



Worksheet 7-2

Calculate the Nitrogen Rate of a Typical Application of an Organic Nutrient Source

1. Determine area receiving application

- Express in portion of an acre
- $(\text{length (ft)} \times \text{width (ft)} \times \# \text{ of rows}) \div 43,560$

2. Mineralization rate of organic nutrient source

- Consult mineralization table
- Convert % to a decimal fraction by multiplying by 0.01

3. Nitrogen content of organic nutrient source

- Consult label or lab report (%N)
- Convert % to a decimal fraction by multiplying by 0.01

4. Calculate the PAN of the nutrient source

- Commercial organic sources typically contain no ammonium
- Expressed as a decimal fraction
- Multiply #3 x #2

5. Amount of organic nutrient source applied to area

- Expressed in lbs
- Consult records or scenario

6. Calculate the nitrogen application rate

- Expressed in lbs PAN per acre
- First, multiply #5 by #4
- Then, divide by #1