

Forest Genetics Council Objective:

By 2020, high-quality genecology research information will guide operationally efficient climate-based seed transfer policy and practice for all trees planted in BC.

The Seed Transfer Technical Advisory Committee was initiated in the fall of 2008 by Council for the purpose of developing priorities in genecology research, vetting project proposals and strategies, providing budget recommendations to the FGC for genecology and seed transfer research, and for raising genecology and seed transfer issues to other Technical Advisory Committees. Discussions on the development of a climate-based seed transfer system is underway. Genecology and seed transfer system research projects funded in 2010-2011 are:

Approved genecology projects and budget amount under the Seed Transfer Subprogram

Species	Project Title	Budget (\$)
Multiple	Development of a climate based seed transfer system for changing climates	\$ 53,508
Sub-alpine fir	Patterns in frost, heat, and drought response of <i>Abies lasiocarpa</i> and <i>Abies amabilis</i> populations from a range of climates	\$ 6,300
Multiple	Patterns in frost, heat, and drought response of <i>Abies lasiocarpa</i> and <i>Abies amabilis</i> populations from a range of climates	\$ 38,745
Coastal Douglas-fir	Seed transfer study in the coastal Douglas-fir sub-maritime zone: final measurements	\$ 23,730
Lodgepole pine	Assessment of lodgepole pine provenance variation for Mountain Pine Beetle and secondary bark beetle attacks	\$ 20,771
Western Larch & redcedar	Climatic response of western redcedar and western larch seed source using controlled climate chambers	\$ 42,219
Int. spruce	Interior spruce seed transfer and assisted migration	\$ 51,200
Multiple	Assessment of off site tree plantations in the Northern Interior Forest Region	\$ 38,325
Int. redcedar	Western red cedar interior climate change and seed transfer study	\$ 5,400
Int. Douglas-fir	Trinity Valley range-wide Douglas-fir provenance test: 35 year maintenance and measurement	\$ 10,000
Western hemlock	Refining western hemlock seed transfer to optimize productivity for seed sources based on genecology trial results	\$ 32,625
Western Larch	Lamb Creek range-wide western larch provenance test: 20 year maintenance and measurement	\$ 8,000
Aspen	Genecology of Aspen in British Columbia	\$ 24,000
Sub-alpine fir	EP0824 - Provenance Studies of Subalpine Fir	\$ 18,000
Multiple	Quantifying impacts of climate change on forest health of BC indigenous tree species	\$ 3,000
Paper birch	Provenance test variation for paper birch in the interior of British Columbia for the development of transfer functions for a Climate Based Seed transfer system	\$ 20,950
Pacific silver fir	EP0824 - Provenance Studies of Pacific Silver Fir	\$ 14,000
Coastal Douglas-fir	Coevolution of ectomycorrhizal fungal communities with local provenances of coastal Douglas -fir and the implications for assisted migration	\$ 11,900
Black cottonwood	Black Cottonwood genecology study	\$ 12,000
Grand fir	EP0823 - Provenance Studies of Grand Fir	\$ 1,000
TOTAL		\$ 435,673