

Table S3. Comparison of growth indicators among 31 grapevine rootstocks across three growing seasons (2016–2018) (the adult vine).

Rootstock	Trunk diameter (mm)	Cane diameter (mm)	Total cane length (cm)	Total shoot length (cm)	Lignified proportion (%)	Internode length (cm)	Pruning weight (g)
101-14 M	25.46 ± 5.26 b-g	10.68 ± 1.67 a-e	1182.5 ± 825.1 b-h	1408.7 ± 885.6 b-h	78.9 ± 14.0 hjk	8.22 ± 1.16 jkl	689.2 ± 461.5 d-i
1103 P	23.31 ± 4.64 f-i	8.41 ± 1.56 mn	1861.1 ± 988.6 a	1977.4 ± 1002.9 a	93.2 ± 5.7 a-d	10.96 ± 1.58 b-e	852.1 ± 388.8 bcd
110R	23.83 ± 4.79 e-i	9.93 ± 1.39 d-j	1414.5 ± 673.0 a-e	1635.2 ± 732.2 bcd	86.6 ± 7.3 c-h	10.29 ± 1.07 d-g	912.0 ± 425.7 abc
1202 C	21.98 ± 4.11 hij	9.26 ± 1.65 i-l	1037.6 ± 336.9 c-h	1301.6 ± 377.1 d-i	79.3 ± 9.9 h-k	7.02 ± 1.59 n	618.7 ± 196.6 e-k
140R	27.32 ± 4.26 a-e	9.74 ± 1.17 e-k	1524.3 ± 615.4 abc	1710.5 ± 636.0 ab	87.3 ± 8.2 b-g	9.81 ± 1.54 gh	763.8 ± 347.8 c-h
1613 C	25.74 ± 5.18 b-g	9.99 ± 0.74 d-i	706.9 ± 301.1 h	1146.6 ± 180.4 hij	64.0 ± 19.3 l	7.13 ± 0.95 n	496.0 ± 144.0 i-m
188-08	25.42 ± 6.17 b-g	9.38 ± 1.53 g-l	1292.6 ± 442.1 b-g	1418.2 ± 497.4 b-h	91.8 ± 5.1 a-d	8.61 ± 0.83 ij	573.8 ± 240.6 g-l
225 Ru	27.05 ± 4.41 b-e	9.86 ± 1.07 d-k	1511.4 ± 422.6 a-d	1761.4 ± 466.3 ab	86.5 ± 5.3 c-i	11.19 ± 1.45 a-d	1066.7 ± 352.6 a
3309 C	20.63 ± 3.30 ijk	8.67 ± 0.76 lmn	992.6 ± 598.2 e-h	1158.5 ± 658.0 g-j	83.8 ± 9.6 e-i	7.29 ± 1.12 mn	420.2 ± 222.6 klm
420A	26.94 ± 7.83 b-e	10.36 ± 1.58 b-f	1221.4 ± 621.9 b-g	1334.4 ± 669.1 c-i	91.9 ± 7.5 a-d	9.23 ± 1.16 hi	794.0 ± 371.0 b-f
5A	23.95 ± 4.11 e-h	10.53 ± 1.73 a-e	1169.4 ± 634.5 b-h	1304.8 ± 654.2 d-i	88.0 ± 14.6 b-g	10.49 ± 1.33 c-g	782.1 ± 406.7 c-g
5BB	26.74 ± 4.92 b-f	10.93 ± 1.25 ab	1479.5 ± 464.0 a-e	1710.9 ± 535.0 ab	87.3 ± 6.6 b-g	12.01 ± 1.10 a	998.8 ± 371.5 ab
5C	24.12 ± 4.55 d-h	9.61 ± 1.37 f-k	1434.7 ± 423.3 a-e	1589.2 ± 450.8 b-f	89.8 ± 8.2 a-f	10.75 ± 1.97 c-f	734.8 ± 340.7 c-h
8B	22.97 ± 3.71 g-j	9.10 ± 1.16 j-m	1448.2 ± 503.0 a-e	1587.2 ± 535.8 b-f	91.6 ± 4.4 a-d	11.31 ± 1.50 abc	785.4 ± 300.0 c-g
B.R.No.2	24.70 ± 4.62 c-h	9.29 ± 1.01 h-l	1456.8 ± 718.2 a-e	1542.4 ± 727.8 b-f	92.8 ± 7.9 a-d	10.88 ± 1.70 b-f	917.1 ± 458.0 abc
Barret 50	23.36 ± 3.40 f-i	9.88 ± 1.40 d-k	1190.1 ± 510.0 b-g	1286.8 ± 596.0 d-i	93.7 ± 6.1 abc	10.85 ± 1.40 b-f	685.0 ± 372.3 d-i
Beaumont	27.79 ± 6.47 abc	10.25 ± 1.74 b-f	1286.9 ± 640.5 b-g	1519.7 ± 708.6 b-g	83.3 ± 11.8 f-j	8.54 ± 1.34 ijk	792.0 ± 494.8 b-f
Beta	27.57 ± 3.88 a-d	11.27 ± 1.43 a	1227.5 ± 558.6 b-g	1303.9 ± 598.4 d-i	94.7 ± 5.0 ab	9.38 ± 1.72 hi	842.2 ± 396.2 bcd
Dogridge	26.47 ± 3.65 b-g	10.51 ± 1.43 a-e	1136.6 ± 372.8 b-h	1262.5 ± 470.1 e-i	92.1 ± 7.0 a-d	7.68 ± 1.19 k-n	852.5 ± 358.0 bcd
Fercal	28.78 ± 7.87 ab	10.85 ± 2.18 abc	1083.3 ± 558.7 b-h	1248.2 ± 643.2 e-i	86.6 ± 8.1 c-h	8.78 ± 1.61 ij	639.2 ± 458.6 d-j
Ganzin 1	19.94 ± 6.00 jk	8.65 ± 1.19 lmn	1003.7 ± 348.3 e-h	1296.8 ± 418.8 d-i	75.3 ± 6.5 k	6.88 ± 1.29 n	433.6 ± 209.7 j-m
Glorie	23.41 ± 5.53 f-i	8.66 ± 1.20 lmn	876.9 ± 429.2 fgh	1138.8 ± 482.6 hij	76.0 ± 10.4 jk	8.06 ± 1.65 j-m	334.8 ± 175.7 m

Rupest dulot	19.91 ± 3.68 jk	9.05 ± 0.87 klm	1543.5 ± 568.6 ab	1672.8 ± 600.7 abc	91.9 ± 5.0 a-d	10.07 ± 1.79 e-h	769.3 ± 327.4 c-h
Saltcreek	18.02 ± 3.42 k	10.59 ± 1.60 a-e	812.9 ± 368.9 gh	847.7 ± 408.6 j	96.1 ± 5.5 a	8.80 ± 1.11 ij	617.5 ± 353.5 e-k
Shadi	30.36 ± 10.34 a	10.21 ± 2.20 b-g	852.8 ± 528.8 gh	1224.2 ± 568.3 f-i	64.6 ± 15.8 l	7.52 ± 2.14 lmn	608.4 ± 408.0 f-k
Shanhe 1	25.59 ± 5.96 b-g	7.59 ± 0.92 o	1373.3 ± 715.6 a-f	1489.0 ± 755.1 b-h	91.3 ± 8.6 a-e	10.54 ± 1.51 c-g	621.1 ± 328.7 e-k
Shanhe 2	26.21 ± 4.91 b-g	10.02 ± 1.21 c-i	1016.3 ± 505.1 d-h	1167.6 ± 504.7 g-j	85.7 ± 9.3 d-i	8.81 ± 1.66 ij	573.6 ± 230.5 g-l
Shanhe 3	26.73 ± 4.27 b-f	8.00 ± 1.09 no	1231.5 ± 523.7 b-g	1329.7 ± 556.4 c-i	92.7 ± 8.2 a-d	10.73 ± 2.23 c-f	567.0 ± 243.4 h-l
Shanhe 4	26.78 ± 8.03 b-f	8.76 ± 1.09 lmn	831.3 ± 303.0 gh	1029.8 ± 334.5 ij	80.6 ± 7.9 g-k	7.39 ± 1.83 lmn	396.2 ± 155.8 lm
SO4	24.46 ± 4.91 c-h	9.91 ± 1.26 d-j	1407.9 ± 583.7 a-e	1593.5 ± 644.9 b-e	87.8 ± 7.8 b-g	9.98 ± 0.99 fgh	927.8 ± 391.4 abc
Wumao	24.28 ± 3.03 c-h	10.12 ± 2.05 b-h	1303.0 ± 454.1 b-g	1436.4 ± 508.5 b-h	90.4 ± 7.9 a-f	11.68 ± 1.91 ab	826.0 ± 317.4 b-e
Season							
2016	22.84 ± 4.47 c	9.98 ± 1.55 a	1601.6 ± 636.0 a	1798.1 ± 655.0 a	88.3 ± 8.9 a	9.69 ± 2.11 a	899.8 ± 392.1 a
2017	25.06 ± 5.70 b	9.99 ± 1.80 a	1050.8 ± 484.6 b	1221.4 ± 550.9 b	86.0 ± 9.7 b	8.87 ± 2.00 b	639.9 ± 350.5 b
2018	27.04 ± 6.23 a	9.04 ± 1.43 b	1063.1 ± 469.3 b	1219.0 ± 490.2 b	86.4 ± 13.1 b	9.66 ± 2.13 a	605.4 ± 344.1 b
Factor (dF)							
Rootstock (30)	7.1***	15.0***	6.5***	4.9***	22.0***	33.8***	9.8***
Season (2)	39.1***	50.9***	100.2***	82.1***	4.6*	22.1***	55.4***
Rootstock × Season	1.5**	3.6***	2.8***	2.4***	7.9***	3.5***	2.4***

Note: Different lowercase letters within each column for each section represent significant differences at $P < 0.05$ by Tukey's test. Asterisks followed following the F value indicate significant differences within the corresponding factor: *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$.