

Yield data of Chardonnay grafted to four rootstocks and own-rooted growing at the Western Colorado Research Center at Orchard Mesa (2000-2006). Vines were pruned in late March or April each year.

Rootstock	Age	Harvest date	Yield (kg/vine)	Bunch weight (g)	Pruning weight (g/vine)
2000					
Couderc 3309	9	21 Sept.	2.04	n/a	n/a
101-14	9	21 Sept.	2.50	n/a	n/a
420 A	9	21 Sept.	2.76	n/a	n/a
Teleki 5C	9	21 Sept.	5.68	n/a	n/a
Own roots	10	21 Sept.	2.40	n/a	n/a
2001					
Couderc 3309	10	24 Sept.	0.32	66.4	183
101-14	10	24 Sept.	1.17	69.6	202
420 A	10	24 Sept.	2.06	77.8	193
Teleki 5C	10	24 Sept.	2.62	80.0	229
Own roots	11	24 Sept.	4.21	69.2	226
2002					
Couderc 3309	11	9 Sept.	0.28	76.9	219
101-14	11	9 Sept.	0.13	81.3	182
420 A	11	9 Sept.	0.42	80.6	198
Teleki 5C	11	9 Sept.	0.80	98.4	180
Own roots	12	9 Sept.	0.08	79.2	114
2003					
Couderc 3309	12	15 Sept.	1.31	108.7	352
101-14	12	15 Sept.	1.88	100.1	401
420 A	12	15 Sept.	3.85	130.5	307
Teleki 5C	12	15 Sept.	4.42	124.4	375
Own roots	13	15 Sept.	1.47	92.3	205
2004					
Couderc 3309	13	14 Sept.	0.68	95.2	428
101-14	13	14 Sept.	1.02	96.1	421
420 A	13	14 Sept.	0.87	109.6	363
Teleki 5C	13	14 Sept.	1.88	120.9	492
Own roots	14	14 Sept.	1.06	113.6	n/a
2005					
Couderc 3309	14	13 Sept.	0.94	101.1	406
101-14	14	13 Sept.	0.94	98.0	449
420 A	14	13 Sept.	1.29	115.6	325
Teleki 5C	14	13 Sept.	1.89	138.9	423
Own roots	15	13 Sept.	0.98	75.5	207
2006					
Couderc 3309	15	17 Oct	2.22	68.6	
101-14	15	14 Oct	2.11	69.0	
420 A	15	14 Oct	3.56	101.5	
Teleki 5C	15	15 Oct	6.30	135.8	
Own roots	16	12 Oct	1.42	69.8	

Juice composition at harvest of Chardonnay grafted to four rootstocks and own-rooted growing at the Western Colorado Research Center at Orchard Mesa (2000-2005).

Rootstock	Berry weight (g)	Soluble solids (°Brix)	Titrateable acids (g L ⁻¹)	pH
2000				
Couderc 3309	1.14	23.5	7.86	3.66
101-14	1.05	24.3	7.57	3.71
420 A	1.07	24.7	7.12	3.80
Teleki 5C	1.09	23.6	6.64	3.72
Own roots	1.09	25.4	6.07	3.85
2001				
Couderc 3309	0.91	28.2	8.68	3.56
101-14	0.97	28.4	7.92	3.65
420 A	0.93	31.2	6.72	3.70
Teleki 5C	0.98	30.5	6.56	3.72
Own roots	1.04	25.6	6.75	3.50
2002				
Couderc 3309	0.99	24.2	7.63	3.36
101-14	1.02	23.1	8.85	3.35
420 A	1.02	24.9	7.91	3.35
Teleki 5C	1.06	25.3	6.38	3.42
Own roots	0.96	25.1	6.58	3.47
2003				
Couderc 3309	1.11	23.9	9.26	3.34
101-14	1.19	23.6	8.33	3.44
420 A	1.20	22.8	7.73	3.37
Teleki 5C	1.22	23.4	7.76	3.39
Own roots	1.17	22.7	7.40	3.41
2004				
Couderc 3309	1.17	24.8	8.85	3.48
101-14	1.50	25.4	7.59	3.60
420 A	1.15	25.6	7.73	3.56
Teleki 5C	1.23	25.4	7.41	3.55
Own roots	1.22	23.6	7.51	3.58
2005				
Couderc 3309	1.20	23.9	8.92	3.55
101-14	1.21	24.0	8.73	3.56
420 A	1.21	24.2	8.09	3.59
Teleki 5C	1.25	24.1	8.33	3.59
Own roots	1.17	24.0	7.51	3.63

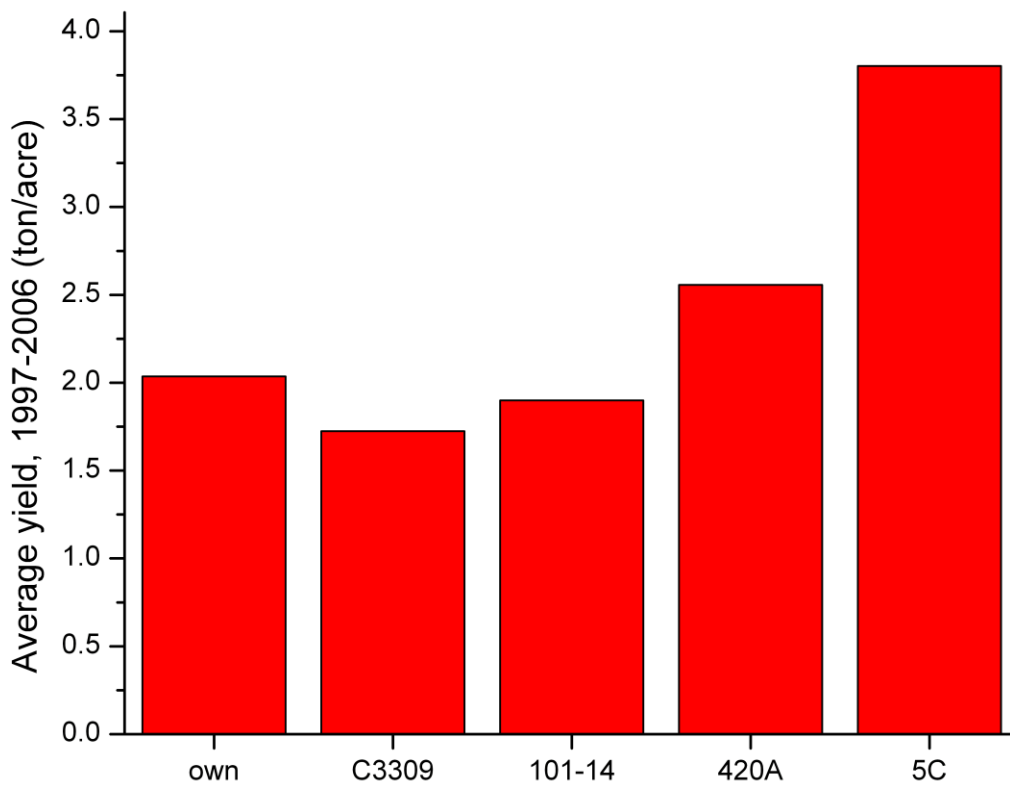


Fig. 1: Effect of rootstock on long-term average yield of Chardonnay grapevines growing at Colorado State University's Western Colorado Research Center, Grand Junction, CO.