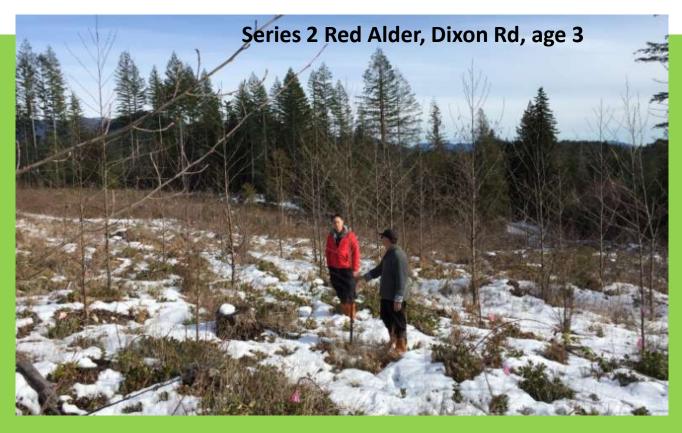
# Coastal Broadleaves (CB) CTAC budget meeting

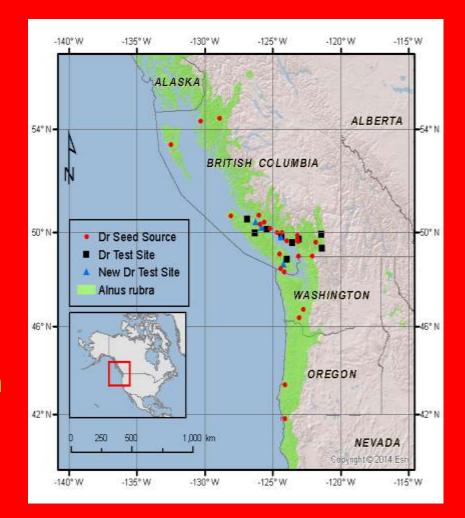
"COVID19 Conf Call" April 2, 2020





## Red Alder Phase III studies

- 210 OP families from 24 natural populations
- 32 CP families from clone bank
- <u>2 test series</u> with a total of 13 sites, covering 6 BEC elevation range from 180-1200m
- A maximum of 105 trees per family tested
- Phase III, series 1 studies are for genecology information
- Phase III, series 2 to develop a new breeding population



- The 9 sites here are for series 1
- The 4 sites for series 2 (not shown)
  have elevation ranges from 180-350m)

#### Red Alder – prov trail (series I) and

family trials (series II)

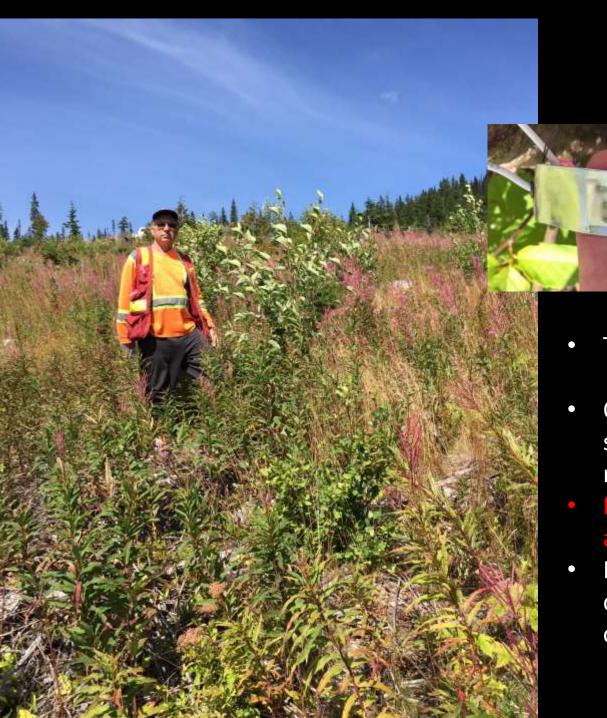
- Visited 2 Series I test sites;
  - Stoyoma (elev 1100m). Very high mortality. 'Write off' (now only 8 sites)
  - Wrey Ck (elev 1200m). Very good!
- All 8 sites will be measured for 6 year height this fall
- No work on Series II sites (4 sites where measure last year)



Stoyoma Rd. near Hope

#### Overview of Stoyoma





• Tag 788 Stoyoma

- One of the 46% of the surviving trees at age 3; many more are dead now
- No heritability for growth and survival at age 3
- Most trees have been damaged by drought or cold





#### Wrey test site;

- about 66%
   survival but the
   trees looked
   good, if they
   survived the first
   year.
- Quite a slope and most trees had snow press in the initial years.
- At ~1200m, very good growth for the trees that made it through
- heritabilities for growth and survival on age 3 data



Keith taking a picture of a good tree

#### **Red Alder**

2019-20 (this year)	\$	2020-21 (next)	\$
- Maintenance	~5k*	- Measure 8 sites	30k
- Travel / materials	-2k	- Visit 4 sites (travel)	2k
- CLRS support	-10k	- CLRS support	4k
Total	17k	Total	36k

## Overall plan

- Waiting for 6 this year (fall measurements)
- Adjust CBST rules for red alder in 2022
- Make initial backwards/forward selections on the series 2 (~2022-23)
- Plan on clone bank establishment (5 year away) and a new seed orchard (2023)
- See what's eating the trees at Bowser (#409 clones)?
  - Selection for resistance to western budworm?

## Big leaf Maple

- Trees are 11 years old
- Brushing on 1 site this year (Skutz-heavy fern/blackberries brush)
- measured all 3 sites last fall for ht, dbh and form
- Full analysis this summer with Omnia Gamal!
- Goal is select ~80 -90 trees across all 3 sites
- We selected another 36 trees on Skutz this January
- For a total of 56 (the rest off Sayward test next year)
- Some problems with grafting



#### Skutz Falls





#### **Skutz BV**

sitename	tag	fam	prov	form	health	НТ	DBH	HT.BV.%	DBH.BV.%	WVOL.BV.%	TVOL.BV.%
skutz	4719	293	21	1 dominant stem	no damage	640	45	37	38	144	129
skutz	242	293	21	1 dominant stem	no damage	970	101	36	45	139	123
skutz	35	86	9	1 dominant stem	no damage	940	75	36	24	82	74
skutz	4464	81	9	1 dominant stem	no damage	730	82	35	39	113	100
skutz	4529	293	21	1 dominant stem	no damage	660	68	34	44	141	126
skutz	3445	108	11	1 dominant stem	no damage	440	40	33	43	141	128
skutz	1467	293	21	1 dominant stem	no damage	400	35	33	37	130	117
skutz	4267	108	11	1 dominant stem	no damage	1160	163	33	65	155	136
skutz	2738	108	11	1 dominant stem	no damage	370	25	32	36	112	102
skutz	4184	293	21	1 dominant stem	no damage	620	48	32	36	120	108
skutz	3937	293	21	1 dominant stem	no damage	540	48	31	39	134	120
skutz	1897	293	21	1 dominant stem	no damage	560	51	31	35	115	104
skutz	2455	51	5	1 dominant stem	no damage	420	30	31	22	86	78
skutz	1733	86	9	1 dominant stem	no damage	560	65	31	32	102	91
skutz	1971	470	32	1 dominant stem	no damage	490	32	31	14	71	66
skutz	191	81	9	1 dominant stem	no damage	880	80	31	25	65	58
skutz	3483	86	9	1 dominant stem	no damage	350	20	31	23	87	80

## Big leaf Maple

2019-20 (last year)		2020-21	
- Station support	-10k	<ul><li>Station support (grafting)</li></ul>	6K
- Travel	-3k	- Travel (scion collection)	3k
- Fence removal (if in time)	-7.5k	- Fence removal	10k*
- Measurements	-17.5k		
- Maintenance	-7.2		
Total	45.2k	Total	20k

<sup>\*</sup> Quote was 13.5k last year (might be possible)

#### Overall plan

- Full spatial analysis allowed to increase h2 by ~0.1-0.2!
- Fence removal at Powell River will be required
- Grafting for the Powell River selections, didn't go too well (30% survival); might have to go there again
- Hoping for good success with grafting from the scions we got from Skutz Falls this Feb.
- Clone bank / seed orchard at Puckle Rd sometime soon! (with gobs of maple sugar production down the road ②)

#### **Black Cottonwood**

- Re-rooted 25 clones at Puckle Rd.
- CLRS support budgeted with Mb and Dr budget





