

Corn (for Grain) Dryland (Code #001)

Soil Test Rating	Potassium			
	Low K	Medium K	High K	Very High K
	Coast: 0-60 lbs/A Pied: 0-100 lbs/A	Coast: 61-150 lbs/A Pied: 101-200 lbs/A	Coast: 151-250 lbs/A Pied: 201-350 lbs/A	Coast: 250+ lbs/A Pied: 350+ lbs/A
Phosphorus	<i>Recommended Pounds N-P₂O₅-K₂O per Acre</i>			
Low P Coast: 0-30 lbs/A Pied: 0-20 lbs/A	120-80-80	120-80-40	120-80-20	120-80-0
Medium P Coast: 31-60 lbs/A Pied: 21-40 lbs/A	120-45-80	120-45-40	120-45-20	120-45-0
High P Coast: 61-100 lbs/A Pied: 41-75 lbs/A	120-20-80	120-20-40	120-20-20	120-20-0
Very High P Coast: 100+ lbs/A Pied: 75+ lbs/A	120-0-80	120-0-40	120-0-20	120-0-0

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

Recommendations:

Recommended pH:	6.0. If the pH is less than 6.0, see Lime Table C.								
Nitrogen:	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: 40px; border-collapse: collapse; width: 80%;"> <tr> <td style="padding: 2px;">Coastal Plain</td> <td style="padding: 2px;">Low: 0 - 30 lbs/acre</td> <td style="padding: 2px;">Medium: 31 - 60 lbs/acre</td> <td style="padding: 2px;">High: >60 lbs/acre</td> </tr> <tr> <td style="padding: 2px;">Piedmont</td> <td style="padding: 2px;">Low: 0 - 60 lbs/acre</td> <td style="padding: 2px;">Medium: 61 - 120 lbs/acre</td> <td style="padding: 2px;">High: >120 lbs/acre</td> </tr> </table>	Coastal Plain	Low: 0 - 30 lbs/acre	Medium: 31 - 60 lbs/acre	High: >60 lbs/acre	Piedmont	Low: 0 - 60 lbs/acre	Medium: 61 - 120 lbs/acre	High: >120 lbs/acre
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Piedmont	Low: 0 - 60 lbs/acre	Medium: 61 - 120 lbs/acre	High: >120 lbs/acre						
Zinc:	If the Zn soil test level is low, apply 3 pounds of zinc per acre.								
Other:	See sulfur (S) recommendations below.								

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Fact Sheet:

The recommendations given are for an expected corn grain yield of 100 bushels per acre. For expected yields in excess of 100 bushels per acre, increase the nitrogen (N) rate 12 pounds per acre, the phosphate (P₂O₅) rate 4 pounds per acre, and the potash (K₂O) rate 8 pounds per acre for every 10-bushel increment over 100 bushels per acre.

Reduce the nitrogen rate by 20 to 40 pounds per acre following peanuts and soybeans, and by 80 to 100 pounds per acre following alfalfa or a legume winter cover crop that is allowed to bloom.

Split the nitrogen applications, applying one-fourth to one-third of the nitrogen prior to or at planting and the remainder as a sidedress application when the corn is 18 to 24 inches high.

For new ground soils testing low in phosphorus (P), double the recommended rate of phosphate.

For early planted corn, apply a starter fertilizer at a rate to supply 10 to 20 pounds nitrogen per acre and 30 to 60 pounds phosphate per acre.

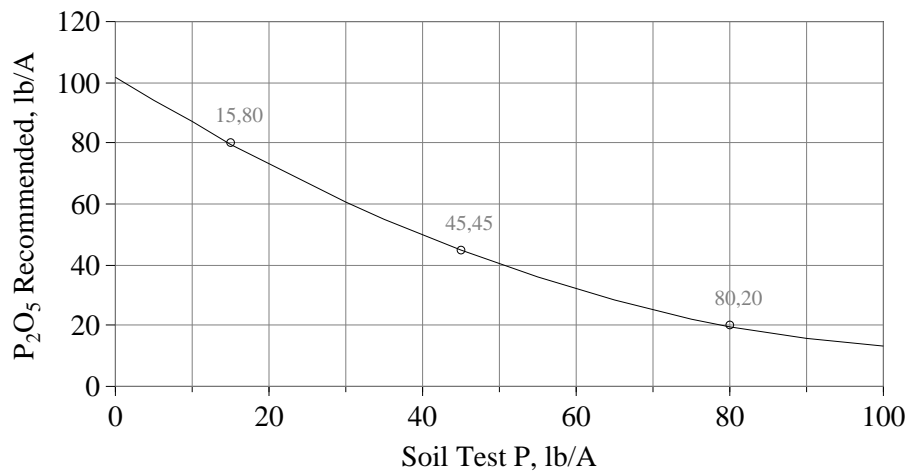
The applied fertilizer should contain sufficient sulfur (S) to supply 10 pounds sulfur per acre.

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I - 3B

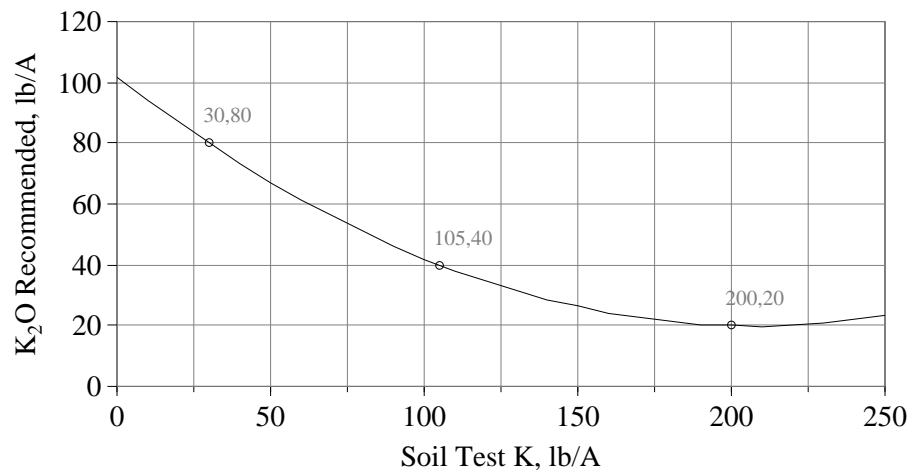
P Recommendations, Coastal Plain

$$P_2O_5 = 102 - 1.584P + 0.00696P^2$$



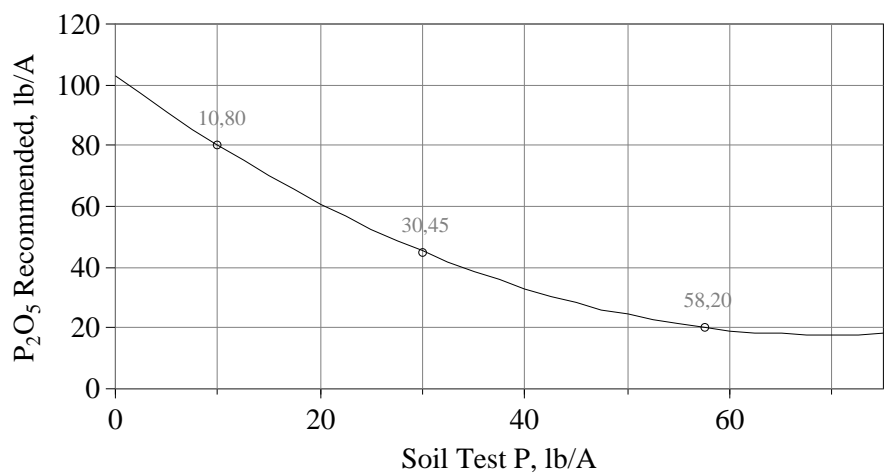
K Recommendations, Coastal Plain

$$K_2O = 102 - 0.790K + 0.00190K^2$$



P Recommendations, Piedmont

$$P_2O_5 = 103 - 2.458P + 0.01770P^2$$



K Recommendations, Piedmont

$$K_2O = 108 - 0.614K + 0.00107K^2$$

