



**Ministry of Forests, Lands, and Natural Resource Operations
Seed Planning and Registry System
Seedlot Registration Report**

Seedlot Number: 63907

General Lot Information	
To Be Registered: Yes	Status: COMPLETE
Species: FDI - interior Douglas-fir	Genetic Class: A
Class A Source: Tested Parent Trees	BC Source: Yes
Applicant Information	
Applicant Agency: MOF 22 MINISTRY OF FORESTS	
Applicant Address: KALAMALKA FORESTRY CENTRE 3401 RESERVOIR ROAD VERNON BC V1B2C7 (250) 549-5667	Applicant's Email Address: KATHERINE.SPENCER@GOV.BC.CA
Collection From Parent Tree	
Orchard ID: 324 BAILEY	Orchard Address: BAILEY TREE IMPROVEMENT BRANCH 3RD FLOOR 712 YATES ST VICTORIA BC V8W9C2 (250) 387-8939
Effective Population Size: 32.0	
Primary Seed Planning Unit: FDI NE HIGH	Source BEC Zone/Subzone/Variant: ICH / mw / 2
Genetic Worth: Ad: Dfs: Dfu: Dfw: Dsb: Dsc: Dsg: Gvo: +34 lws: Wdu: Wve: Wwd:	
Mean Elevation of Parent Trees (m): 1,090	Mean Latitude of Parent Trees: 50° 07' 48"
	Mean Longitude of Parent Trees: 117° 46' 15"



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Collection Method(s): 06 - Ground, Ladder and/or Hydraulic Lift		Collection Start Date: 2020-07-27	Collection End Date: 2020-08-21
No. of Containers: 565.00	Volume Per Container (HI): .20	Volume of Cones (HI): 113.00	
Comments:			
Cone Collector Agency: MOF 22 MINISTRY OF FORESTS		Collector Address: KALAMALKA FORESTRY CENTRE 3401 RESERVOIR ROAD VERNON BC V1B2C7 (250) 549-5667	
Area of Use			<i>shaded area calculated by SPAR</i>
Primary Seed Planning Zone: NE-Nelson			
Seed Planning Zone(s): QLN-Quesnel Lakes/Nelson Overlap Zone			
Minimum Elevation (m): 1000		Maximum Elevation (m): 1800	
Minimum Latitude: 50° 07' 48"	Maximum Latitude: 50° 07' 48"	Minimum Longitude: 117° 46' 15"	Maximum Longitude: 117° 46' 15"
Area of Use Comment:			
Ownership			
Owner Agency:	Owner Reserved Portion (%)	Surplus (%)	Funding Source
MOF 20	100.0	100	0 TSC - Tree Seed Centre
			Method of Payment NC - Non-chargeable



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Interim Cone Storage		
Interim Agency: MOF 22 MINISTRY OF FORESTS	Storage Location: BAILEY	
Storage Facility Type: Outside Covered	Interim Storage From Date: 2020-08-21	Interim Storage To Date: 2020-09-01
Extraction		
Extractory Agency: MOF 00 MINISTRY OF FORESTS	Extraction Start Date: 2020-09-10	Extraction End Date: 2020-09-10
Temporary Seed Storage		
Seed Storage Agency: MINISTRY OF FORESTS	Storage From Date: 2020-09-10	Storage To Date: 2020-10-08
Audit History		
Created By User: IDIR\KASPENCE	Created Date: 2024-05-06	
Last Updated By User: IDIR\SDONNELL	Last Updated Date: 2023-02-16	
Submitted By User: IDIR\KASPENCE	Submitted Date: 2020-09-18	
Declaration		
<input checked="" type="checkbox"/> I hereby declare that the information provided in this application is true and correct, and that I am the owner of the lot or have been authorized by the owner(s) of the lot to submit this application.		



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Orchard Information

Orchard ID: 324
Additional orchard id contributing parent tree:
Comments:

Area of Use

Primary SPU: FDI NE HIGH Species:FDI SPZ A:NE Elevation Range (m): 1200-1800

Gamete, SMP and Pollen Contamination

SMP pollen mix mean BV =	Ad:	Dfs:	Dfu:	Dfw:	Dsb:	Dsc:	Dsg:	Gvo:
	lws:	Wdu:	Wve:	Wwd:				
SMP success (%) =	0							
Methodology used to determine female gametic contribution of each PT:	F1-Visual Estimate							
Methodology used to determine male gametic contribution of each PT:	M2-Pollen Volume Estimate by Partial Survey							
Was pollen contamination present in the seed orchard:	No							
If above is 'Yes', enter proportion of contaminant pollen (%):								
Methodology used to determine the proportion of contaminant pollen:								
Was the lot produced through controlled crosses?:	No							
Have Biotechnological processes been used to produce this lot:	No							

Contamination Pollen

Contaminant pollen BV:
Pollen Contaminant (%): 0



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Genetic Worth / Diversity

Genetic Worth (GW-Ad) =		Coancestry (Sum PiPj *Cij):	
Genetic Worth (GW-Dfs) =		Effective Population size (Ne) =	32
Genetic Worth (GW-Dfu) =		Total Number of Parent trees =	38
Genetic Worth (GW-Dfw) =		Tested Parent Tree Contribution (%) =	100
Genetic Worth (GW-Dsb) =		# of SMP Parents from Outside:	12
Genetic Worth (GW-Dsc) =		Genetic Worth (GW-Dsg) =	
Genetic Worth (GW-Gvo) =	+34	Genetic Worth (GW-lws) =	
Genetic Worth (GW-Wdu) =		Genetic Worth (GW-Wve) =	
Genetic Worth (GW-Wwd) =			

Parent Tree

Parent Tree Number	----- Breeding Value -----												Cone Pollen Count	SMP Success on parent (%)
	Ad	Dfs	Dfu	Dfw	Dsb	Dsc	Dsg	Gvo	lws	Wdu	Wve	Wwd		
8021	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	28.8	(0.0)	(0.0)	(0.0)	(0.0)	37	20
8044	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	40.9	(0.0)	(0.0)	(0.0)	(0.0)	27	14
8168	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	32.3	(0.0)	(0.0)	(0.0)	(0.0)	47	168
8174	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	26.3	(0.0)	(0.0)	(0.0)	(0.0)	46	23
8185	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	26.1	(0.0)	(0.0)	(0.0)	(0.0)	17	12
8187	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	26.3	(0.0)	(0.0)	(0.0)	(0.0)	37	16
8206	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	27.4	(0.0)	(0.0)	(0.0)	(0.0)	82	44
8847	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	32.1	(0.0)	(0.0)	(0.0)	(0.0)	84	48
8875	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	23.1	(0.0)	(0.0)	(0.0)	(0.0)	44	28
8876	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	32.2	(0.0)	(0.0)	(0.0)	(0.0)	72	36
8946	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	24.7	(0.0)	(0.0)	(0.0)	(0.0)	50	28
8948	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	29.5	(0.0)	(0.0)	(0.0)	(0.0)	53	32
8955	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	31.1	(0.0)	(0.0)	(0.0)	(0.0)	88	48
8964	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	49.7	(0.0)	(0.0)	(0.0)	(0.0)	84	45
8965	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	41.8	(0.0)	(0.0)	(0.0)	(0.0)	78	42
8968	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	31.6	(0.0)	(0.0)	(0.0)	(0.0)	60	31
9094	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	22.9	(0.0)	(0.0)	(0.0)	(0.0)	51	29
9116	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	24.7	(0.0)	(0.0)	(0.0)	(0.0)	47	29
9465	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	21.4	(0.0)	(0.0)	(0.0)	(0.0)	45	27



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9474	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	22.6	(0.0)	(0.0)	(0.0)	(0.0)	27	12
9524	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	34.6	(0.0)	(0.0)	(0.0)	(0.0)	90	49
9532	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	38.9	(0.0)	(0.0)	(0.0)	(0.0)	71	36
9536	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	36.4	(0.0)	(0.0)	(0.0)	(0.0)	80	37
9550	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	46.8	(0.0)	(0.0)	(0.0)	(0.0)	92	47
9551	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	24.9	(0.0)	(0.0)	(0.0)	(0.0)	78	44
9559	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	30.4	(0.0)	(0.0)	(0.0)	(0.0)	78	48
9562	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	33.0	(0.0)	(0.0)	(0.0)	(0.0)	78	38
9578	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	33.0	(0.0)	(0.0)	(0.0)	(0.0)	77	47
9583	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	39.2	(0.0)	(0.0)	(0.0)	(0.0)	96	56
9586	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	28.5	(0.0)	(0.0)	(0.0)	(0.0)	42	25
9590	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	29.3	(0.0)	(0.0)	(0.0)	(0.0)	15	8
9591	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	30.3	(0.0)	(0.0)	(0.0)	(0.0)	85	43
9592	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	51.9	(0.0)	(0.0)	(0.0)	(0.0)	68	34
9593	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	51.5	(0.0)	(0.0)	(0.0)	(0.0)	79	40
9594	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	32.0	(0.0)	(0.0)	(0.0)	(0.0)	57	27
9595	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	33.9	(0.0)	(0.0)	(0.0)	(0.0)	87	47
9598	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	36.6	(0.0)	(0.0)	(0.0)	(0.0)	87	53
9601	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	27.7	(0.0)	(0.0)	(0.0)	(0.0)	38	22
Summary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	0.0	0.0	0.0	0.0	2374.000	1433.000

(n) denotes estimated values.

* Could not determine Parent Tree Elevation, Latitude and Longitude.



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SMP Collection

Parent Tree	Volume (ml)	Proportion	Breeding Value												Weighted												
			Ad	Dfs	Dfu	Dfw	Dsb	Dsc	Dsg	Gvo	lws	Wdu	Wve	Wwd	Ad	Dfs	Dfu	Dfw	Dsb	Dsc	Dsg	Gvo	lws	Wdu	Wve	Wwd	
8044	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(40.9)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	6.29	0	0	0	0
8047	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.31	0	0	0	0
9236	100	0.0154	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.03	0	0	0	0
9237	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9238	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.31	0	0	0	0
9239	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.31	0	0	0	0
9375	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9376	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9377	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9378	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9384	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9385	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9387	50	0.0077	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	0.02	0	0	0	0
9593	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(51.5)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	7.92	0	0	0	0
9594	1000	0.1538	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(32)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0	4.92	0	0	0	0



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(n) denotes estimated values.

Summary

# of SMP Parents from Outside:	12	Total Volume:	6500
BV-Ad SMP mix used on parent:	0	BV-Dfs SMP mix used on parent:	0
BV-Dfu SMP mix used on parent:	0	BV-Dfw SMP mix used on parent:	0
BV-Dsb SMP mix used on parent:	0	BV-Dsc SMP mix used on parent:	0
BV-Dsg SMP mix used on parent:	0	BV-Gvo SMP mix used on parent:	20
BV-lws SMP mix used on parent:	0	BV-Wdu SMP mix used on parent:	0
BV-Wve SMP mix used on parent:	0	BV-Wwd SMP mix used on parent:	0
Mean Elev. of SMP mix used on parents:	882		
Mean Latitude of SMP mix used in parent:	51° 12'	Mean Longitude of SMP mix used in parent:	118° 38'