

Modeling Regeneration – Lab Report

1- Introduction

The introduction should include a brief discussion of the different regeneration mechanisms that have been introduced in lab and lecture (e.g. sprouting, advance reproduction etc...) and your understanding of their importance to various species common in eastern forested landscapes. In addition, a short explanation regarding the use of models to forecast future species composition and compare management scenarios may be warranted. Cite referenced material.

2- Objectives

The objectives of this lab are to investigate the importance of different regeneration mechanisms and/or strategies that common species in eastern forested landscapes have evolved. You will explore different scenarios through the use of a stochastic/probabilistic regeneration model.

3- Materials & Methods

The materials and methods section will contain two sub-sections: Field Methods and Laboratory Methods or Modeling Procedures.

a – Field Methods – explain the process used to collect field data to the degree that someone can repeat your methods.

b – Modeling Procedure – explain the steps taken with the simulation model. Detail the process that produced the results that you will present later in the report. In this section you will present how you ran the model, how the data was manipulated and how the model was manipulated.

4- Results

Report the results obtained from the model in an organized logical fashion. Use both text and tables/figures to present your results. You will explain three separate model runs: 1) Present the model results from your original (unmanipulated) data, 2) Compare the model results from your original data to the results after adding yellow poplar and 3) Compare the model results from your original data to the results after removing undesirable species (maples) and/or adding artificial oak regeneration.

5- Discussion

The discussion section is your opportunity to interpret your results. In addition, you will need to answer the discussion questions in the assignment handout.. DO NOT list and answer questions in “block style” within the discussion. Incorporate as part of the written text.

6- Conclusion

Reiterate the main points of your lab report and make conclusionary or summary statements.