

ROOTSTOCK	PARENTAGE	VIGOR	PHYLOXERA RESISTANCE	NEMATODE (ROOT-KNOT) RESISTANCE	DROUGHT RESISTANCE	ADAPTATION TO WET CLAY SOIL	BEST SOIL TYPE	ADVANTAGES	DISADVANTAGES
Riparia Gloire / Gloire de Montpellier	V. riparia	Low	Yes	Poor	Low	High	Deep/Fertile	Prefers deep fertile soils. Can do well in high density plantings.	Doesn't do well in sandy soils or arid sites.
1616 Courderc	V. solonis x V. riparia	Low	Yes	Moderate	Low	High	Deep/Fertile	Resists lime up to 11%.	Fairly weak variety, best grown in humid soils.
Saint George / Rupestris du Lot	V. rupestris	High	Yes	Poor	Moderate	Moderate	Deep, Uniform Loam	Prefers deep soils and is considered a high vigor rootstock.	Not good for shallow soils or areas known to have nematodes.
3309 Courderc	V. riparia x V. rupestris	Moderate	Yes	Susceptible	Low	High	Deep Well Drained	Does best in deep fertile soils, good for high density planting.	Very low tolerance of nematodes, sensitive to drought.
101-14 Millardet Et De Grasset	V. riparia x V. rupestris	Low / Moderate	Yes	Susceptible	Low/Moderate	High	Heavy Clay	Best rootstock for heavy clay soils.	Needs irrigation in dry areas.
Schwarzmann	V. riparia x V. rupestris	Low / Moderate	Yes	Moderate	Low/Moderate	High	Deep/Fertile	Does well in deep, fresh, fertile soils.	Not drought tolerant. Not much resistance to fan leaf.
44-53 Malegue	V. riparia x (V.cordifolia x V. rupestris)	Moderate	Yes	Unknown	Moderate	High	Loam/Good Fertility	Can do well in high magnesium soils.	Low tolerance of lime, can suffer from magnesium deficiency.
5C Teleki	V. berlandieri x V. riparia	High	Yes	Moderate	Low	High	Clay	Early ripening, does well in clay soils. Phylloxera resistant, nematode resistant.	Not drought tolerant.
Oppenheim #4 / S04	V. berlandieri x V. riparia	Moderate	Yes	Moderate	Low	High	Clay	Good resistance to phylloxera and nematodes, tolerates lime soils.	Not drought tolerant.
5BB Kober	V. berlandieri x V. riparia	High	Yes	Good	Low	Moderate	Clay Loam	Does well in clay soils, broad nematode resistance.	Vulnerable to phytophthora, not for arid plantings.
420A Millardet Et De Grasset	V. berlandieri x V. riparia	Low	Yes	Moderate	Low	Moderate	Deep/Fertile	Low vigor excellent for close spacing.	Difficult to root, needs sufficient water.
161-49 Courderc	V. riparia x V. berlandieri	Low	Yes	Susceptible	Low	Moderate	Loam, Lime	Can do well in high density plantings	Very low tolerance of nematodes, sensitive to drought.
110 Richter	V. berlandieri x V. rupestris	High	Yes	Susceptible	High	Moderate	Moderate Fertility	Recommended for hillside or dry farmed areas.	Not recommended for deep fertile soils, can show potassium deficiency on heavy soils.
1103 Paulsen	V. berlandieri x V. rupestris	High	Yes	Susceptible	High	High	Loam, Lime	Drought tolerant, hillside sites work well.	Susceptible to rootknot and dagger nematodes.
140 Ruggeri	V. berlandieri x V. rupestris	Very High	Yes	Susceptible	High	Moderate	Shallow Drought Prone	Very vigorous, recommended for hillside or shallow drought prone soils. Tolerant of relatively high active lime.	Not recommended for deep fertile soil. Moderate resistance to rootknot nematode reported.
Freedom	1613C x V. champinii	High	Questionable	High	Moderate/High	Low	Sandy Low Fertility	Excellent nematode resistance. Does best in coarse textured soils with low fertility.	Not recommended for fertile soils.
VR 039-16	V. vinifera x V. rotundifolia	High	Questionable	Susceptible	Low	Moderate	Moderate Vigor Sites with Sandy to Loamy Soils	Highly recommended for vineyard sites infested with grape fan leaf virus	Susceptible to Root-Knot Nematodes. Drought sensitive. Use only in fan-leaf zones as last resort.

THE ABOVE DATA IS MEANT TO BE USED AS AN INITIAL INFORMATION SOURCE ONLY. LOCAL CONDITIONS VARY GREATLY, AN EXPERT KNOWLEDGEABLE IN THE CONDITIONS OF YOUR AREA SHOULD BE CONSULTED. SOURCES FOR THE COMPILED INFORMATION ARE AVAILABLE UPON REQUEST 12/02