

Table 15.5

GRAPE FERTILIZATION

Element needed	Fertilizer	Amount per vine	When to apply	Comments
nitrogen	ammonium sulfate	½ lb (227 g)	Berry set stage or following bloom.	Berry set occurs when berries reach ¼ inch (6.5 mm) diameter.
	ammonium nitrate	⅔ lb (170 g)		
	urea	¼ lb (113 g)		
	mixed fertilizers	follow label		
	poultry or rabbit manure	5–10 lb (2.3–4.5 kg)	Jan or Feb	
	steer or cow manure	5–20 lb (6.8–9 kg)	Jan. or Feb	Poultry manure may cause zinc deficiency in light, sandy soils.
zinc	basic or neutral zinc sulfate (52% Zn)	0.1 lb/gal (11.9 g/l)	Apply 2 weeks prior to bloom or at full bloom sprayed on foliage.	Apply before bloom to reduce “shot” berries.
potassium (applied in a deficiency situation)	potassium sulfate (44% K)	severe def.:	When deficient, apply to soil 6 inches (15 cm) deep, 18 inches (46 cm) from trunk. Concentrate at vine.	Irrigate after application.
		5–6 lb/vine (2.3–2.7 kg/vine)		
		moderate def.:		
		4 lb/vine (1.8 kg/vine)		
		mild def.:3 lb/vine (1.4 kg/vine)		