SP	PU # 40 mid			Inte	rior S	Spru	се		Pea	ce Ri	ver		650	- 120	00m						
		-				Br	eedir	ng ar	nd Or	chard	d Pro	ducti	on								
Prog	ram category:	First	-gene	eratio	n										See	dling filenar	need Progr ne:	(millio am ra 40 Sx P	on): ank: R July 1:	6.6 22 2, 2015	
STR	ATEGY	Parent parent	tree se s, based	lection f d on offs	rom wil spring p	d stand erfoma	s in the nce on p	PR zon progeny	e. Proge tests, a	eny testa ire selec	s using ted for	open-po seed pr	ollinated	seed fr n in an o	om sele open-po	ected pa ollinated	arents. F seed oi	Focus o rchard.	n stem v	volume.	Best
TRAI	TS	Prima	ry:	Stem	volum	е			Secor	ndary:		Wood	densit	y, wee	vil						
TEST	ring and						Produ	ction Y	/ear (J	uly 1 to	June	30) (Cone h	arves	t year s	shown)				
PRO	DUCTION	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25	'26	'27	'28	'29	'30	'31	'32	'33	'34
Pare Open po Polycros	nts in progeny ^{ollin.} ss	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351
F1 F2 F3		140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Prod	uction forecas	t (mill	ion pl	antak	oles)																
Orchard 212 MF	ds (#, owner) LNRO (Skimikin)	15.5	16.0	16.3	16.3	16.4	16.4	16.4	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
		Also see SPU 40 Low for elevations below 650m																			
Vegetat Phase 1 Phase 2 Estin Orchard 212 MF	tive prod.: nated gain in p ds (#, owner) LNRO (Skimikin)	rimar 23%	y trait 23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
Vegetat Phase 1	tive prod.:																				
Total	2 Production	15.5	16.0	16.3	16.3	16.4	16.4	16.4	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Total	gain	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%	23%
Trees (million)	20 18 16 14 12 10 8 6 4 2 0 0 07 '08 '05 Actual pr	a '10	'11 '11	2 '13	Est	15 '16	ed o SPL	rcha J 40 S 	rd ga Sx PR 9 '20 roducti	this info	1d pr 200m 22 '22 d.	oduc	25 '2 Est. see		+ + + + '28 ed	 r timbe) '31 Forecas	'32 ', t GW (p		24% - 22% - 20% - 18% - 16% - 14% - 14% - 12% - 6% - 4% - 2% - 0%	% gain
	cont	tact the	Tree Ir See	nprove SeedN	ment E Iap on	Branch www.fc	of the Nor.gov.b	Vinistry 0c.ca/h	of For ti/seedr	ests La nap for	nds an curren	d Natur t inven	ral Res tory by	ource (Seed l	Dperati Plannir	ions to g Unit	confirm	y anaiy 1 data.	313,		

40 Sx PR July 12, 2015			Inter	ior Spruce	Peace Riv	er 650 - 1200r	n	SPU #40 (mid)					
			CO	iservation	Seed Orchards	s Seedling Use							
GENETIC CONS	SERVATIO	N STATUS											
	Conservation statistics Seed planning unit (SPU) area Area protected within SPU 255,930 Percentage of SPU area protected 2% Estimated genetic reserves with >5000 mature trees based on botanical sample data 0												
	Confirmed	a genetic res	erves with a	>5000 mature	trees based on i	forest inventory data	1 3						
				Co	nservation sta	atus							
			Probability	of maintainin	Current in-s g > 3 protected	itu protection status areas with adequate	: Acceptable						
population size given natural disturbance regimes: Uncertain													
		For further in	formation vis	it http://www.ge	enetics.forestry.ub	c.ca/cfgc/							
ORCHARD STA	TUS					T 10 1	T ()						
location	Orchard number	Number of parents	Mean BV 23%	# of ramets currently	# of ramets planned for final orchard size	Target Seed production kg/y	Total Seedling Prod.						
FLNRO (Skimikin)	212	40		2,747	2,875	97.3	17.25	Mid elevation (650-1200m)					
								-					
		I T	otal ramets	2,747	2,875	Total production	n 17.3						
Vegetative propaga	tion		Stecklings/Emblings	s 0.0]								
						Total production	n 17.3						
Seed and Nurser	y Factors					Estimate of Regu	ired Orchard Capa	acity					
Expect	ed annual av	erage seedlin Se	ng productio ed weight (s	n per ramet = eeds/gram) =	6,000 394	Annual pl Plann	anting (million seed ed over-production	lings) 6.6 factor 1.2					
Seed weight (seeds/gram) = 394 Planned over-production factor 1. Seedling recovery factor (seedlings/seed) = 0.45 Ramets required 1,1 Seedling recovery factor (seeds/seedling) = 2.22 Ramets required with over-canacity 1.3													
Progeny test data w	ill determine v	whether the lov	w-elevation r	eed should be	developed in coni	Project	ted necessary expa	nsion 0					
SEEDLING LISE			AGE		,								
				4 0045)									
Estimated years	s of class-	A seed in st	torage	1 - 2015)	0.0 1.3	years							
Seedli	ng Use Trend	d - 2003 to 20	15 for 650-1	200m and < 65	i0m elev.	:	Seed in Storage b	y GW class					
12						8	Ū.	, 					
10					•								
s a						- sling - slin							
6					≠ ⊓								
4	*				W 2								
2						1							
0													
Orcha	ard 650-1200m	Superio	or provenance (mr	n) — Tot	al 650-1200m	Notes:	Gw for growth in s						
Seedling use data include 1/2 of adjacent overlap zones, where applicable Sowing year: Aug 1 to July 31 (i.e. 2015 sowing year starts Aug 1, 2014) Total 650-1200m - Seed held in both "reserve" and "available" status in the Seed Planning and Registration (SPAR) system is included - Seed inventories change with new orders. Data presented here are based on a June sample. - For up-to-date information use SPAR, or contact the Tree Improvement Branch of the Ministry of Forests and Range													
Se	ed production contact the	n estimates are Tree Improver	e subject to c ment Branch	hange. When of the Ministry of	using this informat of Forests Lands a	tion for silviculture plan and Natural Resource	nning or timber supply Operations to confirm	y analysis, ı data.					
		See SeedMa	ap on www.fo	or.gov.bc.ca/hti	seedmap for curre	ent inventory by Seed	Planning Unit						