**GLOBE PEDOSPHERE**

**NITROGEN TEST**

1. **Fill test tube to line 7 with Nitrogen Extracting Solution**
2. **Use large white spoon and place 1 spoon of soil in test tube**
3. **Cap and mix gently for 1 minute**
4. **Allow tube to stand and let soil sample settle**
5. **Use a clean pipet to transfer clear liquid in this tube to a second clean test tube to line 3. (Try not to pull up any soil in pipet.)**
6. **Use small white spoon and place 3 spoons of Nitrogen Indicator Powder to second tube. Cap and gently mix**
7. **Wait 5 minutes for pink color to develop in tube above the powder**
8. **Match color of liquid to Nitrogen Color Chart**
9. **Record result as Nitrogen in lb/acre**
10. **CLEAN ALL EQUIPMENT**

**GLOBE PEDOSPHERE**

**pH TEST**

1. **Fill test tube to line 4 with pH Indicator solution**
2. **Use white spoon and place 3 spoons of soil into test tube**
3. **Cap and mix gently for 1 minute**
4. **Allow tube to stand to let soil sample settle**
5. **Match color of liquid in test tube with pH Color Chart**
6. **Record result as pH (no units)**
7. **CLEAN ALL EQUIPMENT**

**GLOBE PEDOSPHERE**

**PHOSPHOROUS TEST**

1. **Fill test tube to line 4 with Phosphorous Extracting Solution**
2. **Use white spoon and place 3 spoons of soil in test tube**
3. **Cap and gently mix for 1 minute**
4. **Allow tube to stand to let soil sample settle**
5. **Use a clean pipet to transfer clear liquid in this tube to a second clean test tube to line 3. (Try not to pull up any soil in pipet.)**
6. **Add 6 drops of Phosphorous Indicator Reagent to liquid in second test tube. Cap and mix gently**
7. **Add 1 Phosphorous Test Tablet to second tube. Cap and mix until tablet dissolves**
8. **Match color of liquid to Phosphorous Color Chart**
9. **Record result as Phosphorous in lb/acre**
10. **CLEAN ALL EQUIPMENT**

**GLOBE PEDOSPHERE**

**POTASSIUM TEST**

1. **Fill test tube to line 7 with Potassium Extracting Solution**
2. **Use white spoon and place 1 spoon of soil in test tube**
3. **Cap and shake vigorously for 1 minute**
4. **Allow Tube to stand to let soil sample settle**
5. **Use a clean pipet to transfer clear liquid in this tube to a second lean test tube to line 5. (Try not to pull up any soil in pipet.)**
6. **Add 1 Potassium Test Tablet to second tube. Cap and mix well until tablet dissolves and a purplish colors appears**
7. **Add Potassium Test Solution DROP-BY-DROP – KEEP TRACK OF HOW MANY DROPS YOU ADD until the purple color turns blue according to the Potassium Color Chart**
8. **Use the total number of drops to determine the Potassium content using this chart:**

|  |  |
| --- | --- |
| **Number of Drops** | **Potassium Amount** |
| **0-8** | **Very High** |
| **9-10** | **High** |
| **11-12** | **Medium High** |
| **13-14** | **Medium** |
| **15-16** | **Medium Low** |
| **17-18** | **Low** |
| **19 or more** | **Very Low** |

 **Low 🡪 0-120 lbs/acre**

**Medium 🡪 120-200 lbs/acre**

**High 🡪 +200 lbs/acre**

1. **Record Result as Potassium lbs/acre**
2. **CLEAN ALL EQUIPMENT**