**Handout 4: Worksheet, School Forest Summary Questions Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What year will the school forest be ready for harvest according to Great Lakes cutting recommendations? What measure of growth in the forest will be used to determine this?

2. What is basal area residual?What is the recommended residual basal area for our school forest?

3. What considerations should be taken when deciding the residual basal area? Hint: What species of tree do we want to manage for? For example, sugar maple, yellow birch, or red pine? What growing conditions does this species prefer?

4. With your red pencil, plot the residual basal area for the school forest on your graph. At what year was this last achieved?Based on your graph, estimate the length of a growth cycle for harvest. In other words, do the math to show the amount of time in years that the forest grew from a residual basal area of 90 square feet per acre to a harvest basal area of 120 square feet per acre.

*Critical Thinking*

5. Based on your results, after this harvest cycle, what year will the next harvest cycle end? Show your work.