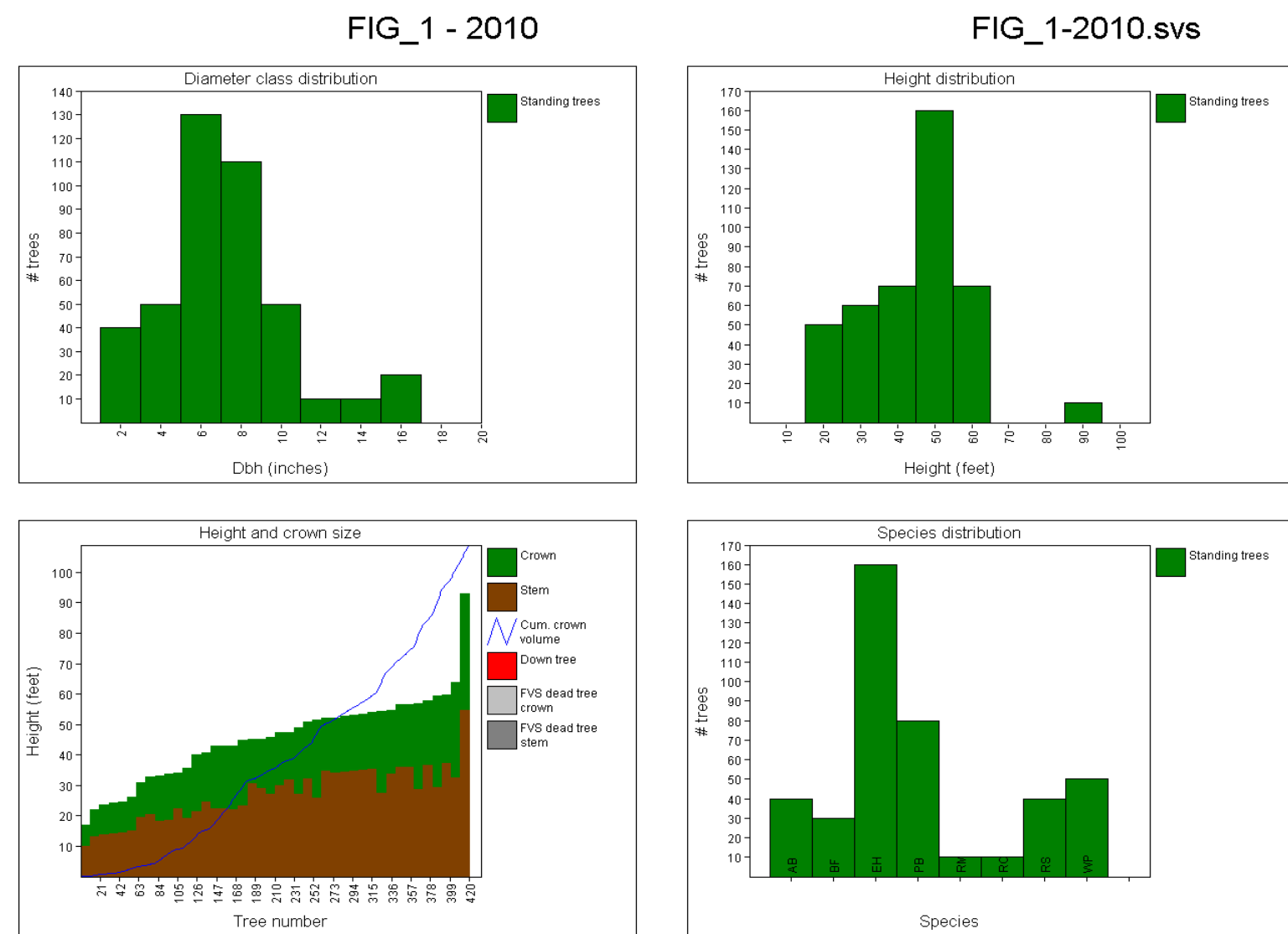


# Forest Inventory Growth Plot 2010

Elsie Morgan, Eric Farnsworth, Zach Brownlee

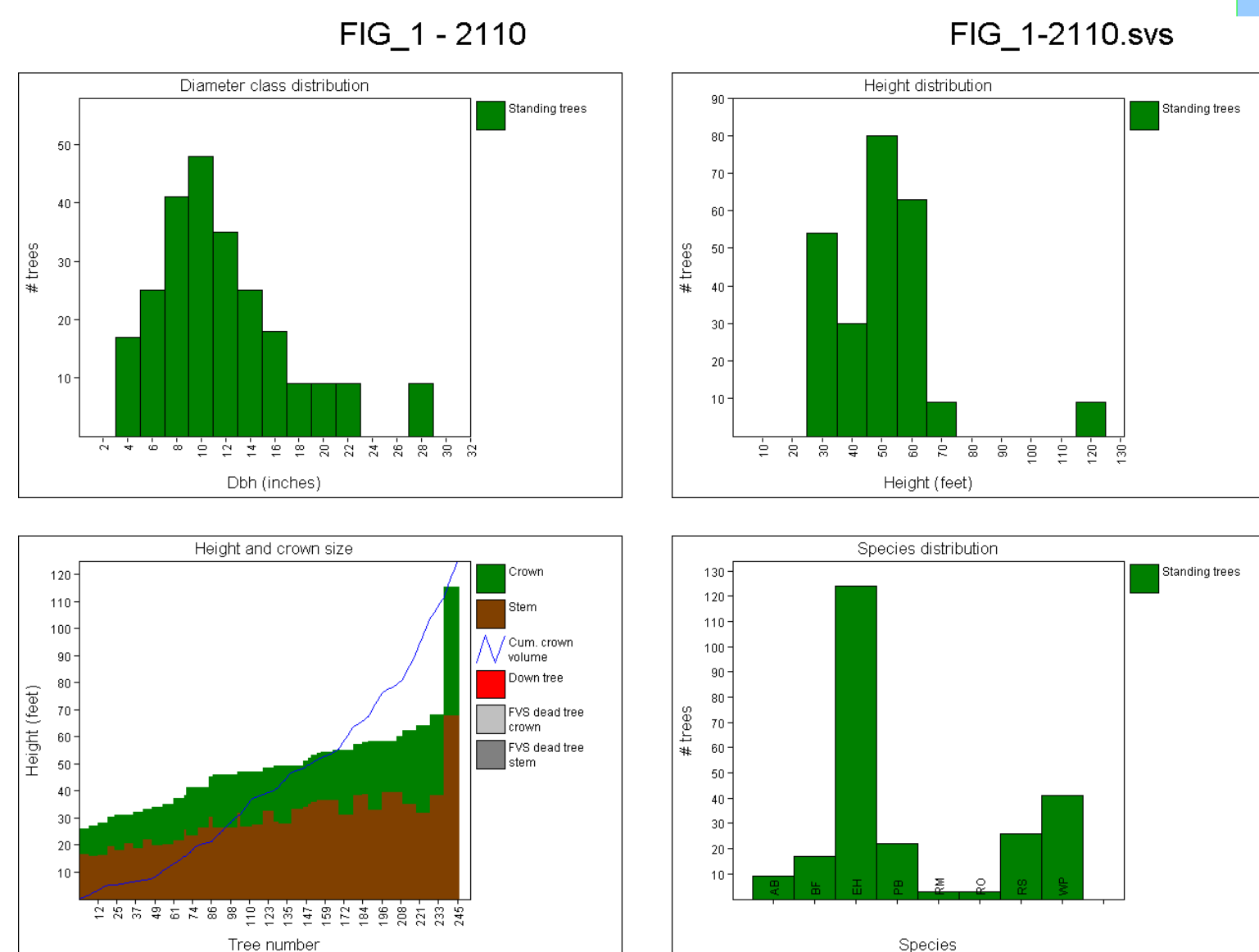
Partial data table showing 13 of the 50 trees in the plot

Data averages present



For the past five years data has been collected in a 1/10<sup>th</sup> acre plot of 50 trees at the Cathance River Preserve. The DBH, damaged percent, and species of trees were recorded for several weeks. Information on ground cover was taken from four satellite plots in each of the cardinal directions, north, south, east, and west. Other data that was taken was the pH of the soil and other abiotic (non-living) factors. This data is put into a state database each year. In a computer simulation projecting the future, there are fewer trees in the plot. The trees that are present are larger, especially the Eastern Hemlocks. Data and visules of that simulation is shown to the left and below.

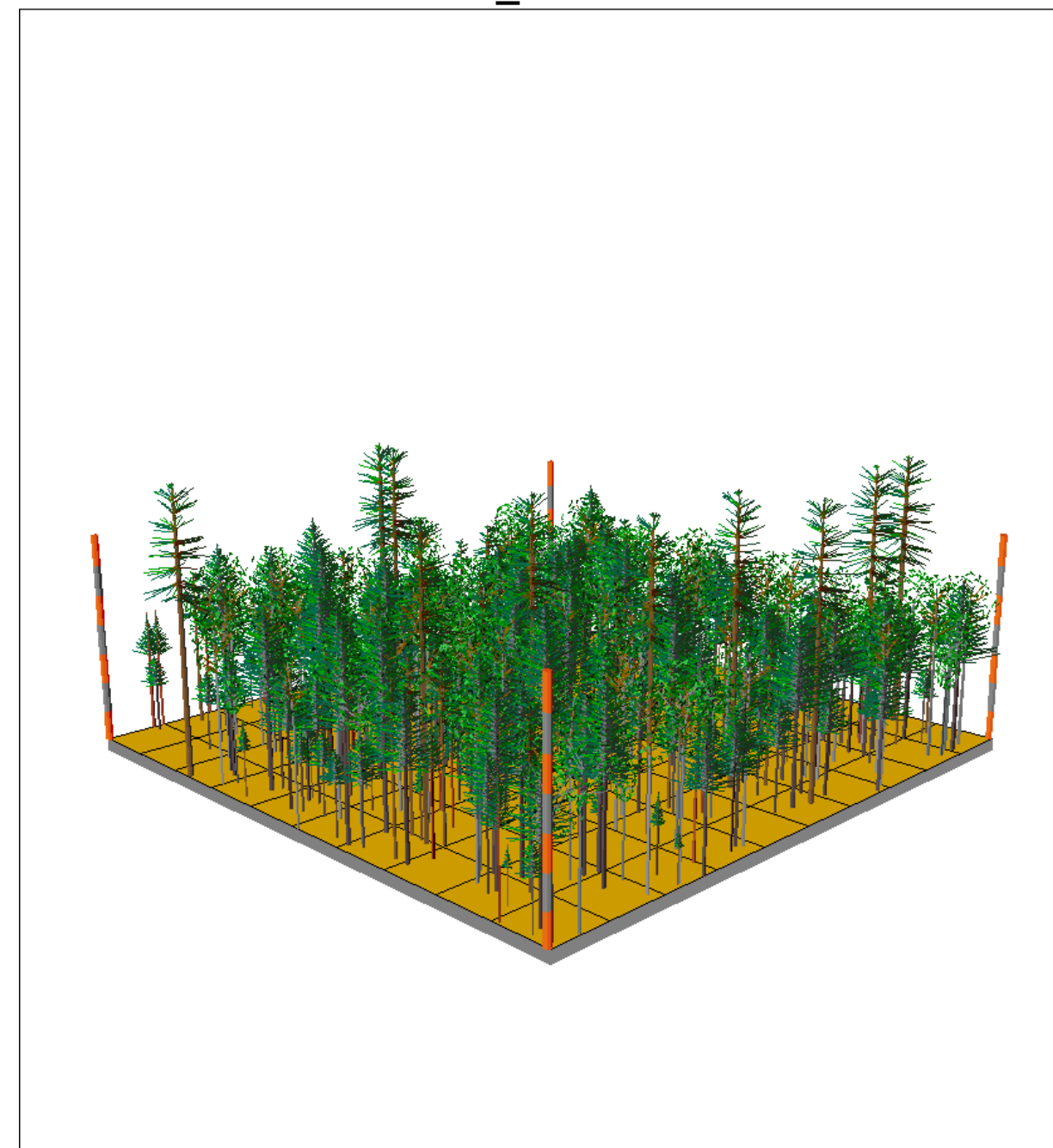
Data averages 100 years later



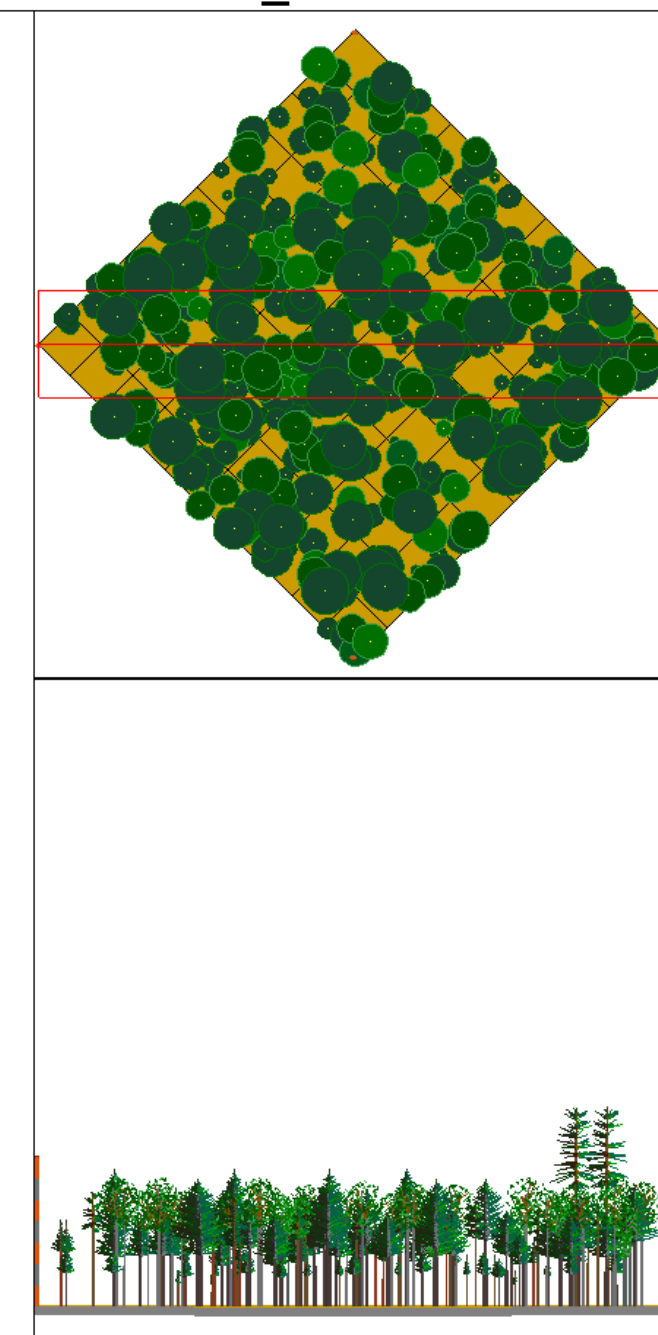
Tree Number	Species	Tree Status	Tree Height (ft)	DBH (in)	Damage Type Crown	Damage Percent	Damage Type Bole	Damage Percent
1	Eastern Hemlock	Live	64	10.9	N/A	0	N/A	0
2	Eastern Hemlock	Live	43	9.5	N/A	0	N/A	0
3	American Beech	Live	No Data	5	Both	70-80	Disease	70-80
4	American Beech	Live	No Data	3	Both	70-80	Disease	70-80
5	American Beech	Live	No Data	7.9	Both	0-5	Disease	0-5
6	White Pine	Live	53	8.7	N/A	0	N/A	0
7	American Beech	Live	No Data	5.5	Both	10 - 15	Disease	10 - 15
8	White Birch	Live	No Data	6.6	Branches	70-80	N/A	0
9	Not Found		No Data		N/A	0	N/A	0
10	Northern Red Spruce	Live	No Data	4.7	Branches	0-5	N/A	0
11	Eastern Hemlock	Live	No Data	5.3	N/A	0	N/A	0
12	Eastern Hemlock	Live	No Data	5.7	N/A	0	N/A	0
13	Northern	Live	No Data	7	N/A	0	N/A	0

Plot at present

FIG\_1 - 2010

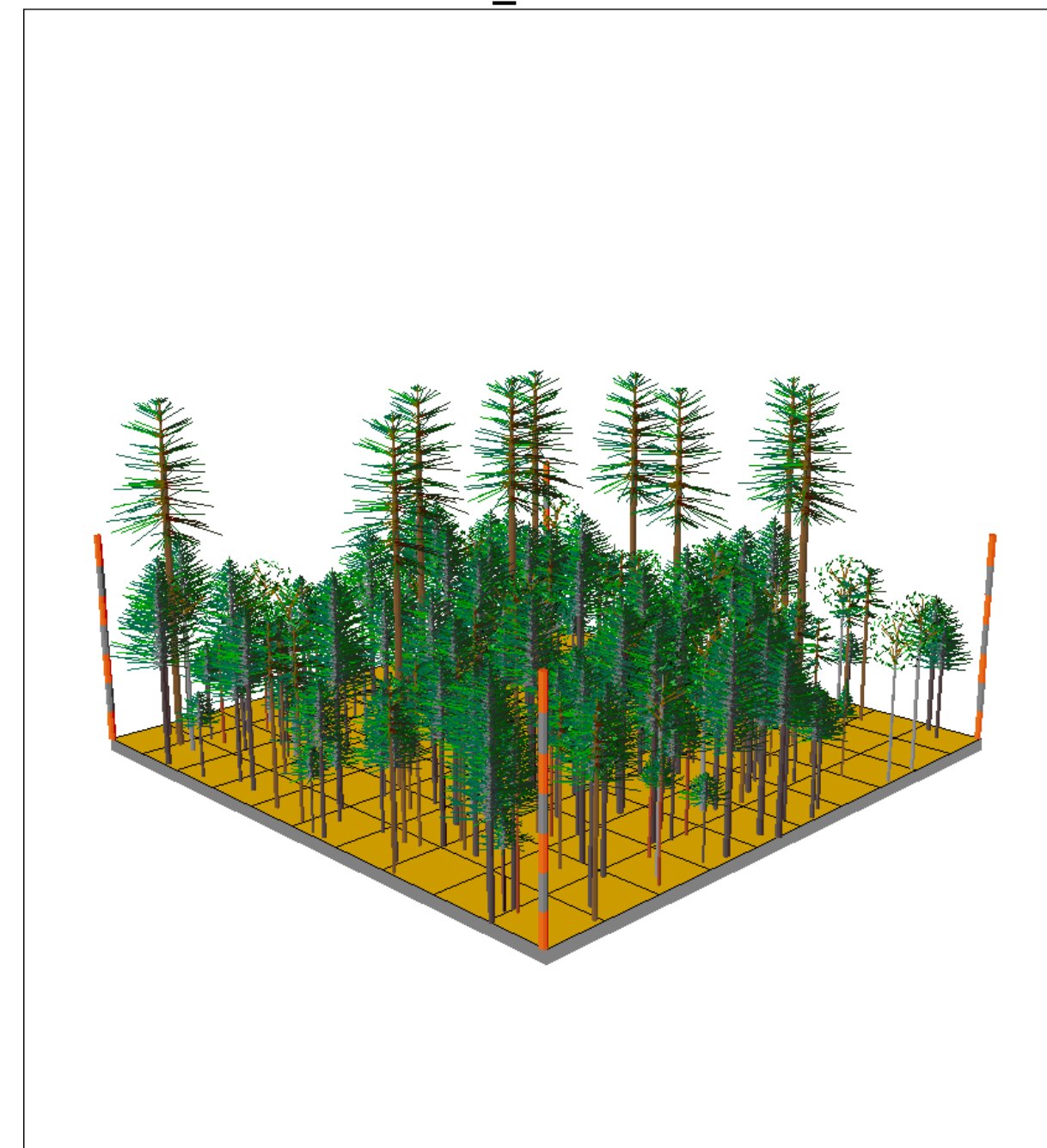


FIG\_1-2010.svs

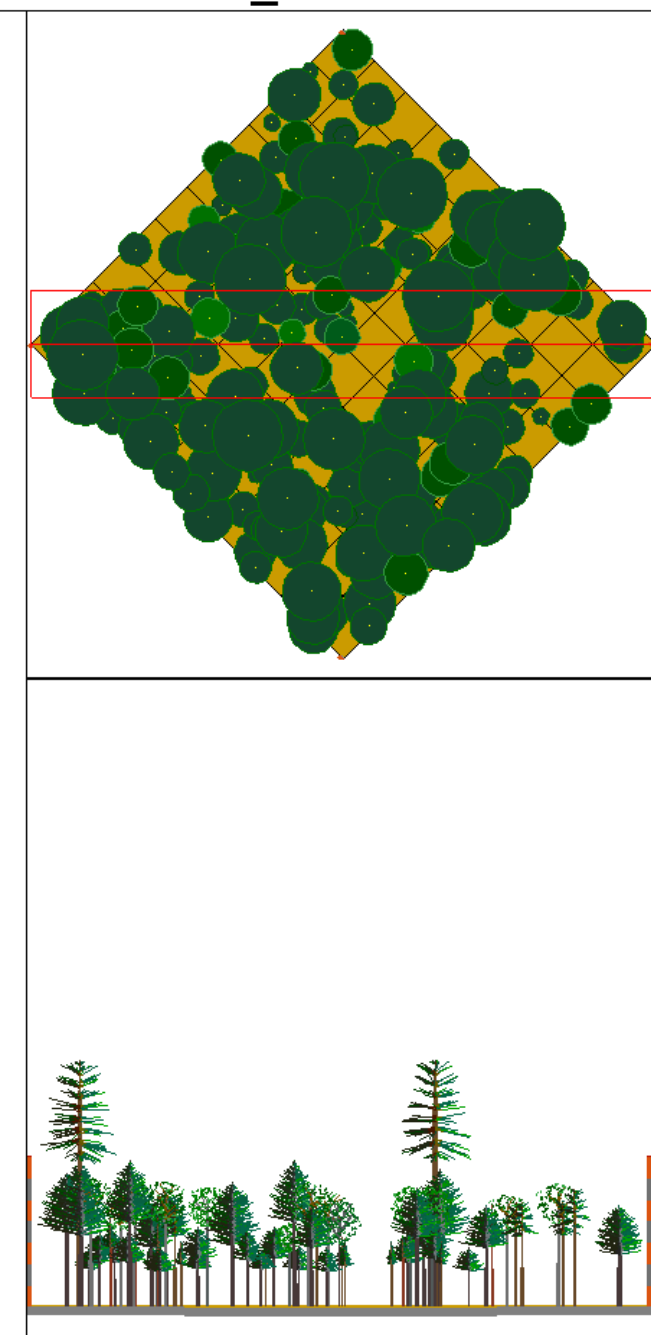


Plot 100 years later

FIG\_1 - 2110



FIG\_1-2110.svs



Special thanks to Cheryl Sleeper, Mr. Evans, Kevin Doran, CREA, and Ken Lausten