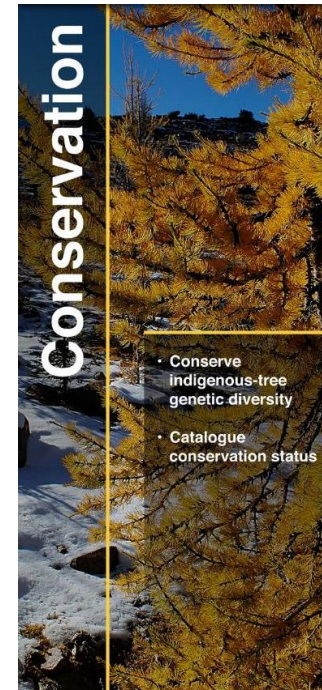
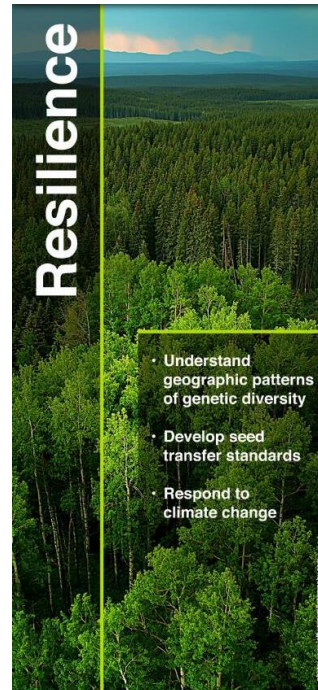




Forest Genetics Council
of British Columbia

Interior Technical Advisory Committee (ITAC) Extension Meeting

Vernon Lodge
Feb 5-6, 2019



Thank you to our ITAC Sponsors



In Memoriam



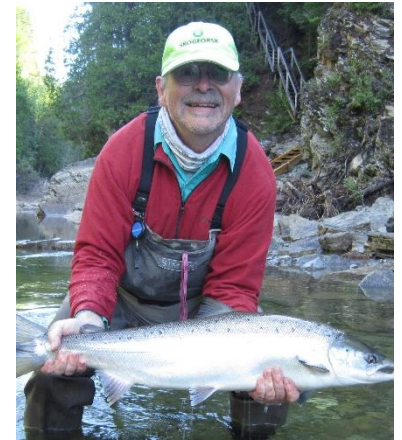
John Ogg
Grower
Cowichan Lake
1957-2018



Heather Rooke
Manager,
Tree Seed Centre
1954-2018



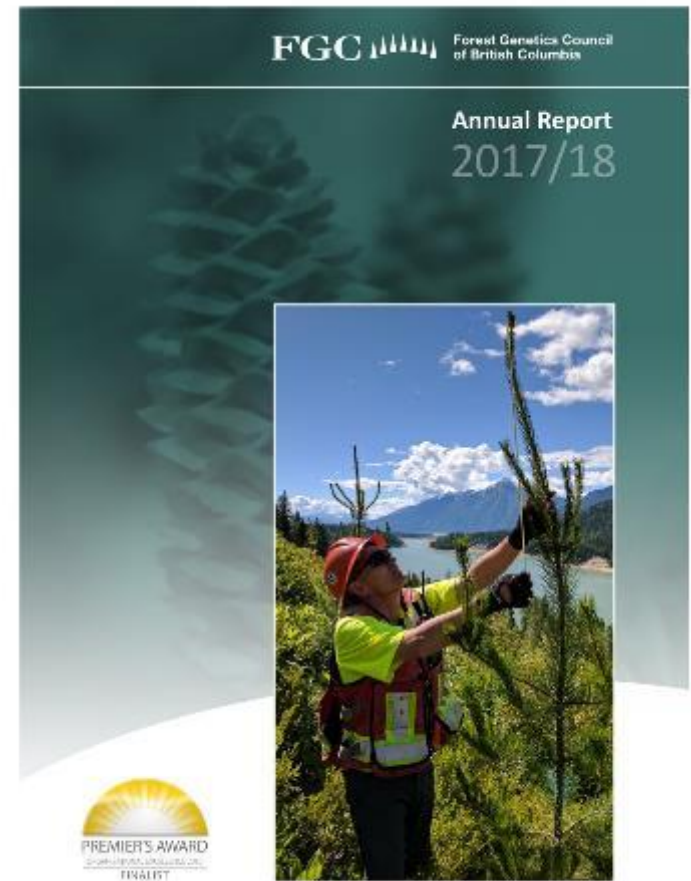
Dr. John Russell
Res. Scientist
Cowichan Lake
1955-2018



Jim Corrigan
Pest Mgmt Specialist
Vernon
195X-2019

FGC Update - Overview

1. Members
2. Current Topics
3. Select Seed Co. Ltd.
4. FGC Seed Use Goals and Performance Measures
5. Species Plans
6. 2018 Orchard Cone Crop



FGC Members - Departures



L-R: Domenico Iannidinardo, Pat Martin (Co-chairs),
Scott King, Mark Tamas, Joe LeBlanc, and Brian Barber

Dr. Rob Guy – UBC



New FGC Members

Bill Laing, RFT, Conifex, – Interior Seed User Rep

Bob Johnson, RPF, Capacity Forest Mgmt, – Coastal Seed User Rep

Bevin Wigmore, RPBio, TimberWest - Coast Seed Producer

Dr. Jürgen Ehling, UVic Dept of Forest Biology - Academic Rep

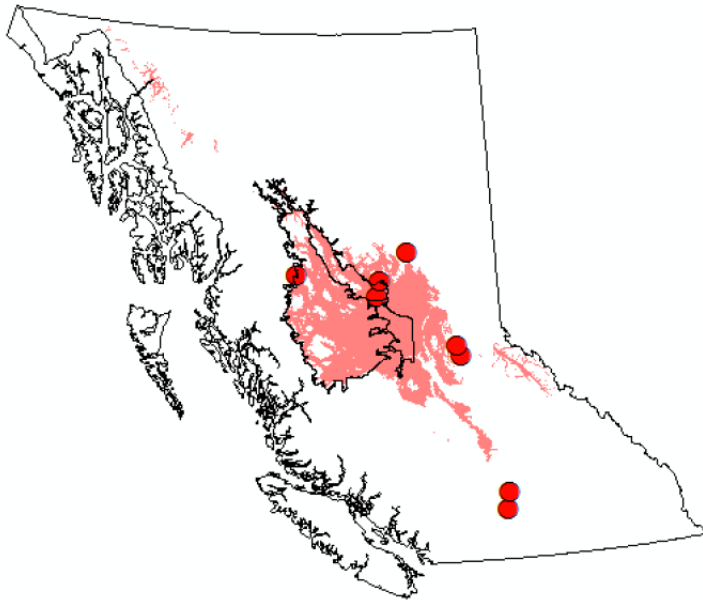


Current FGC Topics and Initiatives

1. Implementation of Climate-based seed transfer
2. Budget Planning
3. Communications Strategy
4. Future Seed Needs and Orchard Requirements
5. SelectSeed Business Case for new Pli Orchards



Pli Seed and Orchard Needs

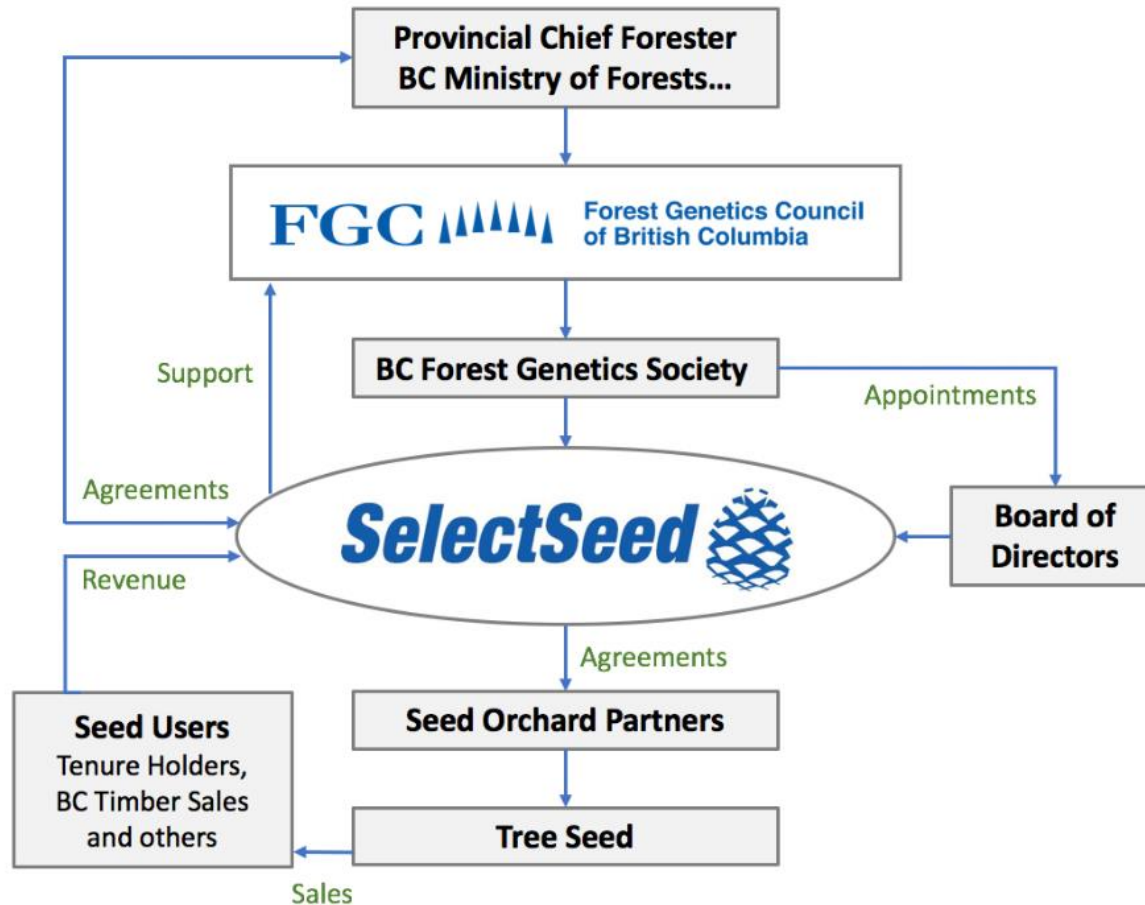


Historic (2014-2018) demand = 50,472 million						
Per-ramet "seedling" production						
% historic						
planting	1000	1200	1400	1600	1800	
100%	66	55	47	41	36	
90%	59	49	42	37	33	
80%	52	44	37	33	29	
70%	46	38	33	29	26	
60%	39	33	28	25	22	
50%	33	27	23	21	18	

Area and # Orchard Ramets (000s) Estimated for
proposed new “Bulkley Valley” zone

Map: Nick Ukrainetz Table: Jack Woods

Select Seed Co. Ltd owned by FGC





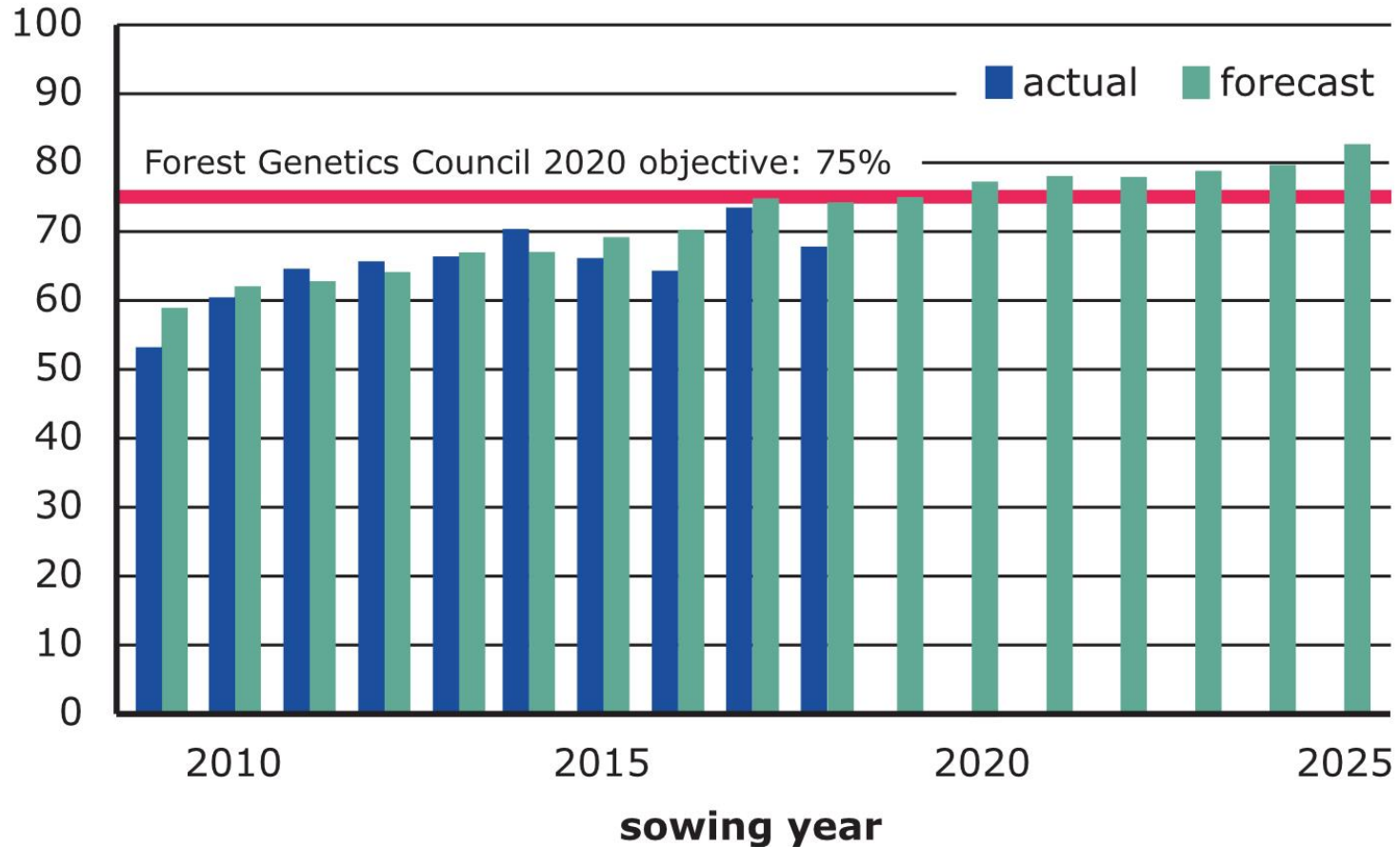
Board of Directors

Henry Benskin
Reid Carter
Jim Burbee
Kerry McGourlick
Rod Willis



Thank you dinner for Glen Dunsworth, Director
1999-2018

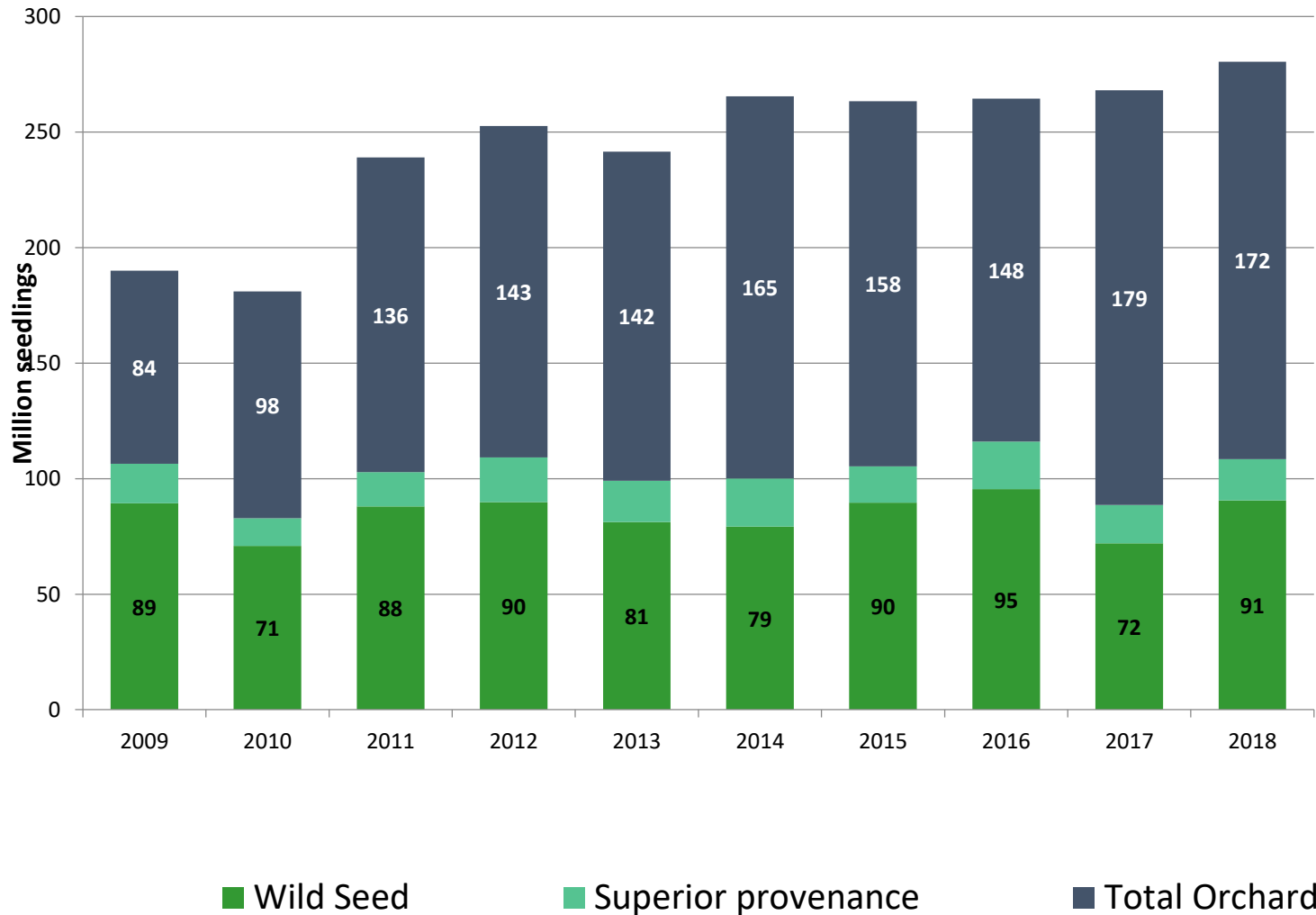
Actual and forecast select seed use in BC (2009-2025)



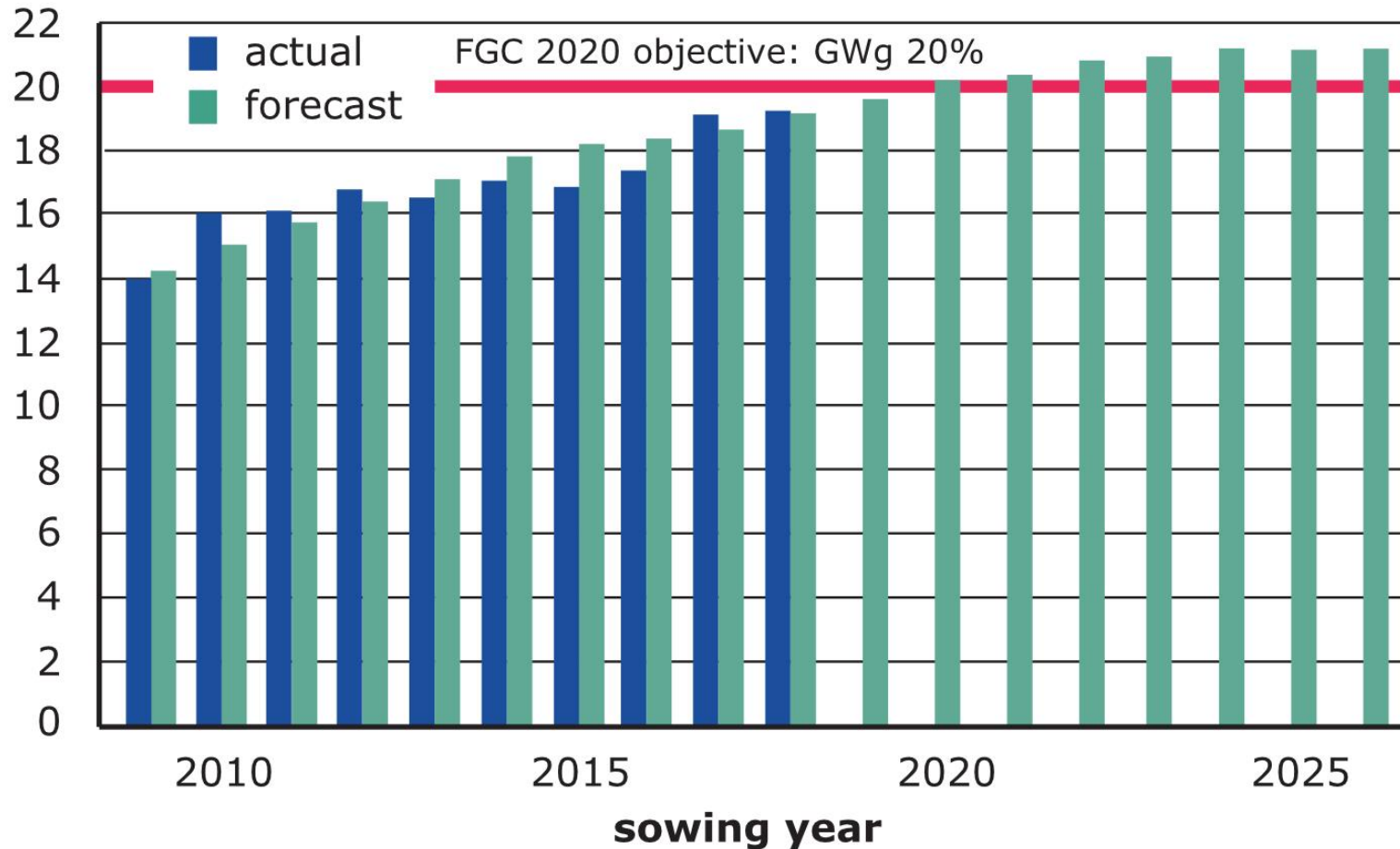
2017 = 73.1 %

2018 = 67.7 %

Sowing by Genetic Class

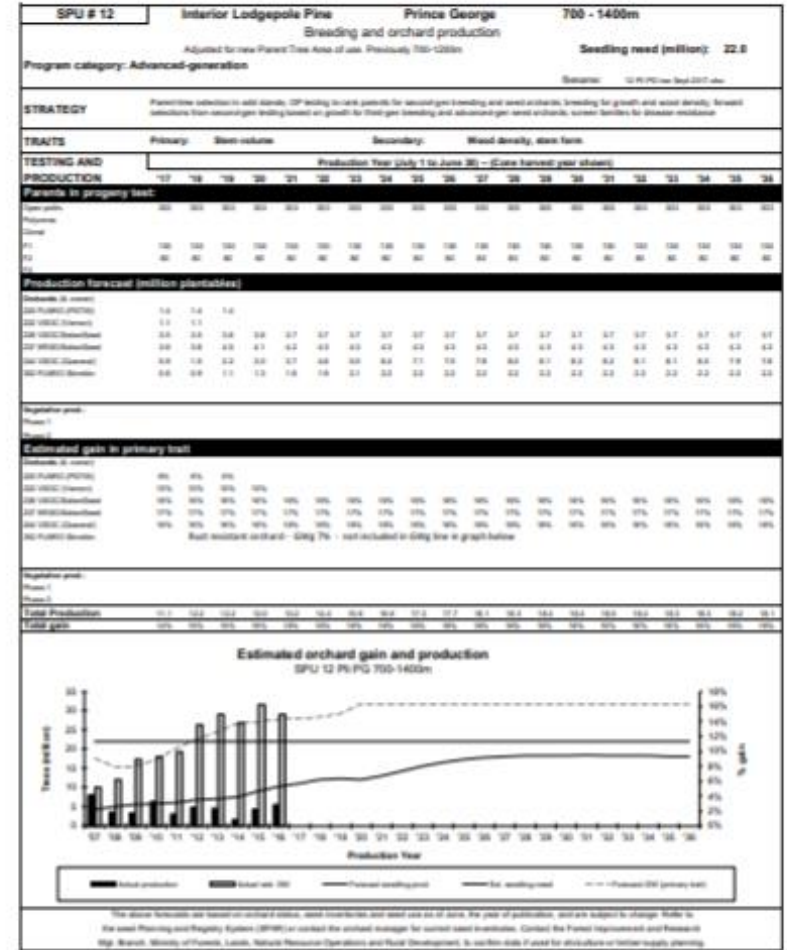
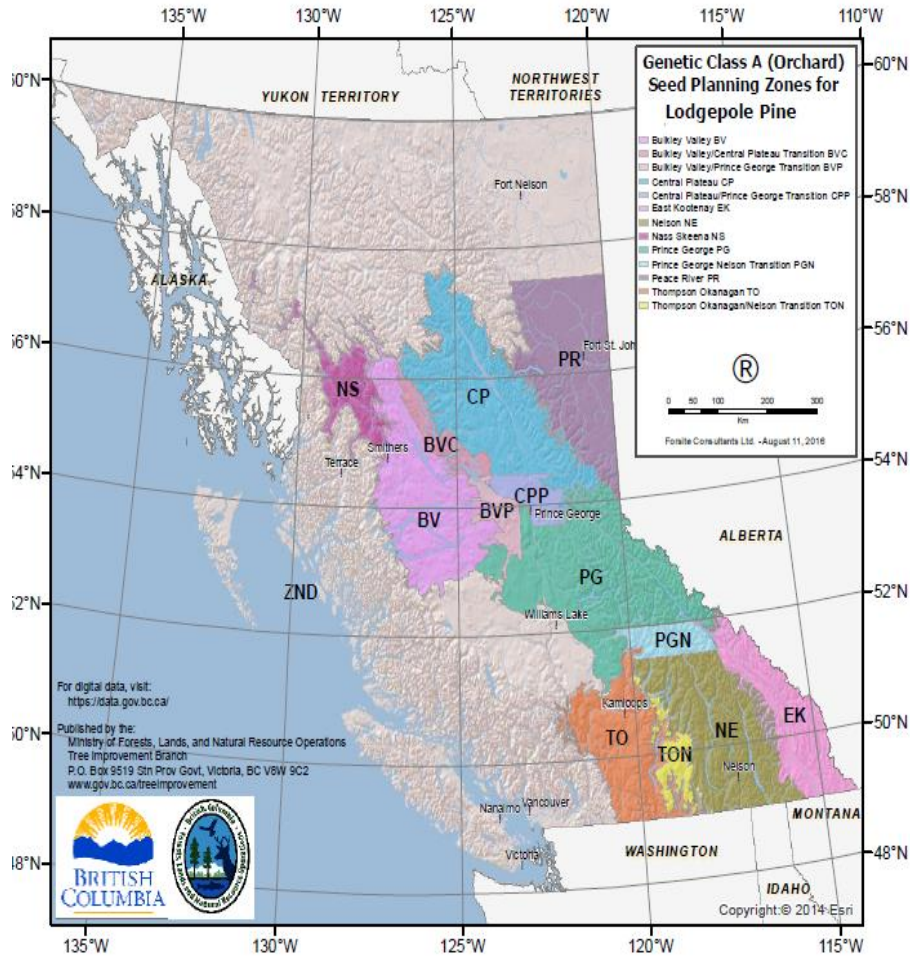


Actual and forecast GWg of orchard seed (2006-2023)



2017 & 2018 = 19.1 %

Species Plans



2018 Seed Orchard Crop Updates



Bumper Fdi and Sx crops



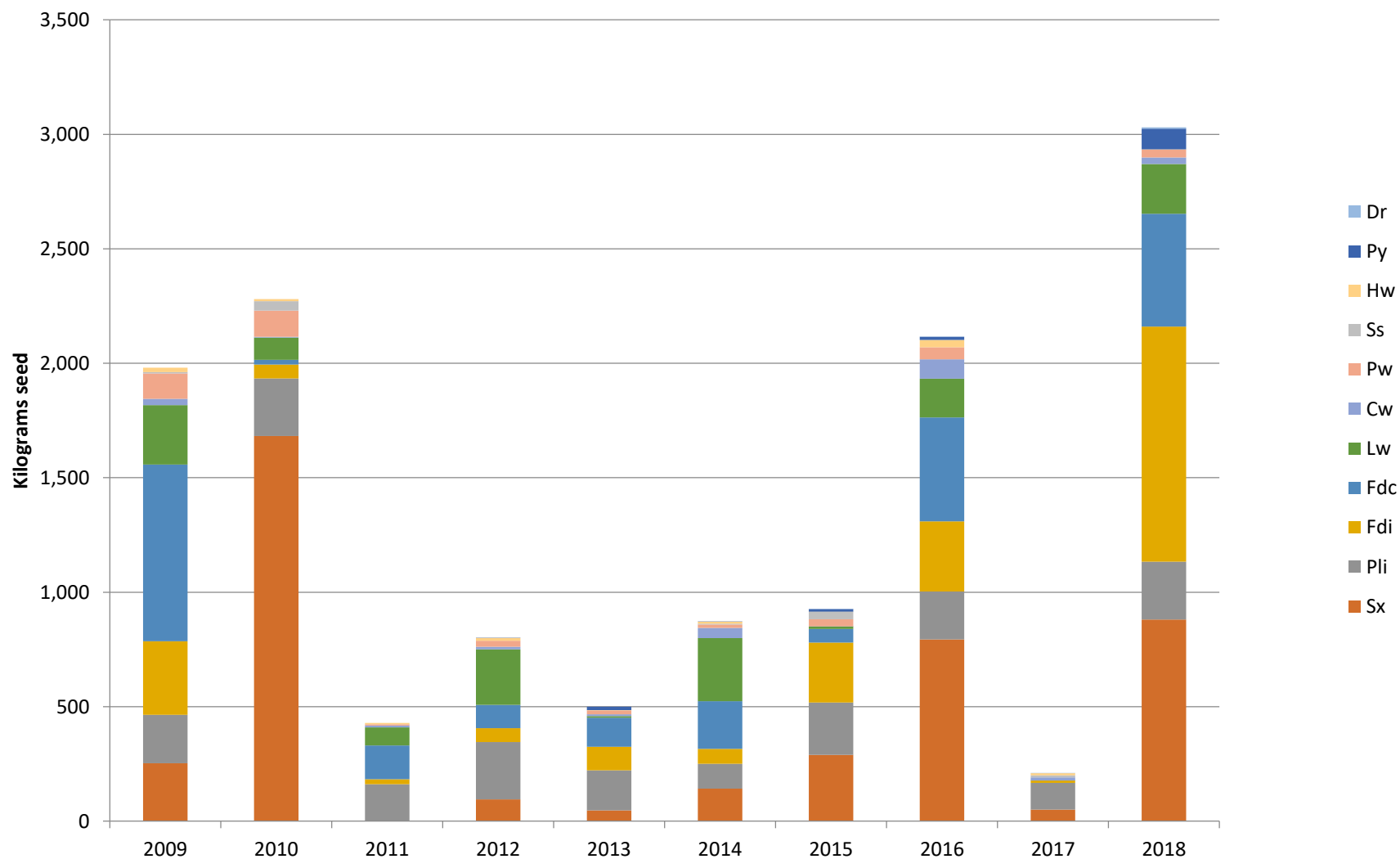
Fdi = 1,026 kg (43 million seedlings)
Sx = 880 kg (155 million seedlings)

2018 Seed Orchard Crop

Actual Hectoliters, Some Kg & Seedlings estimated

Species	Hectolitres	Kilograms	Seedlings (mm)
Cw	55.52	28.32	7.16
Dr	4.60	5.98	2.87
Hw	1.03	0.90	0.22
Fdc	1,440.80	492.84	22.28
Fdi	1,108.20	1,026.84	43.10
Lw	344.21	216.51	23.48
Pli	810.36	253.44	36.49
Pw	85.00	35.19	1.13
Py	112.00	89.60	1.08
Sx	981.61	880.56	155.47
total	4,943.33	3,030.18	293.27

Orchard seed production in kilograms by species and year



Chief Forester Seed Use Guidance

August 10, 2018

Management of seed inventories

- 1. Seed owners should **review** their **seed inventories** and reassess their seed needs in light of the 2017 wildfires and the new climate-based seed transfer (CBST) seed use areas.
- 2. Sellers of orchard seed (Class A) and superior provenance seed (Class B+) should **make seed available** to satisfy current sowing needs. Where supply is limited, the **stockpiling** of large reserves of select seed is **discouraged**.
- 3. Seed deemed **surplus** should be **identified** as such on the ministry's Seed Planning and Registry system (**SPAR**) so that others may access and use it

CF Guidance (con't)

- Letter from Diane Nicholls, RPF
- Advice provided by the Forest Genetics Council
- Response to 2017 and 2018 Wildfires
- Limited seed supplies – esp. Class A
- All parties encourage to optimize seed use



CF Guidance (con't)

Reforestation planning, strategies and assessments

- 4. Where the supply of orchard **seed is limited**, its **use** should be prioritized to the **most productive sites** on the timber harvesting land-base.
- 5. Where seed supplies are limited, avoid direct seeding.
- 6. To support planning and assessment, the ministry will continue to update forest inventories and refine the estimates of denuded areas requiring reforestation.

CF Guidance (con't)

7. With various partners, the ministry will continue to monitor seed supply and demand and undertake seed supply and demand forecasts that consider the potential impact of CBST.

8. **Co-ordinated reforestation plans** and landscape-level reforestation strategies should be developed to **optimize the use of seed** by the various reforestation programs operating in wildfire-affected areas. Seed production and acquisition

CF Guidance (con't)

Seed Production

9. Orchard managers should **defer roguing orchards** in those cases where this activity will reduce critical seed production in the short-term.

10. **Wild stand seed collections** should be undertaken **where seed shortages** have been determined, guided by **CBST** considerations.

11. The ministry will continue resourcing BC's tree improvement program and existing orchards to sustain seed production, and consider orchard improvements and expansions.

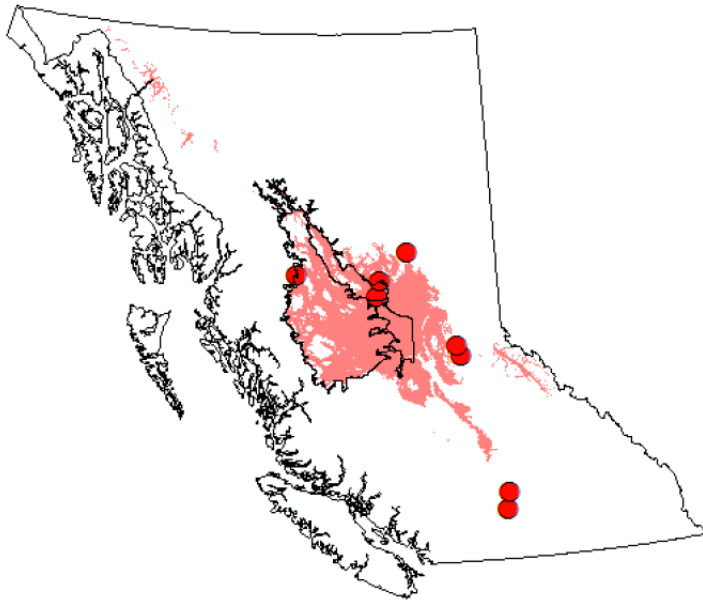
CF Guidance (con't)

Nurseries

- 12. Tree nurseries should **maximize seedling yields** by adjusting sowing factors and utilizing all suitable plugs.



Pli Seed and Orchard Needs



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Species Plans

