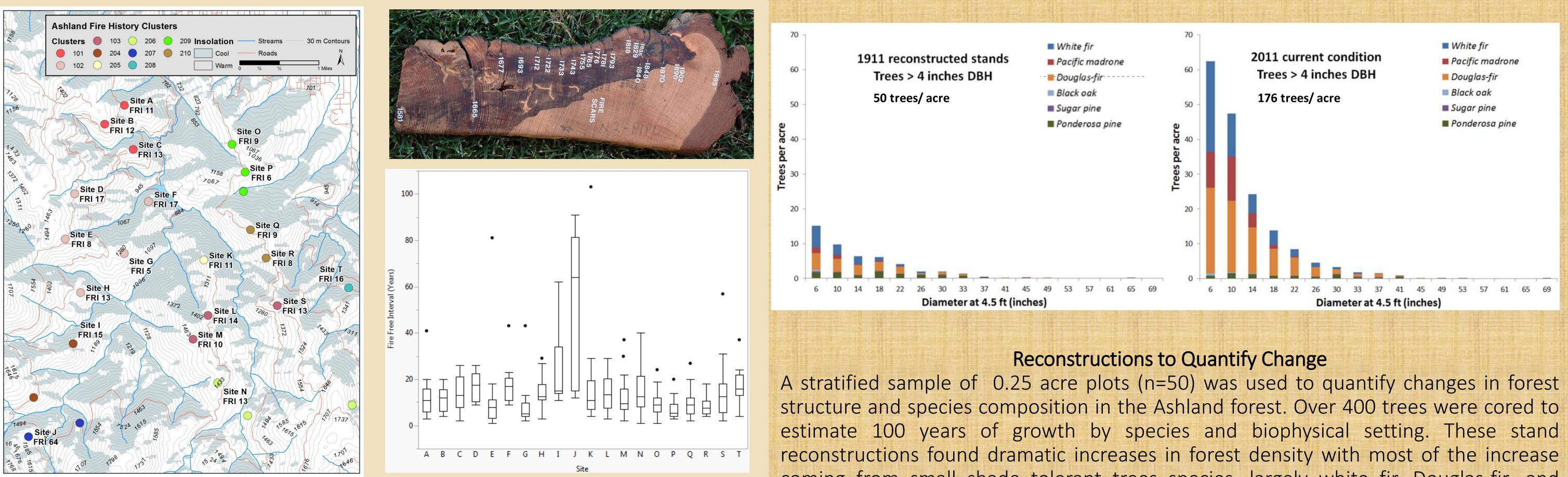


ranging from 1,900-5,000 feet. Fire scars were sampled predominately on dry ridges and midslopes, biophysical settings found across 59% of Rogue Basin dry forests, but fires occurring in these settings have potential to spread widely.

The median fire return interval of fires that scarred at least two trees at a site was 8 Without Fire Forests Have Become Very Dense years, ranging from five to 14 years. Across all sites 90% of the documented fire return In the aerial photo (above) an increase in forest density is apparent in the Ashland intervals fell between two and 28 years, the majority falling between five and 12 years. watershed. Systematic evaluation of these historic aerial photos is warranted.



Historical Fires Were Similarly Frequent in the Ashland Forest In Ashland we crossdated 233 fire scar samples at 20 sites. The median fire return interval of fires scarring more than one tree was 12 years historically, with fire recorded every other year somewhere in the watershed. Two or more sites recorded fire on 51% of those years, though this did not happen after 1911. The results indicate that many of the Rogue Basin forests may have missed from four to 12 fire events.

<u>Restoring fire regimes of southwestern Oregon: density and species</u> torested and scape

Coggins Saddle -1939

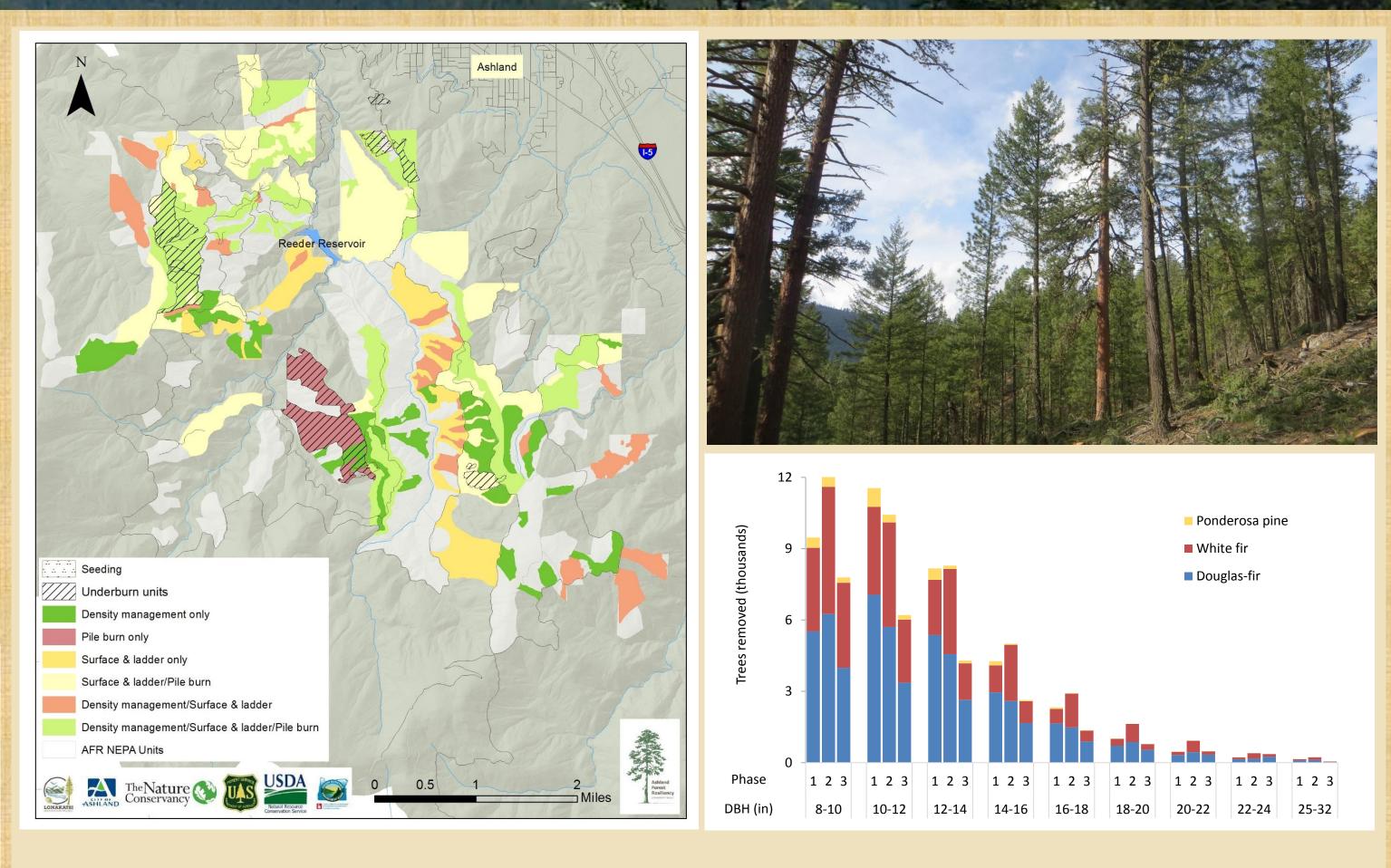
coming from small shade tolerant trees species, largely white fir, Douglas-fir , and pacific madrone.

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Coggins Saddle - 2011



Forest Restoration and Fuel Reduction in the Ashland Watershed

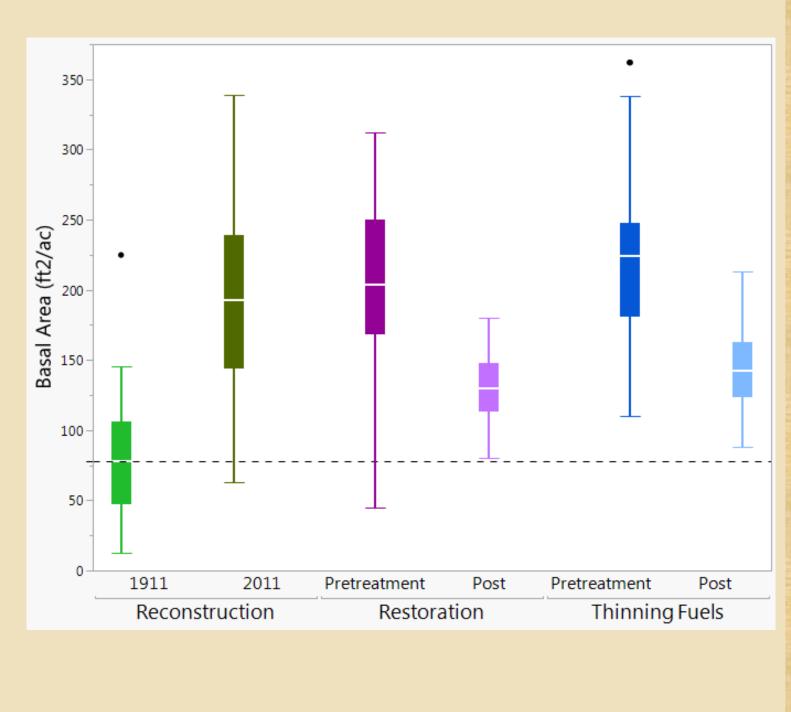
A combination of mechanical non-commercial and commercial fuel reduction treatments as well as controlled burning have been implemented on 5,500 ac todate, with a total of 7,600 ac planned. Most treatments have prioritized maintaining canopy cover and suppressing ladder fuel regrowth. Commercial treatments were implemented on 2,698 ac but open forest restoration was only the focus on 662 ac. When trees are removed that are merchantable, they are sold to local mills and that money is used to do more work for the health of the forest. This work was completed in three phases and each tree to be sold was measured. The majority of trees removed were Douglas-fir and white fir and less than 16 inches at breast height

Historical Density and Forest Restoration

Our stand reconstructions show that basal area of the Ashland forest increased from a median of 78 ft²/acre to nearly 200 ft²/acre. Units selected for restoration and fuels focused thinnings had pretreatment densities comparable to the reconstruction plots. Treatments reduced basal area by more than a third. Interestingly, restoration focused prescriptions result in not did posttreatment densities significantly closer to reference forest densities.

Historical Species Composition and **Forest Restoration**

Forest references showed significantly higher proportions of early seral tree species, such as ponderosa pine and black oak in 1911 than in 2011, and in warm settings than in cool. Even though commercial treatments were largely in warm settings, the proportion of early seral trees remained quite low.



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