

SPU # 32 **Interior Lodgepole Pine** **East Kootenay** **800 - 1500m**
 Breeding and orchard production

Program category: First-generation

Seedling need (million): 2.6

filename: 32 Pli EK low Sept 2017.xlsx

STRATEGY

Selected parents from > 1000m in wild stands in the Thompson Okanagan and Nelson seed zones. Selected parents from higher elevation open-pollinated progeny tests in the TO and NE used to establish an open-pollinated seed orchards. Establish series of OP progeny tests in the SPU to confirm breeding values.

TRAITS

Primary: Stem volume **Secondary: Wood density**

TESTING AND PRODUCTION

Production Year (July 1 to June 30) -- (Cone harvest year shown)

'17 '18 '19 '20 '21 '22 '23 '24 '25 '26 '27 '28 '29 '30 '31 '32 '33 '34 '35 '36

Parents in progeny test:

- Open pollin.
- Polycross
- Clonal
- F1
- F2
- F3

Test populations used for selection are derived from Nelson and Thompson Okanagan progeny tests

Production forecast (million plantables)

Orchards (#, owner)

340 FLNRO (Bailey) 0.6 0.6 0.7 0.7 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9

Vegetative prod.:

Phase 1

Phase 2

Estimated gain in primary trait

Orchards

340 FLNRO (Bailey) 10% 11% 11% 11% 11% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12%

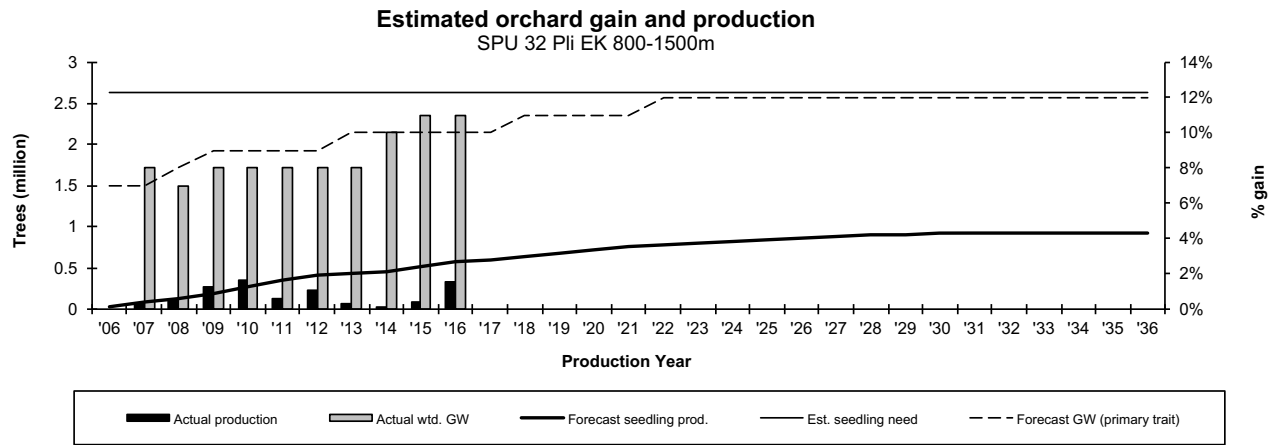
Vegetative prod.:

Phase 1

Phase 2

Total Production 0.6 0.6 0.7 0.7 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9

Total gain 10% 11% 11% 11% 11% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12%



The above forecasts are based on orchard status, seed inventories and seed use as of June, the year of publication, and are subject to change. Refer to the seed Planning and Registry System (SPAR) or contact the orchard manager for current seed inventories. Contact the Forest Improvement and Research Mgt. Branch, Ministry of Forests, Lands, Natural Resource Operations and Rural Development, to confirm data if used for silviculture or timber-supply planning.

