

Watermelon (Code #163)

Soil Test Rating	Potassium			
	Low K	Medium K	High K	Very High K
	Coast: 0-70 lbs/A Pied: 0-120 lbs/A	Coast: 71-170 lbs/A Pied: 121-250 lbs/A	Coast: 171-275 lbs/A Pied: 251-400 lbs/A	Coast: 275+ lbs/A Pied: 400+ lbs/A
Phosphorus	<i>Recommended Pounds N-P₂O₅-K₂O per Acre</i>			
Low P Coast: 0-30 lbs/A Pied: 0-20 lbs/A	*-120-120	*-120-90	*-120-60	*-120-45
Medium P Coast: 31-60 lbs/A Pied: 21-40 lbs/A	*-80-120	*-80-90	*-80-60	*-80-45
High P Coast: 61-100 lbs/A Pied: 41-75 lbs/A	*-40-120	*-40-90	*-40-60	*-40-45
Very High P Coast: 100+ lbs/A Pied: 75+ lbs/A	*-0-120	*-0-90	*-0-60	*-0-45

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

Recommendations:

Recommended pH:	6.0 to 6.5. If the pH is less than 6.0, see Lime Table B.								
Nitrogen:	Coastal Plain 100-150 pounds nitrogen (N) per acre. Piedmont, Mountain, Limestone Valley 80-120 pounds nitrogen (N) per acre.								
Magnesium:	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 25 pounds of Mg/Acre. <table border="1" style="margin-left: auto; margin-right: auto;"> <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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Piedmont	Low: 0 - 120 lbs/acre	Medium: 121 - 240 lbs/acre	High: >240 lbs/acre						
Zinc:	If the Zn soil test level is low, apply 5 pounds of zinc per acre.								
Sulfur:	Apply 10 pounds of sulfur (S) per acre.								
Boron:	Apply 1 pound of boron (B) per acre.								

Watermelon (Code #163) continued

Fact Sheet:

Apply only 60 pounds nitrogen per acre if early yields are an important consideration.

Nitrogen (N) rates will vary depending on rainfall, soil type, irrigation, plant population and method and timing of applications.

For early growth stimulation apply a pop-up fertilizer using 100 to 150 pounds of 10-34-0 or similar material per acre. Apply the fertilizer 2 to 3 inches below the seeds or roots.

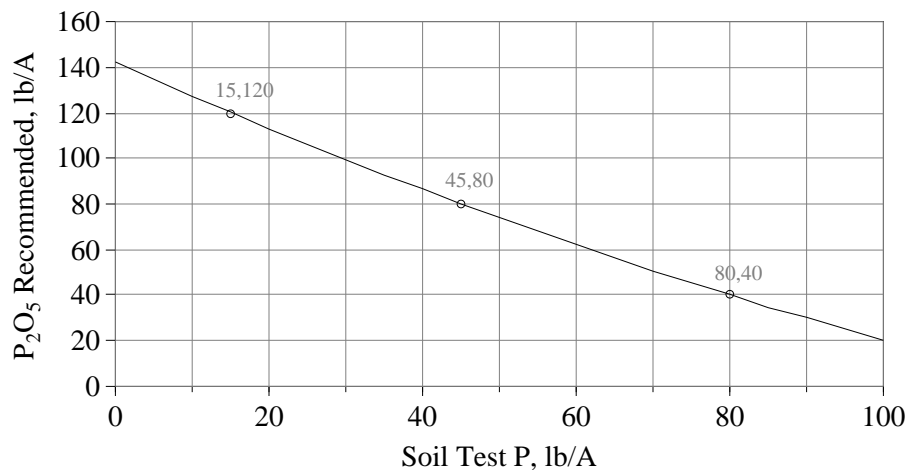
Sulfate of potash magnesia may be used to supply a portion of the recommended potash (K_2O) and to also supply magnesium (Mg) and sulfur (S).

For more efficient use of fertilizer split the applications, apply one-third to one-half down (banded or incorporated in the bed) and the remainder in 1 to 3 applications. If the fertilizer is broadcast, increase the application rates of phosphate (P_2O_5) and potash (K_2O) $1\frac{1}{2}$ to 2 times.

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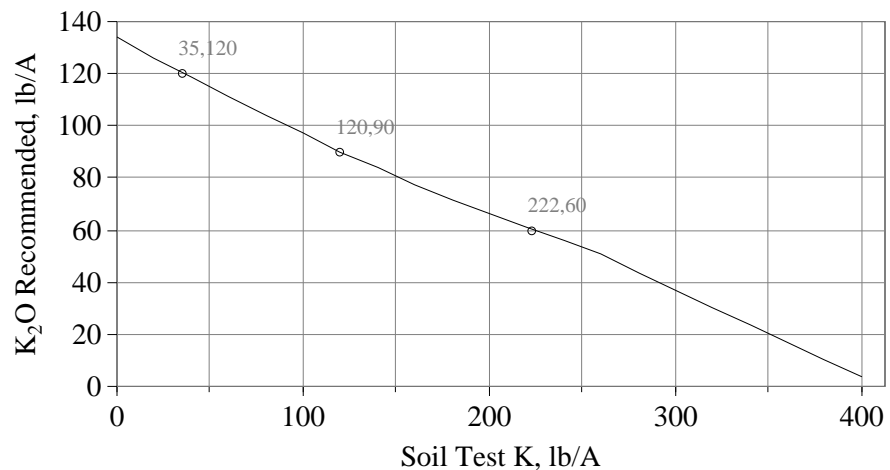
P Recommendations, Coastal Plain

$$P_2O_5 = 142 - 1.509P + 0.00293P^2$$



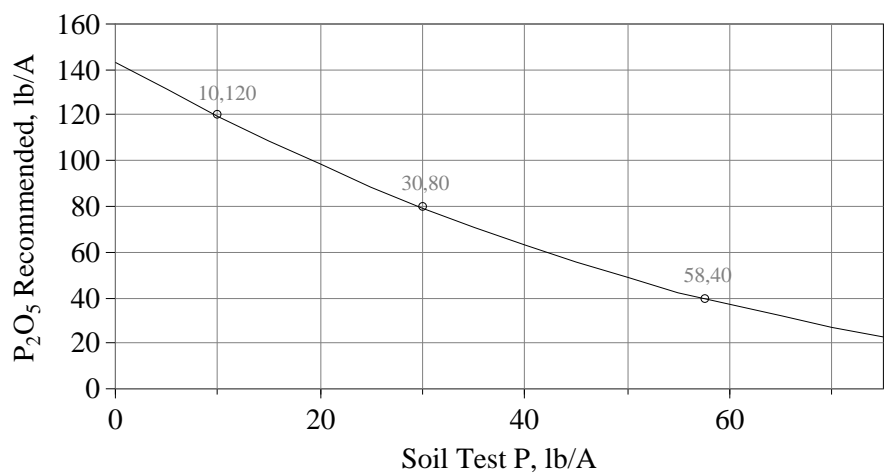
K Recommendations, Coastal Plain

$$\begin{aligned} \text{if } (K < 275) \text{ K}_2\text{O} &= 134 - 0.403K + 0.00032K^2 \\ \text{if } (K \geq 275) \text{ K}_2\text{O} &= 136 - 0.33K \end{aligned}$$



P Recommendations, Piedmont

$$P_2O_5 = 143 - 2.459P + 0.01148P^2$$



K Recommendations, Piedmont

$$\begin{aligned} \text{if } (K < 400) \text{ K}_2\text{O} &= 136 - 0.265K + 0.00010K^2 \\ \text{if } (K \geq 400) \text{ K}_2\text{O} &= 138 - 0.23K \end{aligned}$$

