

SARE Monitoring Plot Card

Property Name:		Coulson Young Douglas-fir Stand Plot radius: 26.3'					Cruisers:		Jane Frazee, Teo Rautu																																																																																																															
Treatment number: 1, 2		Acres: 4.0		Site Index:		Site Class:		Date: 1/21/20																																																																																																																
Photo points:		Stand Notes: forest health, observations, etc.																																																																																																																						
Plot #	Direction	Photo #	Much of this stand seemed to be strangled by an ivy causing deformation of the timber. There were also invasive species such as holly and Himalayan blackberry																																																																																																																					
			site 1: plots 1-8																																																																																																																					
			site 2: plots 9-16																																																																																																																					
			corners of site area are marked with white PVC pipe, orange paint, and pink flagging. The boundaries of the site are marked with pink flagging.																																																																																																																					
			plot 6: 1 DF seedling 2.5' tall																																																																																																																					
			plot 12: 1 DF seedling 2.0' tall																																																																																																																					
			plot 15: 3 DF seedlings, 5.0', 4.2', 3.8'																																																																																																																					
			<table border="1"> <thead> <tr> <th colspan="6">Plot Data</th> </tr> <tr> <th>Plot #</th> <th>Latitude</th> <th>Longitude</th> <th>Aspect</th> <th>Slope</th> <th>Elevation</th> </tr> </thead> <tbody> <tr><td>1</td><td>46.5511053471</td><td>-122.8591946303</td><td>W</td><td>2</td><td>551</td></tr> <tr><td>2</td><td>46.5510565060</td><td>-122.8586872260</td><td>SE</td><td>2</td><td>537</td></tr> <tr><td>3</td><td>46.5514762178</td><td>-122.8587594883</td><td>N</td><td>2</td><td>501</td></tr> <tr><td>4</td><td>46.5514245333</td><td>-122.8591441667</td><td>W</td><td>2</td><td>513</td></tr> <tr><td>5</td><td>46.5517868568</td><td>-122.8592329827</td><td>NW</td><td>2</td><td>522</td></tr> <tr><td>6</td><td>46.5517462604</td><td>-122.8588178662</td><td>NE</td><td>2</td><td>507</td></tr> <tr><td>7</td><td>46.5520622163</td><td>-122.8587831651</td><td>N</td><td>2</td><td>499</td></tr> <tr><td>8</td><td>46.5521412576</td><td>-122.8592281603</td><td>NW</td><td>2</td><td>490</td></tr> <tr><td>9</td><td>46.5507668191</td><td>-122.8604695463</td><td>N</td><td>2</td><td>539</td></tr> <tr><td>10</td><td>46.5507506667</td><td>-122.8599375667</td><td>W</td><td>2</td><td>462</td></tr> <tr><td>11</td><td>46.5510404616</td><td>-122.8599617966</td><td>N</td><td>2</td><td>521</td></tr> <tr><td>12</td><td>46.5510599711</td><td>-122.8604566973</td><td>SW</td><td>2</td><td>530</td></tr> <tr><td>13</td><td>46.5514441500</td><td>-122.8603971167</td><td>E</td><td>2</td><td>519</td></tr> <tr><td>14</td><td>46.5513815333</td><td>-122.8599315167</td><td>N</td><td>2</td><td>545</td></tr> <tr><td>15</td><td>46.5517762292</td><td>-122.8599940016</td><td>W</td><td>2</td><td>505</td></tr> <tr><td>16</td><td>46.5517055912</td><td>-122.8604146263</td><td>W</td><td>2</td><td>518</td></tr> </tbody> </table>										Plot Data						Plot #	Latitude	Longitude	Aspect	Slope	Elevation	1	46.5511053471	-122.8591946303	W	2	551	2	46.5510565060	-122.8586872260	SE	2	537	3	46.5514762178	-122.8587594883	N	2	501	4	46.5514245333	-122.8591441667	W	2	513	5	46.5517868568	-122.8592329827	NW	2	522	6	46.5517462604	-122.8588178662	NE	2	507	7	46.5520622163	-122.8587831651	N	2	499	8	46.5521412576	-122.8592281603	NW	2	490	9	46.5507668191	-122.8604695463	N	2	539	10	46.5507506667	-122.8599375667	W	2	462	11	46.5510404616	-122.8599617966	N	2	521	12	46.5510599711	-122.8604566973	SW	2	530	13	46.5514441500	-122.8603971167	E	2	519	14	46.5513815333	-122.8599315167	N	2	545	15	46.5517762292	-122.8599940016	W	2	505	16	46.5517055912	-122.8604146263	W	2	518
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			Abbreviations for understory species:																																																																																																																					
			SF	Sword Fern																																																																																																																				
			SAL	Salal																																																																																																																				
			OG	Oregon Grape																																																																																																																				
			HL	Holly																																																																																																																				
			VM	Vine Maple																																																																																																																				
			RA	Red Alder																																																																																																																				
			TBB	Trailing Blackberry																																																																																																																				
			HBB	Himalayan Blackberry																																																																																																																				
			BHR	Baldhip Rose																																																																																																																				
			EVH	Evergreen Huckleberry																																																																																																																				
Plot #	Tree #	Spp.	DBH	Total	Live	Defect	Snag?	Notes - wildlife use, disease, etc. at Coulson.	Understory:																																																																																																															
SITE 1									SITE 1																																																																																																															
									Plot #	Spp.	% cover	Avg shrub layer height (FT)																																																																																																												
1	1	DF	6.2	50	40					1	SF	25	2																																																																																																											
1	2	DF	7.6	46	35					1	OG	<5	1																																																																																																											
1	3	DF	4.8	36	20	5% - Scar, multi top				1	VM	20	8																																																																																																											
1	4	DF	6.6	48	35					2	SF	20	2																																																																																																											
1	5	DF	5.0	48	25					2	HL	5	2																																																																																																											
1	6	DF	6.8	50	45	2% - crook				2	VM	15	8																																																																																																											
1	7	DF	5.3	38	25					3	SF	15	3																																																																																																											
1	8	DF	9.1	50	60					3	SAL	15	2																																																																																																											
1	9	DF	6.4	45	45					3	HBB	<5	10																																																																																																											
1	10	DF	4.8	39	25			unknown disease		3	RA	30	15																																																																																																											
1	11	DF	4.6	38	35					3	VM	5	15																																																																																																											
1	12	DF	4.4	42	35					4	SF	60	2																																																																																																											
1	13	DF	5.0	45	50	3% - sweep				4	SAL	10	3																																																																																																											
1	14	DF	6.0	50	50	3% - sweep				4	TBB	5	1																																																																																																											
1	15	DF	8.6	54	55					4	VM	20	8																																																																																																											
1	16	DF	5.1	40	60					5	SF	25	3																																																																																																											
1	17	DF	5.3	45	55	3% - crook, speed wobble				5	SAL	10	2																																																																																																											
1	18	DF	7.2	50	30	3% - crook, speed wobble																																																																																																																		

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1	19	DF	7.3	45	55			black pitching on bark, unknown disease	5	EVH	1	5
1	20	DF	7.1	50	60				5	VM	5	8
1	21	DF	3.1	30	20				5	RA	3	10
1	22	DF	5.8	42	35				5	BHR	1	5
1	23	DF	3.8	35	20	3% - sweep			6	SF	10	3
1	24	DF	7.5	52	65				6	SAL	40	2
1	25	DF	6.0	42	35				6	RA	25	12
1	26	DF	5.2	40	35	5% - sweep			7	SAL	30	3
1	27	DF	3.6	30	20	30% - broken top		strangled by ivy	7	HL	<5	3
1	28	DF	4.6	30	30	10% - forked top		strangled by ivy	7	OG	5	2
1	29	DF	6.6	35	45			strangled by ivy	7	SF	<5	3
1	30	DF	7.4	45	35				7	VM	15	8
1	31	DF	5.8	38	30				7	RA	10	10
2	1	DF	4.6	44	40				7	TBB	<5	3
2	2	DF	3.9	36	35				7	BHR	<5	5
2	3	DF	6.2	44	50				8	SAL	10	3
2	4	DF	4.4	40	30				8	OG	<5	2
2	5	DF	5.3	44	30				8	VM	15	8
2	6	DF	6.0	43	80				8	RA	10	10
2	7	DF	5.7	44	70			brown pitching, potential infection	SITE 2			
2	8	DF	5.7	45	55				9	SF	10	3
2	9	DF	5.4	43	40				9	VM	40	15
2	10	DF	5.6	39	30				9	SAL	20	3
2	11	DF	6.8	45	50				9	RA	20	20
2	12	DF	4.7	40	35				10	HL	5	5
2	13	DF	5.2	40	35	3% - crook			10	SF	30	2
2	14	DF	7.8	43	45				10	TBB	<5	1
2	15	DF	6.9	51	50	10% - crook, speed wobble			10	SAL	5	2
2	16	DF	8.0	47	55			swelling branch nodes, unknown infection	10	VM	5	20
2	17	DF	4.0	44	45				10	RA	5	20
2	18	DF	4.7	45	35				11	SF	65	3
2	19	DF	3.9	38	40				11	SAL	<5	2
2	20	DF	4.8	40	45				11	RA	5	20
2	21	DF	14.8	62	30	5% - broken top		28 degree lean	11	VM	5	15
2	22	DF	3.4	23	55				12	SAL	40	3
2	23	DF	5.8	43	60				12	SF	50	3
2	24	DF	5.5	45	45				12	VM	25	15
2	25	DF	4.3	38	45				12	RA	25	15
2	26	DF	4.4	40	45				12	TBB	10	1
2	27	DF	4.0	38	35				13	SF	10	2
2	28	DF	6.0	54	30				13	VM	50	20
3	1	DF	6.4	40			stg 2		13	RA	20	15
3	2	DF	6.1	44	70				13	SAL	<5	2
3	3	DF	6.8	42	50				13	HBB	<5	20
3	4	DF	6.2	46	35	3% - sweep			14	SF	60	2
3	5	WH	8.9	50	60	5% - pistle butt			14	SAL	10	2

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3	6	DF	5.2	45	40				14	TBB	5	1
3	7	DF	7.3	40	60				14	HBB	<5	8
3	8	DF	8.8	13			stg 3	wildlife use	14	RA	25	12
3	9	DF	6.5	50	40				15	VM	80	20
3	10	DF	4.2	25	30	5% - broken top			15	SF	25	2
3	11	DF	6.6	42	55				15	RA	40	25
3	12	DF	6.0	35	40				15	HBB	<5	10
3	13	DF	6.6	41	40				15	SAL	<5	1
3	14	DF	3.8	31	30				16	SAL	20	3
3	15	DF	5.8	40	50				16	VM	40	20
3	16	DF	7.1	45	80				16	RA	10	15
3	17	DF	5.7	45	75				16	SF	15	2
4	1	DF	5.7	30	70				16	HBB	<5	6
4	2	PP	6.5	28	35							
4	3	DF	3.0	25	40							
4	4	DF	7.1	43	90							
4	5	DF	4.5	31	70							
4	6	DF	6.8	45	80			strangled by ivy				
4	7	DF	5.8	38	55							
4	8	DF	5.4	38	40							
4	9	DF	5.9	41	50							
4	10	DF	5.6	38	40							
4	11	DF	4.8	38	35							
4	12	DF	5.7	45	40							
4	13	DF	6.8	42	50							
4	14	DF	2.9	35	15							
4	15	DF	5.8	48	30							
4	16	DF	5.1	41	30	3% - broken top						
4	17	DF	6.6	45	40							
4	18	DF	5.5	48	40							
4	19	DF	5.8	45	45							
4	20	DF	5.1	32	75							
4	21	DF	4.0	43	70							
4	22	DF	6.2	30	65	3% - crook						
4	23	PP	9.4	40	60							
4	24	DF	2.5	25	40							
4	25	DF	2.2	20	40			strangled by ivy				
4	26	PP	8.2	42	50							
5	1	DF	6.2	41	55							
5	2	DF	4.9	42	45	3% - crook						
5	3	DF	6.8	50	60							
5	4	DF	6.6	45	45							
5	5	DF	6.6	41	60			moderate pitching				
5	6	DF	4.7	38	30							
5	7	DF	5.9	43	45							
5	8	DF	3.8	32	45	5% - multi top		strangled by ivy				

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6	19	DF	4.7	25	45	5% - multi top								
6	20	DF	6.5	43	65									
6	21	DF	6.5	40	50									
6	22	DF	6.5	40	40									
6	23	DF	4.3	35	45									
7	1	DF	7.6	50	45									
7	2	DF	6.0	45	45									
7	3	DF	6.2	42	40									
7	4	DF	6.2	42	40	4% - sweep								
7	5	DF	5.1	35	40									
7	6	DF	5.1	40	45									
7	7	DF	6.6	47	45									
7	8	DF	2.8	25	20	5% - sweep								
7	9	DF	6.6	40	50									
7	10	DF	4.7	43	40									
7	11	DF	6.1	44	50									
7	12	DF	4.6	38	5									
7	13	DF	5.9	40	60	3% - crook								
7	14	DF	5.1	32	45	3% - broken top				strangled by ivy				
7	15	DF	5.3	41	40					strangled by ivy				
7	16	DF	6.7	35	30	3% - broken top				strangled by ivy				
7	17	DF	6.2	47	45									
7	18	DF	5.6	42	40	3% - spike				strangled by ivy				
7	19	DF	4.5	38	40					strangled by ivy				
7	20	DF	5.6	42	35									
7	21	DF	3.2	32	45									
7	22	DF	7.0	49	60									
7	23	DF	6.4	42	40									
7	24	DF	6.2	40	35					white pitching				
7	25	DF	3.3	36	25									
7	26	DF	7.0	47	45									
7	27	DF	5.2	44	40									
8	1	DF	6.3	46	30	5% - crook								
8	2	DF	4.5	40	35									
8	3	DF	7.3	43	35									
8	4	DF	5.7	43	35	5% - crook								
8	5	DF	5.8	40	40	5% - spike								
8	6	DF	6.8	49	40									
8	7	DF	6.7	45	50									
8	8	DF	4.6	32	45									
8	9	DF	5.0	35	35	5% - spike								
8	10	DF	3.2	35	15									
8	11	DF	6.9	44	50									
8	12	DF	6.5	42	50									
8	13	DF	3.6	37	30									
8	14	DF	5.2	45	40	3% - crook								

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8	15	DF	4.1	39	30			
8	16	DF	5.5	42	35			
8	17	DF	6.7	50	45			
8	18	DF	5.5	35	40			
8	19	DF	7.2	50	40			
8	20	DF	4.1	38	35			
8	21	DF	4.9	40	20	15% - spike, crook		
8	22	DF	3.7	35	20			
8	23	DF	5.3	41	30			
8	24	DF	7.1	50	40			
8	25	DF	3.8	35	25			
8	26	DF	5.8	45	40			
8	27	DF	5.1	45	30			
8	28	DF	4.5	38	25			
SITE 2								
9	1	DF	7.3	48	30			
9	2	DF	5.4	40	30			
9	3	DF	5.3	36	30	3% - crook, speed wobble		
9	4	DF	5.4	38	45			
9	5	DF	8.9	47	50	3% - crook, speed wobble		
9	6	DF	4.7	42	30			
9	7	DF	6.8	40	25			
9	8	DF	6.1	55	30			
9	9	DF	6.0	48	35			
9	10	DF	7.4	52	50			
9	11	DF	7.0	45	65			
9	12	DF	7.6	54	45	3% - crook		
9	13	DF	3.1	34	50			
9	14	DF	5.7	44	45			
9	15	RA	4.4	46	60	3% - crook		
9	16	DF	6.1	48	30			
9	17	DF	5.9	46	35			
9	18	DF	5.7	50	40			
9	19	DF	5.9	49	40			
9	20	DF	6.2	46	45			
9	21	DF	8.2	46	50	5% - crook, new leader		
9	22	DF	7.9	49	35			
9	23	DF	5.3	45	30			
9	24	DF	5.3	48	40	5% - crook in butt log	like a burl and found in other near by trees, unkno	
9	25	DF	5.0	46	35			
9	26	DF	4.8	42	40	5% - sweep		
10	1	DF	4.6	38	30			
10	2	DF	4.5	33	35		like a burl and found in other near by trees, unkno	
10	3	DF	5.5	37	55	5% - crook in butt log		
10	4	DF	5.6	43	45			
10	5	DF	5.9	50	30			

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10	6	DF	5.8	42	50			
10	7	DF	7.4	44	45			
10	8	DF	6.1	46	50			
10	9	DF	6.3	44	45			
10	10	DF	6.5	49	50			
10	11	DF	5.1	39	35			
10	12	DF	4.1	32	30			
10	13	DF	5.5	40	55			
10	14	DF	5.9	36	40	5% - crook in butt log	like a burl and found in other near by trees, unkno	
10	15	DF	5.3	43	60			
10	16	DF	7.0	46	50			
10	17	DF	5.3	46	60			
10	18	DF	6.3	51	45			
10	19	DF	4.6	46	60	5% - crook in butt log	like a burl and found in other near by trees, unkno	
10	20	DF	5.7	52	40			
10	21	DF	6.3	43	35	5% - crook in butt log	like a burl and found in other near by trees, unkno	
10	22	DF	5.6	50	25	3% - crook		
10	23	DF	4.8	52	40			
10	24	DF	4.6	46	30			
10	25	DF	6.3	50	40		strangled by ivy	
10	26	DF	6.0	48	40			
10	27	DF	8.3	40	45	3% - broken top		
10	28	DF	3.3	30	30	10% - broken top	like a burl and found in other near by trees, unkno	
10	29	DF	3.8	35	40	3% - multi top		
10	30	DF	5.9	40	45			
10	31	DF	6.1	54	50			
10	32	DF	5.5	49	40			
10	33	DF	5.3	48	40			
10	34	DF	4.8	45	35			
10	35	DF	4.5	41	40			
11	1	DF	5.4	45	40			
11	2	DF	7.1	48	55			
11	3	DF	5.3	43	45		strangled by ivy	
11	4	DF	4.0	43	35			
11	5	DF	4.7	31	35	5% - broken top		
11	6	DF	6.6	40	50		strangled by ivy	
11	7	DF	7.5	51	60			
11	8	DF	5.9	41	70			
11	9	DF	4.7	42	60			
11	10	DF	6.3	45	50			
11	11	DF	5.3	42	50			
11	12	DF	6.3	40	45			
11	13	DF	5.9	33	80		strangled by ivy	
11	14	DF	3.9	33	50			
11	15	DF	7.3	48	75			
11	16	DF	6.2	41	45			

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11	17	DF	4.7	41	35			
11	18	DF	5.2	45	40			
11	19	DF	4.7	42	40			
11	20	DF	6.7	44	50			
11	21	DF	6.6	46	50	5% - crook, speed wobble		
11	22	DF	5.4	40	25			
11	23	DF	5.3	38	30	3% - broken top		
11	24	DF	5.7	40	40			
11	25	DF	6.6	45	50			
11	26	DF	6.7	45	60			
11	27	DF	4.3	41	45			
11	28	DF	6.0	46	60			
11	29	DF	6.0	47	45			
12	1	DF	7	48	60			
12	2	DF	4.7	38	50	5% - sweep		
12	3	DF	5.2	34	60			
12	4	DF	3.2	29	40			
12	5	DF	4.1	44	30			
12	6	DF	4.2	38	40			
12	7	DF	6.6	46	60			
12	8	DF	5	28	30	5% - broken top		
12	9	DF	6	44	40			
12	10	DF	5.1	40	50			
12	11	GF	10.5	54	80	15% - scar,	pitching, very stressed from wildlife usage	
12	12	BM	4.4	32	75			
12	13	DF	4.4	34	70		sparse canopy	
12	14	DF	4.5	40	50			
12	15	DF	4.5	40	45			
12	16	DF	4.5	36	60			
12	17	DF	5.3	40	60			
12	18	DF	5.2	42	75			
13	1	DF	7.1	48	50		strangled by ivy	
13	2	DF	4.8	45	50			
13	3	DF	6.4	43	60			
13	4	DF	7.4	42	45			
13	5	DF	4.5	36	35			
13	6	DF	4.6	44	35			
13	7	DF	5.4	46	40	15% - crook, speed wobble		
13	8	DF	5.4	43	40			
13	9	DF	5.6	44	40			
13	10	DF	6.7	47	45			
13	11	DF	6	48	50			
13	12	DF	6.2	50	45			
13	13	DF	4.1	36	35			
13	14	DF	5.3	36	40			
13	15	DF	5.2	36	45			

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13	16	DF	4	38	45			strangled by ivy						
13	17	DF	4.3	39	45									
13	18	DF	8.3	52	60									
13	19	DF	6.1	41	40			strangled by ivy						
13	20	DF	4.4	28	30	10% - broken top, crook								
14	1	DF	2.7	23	45	5% - scar		odd scar, unknown disease						
14	2	DF	3.1	25	55	10% - scar		odd scar, unknown disease						
14	3	DF	3.5	33	90	5% - scar		odd scar, unknown disease						
14	4	PP	6.3	35	60									
14	5	RC	3.8	24	90									
14	6	DF	5.4	41	50									
14	7	DF	7.3	48	55									
14	8	DF	6.1	48	45									
14	9	DF	5.9	39	60									
14	10	DF	5.8	45	45									
14	11	DF	3.9	33	30									
14	12	DF	5.8	38	40									
14	13	DF	4.8	44	35									
14	14	DF	5	44	50	5% - crook, speed wobble								
14	15	DF	4.2	43	45									
14	16	DF	5.1	43	45									
14	17	DF	6.1	44	55									
14	18	DF	7.3	43	55									
14	19	DF	2.9	32	40									
14	20	DF	3.2	32	35			strangled by ivy						
14	21	DF	5.3	40	45									
14	22	DF	5.8	41	50									
14	23	DF	4.7	40	50			strangled by ivy						
14	24	DF	3.2	10	10	5% - broken top								
14	25	DF	4.5	40	45									
14	26	DF	6	42	50									
14	27	DF	7.4	42	75									
14	28	DF	6.1	40	55			strangled by ivy						
14	29	DF	6.3	45	65									
15	1	DF	4	35	25									
15	2	DF	5.4	38	50									
15	3	DF	5.5	41	60									
15	4	DF	6	38	60			strangled by ivy						
15	5	DF	6.1	44	55			strangled by ivy						
15	6	DF	3	32	45									
15	7	DF	2.6	30	45									
15	8	DF	5.5	43	40			mistletoe, strangled by ivy						
15	9	DF	5.2	43	40									
15	10	DF	5	39	45									
15	11	DF	5.4	42	50									
15	12	RA	4.8	39	60									

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