

SUPPLEMENTARY DATA

Hunter, J. J., & Volschenk, C. G. (2024). Vine spacing of *Vitis vinifera* cv. Shiraz/101-14 Mgt II. Establishment, and vegetative and reproductive growth. *OENO One*, 58(3).
<https://doi.org/10.20870/oeno-one.2024.58.3.7828>

Supplementary data

Supplementary Table 1. Vine purchasing costs, and labour for planting, summer training, and shoot selection of the Shiraz/101-14 Mgt vineyard, planted to different vine spacing.

Vine spacing (m)	Number of vines/ha	Vine purchasing (price/ha*)	Labour for planting (day man hrs/ha**)	Labour for training of young vines*** (day man hrs/ha)	Total labour required for planting & training (day man hrs/ha)	Vine shoot (spur) selection**** (day man hrs/ha)
0.3	15152	150459.4	303.0	119.8	422.8	8.84
0.6	7576	75229.7	136.4	50.3	186.7	8.77
0.9	5051	50156.4	101.0	65.7	166.7	6.77
1.2	3788	37614.8	83.3	40.8	124.1	8.11
1.5	3030	30087.9	68.2	45.2	113.4	4.63
1.8	2525	25073.3	70.7	24.3	95.0	5.04
2.1	2165	21498.5	63.2	24.9	88.1	3.32
2.4	1894	18807.4	50.5	26.3	76.8	3.07
2.7	1684	16722.1	48.0	21.3	69.3	3.51
3.0	1515	15044.0	42.9	20.3	63.2	3.42
3.3	1377	13673.6	50.5	20.3	70.8	2.95
3.6	1263	12541.6	35.4	14.6	50.0	2.85
3.9	1166	11578.4	37.9	12.1	50.0	3.64
4.2	1082	10744.3	32.8	21.9	54.7	2.07
4.5	1010	10029.3	35.4	20.0	55.4	1.40

*@R9.93/nursery vine (2008 - equal to approximately 1 Euro/1.25 US Dollar); **Calculated @1day = 8 hrs; ***Incl. topping, trunk suckering, selection and fixing of cordon arms; ****Includes shoot removal to select spur positions, cordon extension and bunch removal to 1 bunch/shoot.

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Supplementary Table 2. Bunch and shoot mass removed during shoot (spur) selection (suckering) and mass of bunches removed during bunch removal during the season 2010/2011 on Shiraz/101-14 Mgt, planted to different vine spacing.

Vine spacing (m)	Bunch mass removed during suckering			Shoot mass removed during suckering	Bunch mass removed during bunch removal		
	g/bunch	g/vine	g/m cordon	kg/vine	g/vine	g/m cordon	kg/ha
0.3	5.03	10.41	34.70	0.12	2.36	7.87	35.76
0.6	6.10	18.11	30.18	0.18	8.33	13.88	63.11
0.9	4.86	26.68	29.64	0.16	12.11	13.46	61.17
1.2	4.70	46.59	38.83	0.37	25.14	20.95	95.23
1.5	5.31	46.80	31.20	0.31	30.05	16.69	92.42
1.8	5.80	39.90	22.17	0.29	29.08	16.16	73.43
2.1	5.65	46.28	22.04	0.39	29.41	14.00	63.67
2.4	5.20	66.81	27.84	0.30	43.51	18.13	82.41
2.7	5.31	64.87	24.03	0.40	41.29	15.29	69.53
3.0	6.39	61.10	20.37	0.38	42.17	14.06	63.89
3.3	4.86	43.87	13.29	0.31	34.25	10.38	47.16
3.6	5.59	68.59	19.05	0.30	34.89	9.69	44.07
3.9	5.35	79.54	20.39	0.54	47.06	12.07	54.87
4.2	5.07	90.70	21.60	0.38	62.36	14.85	67.47
4.5	5.10	59.45	13.21	0.29	41.70	9.27	42.12

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Supplementary Table 3. Labour for pruning (2011 – 2019) of Shiraz/101-14 Mgt, planted to different vine spacing.

Vine spacing (m)	*Pruning (day man hrs/ha)								
	2011	2012	2013	2014	2015	2016	2017	2018	2019
0.3	19.86	14.62	16.24	18.01	9.49	8.30	8,51	6,93	10,2
0.6	12.18	12.59	11.97	13.34	7.71	6.28	7,55	6,58	8,5
0.9	12.17	11.34	11.05	14.26	7.43	6.60	6,47	5,76	8,4
1.2	10.42	10.93	10.02	12.43	7.24	6.07	6,24	5,65	7,5
1.5	9.21	10.24	9.91	13.07	7.18	5.99	5,74	5,24	7,4
1.8	10.57	10.31	9.66	11.92	7.13	6.18	6,38	7,78	7,8
2.1	12.27	9.41	10.15	11.39	6.73	5.45	6,49	4,88	8,5
2.4	12.69	10.40	10.11	12.19	6.52	5.49	5,91	4,75	7,4
2.7	11.03	10.00	9.93	12.54	6.54	6.00	6,15	5,10	7,7
3.0	10.85	7.79	7.28	11.76	6.75	5.12	5,44	5,22	7,4
3.3	9.01	9.17	9.41	12.11	6.02	5.34	5,94	4,81	7,6
3.6	10.73	10.35	9.49	12.61	6.64	6.54	5,65	5,10	7,1
3.9	10.52	8.99	9.60	11.55	6.64	4.85	4,96	4,74	6,5
4.2	14.19	10.27	10.44	11.50	6.87	5.35	6,05	5,39	7,4
4.5	9.63	9.28	9.44	11.99	6.65	5.58	6,06	4,53	6,9

*Calculated @1 day man hr = 8 hrs.

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Supplementary Table 4. Labour for harvesting (2011 – 2020) of Shiraz/101-14 Mgt, planted to different vine spacing.

Vine spacing (m)	*Harvesting (day man hrs/ha)										Harvesting (man hrs/ton grapes)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
0.3	3.26	11.95	17.32	18.77	12.58	12.91	13.04	10,12	10,99	12,45	7,45	12,42	8.31	11.20	9.06	9.05	9.29	7,05	15,53	13,49
0.6	3.49	13.44	17.86	17.57	11.74	15.00	11.75	8,87	9,41	12,80	6,16	9,11	7.33	8.45	8.42	8.32	7.55	5,28	11,93	11,65
0.9	2.54	13.23	16.46	17.92	11.71	13.48	11.95	12,93	9,19	14,14	5,26	9,12	6.42	7.55	8.39	6.97	7.07	6,33	10,92	11,88
1.2	2.40	13.25	20.66	17.63	13.49	14.43	13.22	13,38	8,74	15,95	5,07	8,03	6.35	6.38	8.13	7.29	6.93	6,41	9,42	9,92
1.5	2.20	12.17	16.47	17.96	12.40	12.38	12.51	14,17	9,30	15,94	5,00	8,05	5.90	6.55	8.73	6.25	6.46	6,05	8,10	8,79
1.8	2.25	13.58	14.62	15.99	13.18	15.46	11.17	12,66	9,53	15,01	5,44	7,76	4.26	5.34	8.66	7.11	6.54	5,85	11,70	9,20
2.1	2.29	13.36	19.33	17.35	10.72	12.86	13.61	11,63	8,98	14,20	5,71	6,94	5.62	6.17	8.18	6.01	7.30	5,68	11,09	8,85
2.4	1.80	12.53	16.27	13.25	12.37	12.81	12.42	12,45	9,32	15,59	5,27	6,77	4.66	4.92	8.18	5.85	6.45	5,86	10,00	7,90
2.7	2.17	13.06	17.99	12.65	13.32	14.36	12.00	15,33	11,00	13,99	5,58	5,94	5.80	4.81	8.54	6.36	6.38	6,13	9,57	7,69
3.0	2.15	11.10	15.19	16.32	13.31	13.66	10.77	11,43	8,06	15,00	5,71	6,99	5.94	5.88	8.51	6.21	5.42	5,01	8,28	8,41
3.3	1.30	12.82	17.38	15.33	10.75	12.93	10.49	13,45	8,82	14,79	5,59	5,96	5.16	5.02	7.41	5.49	5.39	5,35	10,12	7,41
3.6	1.51	11.45	14.39	14.05	12.46	12.48	11.39	14,79	7,37	14,09	6,43	6,89	5.10	5.50	8.45	5.93	5.73	6,22	9,78	8,93
3.9	1.47	12.84	15.00	16.68	11.33	13.16	10.33	15,65	9,63	16,92	4,80	5,58	5.34	5.74	8.21	5.71	5.47	5,95	8,88	7,36
4.2	1.42	13.60	16.21	17.70	11.12	13.32	11.33	15,39	10,41	19,01	4,96	5,76	4.73	5.03	8.71	5.65	5.05	5,70	9,73	7,44
4.5	1.18	13.50	14.26	15.36	11.18	11.91	10.05	15,09	8,87	16,12	4,89	6,55	5.15	5.35	8.73	5.37	5.14	5,13	8,23	7,16

*Calculated @1 day man hr = 8 hrs.