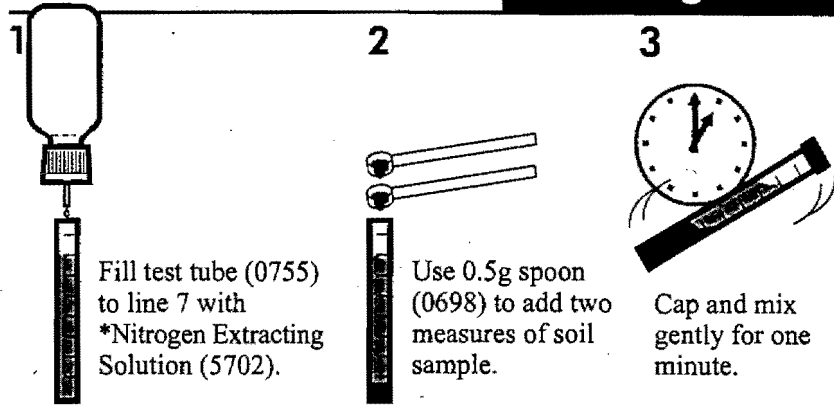


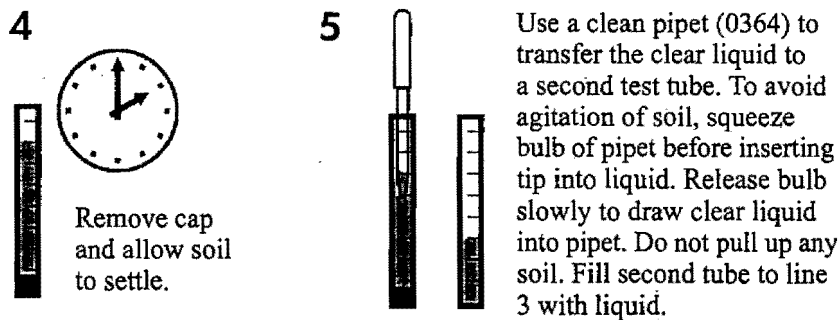
## Nitrogen Test



1 Fill test tube (0755) to line 7 with \*Nitrogen Extracting Solution (5702).

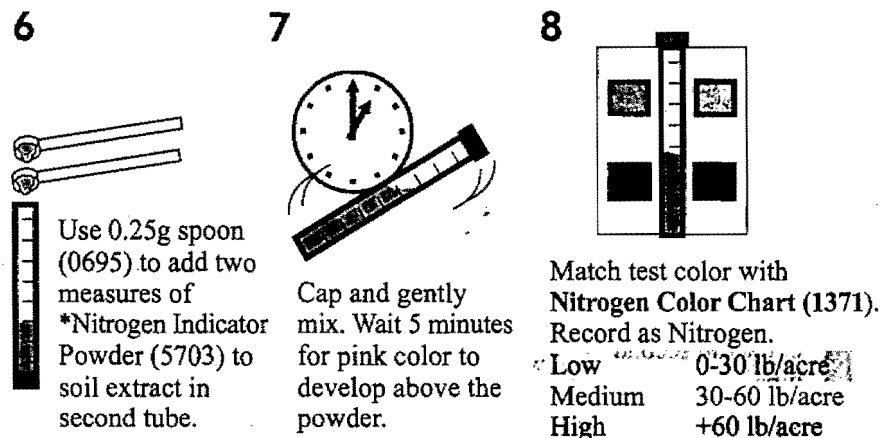
2 Use 0.5g spoon (0698) to add two measures of soil sample.

3 Cap and mix gently for one minute.



4 Remove cap and allow soil to settle.

5 Use a clean pipet (0364) to transfer the clear liquid to a second test tube. To avoid agitation of soil, squeeze bulb of pipet before inserting tip into liquid. Release bulb slowly to draw clear liquid into pipet. Do not pull up any soil. Fill second tube to line 3 with liquid.

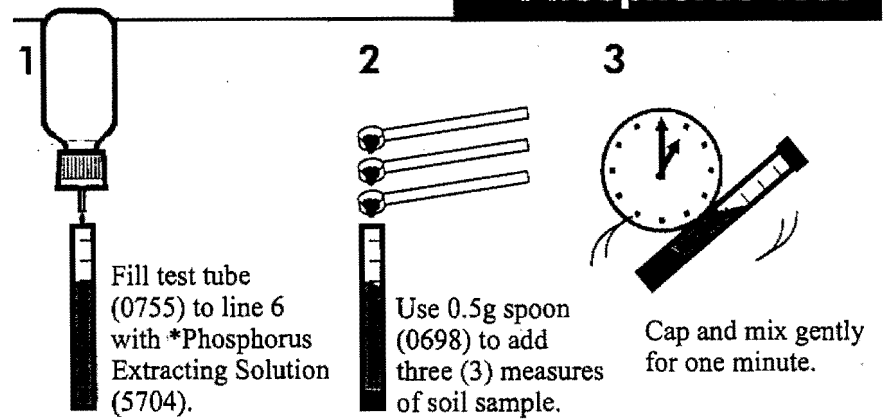


6 Use 0.25g spoon (0695) to add two measures of \*Nitrogen Indicator Powder (5703) to soil extract in second tube.

7 Cap and gently mix. Wait 5 minutes for pink color to develop above the powder.

8 Match test color with Nitrogen Color Chart (1371). Record as Nitrogen.  
 Low 0-30 lb/acre  
 Medium 30-60 lb/acre  
 High +60 lb/acre

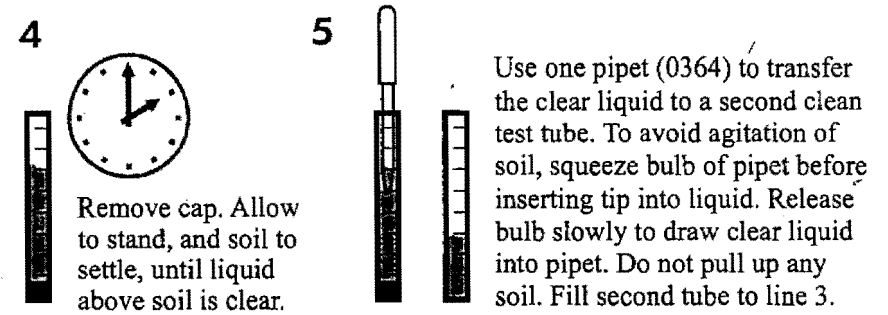
## Phosphorus Test



1 Fill test tube (0755) to line 6 with \*Phosphorus Extracting Solution (5704).

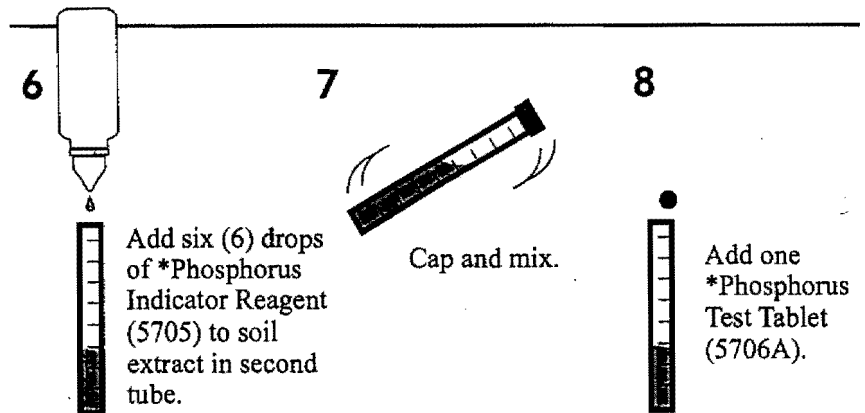
2 Use 0.5g spoon (0698) to add three (3) measures of soil sample.

3 Cap and mix gently for one minute.



4 Remove cap. Allow to stand, and soil to settle, until liquid above soil is clear.

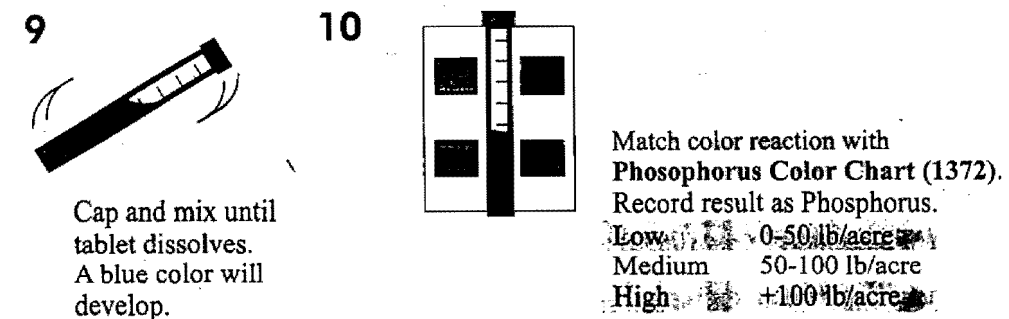
5 Use one pipet (0364) to transfer the clear liquid to a second clean test tube. To avoid agitation of soil, squeeze bulb of pipet before inserting tip into liquid. Release bulb slowly to draw clear liquid into pipet. Do not pull up any soil. Fill second tube to line 3.



6 Add six (6) drops of \*Phosphorus Indicator Reagent (5705) to soil extract in second tube.

7 Cap and mix.

8 Add one \*Phosphorus Test Tablet (5706A).



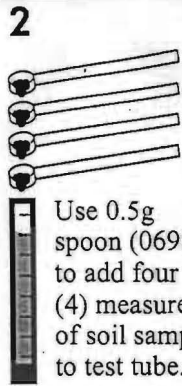
9 Cap and mix until tablet dissolves. A blue color will develop.

10 Match color reaction with Phosphorus Color Chart (1372). Record result as Phosphorus.  
 Low 0-50 lb/acre  
 Medium 50-100 lb/acre  
 High +100 lb/acre

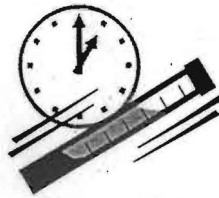
## Potassium (Potash) Test



1 Fill test tube (0755) to line 7 with Potassium Extracting Solution (5707)

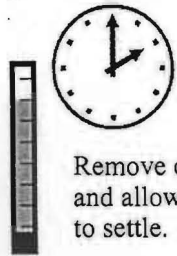


2 Use 0.5g spoon (0698) to add four (4) measures of soil sample to test tube.



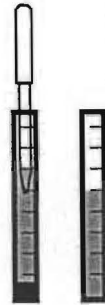
3 Cap and shake vigorously for one minute.

4



4 Remove cap and allow soil to settle.

5



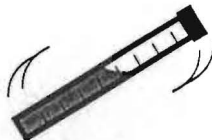
5 Use a clean pipet (0364) to transfer the clear liquid to a second clean test tube. Be careful not to pull up any soil into pipet. Fill second tube to line 5 with liquid.  
NOTE: If additional extract is needed to fill the tube to line 5, repeat steps 1 through 4.

6



6 Add one Potassium Indicator Tablet (5708A) to soil extract in second tube.

7



7 Cap and mix until tablet dissolves. A purplish color will appear.

8



8 Add Potassium Test Solution (5709), two drops at a time, keeping count. Mix contents after each addition. Stop adding drops when the color changes from purplish to blue.

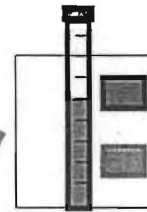
## Potassium (Potash) Test, continued

9

9 Use Potassium End Point Color Chart (1352) as a guide in reading this color change. Keep an accurate count of the number of drops added. Read test result from table.

Number of Drops Added Potassium (Potash) Level

0-8	Very High
10	High
12	Medium High
14	Medium
16	Medium Low
18	Low
20 or more	Very Low



Low	0-120 lbs/Acre
Medium	120-200 lbs/Acre
High	+200 lbs/Acre

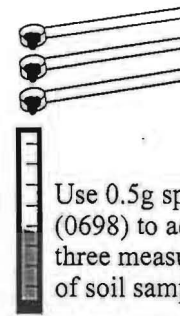
cont'd.

## pH Test



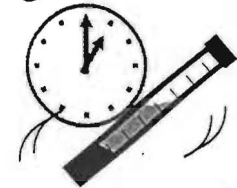
1 Fill test tube (0755) to line 4 with pH Indicator (5701). Squeeze bottle gently to control amount dispensed.

2



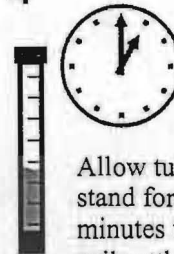
2 Use 0.5g spoon (0698) to add three measures of soil sample.

3



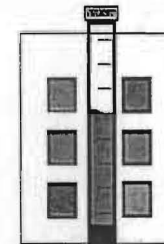
3 Cap and mix gently for one minute.

4



4 Allow tube to stand for 10 minutes to let soil settle.

5



5 Match color reaction with pH Color Chart (1353). Record result as pH.