

Additional Notes/Calculations:

Forester's Journal



Name: _____

Science Per: _____ Math Per: _____

Group: _____ Sample Plot: _____

Group Members:

Dates:

Work Day 1: _____

Work Day 2: _____

Make
Your Day
Points:

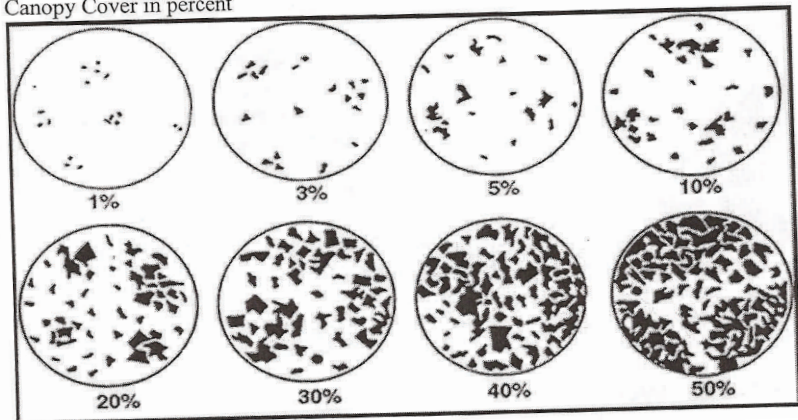
Date:	Points:

Teeland Middle School

Canopy Cover

From the center of your sample plot, use the canopy cover tool (PVC Pipe) to measure the amount of sky vs. the amount of leaves and branches. Compare to the table below and record you data.

Canopy Cover in percent



Our sample plot: _____ % cover

Tree Density

$$\frac{\text{Number of trees (greater than 10 cm diameter)}}{\text{Area of sample plot}}$$

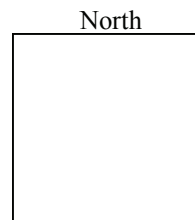
Calculate tree density for you plot. Show all work:

_____ =

Sample Plot Overview

Plot: _____

1. Measure the dimensions (length and width) of your sample plot and label on the rectangle below.
(Measure to the nearest 0.1 m)



2. Calculate the area of your sample plot. Show all work.
Round your final answer to the nearest 0.1 m².

Area = _____

3. Record the names of all plants you have identified in your sample plot:

_____	_____
_____	_____
_____	_____
_____	_____

4. Record the GPS coordinates of the center of your sample plot:

_____ N latitude
_____ W longitude

Sample Plot Data Page Plot: _____

1. Carefully label each tree in your plot (having a diameter greater than 10 cm) using a small piece of flagging.
2. Tree circumference is measured at 137 cm (4.5 ft) above ground level.
3. To calculate the tree's diameter, divide the circumference by 3.14.

*****Round all calculations to the nearest tenth (0.1)*****

4. To find tree height, measure 20 m (about 66 ft.) from the base of the tree and stand there. Sight through the clinometer to the top of the tree and read the number on the right. This will tell you the tree's height in feet (ft.) Then, add 5 ft to account for your eye height.
5. To convert the height from feet to meters, multiply the height in feet by 0.3.
6. Find the age of the tallest tree of each species using the increment borer. Remember to keep the increment borer perpendicular to the tree (horizontal-parallel to the ground). Mark every 10 rings (yrs) on the core sample with a pencil mark to help keep track. Be extremely careful when re-inserting the core back into the tree. Ask for help if you're not sure.

Tree #	Species Name:	Circumference (@137 cm)	Diameter (C ÷ 3.14)	Height (ft)	Height (m) (ft x 0.3)	Age (yrs) Only do 3
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

