2.94	12.50	5.57	131	88	219	91.55	96.02	1562.09	
Worcester	MIN	22.97	3.12	8.44	4.61	76	39	115	126.86	120.46	1484.98	
	MAX	24.33	3.24	8.19	4.46	122	57	179	141.78	130.17	1555.79	
	AVG	23.65	3.18	8.32	4.54	99	48	147	134.32	125.32	1520.39	
Vignier	Paarl	MIN	19.04	3.33	8.85	6.05	253	121	374	99.09	91.67	1716.27
		MAX	26.15	3.46	6.86	3.15	150	31	181	146.81	139.47	2156.85
		AVG	23.40	3.31	7.79	3.42	210	85	296	120.96	125.85	1811.62
	Stellenbosch	MIN	18.53	3.08	10.37	4.69	145	108	253	89.72	95.27	1612.59
MAX		23.64	3.18	9.29	3.33	184	66	250	119.11	124.03	1847.94	
AVG		20.69	3.11	9.61	3.78	165	93	258	100.57	107.56	1602.81	
Swarfand	MIN	21.47	3.00	9.02	2.21	84	54	138	102.97	110.36	1256.35	
	MAX	21.62	3.24	6.66	2.91	146	62	208	117.92	114.31	1243.64	
	AVG	21.55	3.12	7.84	2.56	115	58	173	110.45	112.34	1250.00	
Wellington	MIN	21.26	3.17	8.56	4.68	174	106	280	122.88	116.51	973.12	
	MAX	23.93	3.41	4.78	2.56	160	58	218	141.92	141.92	1073.21	
	AVG	22.60	3.29	6.67	3.62	167	82	249	132.40	129.22	1023.17	
Pinotage	Darling	MIN	24.15	3.35	7.96	3.23	156	50	206	126.33	124.54	2252.58
		MAX	25.02	3.42	7.99	4.17	168	56	224	133.38	128.72	2271.09
		AVG	24.59	3.39	7.98	3.70	162	53	215	129.86	126.63	2261.84
	Franschhoek	MIN	22.00	3.19	8.52	3.96	238	118	356	110.78	114.75	1501.61
		MAX	25.71	3.65	6.36	3.14	358	122	480	132.58	139.99	2421.06
		AVG	23.14	3.38	7.79	3.52	263	105	368	117.99	123.03	2030.54
Paarl	MIN	22.05	3.19	8.84	4.43	232	110	342	110.14	112.81	1628.37	
	MAX	27.69	3.69	6.09	3.53	319	113	432	156.72	147.61	2174.73	
	AVG	24.37	3.41	7.29	3.65	243	106	348	129.61	128.79	1923.66	
Stellenbosch	MIN	22.35	3.24	7.05	2.46	241	131	372	96.44	116.27	1506.07	
	MAX	30.88	3.50	6.63	1.76	195	101	296	163.51	170.72	2508.24	
	AVG	26.35	3.35	7.60	2.91	187	103	290	138.55	143.65	1979.75	
Swarfand	MIN	26.19	3.42	7.08	3.42	154	66	220	144.25	136.05	2369.09	
	MAX	28.99	3.39	7.08	2.50	367	128	495	150.58	165.04	1701.72	
	AVG	27.59	3.41	7.08	2.96	261	97	358	147.42	150.55	2035.41	
Merlot	Stellenbosch	MIN	22.86	3.30	5.90	1.46	92	39	131	127.54	118.84	2066.51
		MAX	23.92	3.23	8.18	2.95	100	57	157	136.57	118.26	2164.12
		AVG	23.56	3.30	6.93	2.50	120	56	176	130.29	123.47	2062.08
	Paarl	MIN	21.07	3.31	9.02	2.88	178	105	283	94.14	104.35	2544.52
MAX		23.96	3.39	6.47	1.62	124	49	173	128.95	123.06	2316.11	
AVG		22.86	3.31	7.61	2.15	135	67	202	114.85	115.81	2255.05	

Minimum, Maximum and Average values of cultivars are shown per region depending on their balling values.

Feedback on Data

Only regions with more than 10 samples were used to construct the table.

YAN

Lower YAN values (less than 140mg/L) observed appear to correlate with dryland vineyards.

MALIC

Remember to make adjustments to your juice!

TA levels decrease due to the loss of an acid group (malic acid) during MLF.

By compensating for this loss, lower pH levels will be achieved, and this will ensure microbial and oxidative stability.

For example:

3 g/L Malic acid *before* MLF will **decrease** TA *after* MLF by $(3 \times 1.119) = 3.36$ g/L

An increase in lactic acid levels of 1g/L will **increase** the TA *after* MLF by $(1 \times 0.833) = 0.83$ g/L

Thus, the total change in TA will be a **net decrease** of 2.53 g/L (3.36 minus 0.83)

Submit your samples online! <https://client.vinlab.com/>

Goodluck with Harvest Season 2019!

Regards
The Vinlab Team

