Western Redcedar

Multiple Trait Breeding Population (MTBP)

- Four subpopulations
 - volume; CLB; deer; heartwood;
 - 30 to 40 selections/subpopulation;
- Further testing to refine subpopulations for selection
 - F1 GH testing for monoterpenes (volume/CLB/deer)
 - Clonal field testing for growth/deer/CLB; early selection
 - Screening for Didy/Trunca (NB and in-vitro) (David Noshad)
 - Genomic selection for htwd extractives (UPP GBC/GAPP GC)



Western Redcedar – Achievements 2019/20

Breeding:

- Start of series C 2nd generation families
- Updating Control crosses

Maintenance/measurements

- Finished Px 7 measurements (7 sites)
- 4 deer trials GAPP

Analysis

- Px 6 snow press analysis in support of CBST
- Px 6 initial analysis for BV15

CEDaR GC GAPP Genomics Project

- Phenotyped foliar chemistry for entire Target population (2,900 trees)
- Developed GS model and selected 120 trees









Western Redcedar – Planned Activities

FY 20/21 planned activities

Maintenance/measurements

- Px (growth/CLB): Series 5 two maritime sites (Holberg and Sandcut)
- Measure 2 second gen F1 family trials (series B) – 5 yr measurements
- Measure 4 second gen clonal trials (series Y) – 5 yr measurements

Establishment

 2 clonal trials – second part of last set of deer/clb/growth clonal trials – trials already fenced, planting to begin shortly

CLB Inoculations/clonal screening

CEDaR GC GAPP Genomics Project

- Continue refining GS model
- Detailed phenotyping for browse resistance









Budget – SPU 2

Item	Growth	Forest Health
Breeding	16,000	15,500
2 nd gen – Series B measurements	10,000	-
2 nd gen – Series X measurements	12,500	12,500
1st gen – Px 5 final measurements	20,000	20,000
Contribution to pathologist contract	-	47,500
GAPP phenotyping	-	20,000
Technical support (nursery workers at CLRS, technician)	70,750	70,750
Travel	8,000	2,000
Materials and Supplies	5,000	5,000
TOTAL	142,250	193,250
	335,500	

Yellow Cypress - Achievements

FY 19/20 main activities

- Measured 2 provenance trials for 20 year measurements (Jordan River High & Jordan River Low)
- Collected first seed crop from pilot orchard; seed testing being done by TSC







Yellow Cypress – Planned Activities

- Measure 2-3 Yc Provenance trials (Adam, Eve, Misty)
- Induce Yc pilot orchard for additional round; perform more intensive pollen management
- Continue and improve irrigation structure in map 33, re-graft where needed
- OTIP hedge scale down



Budget – SPU 11

Item	Growth	Forest Health
Measure 2 provenance trials – 21 years	25,000	-
Technical support (nursery workers at CLRS, technician)	16,000	-
Travel	2,000	-
Materials and Supplies	1,000	-
TOTAL	44,000	-

