

## HARVEST FEEDBACK 2019! #4

Results for Chenin blanc, Sauvignon blanc, Semillon, Viognier, Cabernet franc, Cabernet sauvignon, Cinsault, Grenache Noir, Malbec, Merlot, Pinotage and Shiraz

12 February 2019



Data collected between 1-7 February 2019												
Cultivar	Region		Balling	pH	TA	malic	NOPA	Ammonia	YAN	Glucose	Fructose	Potassium
Chenin Blanc	Bot Rivier 18-22 Balling	Min	20.34	3.28	8.85	4.53	167	73	240	102.13	84.96	1883.04
		Max	20.48	3.16	8.25	3.69	153	62	215	101.27	92.02	1369.93
		Avg	20.41	3.22	8.55	4.11	160	68	228	101.70	88.49	1626.49
	Bot Rivier >22 Balling	Min	22.16	3.24	6.72	3.01	143	37	180	113.99	106.25	1665.02
		Max	22.69	3.18	7.22	2.48	133	40	173	108.25	106.34	1462.91
		Avg	22.34	3.21	6.92	2.71	139	38	177	110.63	106.75	1586.47
	Freede River Valley 18-22 Balling	Min	18.07	3.49	6.84	4.40	260	99	359	81.09	76.04	1835.89
		Max	21.39	3.22	8.50	3.03	242	100	342	98.42	94.81	2021.98
		Avg	19.77	3.28	8.18	3.86	236	90	326	92.89	87.16	1632.37
	Darling >22 Balling	Min	22.20	3.41	6.02	3.26	177	45	222	111.90	103.29	1841.75
		Max	22.55	3.63	5.30	3.75	171	43	214	112.25	103.70	2248.07
		Avg	22.38	3.52	5.66	3.51	174	44	218	112.08	103.50	2044.91
	Franschhoek 18-22 Balling	Min	19.51	3.19	10.61	6.33	245	82	327	94.01	82.43	1891.05
		Max	21.87	3.34	7.37	3.35	142	64	206	124.74	101.61	1574.45
		Avg	20.48	3.29	8.55	4.46	196	73	269	106.77	91.05	1731.98
	Paarl 18-22 Balling	Min	18.32	3.41	6.87	4.10	190	64	254	87.86	80.54	1644.56
		Max	21.97	3.31	7.12	4.58	183	55	238	115.12	101.20	1664.07
		Avg	20.68	3.30	7.28	3.60	168	52	220	104.82	91.51	1752.80
	Paarl >22 Balling	Min	22.11	3.58	7.23	4.52	194	49	243	112.37	100.32	2128.68
		Max	25.56	3.25	5.44	1.84	152	46	198	127.44	132.31	1292.31
Avg		23.25	3.38	6.46	2.88	206	59	265	117.80	110.52	1690.95	
Stellenbosch 18-22 Balling	Min	18.05	3.14	9.14	5.27	192	71	263	87.57	70.60	1320.96	
	Max	21.96	3.46	6.44	3.53	142	33	175	118.46	99.79	1555.70	
	Avg	20.47	3.19	8.17	3.72	156	56	211.82	102.43	91.32	1428.43	
Stellenbosch >22 Balling	Min	22.05	3.25	7.46	3.83	185	49	234	114.00	104.04	1307.68	
	Max	23.89	3.40	5.98	3.17	199	50	249	125.59	115.90	1397.06	
	Avg	22.91	3.28	7.34	3.33	181	56	237	121.45	107.49	1434.65	
Swartland 18-22 Balling	Min	18.41	3.18	9.27	4.87	145	74	219	88.13	75.62	1484.41	
	Max	21.85	3.24	7.42	3.14	106	30	136	110.36	102.46	1389.13	
	Avg	20.11	3.30	7.44	3.77	158	48	206	99.39	86.89	831.84	
Swartland >22 Balling	Min	22.00	3.21	8.26	3.45	133	46	179	116.56	104.52	1520.38	
	Max	24.30	3.57	6.09	3.32	248	86	334	129.77	119.35	1868.05	
	Avg	22.88	3.35	6.85	2.91	202	69	270	119.09	110.86	1586.64	
Wellington 18-22 Balling	Min	19.25	3.12	9.13	4.04	172	80	252	93.19	85.91	1560.42	
	Max	21.75	3.30	6.54	3.79	170	43	213	112.09	106.17	1401.53	
	Avg	20.32	3.29	7.33	3.63	195	57	252	100.35	91.01	1710.11	
Wellington >22 Balling	Min	22.44	3.61	5.63	4.18	204	52	256	117.63	108.79	2015.38	
	Max	22.59	3.40	5.84	3.61	187	46	233	128.03	114.26	1371.13	
	Avg	22.49	3.45	5.86	3.84	194	49	243	120.79	109.42	1493.84	

Sauvignon Blanc	Bot Rivier	Min	23.11	3.27	6.84	2.64	224	68	292	116.72	107.99	1571.12
		Max	23.32	3.21	7.10	2.51	177	60	237	122.16	108.99	1581.63
		Avg	23.24	3.36	6.16	2.59	200	56	256	119.41	110.07	1761.79
	Coastal	Min	22.10	2.99	9.99	3.67	165	85	250	106.28	97.18	1453.01
		Max	23.33	3.16	8.15	3.34	144	63	207	120.40	106.45	1483.78
		Avg	22.75	3.11	8.82	3.67	151	68	219	114.37	102.45	1455.88
	Darling	Min	22.15	3.27	7.87	4.23	197	63	260	116.34	99.51	1500.42
		Max	25.00	3.40	7.70	3.54	337	75	412	132.98	124.68	1657.22
		Avg	24.30	3.40	7.31	3.73	312	71	382	134.31	119.24	1623.09
	Durbanville	Min	22.30	3.10	8.68	3.43	124	60	184	112.79	103.93	1009.42
Max		23.63	3.23	7.11	2.39	152	51	203	121.73	115.04	1516.56	
Avg		22.81	3.23	7.47	3.13	140	50	191	115.38	107.53	1331.43	
Elgin	Min	22.43	3.04	7.93	1.79	156	63	219	108.46	104.11	1081.15	
	Max	23.41	3.11	7.41	1.90	189	72	261	121.23	105.91	1439.27	
	Avg	22.92	3.08	7.67	1.85	173	68	240	114.85	105.01	1260.21	
Franschhoek	Min	22.17	3.20	7.80	2.80	146	84	230	121.60	105.79	1378.20	
	Max	22.97	3.23	7.76	3.26	150	70	220	121.01	112.34	1590.10	
	Avg	22.62	3.26	7.44	3.26	196	78	274	116.92	107.73	1547.51	
Paarl	Min	22.51	3.21	6.57	2.29	182	69	251	114.33	103.03	1501.67	
	Max	23.58	3.21	8.60	3.73	210	77	287	124.02	111.93	1573.23	
	Avg	23.05	3.21	7.59	3.01	196	73	269	119.18	107.48	1537.45	
Stellenbosch	Min	22.07	3.12	8.42	3.59	147	49	196	114.24	102.84	1912.07	
	Max	25.24	3.25	8.61	3.41	240	73	313	138.90	117.80	1537.18	
	Avg	22.90	3.19	8.19	3.19	173	65	238	119.53	107.26	1675.50	
Walker Bay	Min	22.07	3.27	7.55	4.57	210	76	286	105.41	105.97	1511.44	
	Max	23.88	3.29	7.31	2.60	158	70	228	122.66	115.65	1750.49	
	Avg	22.86	3.22	7.46	3.17	184	74	258	115.50	109.16	1501.38	
Semillon	Elgin 18-22 Balling	Min	18.37	3.10	9.26	4.23	141	62	203	88.16	77.27	1408.17
		Max	20.69	3.14	7.27	2.66	162	67	229	92.73	94.11	1247.79
		Avg	19.53	3.12	8.27	3.45	152	65	216	90.45	85.69	1327.98
	Elgin >22 Balling	Avg	22.92	3.26	5.96	1.90	198	55	253	110.08	107.07	1593.92
	Franschhoek 18-22 Balling	Min	18.73	3.22	6.68	2.37	203	93	296	83.85	83.37	1486.63
		Max	19.72	3.34	5.71	2.07	135	47	182	117.45	89.21	494.40
Avg		18.99	3.29	6.79	2.60	151	72	223	103.13	83.50	1369.43	
Franschhoek >22 Balling	Avg	22.62	3.17	7.10	1.49	126	59	185	105.83	109.56	1737.93	
Stellenbosch 18-22 Balling	Min	18.79	3.19	7.59	3.38	167	92	259	86.58	82.38	1547.84	
	Max	19.31	3.10	10.35	4.44	200	116	316	87.02	80.66	1603.82	
	Avg	19.05	3.15	8.97	3.91	184	104	288	86.80	81.52	1575.83	
Vignier	Franschhoek 18-22 Balling	Min	18.84	3.29	7.85	3.02	268	124	392	97.51	85.84	1366.29
		Max	20.29	3.24	7.74	2.85	208	119	327	104.23	96.15	1199.44
		Avg	19.57	3.27	7.80	2.94	238	122	360	100.87	91.00	1282.87
	Franschhoek >22 Balling	Min	22.36	3.52	6.83	3.41	257	78	335	124.33	110.18	1221.50
		Max	24.73	3.50	7.70	3.81	394	129	523	123.28	118.68	1515.33
		Avg	23.09	3.33	7.56	2.90	216	79	295	123.90	114.98	1329.95
	Paarl 18-22 Balling	Min	19.06	3.32	6.99	2.85	287	105	392	87.95	88.62	1426.14
		Max	21.40	3.39	8.02	3.75	234	89	323	103.24	99.43	2097.36
Avg		20.23	3.36	7.51	3.30	261	97	358	95.60	94.03	1761.75	
Paarl >22 Balling	Min	22.80	3.38	7.31	4.09	237	81	318	108.05	113.83	1333.38	
	Max	24.96	3.44	5.78	1.87	177	47	224	143.45	130.92	1686.35	
	Avg	24.00	3.42	6.24	2.76	231	70	301	128.86	125.67	1352.58	
Stellenbosch 18-22 Balling	Min	19.91	3.33	8.16	4.04	281	104	385	95.55	90.95	1524.55	
	Max	21.85	3.20	7.01	1.18	201	92	293	100.11	103.72	1485.68	
	Avg	20.98	3.23	7.36	2.31	207	90	297	97.51	99.02	1434.87	
Stellenbosch >22 Balling	Min	22.04	3.24	7.50	3.07	172	71	243	112.18	102.43	1575.04	
	Max	22.83	3.35	7.05	3.06	182	69	251	116.73	110.42	1573.93	
	Avg	22.48	3.30	7.14	2.89	191	73	264	113.23	109.43	1491.65	

Cabernet Franc	Franschhoek	Min	22.53	3.33	6.62	2.53	117	44	161	121.60	103.18	1510.95
		Max	24.92	3.37	5.19	0.71	81	22	103	135.50	128.89	1962.94
		Avg	23.95	3.34	5.98	1.57	103	41	144	132.96	119.46	1524.27
	Paarl	Min	22.47	3.36	5.52	1.49	110	37	147	115.45	109.56	1716.09
		Max	24.26	3.59	5.20	1.81	135	42	177	132.92	118.39	2323.14
		Avg	23.77	3.42	5.51	1.39	128	44	171	122.71	117.91	1866.73
	Stellenbosch	Min	22.08	3.27	6.61	1.60	143	44	187	105.48	100.83	1544.72
		Max	24.18	3.33	6.02	1.85	105	21	126	125.41	120.15	1658.31
		Avg	22.91	3.29	6.34	1.70	110	31	140	116.69	109.57	1512.16
Cabernet Sauvignon	Paarl	Min	22.35	3.28	6.70	2.29	112	71	183	109.63	106.04	2010.36
		Max	24.01	3.40	5.99	0.99	112	81	193	124.66	109.95	1713.47
		Avg	23.48	3.39	6.11	1.60	107	65	172	120.02	109.39	2092.00
	Wellington	Min	22.48	3.56	6.14	2.48	159	94	253	104.36	103.14	2235.59
		Max	25.75	3.79	5.34	1.76	106	64	170	122.45	126.77	2585.54
		Avg	23.82	3.51	5.85	1.81	126	81	206	114.23	113.13	2341.08
Cinsault	Paarl	Min	22.03	3.54	5.39	2.52	150	70	220	125.53	107.10	1669.67
		Max	22.22	3.46	5.73	2.27	149	76	225	109.69	107.03	1998.55
		Avg	22.13	3.50	5.56	2.40	150	73	223	117.61	107.07	1834.11
	Wellington	Min	22.87	3.49	5.44	2.66	207	78	285	114.56	102.63	1932.31
		Max	22.94	3.44	6.06	2.57	192	73	265	115.05	108.40	1801.10
		Avg	22.90	3.48	5.56	2.56	209	75	284	114.17	106.74	1868.71
Grenache Noir	Stellenbosch	Min	22.18	3.30	6.28	1.25	140	63	203	133.10	107.41	1123.58
		Max	22.60	3.19	6.98	1.66	96	41	137	116.62	99.34	1788.00
		Avg	22.39	3.25	6.63	1.46	118	52	170	124.86	103.38	1455.79
	Wellington	Min	22.89	2.91	8.27	0.29	117	88	205	108.34	114.69	1578.36
		Max	24.40	3.36	5.11	1.56	153	49	202	127.78	113.84	1859.17
		Avg	23.48	3.27	5.81	0.92	157	67	224	119.87	115.72	1694.98
Malbec	Paarl	Min	22.77	3.29	6.18	2.06	108	61	169	115.69	108.51	2043.96
		Max	25.35	3.54	4.38	1.20	108	57	165	154.40	121.83	1567.68
		Avg	24.15	3.42	4.98	1.56	115	57	171	128.85	119.32	1876.67
	Stellenbosch	Min	22.19	3.30	7.02	3.01	135	90	225	105.29	100.60	1765.90
		Max	23.55	3.44	5.95	2.53	100	69	169	146.46	103.25	945.65
		Avg	23.11	3.43	6.44	2.73	123	80	203	120.31	108.26	1783.89
Merlot	Franschhoek	Min	22.18	3.55	6.56	2.75	212	86	298	120.69	103.79	2001.37
		Max	25.32	3.69	5.01	2.17	196	78	274	129.28	126.71	2114.41
		Avg	23.75	3.62	5.79	2.46	204	82	286	124.99	115.25	2057.89
	Paarl	Min	23.34	3.44	5.14	1.14	105	48	153	125.14	110.00	1595.59
		Max	26.38	3.35	5.01	0.76	65	37	102	142.62	135.11	1966.62
		Avg	24.73	3.49	5.88	1.34	118	60	178	127.55	120.40	2199.81
	Stellenbosch	Min	22.28	3.15	8.20	2.35	98	54	152	132.38	101.61	1641.83
		Max	24.76	3.42	6.77	1.92	162	36	198	124.03	118.14	2047.36
		Avg	23.08	3.36	6.85	2.13	123	47	170	123.49	109.47	1904.73
Pinotage	Franschhoek	Min	22.63	3.59	8.01	4.67	422	150	572	101.67	109.33	2393.29
		Max	25.38	3.24	7.89	2.76	264	167	431	114.03	130.46	1304.69
		Avg	23.39	3.45	6.93	3.41	323	126	449	113.02	116.05	1619.34
	Paarl	Min	22.26	3.38	7.47	4.53	280	106	386	109.60	110.76	1559.88
		Max	27.56	3.86	6.76	2.64	398	93	491	139.56	137.87	3123.80
		Avg	25.45	3.55	6.53	2.92	297	104	400	128.21	129.16	2016.84
	Swartland	Min	24.95	3.62	5.31	2.87	268	101	369	123.66	125.41	1745.75
		Max	27.14	3.70	5.58	2.99	395	124	519	147.10	142.71	2006.08
		Avg	25.98	3.65	5.44	2.68	314	104	418	136.25	134.29	1859.13
Shiraz	Paarl	Min	22.07	3.48	6.86	2.73	141	34	175	113.18	97.15	2383.28
		Max	26.50	3.79	5.27	2.07	146	16	162	152.31	134.06	2986.56
		Avg	24.75	3.50	6.44	2.34	163	37	200	132.92	119.76	2277.31
	Stellenbosch	Min	22.03	3.16	8.06	2.72	105	43	148	113.37	99.33	1767.98
		Max	23.50	3.45	4.77	1.45	152	33	185	124.67	115.20	2116.74
		Avg	22.61	3.30	6.54	2.12	122	34	156	120.39	104.05	1949.29
	Swartland	Min	22.09	3.44	7.90	3.42	191	58	249	115.93	105.66	2380.31
		Max	27.82	3.77	6.58	3.34	220	61	281	143.94	139.42	2915.75
		Avg	24.77	3.64	6.39	2.85	187	51	239	131.03	123.36	2262.97
Walker Bay	Min	22.03	3.19	9.09	3.97	120	41	161	114.62	99.60	1661.93	
	Max	24.69	3.41	5.63	2.41	135	31	166	130.36	121.30	1932.16	
	Avg	23.34	3.30	7.21	3.14	133	35	169	120.25	109.92	1769.52	

Minimum, maximum and average values per cultivar and region according to their balling values.

## Feedback on Data



### **Glucose: Fructose**

As grapes continue to ripen, a well-balanced correlation is seen with most cultivars' glucose: fructose ratios with the glucose levels being marginally higher than the fructose levels. Pinotage, being the exception, shows higher levels of fructose.

**Watch out for stuck/sluggish fermentations!**

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

***Goodluck with Harvest Season 2019!***

Regards  
The Vinlab Team

