

**SPU # 43**      **Interior Douglas-fir**      **Cariboo Transition**      **600 - 1400m**

**Breeding and Orchard Production**

Adjusted for new Parent Tree Area of use. Previously 600-1300m

**Seedling need (million): 1.1**

**Program category: First-generation**

filename: 43 Fdi CT low July 12, 2015

**STRATEGY**      Parent-tree selection from wild stands in the CT zone. Open-pollinated progeny tests of selected parents. Focus on stem volume while maintaining wood density. Best parents based on progeny-test performance selected for seed orchards.

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

**TESTING AND PRODUCTION**      **Production Year (July 1 to June 30) -- (Cone harvest year shown)**

| Parents in progeny test: | '15 | '16 | '17 | '18 | '19 | '20 | '21 | '22 | '23 | '24 | '25 | '26 | '27 | '28 | '29 | '30 | '31 | '32 | '33 | '34 |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Open pollin.             | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 | 221 |
| Polycross                |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Clonal                   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| F1                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| F2                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| F3                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Production forecast (million plantables)**

| Orchards (#, owner) | '15 | '16 | '17 | '18 | '19 | '20 | '21 | '22 | '23 | '24 | '25 | '26 | '27 | '28 | '29 | '30 | '31 | '32 | '33 | '34 |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 231 VSOC (Vernon)   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

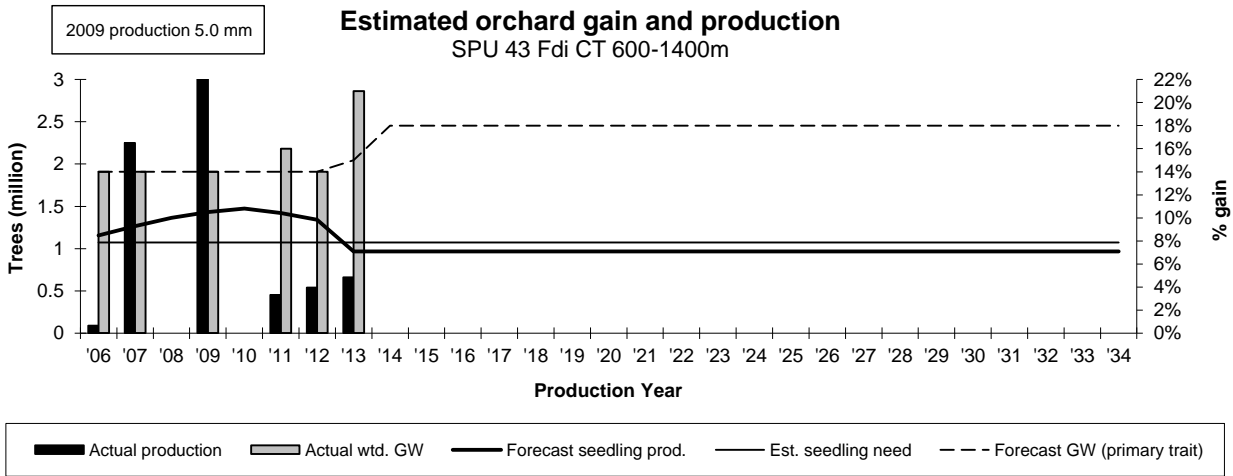
**Vegetative prod.:**  
Phase 1  
Phase 2

**Estimated gain in primary trait**

| Orchards (#, owner) | '15 | '16 | '17 | '18 | '19 | '20 | '21 | '22 | '23 | '24 | '25 | '26 | '27 | '28 | '29 | '30 | '31 | '32 | '33 | '34 |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 231 VSOC (Vernon)   | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% |

**Vegetative prod.:**  
Phase 1  
Phase 2

|                         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Total Production</b> | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| <b>Total gain</b>       | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% | 18% |



Seed production estimates are subject to change. When using this information for silviculture planning or timber supply analysis, contact the Tree Improvement Branch of the Ministry of Forests Lands and Natural Resource Operations to confirm data. See SeedMap on [www.for.gov.bc.ca/hti/seedmap](http://www.for.gov.bc.ca/hti/seedmap) for current inventory by Seed Planning Unit

