

Newsletter August 17, 2015

PNWTIRC

PACIFIC NORTHWEST
TREE IMPROVEMENT RESEARCH COOPERATIVE



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Douglas-fir SNPs

Results from the new Douglas-fir genotyping array are just in... We used the Affymetrix Axiom genotyping array to test 55,776 potential SNPs on 1,420 Douglas-fir trees, and found that ~20K SNPs could be reliably genotyped. The successful SNPs had a median call rate of 99.3% and a median minor allele frequency of 0.215. These results are very encouraging for using these SNPs to practice genomic selection in Douglas-fir. The next steps are to design a detailed genomic selection research plan that complements the current work being done by Keith Jayawickrama as part of the Northwest Advanced Renewables Alliance project.

To read the full report, [click here](#)

Seedlot Selection Tool

Glenn Howe (PNWTIRC) and Brad St.Clair (USFS PNWRS) recently began a collaboration with Dominique Bachelet of the Conservation Biology Institute (CBI) to redesign the Seedlot Selection Tool (SST). Although the former web application was very popular, it was difficult to maintain at OSU. Instead, SST v2.0 will be housed and maintained at CBI. This is an exciting opportunity because of their extensive experience hosting similar web applications via Data Basin (<http://databasin.org/>).



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