

Beets (Code #144)

| 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 | *-180-180 | *-180-120 | *-180-60 | *-180-0 |
| Medium P Coast: 31-60 lbs/A Pied: 21-40 lbs/A | *-120-180 | *-120-120 | *-120-60 | *-120-0 |
| High P Coast: 61-100 lbs/A Pied: 41-75 lbs/A | *-60-180 | *-60-120 | *-60-60 | *-60-0 |
| Very High P Coast: 100+ lbs/A Pied: 75+ lbs/A | *-30-180 | *-30-120 | *-30-60 | *-30-0 |

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 100-130 pounds nitrogen (N) per acre. Piedmont, Mountain, Limestone Valley 90-110 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 |
| 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 | | | | | | |
| 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. | | | | | | | | |

Fact Sheet:

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 to the side of the seeds or plants and 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).

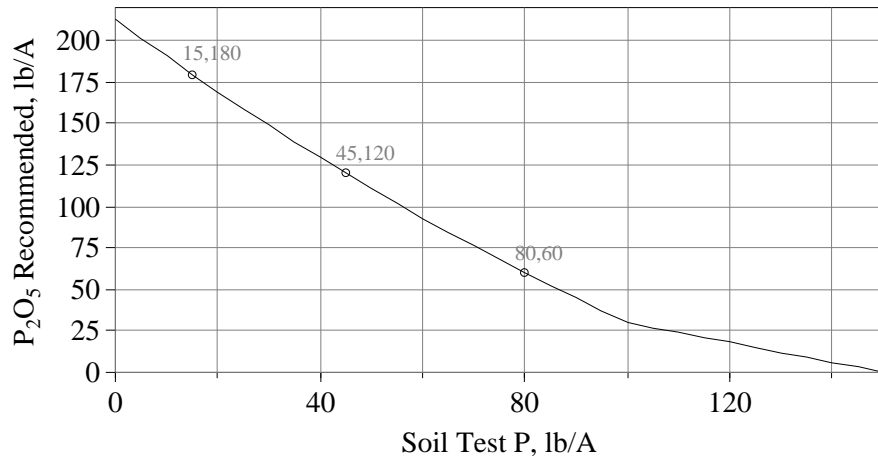
For more efficient use of fertilizer split the applications, applying one-third to one-half down (banded or incorporated in the bed) and the remainder in 1 to 3 applications. If the fertilizer is broadcast, increase the application rates of phosphate (P_2O_5) and potash (K_2O) 1½ to 2 times.

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V - 3B

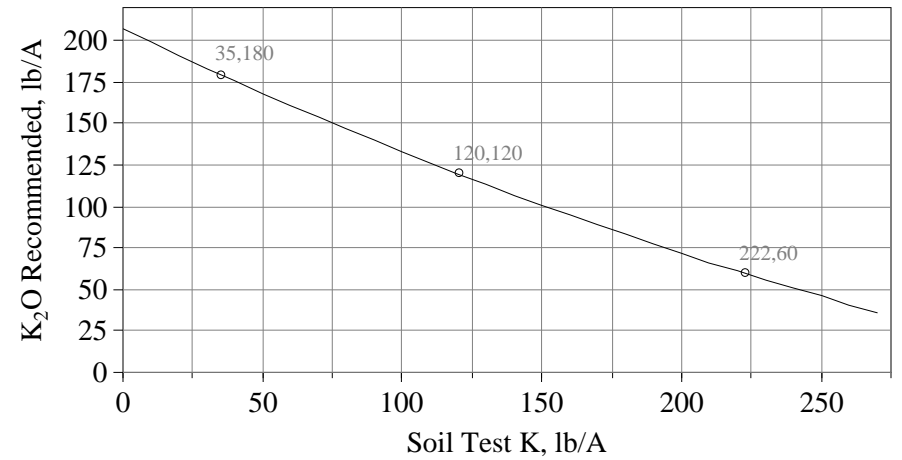
P Recommendations, Coastal Plain

if (P < 100) $P_2O_5 = 213 - 2.264P + 0.00440P^2$
 if (P ≥ 100) $P_2O_5 = 90 - 0.60P$



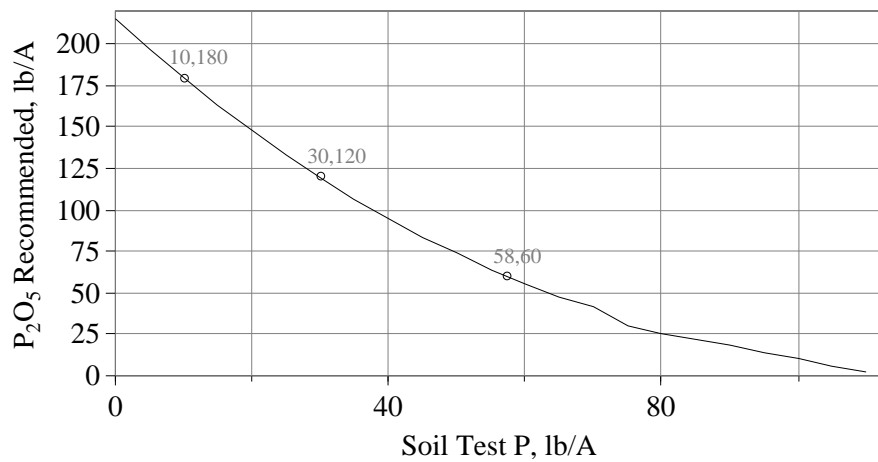
K Recommendations, Coastal Plain

$K_2O = 207 - 0.805K + 0.00064K^2$



P Recommendations, Piedmont

if (P < 75) $P_2O_5 = 215 - 3.689P + 0.01722P^2$
 if (P ≥ 75) $P_2O_5 = 90 - 0.80P$



K Recommendations, Piedmont

$K_2O = 211 - 0.527K + 0.00019K^2$

