

## Onions (plantbed) (Code #169)

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-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O per Acre</i>			
<b>Low P</b>  Coast: 0-30 lbs/A Pied: 0-20 lbs/A	*-120-120	*-120-90	*-120-60	*-120-45
<b>Medium P</b>  Coast: 31-60 lbs/A Pied: 21-40 lbs/A	*-80-120	*-80-90	*-80-60	*-80-45
<b>High P</b>  Coast: 61-100 lbs/A Pied: 41-75 lbs/A	*-40-120	*-40-90	*-40-60	*-40-45
<b>Very High P</b>  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 100-130 pounds nitrogen (N) per acre.  Piedmont, Mountain, Limestone Valley 90-120 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: &gt;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: &gt;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 preplant on Coastal Plain soils.								
Boron:	Apply 1 pound of boron (B) per acre. This application should be split into two applications.								

**Onions (plantbed) (Code #169) continued**

**Fact Sheet:**

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

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  $P_2O_5$  and  $K_2O$   $1\frac{1}{2}$  to 2 times.

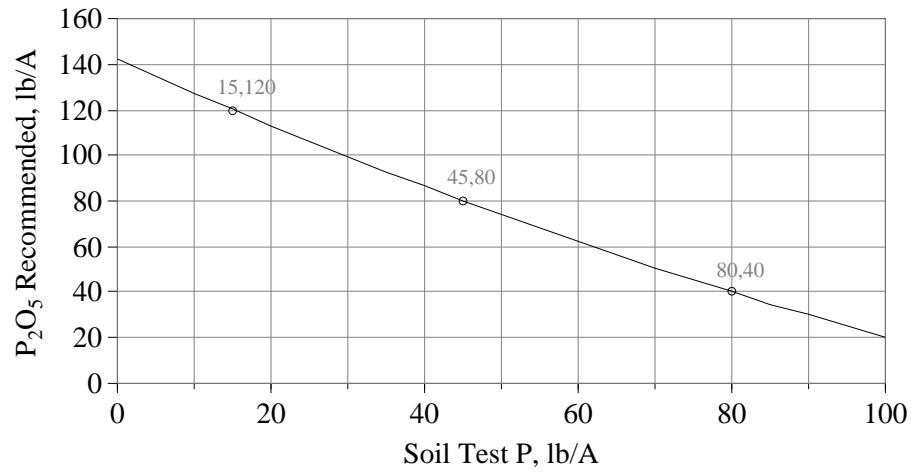
Apply 10 pounds of sulfur (S) per acre preplant on Coastal Plain soils.

Apply 1 pound of boron (B) per acre. This application should be split into two applications.

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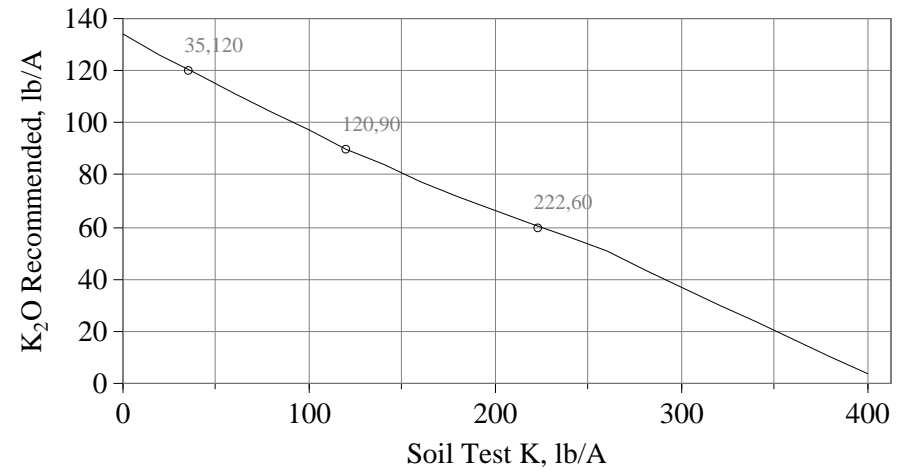
### P Recommendations, Coastal Plain

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



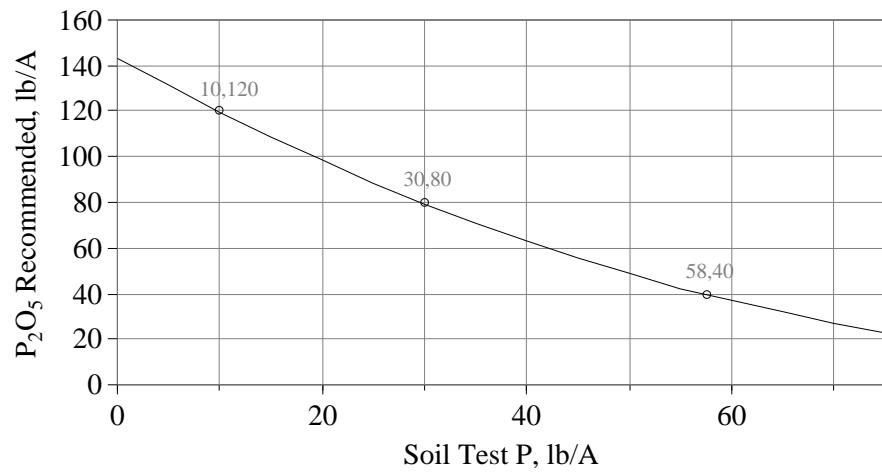
### K Recommendations, Coastal Plain

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



### P Recommendations, Piedmont

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



### K Recommendations, Piedmont

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

