

Muscadine - Home Garden (Code #103)

Soil Test Rating	Potassium			
	Low K Coast: 0-70 lbs/A Pied: 0-120 lbs/A	Medium K Coast: 71-170 lbs/A Pied: 121-250 lbs/A	High K Coast: 171-275 lbs/A Pied: 251-400 lbs/A	Very High K Coast: 275+ lbs/A Pied: 400+ lbs/A
Phosphorus	<i>See Comments</i>			
Low P Coast: 0-30 lbs/A Pied: 0-20 lbs/A	217	217	217	217
Medium P Coast: 31-60 lbs/A Pied: 21-40 lbs/A	217	217	217	217
High P Coast: 61-100 lbs/A Pied: 41-75 lbs/A	217	217	217	217
Very High P Coast: 100+ lbs/A Pied: 75+ lbs/A	217	217	217	217

Coast = Coastal Plain Pied = Piedmont, Mountain, and Limestone Valley

Recommendations:

Recommended pH:	5.5 to 6.0. If the pH is less than 5.5, see Lime Table C and the soil depth adjustment table that immediately follows the lime tables.								
Magnesium:	<p>If soil test Mg level is low and lime is recommended, use dolomitic limestone; if soil test Mg is low and lime is not recommended, apply 3 ounces magnesium sulfate (Epsom salts) per plant for one and two-year old vines, and 5 ounces per plant for other vines.</p> <table border="1" style="margin-left: 40px;"> <tr> <td>Coastal Plain</td> <td>Low: 0 - 60 lbs/acre</td> <td>Medium: 61 - 120 lbs/acre</td> <td>High: >120 lbs/acre</td> </tr> <tr> <td>Piedmont</td> <td>Low: 0 - 120 lbs/acre</td> <td>Medium: 121 - 240 lbs/acre</td> <td>High: >240 lbs/acre</td> </tr> </table>	Coastal Plain	Low: 0 - 60 lbs/acre	Medium: 61 - 120 lbs/acre	High: >120 lbs/acre	Piedmont	Low: 0 - 120 lbs/acre	Medium: 121 - 240 lbs/acre	High: >240 lbs/acre
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Comments:

217. First year - Apply fertilizer three times: (1) 1/2 pound of 10-10-10 or equivalent after the plants have been settled by rain, (2) 1/8 pound of 34-0-0 or 1/10 pound of 46-0-0 in late May, and (3) 1/8 pound of 34-0-0 or 1/10 pound of 46-0-0 in early July. Broadcast each application over a two-foot circle with the vine in the center.

Second year - Timing and method are the same as the first year. Double the rate for each application. Increase the diameter of the broadcast circle to four feet.

Third year - If the vine has grown well the first two years and you expect a crop, apply two pounds of 10-10-10 or equivalent per vine in March. Apply one pound of 10-10-10 per vine in May. Broadcast in a six-foot circle if plants have not done well, fertilize as instructed for the second year.

Established vines - Apply three to five pounds of 10-10-10 or equivalent per plant in March of each year. If soil test phosphorus (P) is high or very high and potassium (K) is low or medium, substitute 15-0-15 at 2 to 4 pounds per plant. If both soil test P and K are high or very high, apply 1 to 1½ pounds of 34-0-0 or 3/4 to 1 pound of 46-0-0 per plant in March. Then apply 1/2 pound of 34-0-0 or 1/3 pound of 46-0-0 around June 1.

Check the soil pH about every three years.

Special fertilization - Grapes have a relatively high requirement for magnesium. A shortage of magnesium shows up as yellowing between the veins of older leaves, and progresses up the shoots as the leaves grow older. Premature fruit fall may also result. This should also appear as low magnesium in the soil test results.

To prevent or correct magnesium deficiency, apply Epsom salts at the rate of two to four ounces for one- and two-year-old vines; four to six ounces for older vines. Be sure to evenly broadcast Epsom salts over a three to six foot area.

Note: A pint of 10-10-10 fertilizer weighs approximately 1 pound; 3/4 pint of limestone weighs approximately 1 pound.