



Target Values - Soil

Nutrient	Parts per Million (ppm)	Pounds per Acre (lb/a)
Phosphorus (P)	20 - 50	40 - 100
Potassium (K)	75 - 100	150 - 200
Calcium (Ca)	500 - 2000	1000 - 4000
Magnesium (Mg)	100 - 250	200 - 500
Boron (B)	0.3 - 2.0	0.6 - 4.0
Copper (Cu)	0.5	1
Iron (Fe)	20	40
Manganese (Mn)	20	40
Zinc (Zn)	2	4
Sodium (Na)	<690	<395
Aluminum (Al)*	<100	<200

* Aluminum should not be an issue unless the soil pH is less than 5.3

** Organic Matter (OM) is ideally between 3-5%

Sources: Wolf, T.K. (Ed.). 2008. Wine Grape Production Guide for Eastern North America. Natural Resource, Agriculture, and Engineering Service (NRAES), Ithaca, NY.

Peacock, William L., and L. Peter Christensen. 2000. Chapter 15: Interpretation of Soil and Water Analysis. In L. Peter Christensen (Ed.). Raisin Production Manual. UC Davis. CA