

# TREE POPULATION DENSITY: FIELD WORKSHEET



Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Site 1 Name: \_\_\_\_\_ Site 2 Name \_\_\_\_\_ Site 3 Name \_\_\_\_\_  
Site 4 Name: \_\_\_\_\_

2. **Calculating population density:** Count the numbers of each of your chosen species within your marked plot of land and record in the tables below. Only trees with diameters greater than 10 cm are fair game! Also record the size of your plot; your teacher should be able to help you determine this. Finally, remember to normalize your data so it is in trees per hectare. For example, if your site is 50m x 50m, it is 2500m<sup>2</sup> or 1/4 hectare. You will then multiply all your counts by 4 to get data in trees per hectare.

Site 1: _____ Size: ____m x ____m, _____ hectares				
	# of Species 1	# of Species 2	# of Species 3	Total Population
Count				
Normalized				

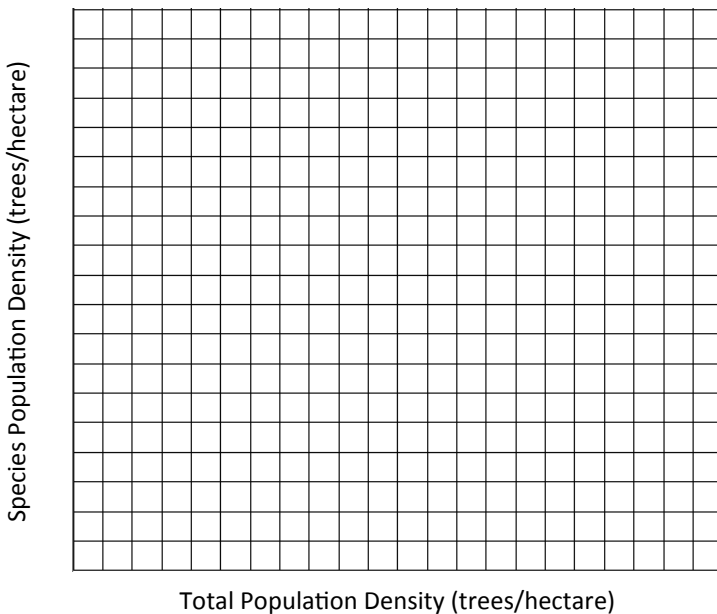
Site 2: _____ Size: ____m x ____m, _____ hectares				
	# of Species 1	# of Species 2	# of Species 3	Total Population
Count				
Normalized				

Site 3: _____ Size: ____m x ____m, _____ hectares				
	# of Species 1	# of Species 2	# of Species 3	Total Population
Count				
Normalized				

Site 4: _____ Size: ____m x ____m, _____ hectares				
	# of Species 1	# of Species 2	# of Species 3	Total Population
Count				
Normalized				

1. Does the total population density affect the density of any one species? Is one species more prevalent at lower overall densities or vice versa? On the graph below, plot your normalized data for every species at every site, using different colors for each site and different shapes for each species.

Title: \_\_\_\_\_




---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

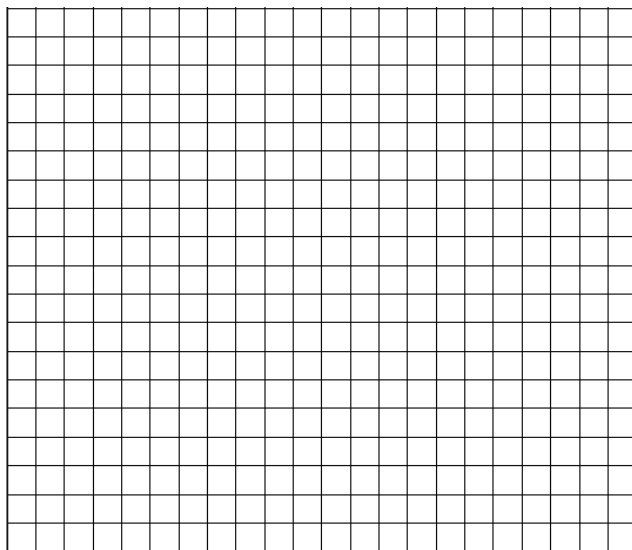
---

---

---

2. Did you notice any other trends? Use the graph below to plot your own hypothesis about how the densities of each species affect each other. For example, does an increase in the density of Species 1 decrease the density of Species 2?

Title: \_\_\_\_\_



Hypothesis: \_\_\_\_\_

---

---

---

---

Outcome: \_\_\_\_\_

---

---

---

---

---