FFT Genetic Resource Manangement Program
2017-2018 SWTIA Approved Projects

SWTIA 2017-1

Project	Second-generation Grafting Project 2017-18
Approved Funding:	$28,318
Description:	This project is proposing to add grafted stock from elite selections towards filling three, second-generation clonal seed orchards located in the Dryden area. The project consists of 1) collecting scions (branch tips) from elite selections in the field, 2) prepare root stock, 3) graft scions on to root stock and grow and 4) plant grafted stock into clonal seed orchard. The clonal orchards support three breeding zones, 1) Wabigoon black spruce breeding zone, 2) English River jack pine breeding zone and 3) Lac Seul black spruce breeding zones.

SWTIA 2017-2

Project	Lake Nipigon East (LNE) Dragonfly Lake Rogueing Project 2017-18
Approved Funding:	$30,058
Description:	This project is proposing to rogue the Lake Nipigon East (LNE) breeding zone, first-generation Dragonfly Lake black spruce seedling seed orchard to retain trees ranked in the top 25% based on individual breeding values (IBV). The rogueing of the Dragonfly Lake orchard will enable the orchard to produce genetically-improved seed for use in tree planting operations on Crown land in the Nipigon and Kenogami forests within the LNE breeding zone.

SWTIA 2017-3

Project	Dryden 4300 Rugby Rogueing Project 2017-18
Approved Funding:	$30,000
Description:	This project is proposing to rogue the Dryden 4300 first-generation Rugby white spruce clonal seed orchard to retain trees ranked in the top 50% based on parental breeding values (PBV). The rogueing of the Rugby clonal orchard will enable the orchard to produce genetically-improved seed for use in tree planting operations on Crown land within the Dryden 4300 breeding zone.

SWTIA 2017-4

Project	Red Lake White Spruce Analysis Project 2017-18
Approved Funding:	$6,000
Description:	This project is proposing to analyse height data that was collected in 2016 from three progeny tests in the Red Lake 3300 white spruce breeding zone program to guide selection and estimate genetic gains in the program. A quantitative geneticist will be contracted to conduct the analysis following the Ontario data analysis protocols for tree improvement and estimating genetic gain.