

**FFT Genetic Resource Management Program
2018-2019 NeSMA Approved Projects**

NeSMA 2018-1

Project	Jack pine genetic test establishment
Approved Funding:	\$51,201
Description:	This is “phase 3” of an ongoing project in which five jack pine seed source testing sites were established. These sites will test 225 different seed sources selected for their potential to replace existing sources as the climate changes. In this phase, seedlings from the selected seed sources will be sorted out of cold storage and labelled with their unique selection numbers. They will be randomized according to the test design and be planted on the testing sites. All of the test tree locations within the tests will be mapped and entered into the database.

NeSMA 2018-2

Project	Black Spruce Genetic Test Establishment
Approved Funding:	\$49,508
Description:	2018/19 Phase 1 – Source a number of seed suitable for the changing climate scenarios consistent with the scientific advice provided to NeSMA. Locate 10 suitable 1 hectare sites. These sites will test approximately 144 different seed sources selected for their potential to replace existing sources as the climate changes.

NeSMA 2018-3

Project	White pine test management
Approved Funding:	\$17,899
Description:	Height and condition measurements at the Gurd Township White Pine test . The primary purpose of the work is to determine individual and family tree breeding values so that future cone collections can focus on those trees producing seed with the greatest genetic gain. The test will be thinned based on the data analysis resulting from the measurement.