

**Measuring a Forest**

**Part A: Forested Area and Distribution**

What percentage of the United States’ land area is covered in forest?

Shade in the areas you think are currently forested:



**Biomass** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where are the areas of greatest forest biomass density in the United States?

**Part B: Measuring Forests: Why and How**

Name one reason why it’s important to measure and monitor forests:

A **dendrologist** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A tree’s **crown** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DBH** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice using C=πD (where C = circumference, D = diameter, and π ~ 3.14)

1. D = 2, C = ?
2. D = 6, C = ?
3. D=1, C = ?
4. C = 3.14, D = ?
5. Radius (R) = 3, D = ?
6. For every 1 inch increase in diameter, the circumference increases \_\_\_\_\_ inches.

What is the diameter of your tree cookie using a ruler? \_\_\_\_\_\_\_\_\_

What is the diameter of your tree cookie using DBH tape? \_\_\_\_\_\_\_\_\_

What is the diameter of your head? \_\_\_\_\_\_\_\_\_

**Part C: Stand Density**

**Stand Density** is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Calculate the stand density of the example plot:

If everyone in this room were trees, what would be our stand density?