

Name: _____

Date: _____

Jefferson Square Park- Species Composition & DBH**Using your raw data for Plots 1, 2, & 3 in Jefferson Square Park complete the following data tables.**

Species	# of individuals	Relative abundance
American Linden		
Scotch Pine		
Sweet Cherry Tree		
Blue Spruce		
Flowering Crabapple		
Silver Maple		
Austrian/Black Pine		
Totals		

Diameter Class (DBH)	# Trees
Small Trees 10-14 in.	
Medium Trees 15-19 in.	
Large Trees 20-29 in.	
Giant Trees >29 in.	

Species	Mean DBH (in)	Median DBH (in)	Range DBH (in)
American Linden			
Scotch Pine			
Silver Maple			

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Graphing

- 1) Create a pie chart graph that shows *Species Composition (relative abundance)* for plots 1, 2, & 3 combined. Be sure to include labels and percentages.
- 2) Create a bar graph that shows *# of trees by diameter class*.

Analysis & Conclusion Questions (Answer on loose-leaf paper in complete sentences)

- 1) Which tree species had the greatest mean DBH? Which tree species had the smallest mean DBH?
- 2) Which tree species had the largest range in DBH? Which tree species had the smallest range in DBH? What can this tell you about the population of that particular tree species from these data?
- 3) What can you learn about the trees using basic statistical measures of dispersion such as mean, median, and range? Explain for each.
- 4) Consider this scenario, you come back for a visit in 15 years and I show you a graph that breaks down trees in the park by diameter class. It shows fewer giant trees (than 15-years ago) and fewer large trees, yet more small and medium trees. What could you and infer from these data? Explain.
- 5) Consider this scenario, you come back for a visit in 15 years and I show you a graph that breaks down trees in the park by diameter class. It shows no small trees, no medium trees, and no large trees, but just a few giant trees. What could you and infer from these data? Explain.
- 6) How can diameter class be used to track change over time of a forest ecosystem? What can researchers learn from these data?
- 7) How can relative abundance be used to track change over time of forest ecosystems? What can researchers learn from these data?