

Irish Potatoes (Code #177)

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	*-200-200	*-200-150	*-200-100	*-200-75
Medium P Coast: 31-60 lbs/A Pied: 21-40 lbs/A	*-150-200	*-150-150	*-150-100	*-150-75
High P Coast: 61-100 lbs/A Pied: 41-75 lbs/A	*-100-200	*-100-150	*-100-100	*-100-75
Very High P Coast: 100+ lbs/A Pied: 75+ lbs/A	*-70-200	*-70-150	*-70-100	*-70-75

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.								
Nitrogen:	Coastal Plain 150-200 pounds nitrogen (N) per acre. Piedmont, Mountain, Limestone Valley 120-150 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.								

Fact Sheet:

Nitrogen (N) applications 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).

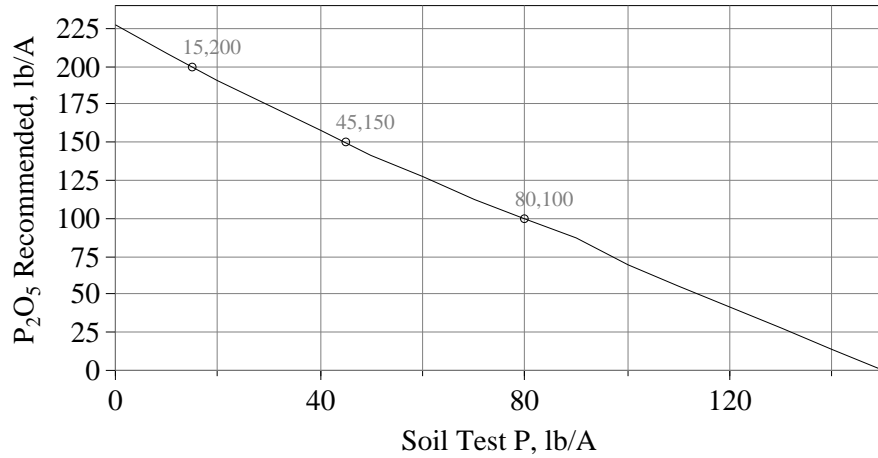
For more efficient use of fertilizer split the applications, applying one-third to one-half down (banded or incorporated in the bed) and the remainder in 1 to 3 applications. If the fertilizer is broadcast, increase the application rates of phosphate (P_2O_5) and potash (K_2O) 1½ to 2 times.

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V - 17B

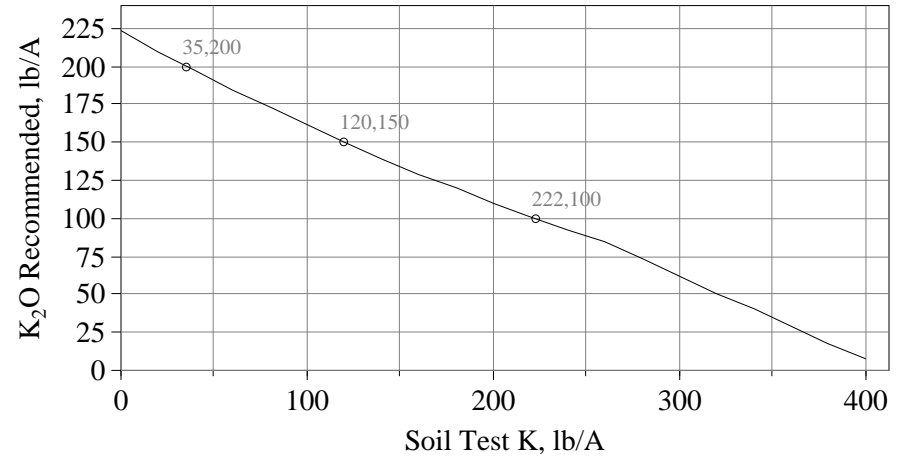
P Recommendations, Coastal Plain

if (P < 100) $P_2O_5 = 227 - 1.886P + 0.00366P^2$
 if (P ≥ 100) $P_2O_5 = 210 - 1.40P$



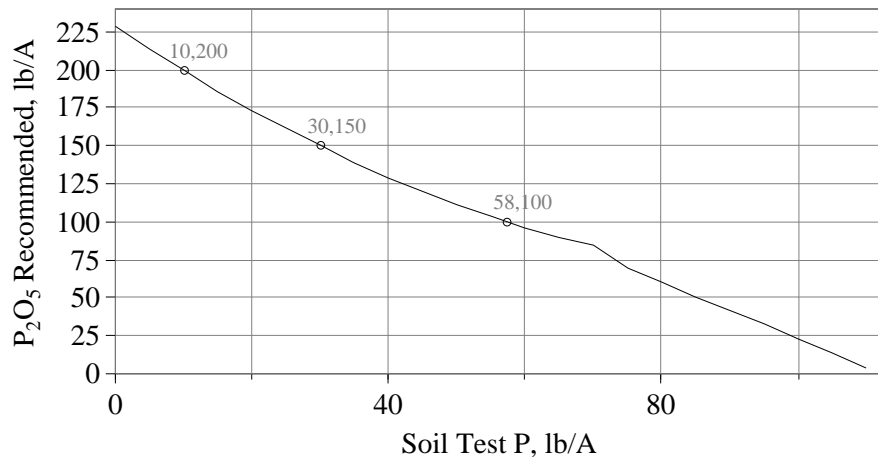
K Recommendations, Coastal Plain

if (K < 275) $K_2O = 223 - 0.672K + 0.00054K^2$
 if (K ≥ 275) $K_2O = 227 - 0.55K$



P Recommendations, Piedmont

if (P < 75) $P_2O_5 = 229 - 3.074P + 0.01435P^2$
 if (P ≥ 75) $P_2O_5 = 210 - 1.87P$



K Recommendations, Piedmont

if (K < 400) $K_2O = 226 - 0.439K + 0.00016K^2$
 if (K ≥ 400) $K_2O = 228 - 0.38K$

