POPULATION DENSITY EFFECTS ON GROWTH

Average Tree Height (cm)

Average Tree Diameter (cm)



Name:		 	
Class:		 	
	Date:		

1. Does tree population density affect tree growth? Use your data on tree population density at various sites and your data on tree height to plot a graph of density vs height below. Use the height averages for a given species at all of your sites. If you wish to plot all of your species, use different colors for each species and different shapes for each site.

Total Population Density (trees/hectare)

2. Now do the same thing, but use your diameter data instead of your height data. Do you see any correlations?

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Total Population Density (trees/hectare)







Name:				
	Date:			

2. Use the two plots below to test your own hypotheses about the effects of tree population density on the growth of certain species. For example: Does the density of Species 1 affect the height of Species 2? Does the density of Species 1 affect its own height? Does the total density of an area affect the diameter of a given Species?

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Hypothesis:		 	
Outcome:			

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Hypothesis:		
Outcome:		

3. Is there an optimal population density for tree growth? Have you seen any evidence of density hindering growth? Why do you think a higher density would result in less growth?



