

Additional Harvest & Habitat Runs

Questions 5 - 8

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Part 2 Analysis

- Part 2 is a series of analyses to show the sensitivity of harvest volume and structure achievement to:
 - Silvicultural choices
 - Structural targets
 - Landscape level of complex structure

NOTE: This presentation is excerpts from a larger report



Part 2 Analysis

- Results are provided by individual district – Astoria, Forest Grove, and Tillamook
 - Not all analyses are done for every district
- District stand conditions affect the outputs:
 - Astoria: highest sites and most even age distribution
 - Forest Grove: average sites and large percent of stands at or near LYR structure
 - Tillamook: lowest sites, most severe SNC, most expensive road issues, and the largest percent of stand under age 60



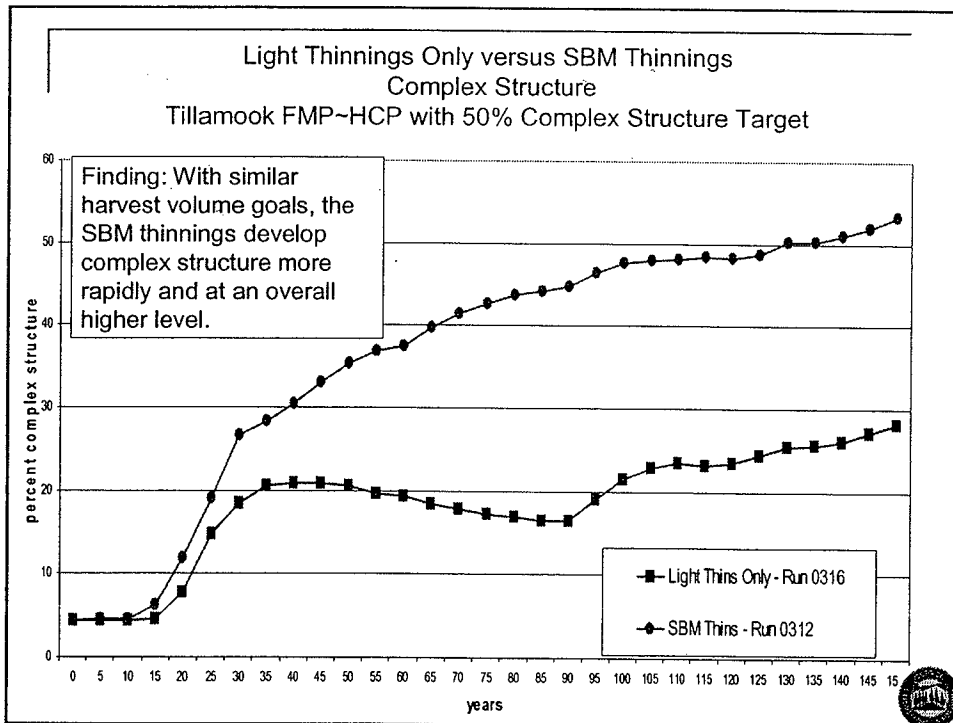
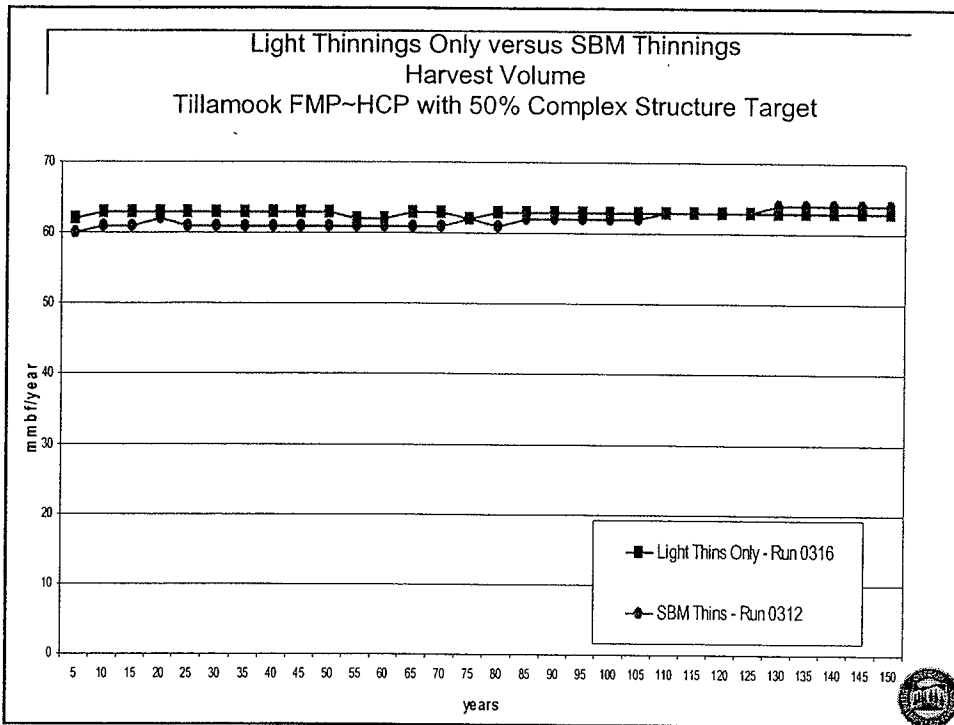
Question 5

How does Structure-based Management and Traditional Stand Management compare with respect to harvest volume and complex structure development?

A new alternative needs to be constructed to explore this. In the meantime.....

- Model used: Tillamook district, FMP~HCP alternative, 50% complex structure target
- Analysis: Compare the potential of SBM and Traditional Stand Management's silvicultural techniques to produce harvest volume and develop complex structure.
 - SBM mgt.: moderate, heavy and light thinnings - some are designed to produce complex structure, some to produce high volume
 - Traditional mgt.: light thinnings only – to produce high volume





Question 6

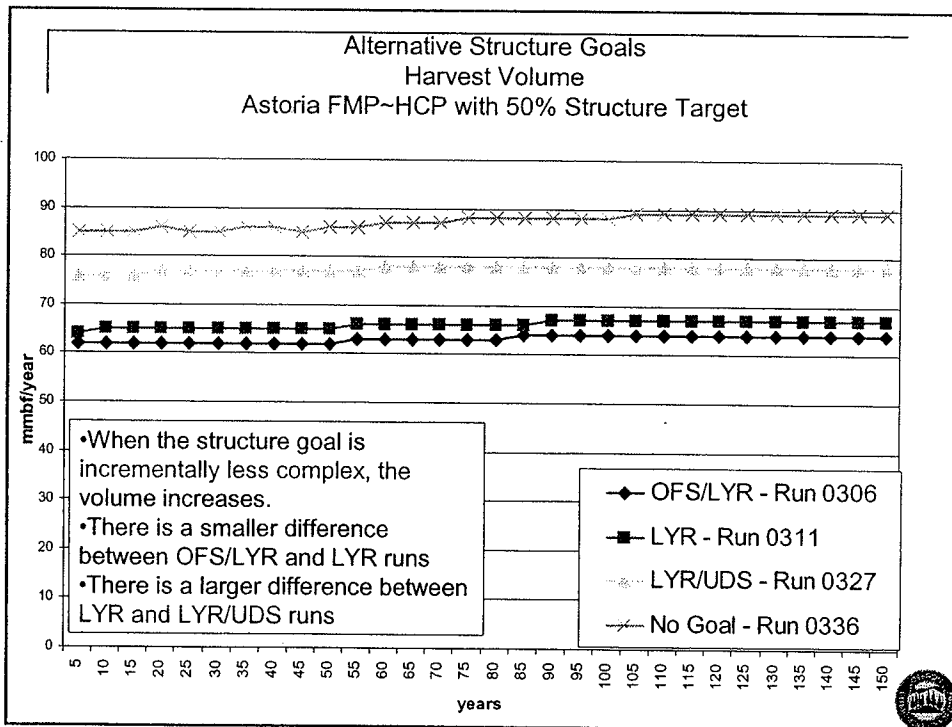
How do the structure requirements affect harvest volume? -
 Start with the current FMP complex structure targets and
 incrementally leave out various structural components

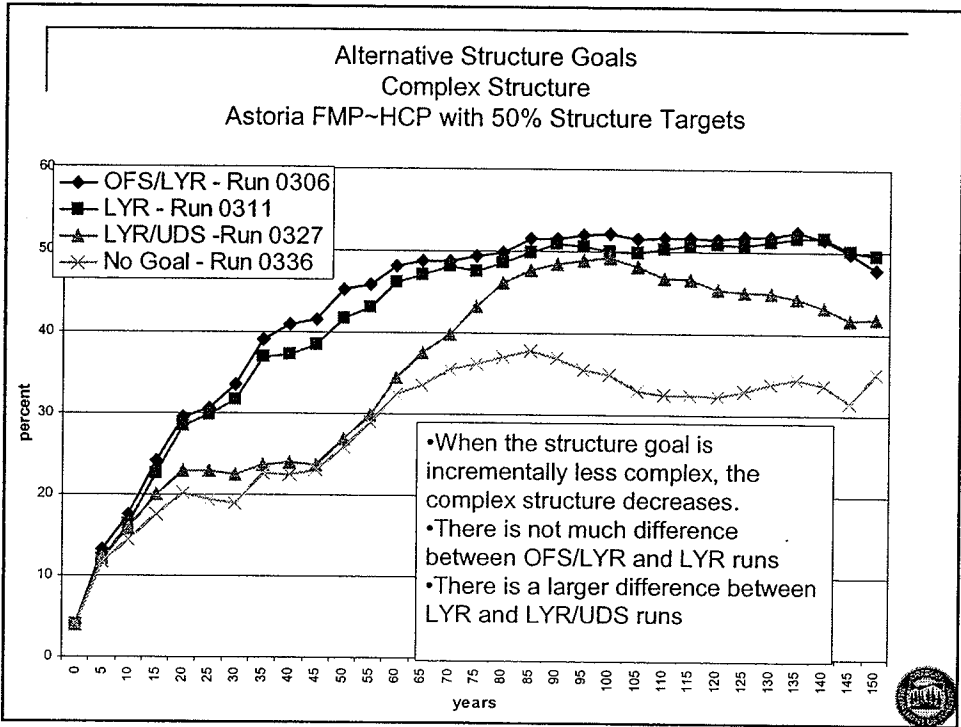
Model used: Astoria, FMP~HCP alternative, 50% complex structure
 target

Analysis: Compare the harvest volume and the achievement of
 complex structure with runs that had incrementally more
 simple structural goals

Four runs:

1. FMP complex structure goal: 25% OFS and 25% LYR
2. Alternative structure goal 1: 50% LYR
3. Alternative structure goal 2: 25% LYR and 25% UDS
4. No structure goal



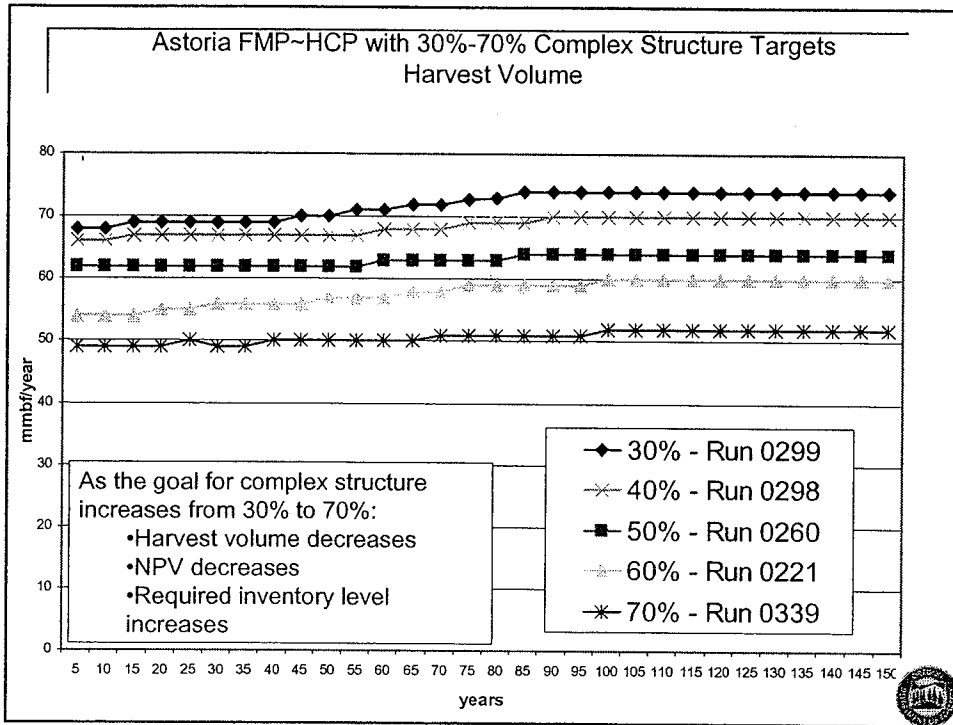


Question 7.1

What are the harvest volume outputs with 30%, 40%, 50%, 60%, and 70% complex structure goals for FMP~HCP?

Model used: Astoria, FMP~HCP alternative

Analysis 7.1: Compare harvest volume, complex structure development and NPV with complex structure targets of 30% - 70%



Question 7.2

What are the harvest volume outputs with 30% complex structure goals for FMP~TA?

Model used: Astoria, Forest Grove, Tillamook, FMP~TA

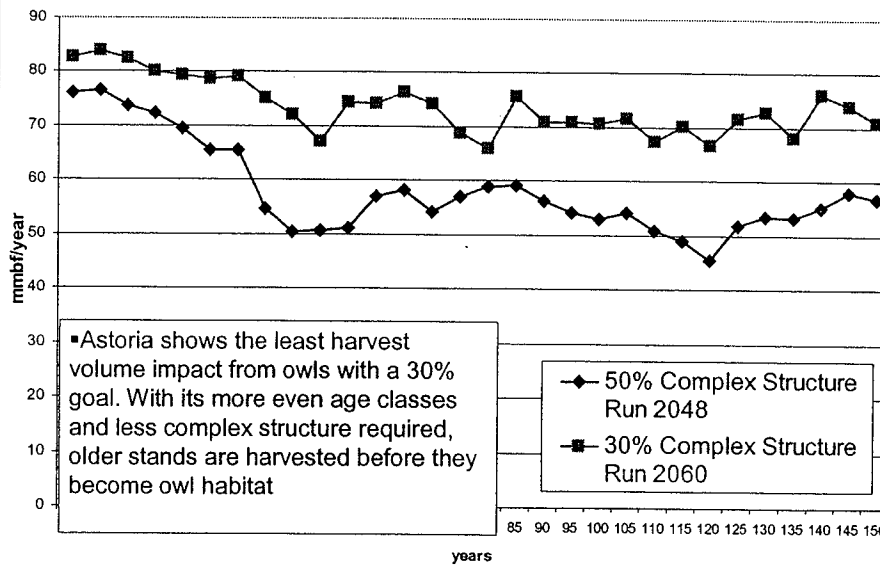
Analysis 7.2: Compare harvest volume with a complex structure target of 30% with the target of 50%

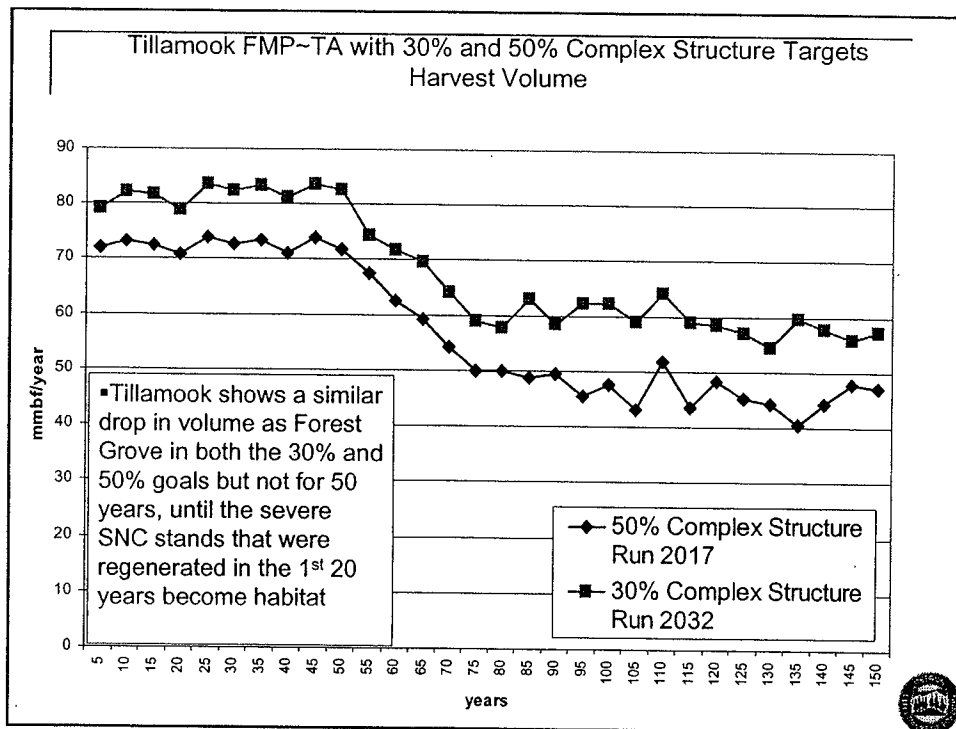
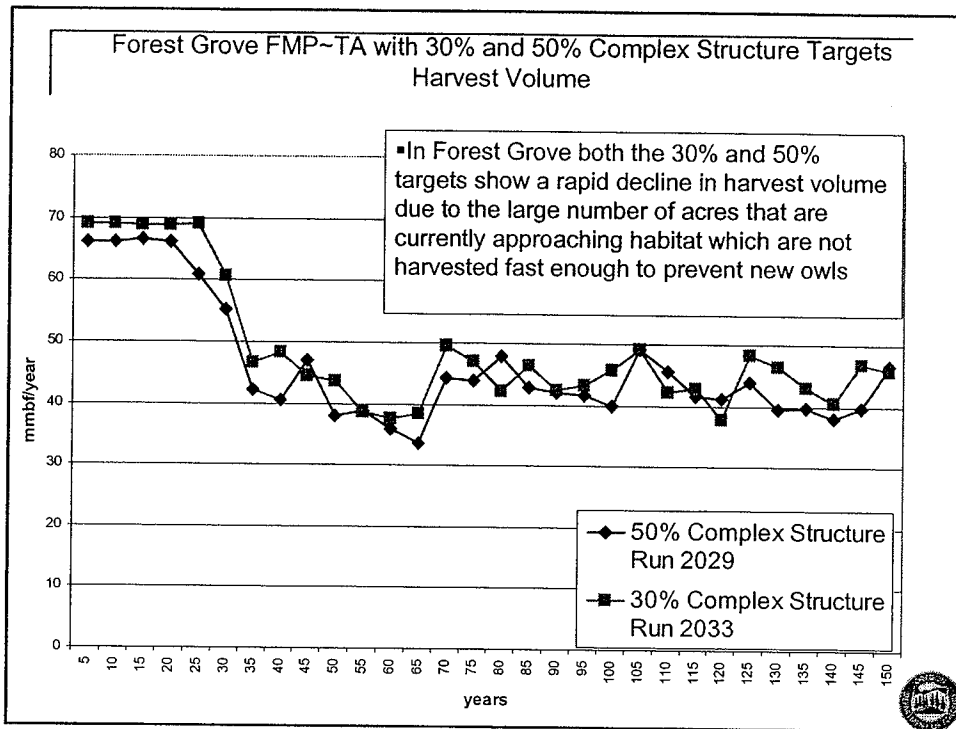
Question 7.2 Finding

- A 30% complex structure target produces more harvest volume but less complex structure over 150 years than a 50% target



Astoria FMP~TA with 30% and 50% Complex Structure Targets
Harvest Volume





Question 8

- Are riparian set asides included in the percent complex structure calculation?
- Answer: Yes
- What log length was used to calculate the volumes in the 2000 models and the H&H project?
- Answer:
 - 2000 model: 32 foot log scale
 - H&H model: 40 foot log scale
 - 32 foot log scale produces approximately 7-9% more volume than 40 foot log scale

