

Computer generated models predicting growth over a 100 year period. (below and far right)

# Forest Inventory Growth Plot

Marie Ring, Shea Nelson and Zach Collins

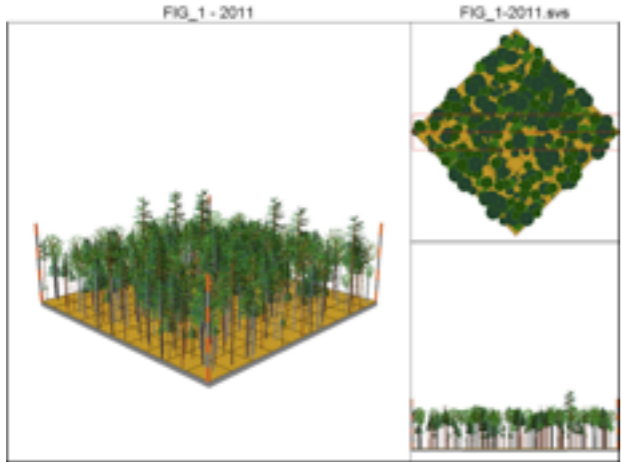


FIG Plot 2011

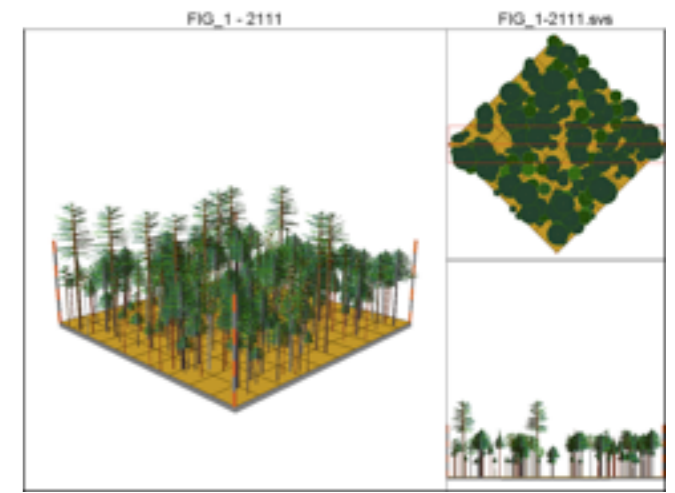
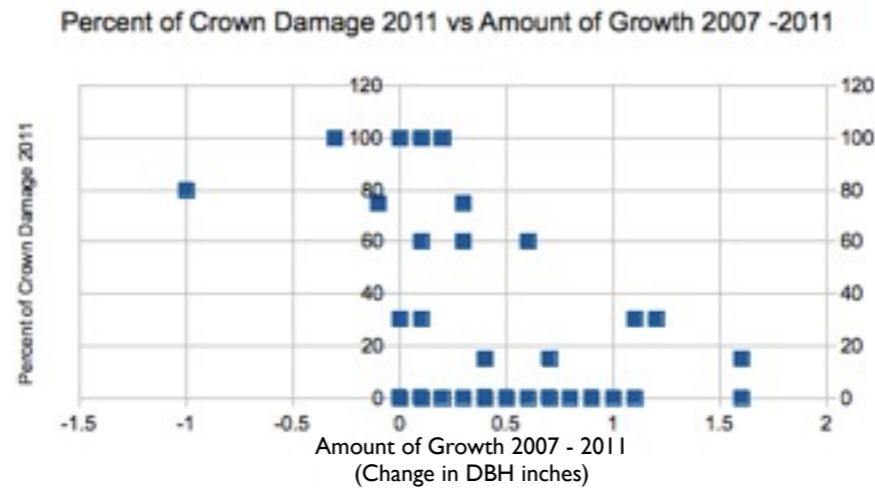
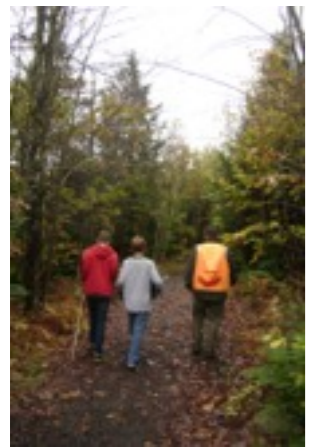
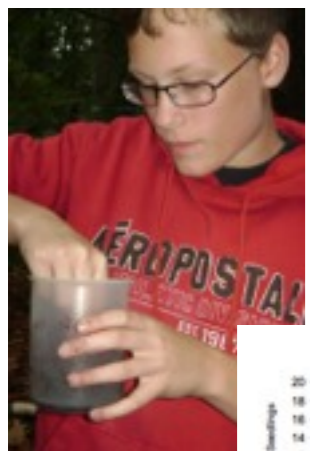


FIG Plot 2111



Zach, Shea and Ken Canfield



Zach testing soil pH

Purpose: To determine how tree growth over a five year period impacts crown damage  
To measure the growth of trees over a one year period

Hypothesis: The trees that have grown more will have more damage because of wind shear and other abiotic factors.

The results based on this hypothesis are shown above in the graph. The hypothesis was not correct and showed almost the opposite results. The trees with the most growth had the least damage showing that they were healthy trees. On the graph the trees grew the most have the smallest percent of damage to them.

Over the past 6 years the same 1/10 acre plot, located at the Cathance River Preserve, has had data collected about the type of plant life and tree growth within the plot.

This year the following were measured or assessed:

- 50 tree DBHs
- percent of damage to the trees to both the crown and bole
- 4 satellite plots containing smaller plant life, seedlings and saplings
- abiotic factors including, wind and proximity to water
- soil data including moisture, temperature and texture
- the relationship between crown damage and amount of yearly growth

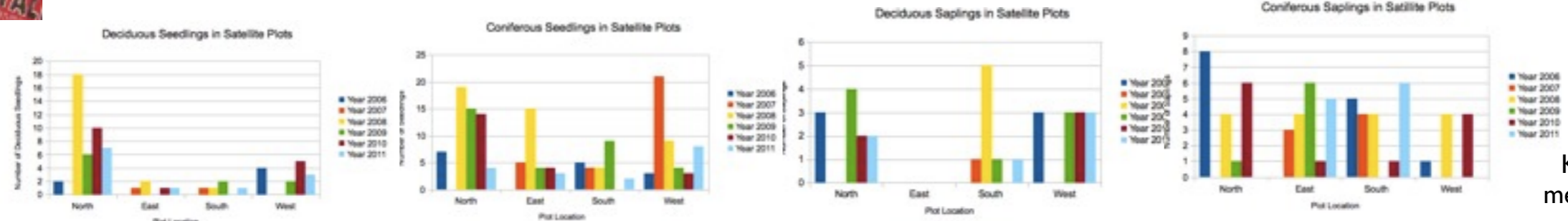
The data will be submitted to the state with additional data added annually.



Shea measuring DBH



Ken Canfield measuring slope



Satellite plot graphs (above)

Thanks to Ken Lausten, Kevin Doran, Ken Canfield, Cheryl Sleeper, Mr. Evans and CREA for making this project possible.

(Marie not pictured)