

Extended rotations and net climate benefits?

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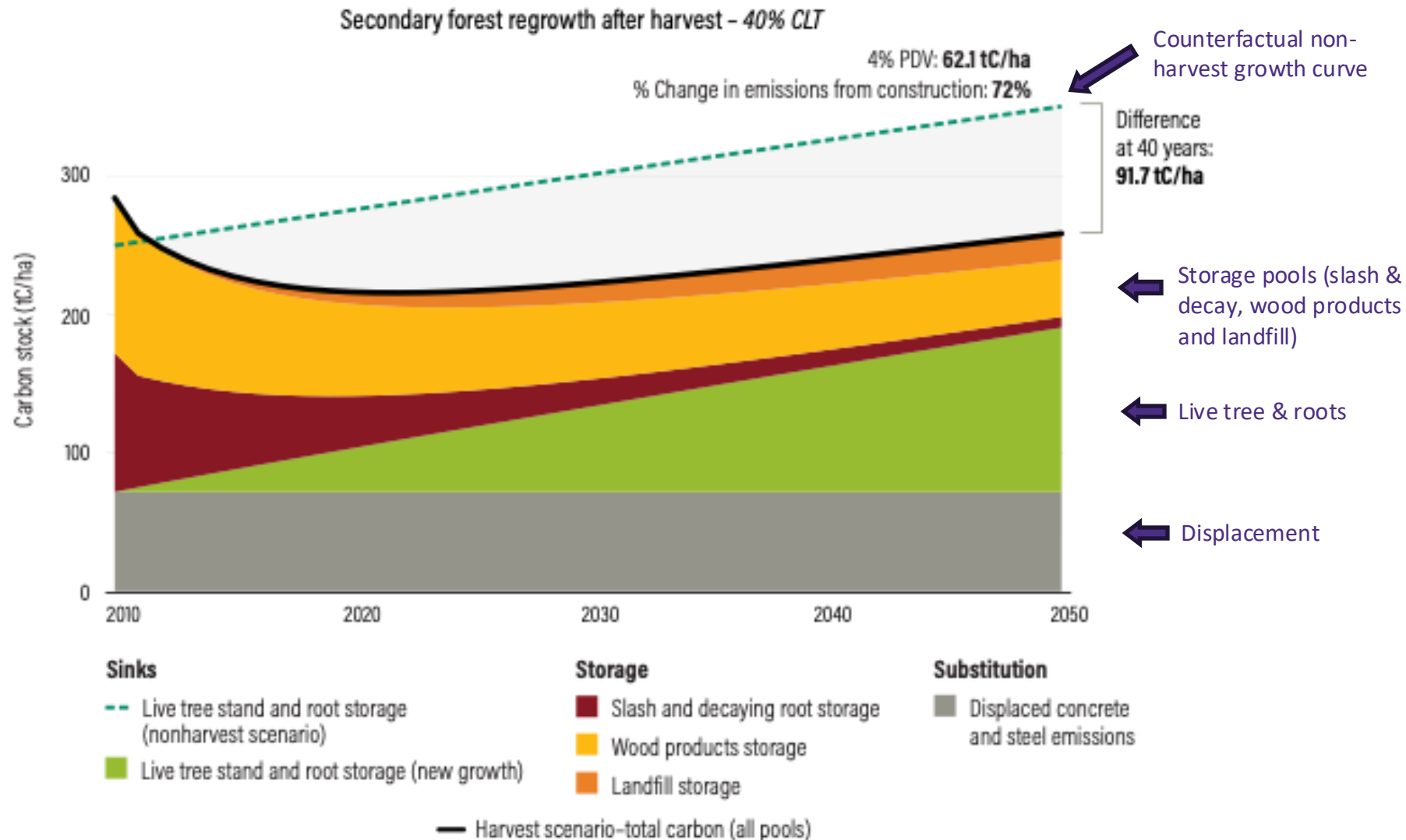


INTRODUCTION II | Goal of this study

- > The resulting recent publication in Nature projected that not harvesting will help sequester an additional 2.6 – 3.2 Gt CO₂-e from the forestry sector globally.
- > Conclusions are used inform policy makers and create public policy.
- > Goal of this study: Understanding published findings and do a reality check
- > Specifically look at WA Douglas fir forests



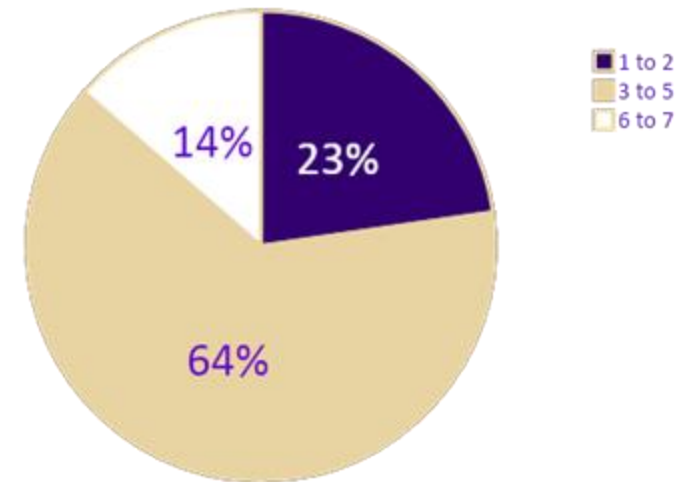
US PNW DOUGLAS FIR EXAMPLE II | high displacement benefit



Reality check for WA Douglas fir forests

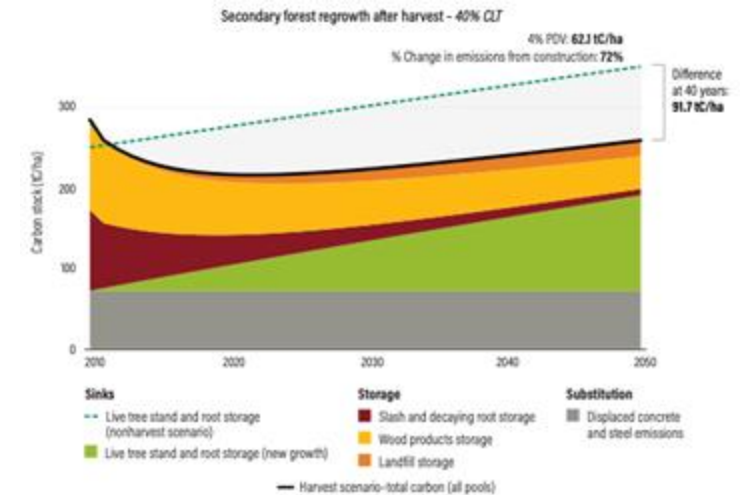
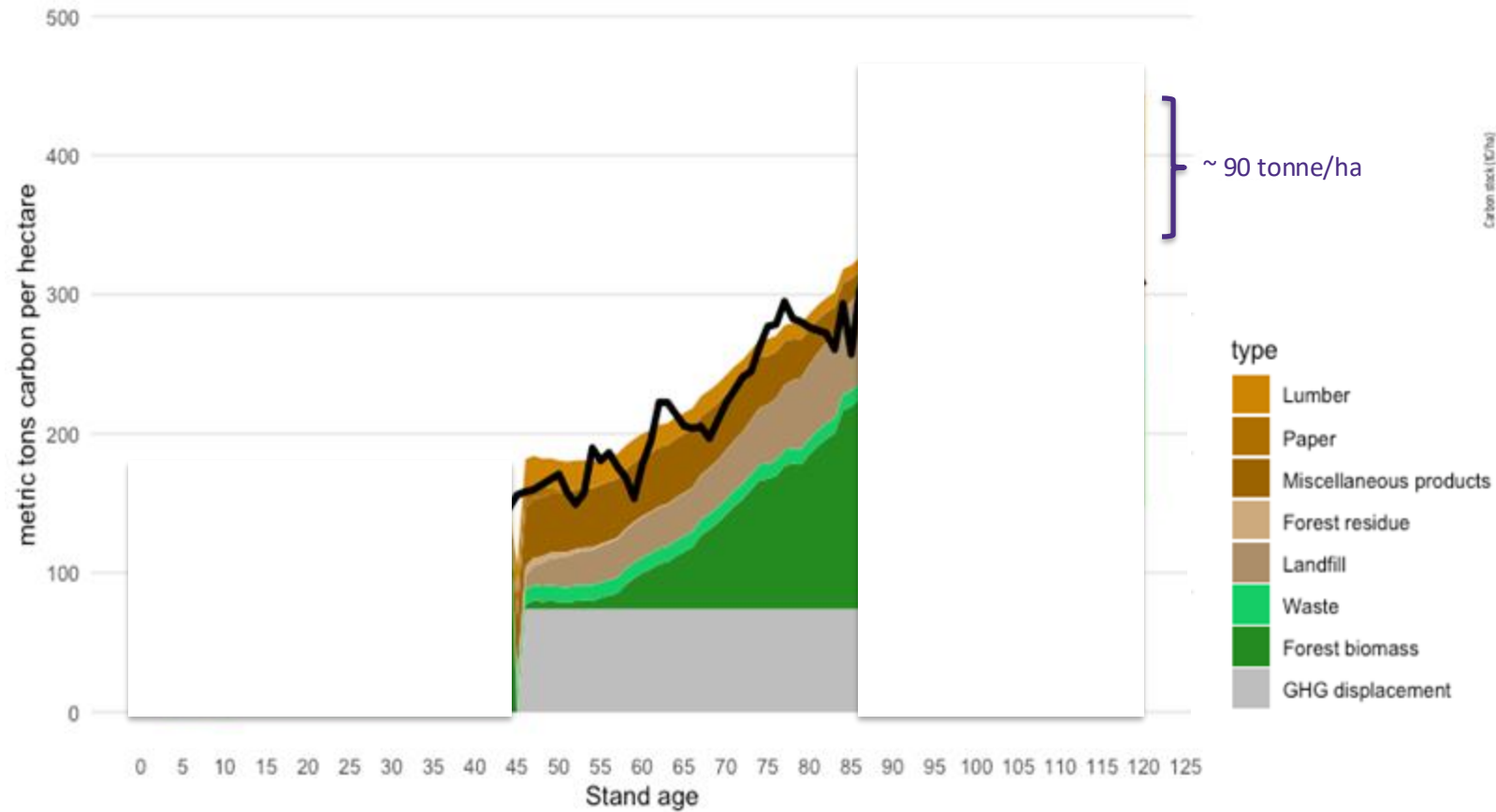
- Percentage long lived wood products vs. short lived wood products/slash piles
 - *WA wood product mix based on Mill Survey*
- Forest regrowth & counterfactual growth
 - *Forest Inventory Analysis data*
- Displacement of fossil intensive non-wood products
 - *Displacement factor study with USDA*
- Douglas Fir Stands, early growth vs late growth distribution

Douglas fir forest site class distribution by area



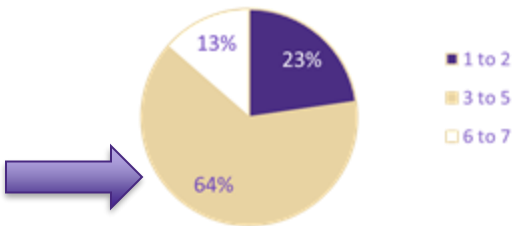
Site class indices 1 to 2

Carbon fluxes in forest biomass and wood products over a period of 120 years with a 45 year rotation age

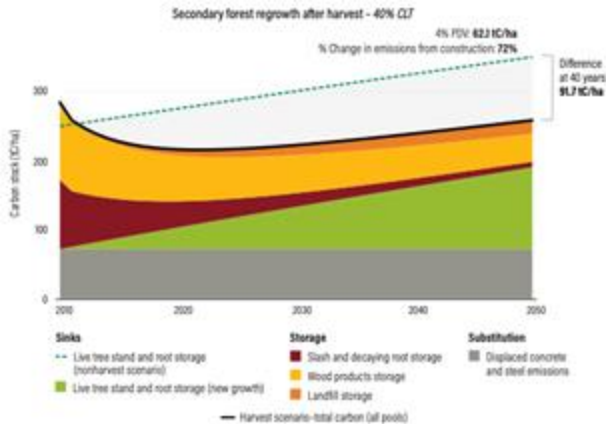
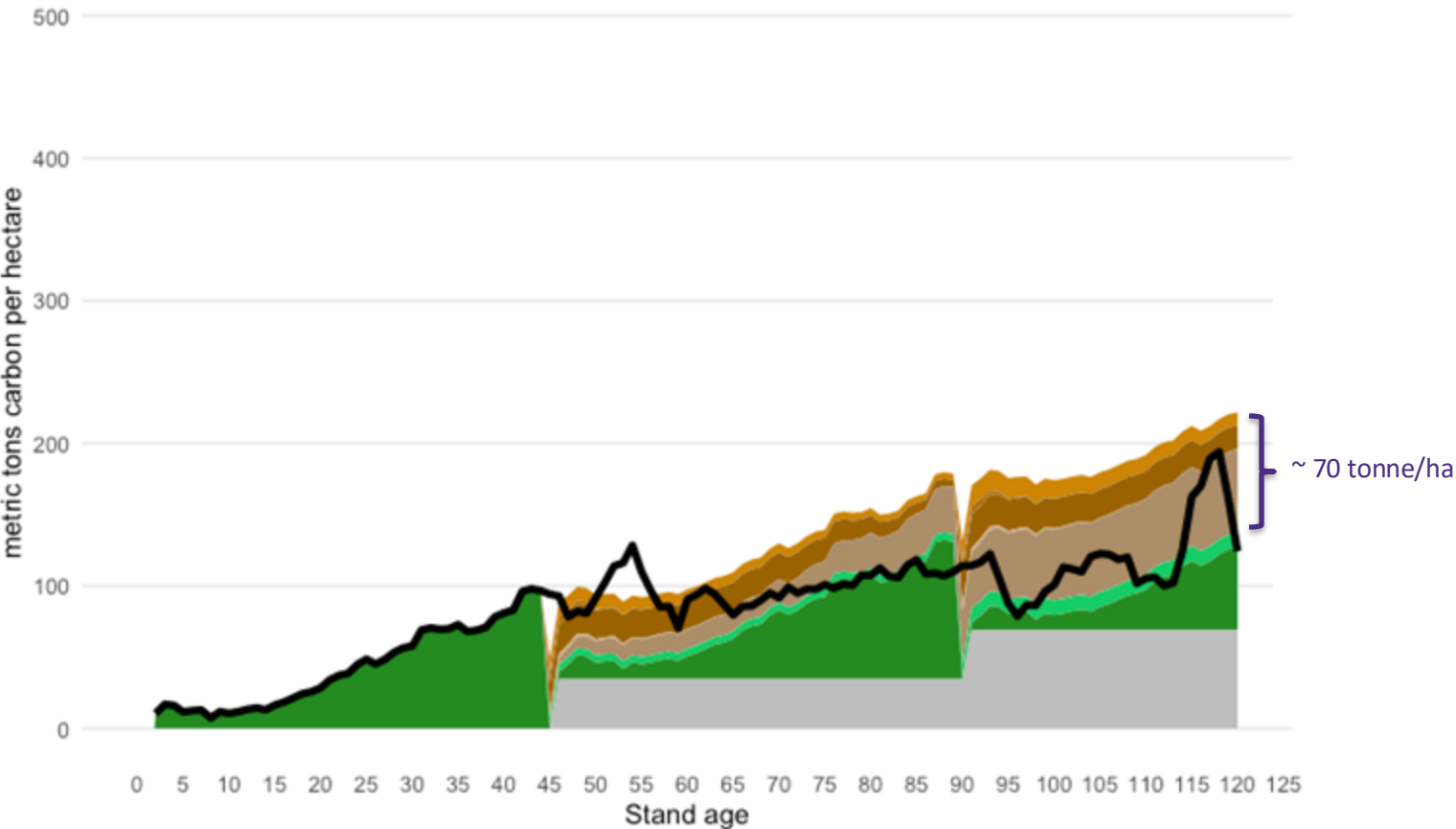


Site class indices 3 to 5

Douglas fir forest site class distribution by area



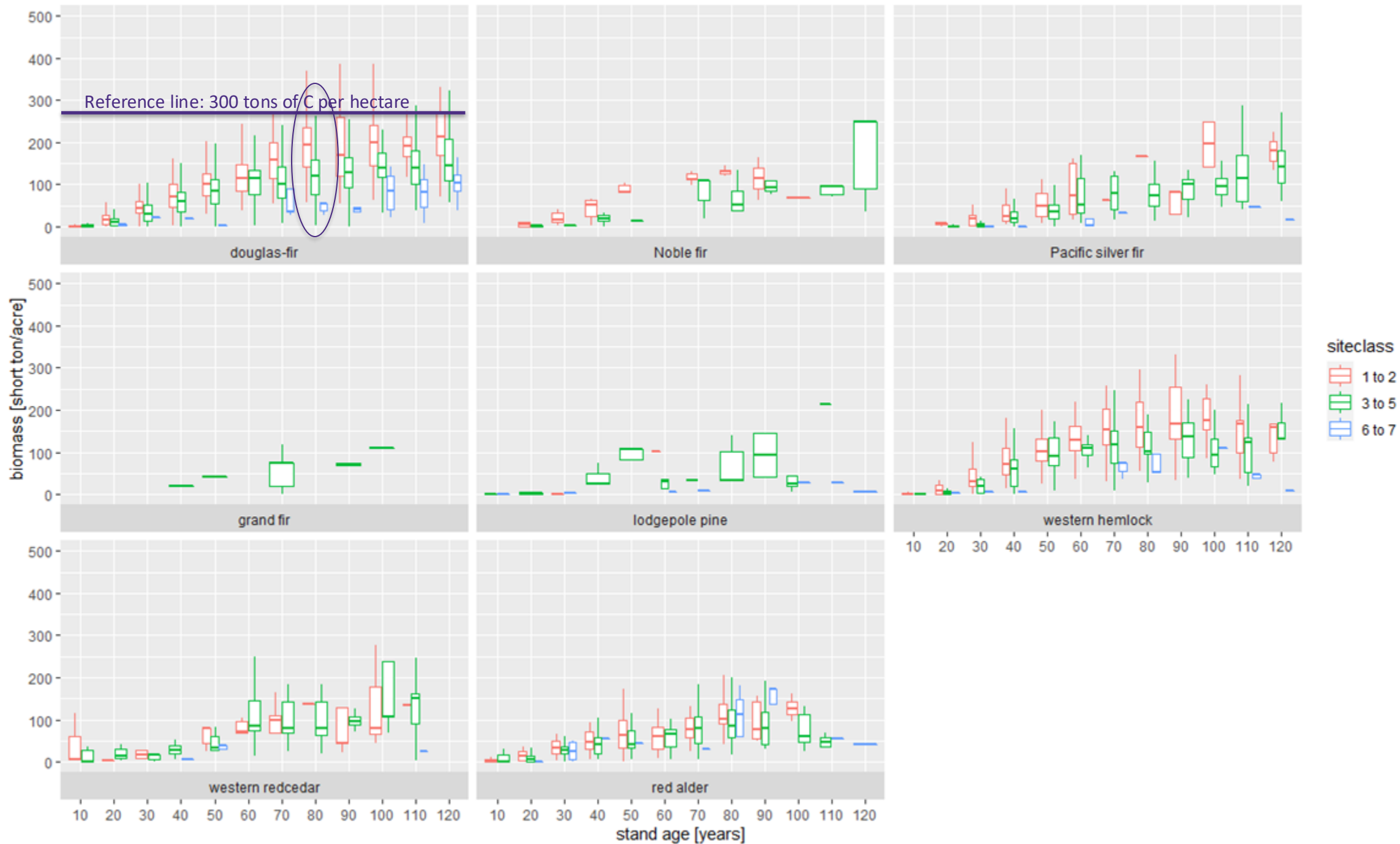
Carbon fluxes in forest biomass and wood products over a period of 120 years with a 45 year rotation age



- type
- Lumber
 - Paper
 - Miscellaneous products
 - Forest residue
 - Landfill
 - Waste
 - Forest biomass
 - GHG displacement



ownership = all



References

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