



BRITISH COLUMBIA



# SILVICULTURE PRESCRIPTION PLOT CARD

NUMBERS REFER TO LAND MANAGEMENT HANDBOOK 47

<b>REF.</b>	1. LICENCE NO.	2. LICENSEE	3. C.P.	4. BLOCK	5. STRATUM	6. PLOT NO.						
	7. SURVEYOR(S) (PRINT)			YYYY - MM - DD	8. LOCATION							
<b>SITE</b>	9. ELEVATION (m)	10. ASPECT	11. SLOPE %	12. BGC ZONE	SUB.	VAR.	PH.	SITE SERIES	13. MOIST.	14. NUT.		
	15. SLOPE POSITION <input type="checkbox"/> crest <input type="checkbox"/> middle <input type="checkbox"/> toe <input type="checkbox"/> level <input type="checkbox"/> upper <input type="checkbox"/> lower <input type="checkbox"/> depression			16. SURFACE SHAPE <input type="checkbox"/> convex <input type="checkbox"/> straight <input type="checkbox"/> concave <input type="checkbox"/> hummocky		17. SLOPE LEN. / UNIF <input type="checkbox"/> short <input type="checkbox"/> broken <input type="checkbox"/> long <input type="checkbox"/> uniform		18. SLOPE CONT. <input type="checkbox"/> discontinuous <input type="checkbox"/> continuous		19. GULLIES/100m <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> >2		
<b>UNDERSTOREY</b>	<b>20. UNDERSTOREY (INDICATOR / ABUNDANT SPECIES) (Area 20 m x 20 m<sup>2</sup> or ___ x ___ m )</b>											
	LAYER	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C	SPECIES	% C
	SHRUB											
	HERB											
	MOSS											
	LAYER	SPECIES	% C	SPECIES	% C	SPECIES	% C	21. COARSE WOODY DEBRIS (Note type, features, size, etc. found in the plot)				
	SHRUB											
	HERB											
	MOSS											
	<b>22. COMPETING VEGETATION / NOXIOUS WEEDS</b>											
SPECIES						23. COMMENTS (Expected problem vegetation, potential encroachment from adjacent areas)						
PRESENT HEIGHT (cm)												
EXPECTED HEIGHT (cm)												
PRESENT % COVER												
EXPECTED % COVER												
<b>OVERSTOREY</b>	<b>24. OVERSTOREY</b>											
	LAYER	SPECIES % (Stems/ha)	AGE	HEIGHT	DBH	STEMS/ha	25. LAYER CONDITION / % ACCEPTABLE / COMMENTS					
	VETS		+ 40 over Mature									
	MATURE (M) 12.5 cm +											
	POLES (P) 7.5 -12.5 cm											
	SAPLING (S) 1.3 m-7.5 cm											
	REGEN. (R) < 1.3 m											
	<b>26. SAMPLE TREE DATA (mature layer)</b>											
	SPECIES											
	TOTAL AGE											
HEIGHT												
dbh												
CRN. CLASS												
% LIVE CR.												
10-YR. GR.												

		SOILS															
		27. FOREST FLOOR DEPTH (cm)		28. HUMUS FORM		SOIL HORIZONS (pit depth cm)						34. COL/MOIST.					
		+ + =				29. HORIZON	30. DEPTH (cm)	31. TEXTURE	32. PLASTICITY	33. C. FRAGMENTS % SIZE							
		L	F	H	TOTAL												
<b>SOILS</b>	35. ROOTING DEPTH (cm)	36. DRAINAGE															
	37. SEASONAL SOIL FACTORS (dates: dry, wet, frozen, snow)																
	38. UNFAVOURABLE SUBSTRATES																
	SEEPAGE (MOTTLES / GLEYING) ...		Y / N	Depth it begins		SPECIFY RESTRICT LAYER TYPE (compact or dense material, bedrock, permanent, seasonal)											
CARBONATES .....		<input type="checkbox"/>	_____ cm														
WATER-RESTRICT LAYER .....		<input type="checkbox"/>	_____ cm														
Bt or DENSE PARENT MATERIAL .....		<input type="checkbox"/>	_____ cm														
SANDS / GRAVELS .....		<input type="checkbox"/>	_____ cm														
FRAGMENTAL (> 70% CF) .....		<input type="checkbox"/>	_____ cm														
ROOT-RESTRICT LAYER .....		<input type="checkbox"/>	_____ cm														
OPTIONAL SOILS INFORMATION																	
39. LANDFORM / PARENT MATERIAL						40. SOIL CLASSIFICATION / ASSOCIATION											
41. SURFACE ORGANIC MATTER / SOIL CHARACTERICS								42. C.F. BEDROCK / LITHOLOGY									
43. SOIL HAZARD ASSESSMENT (circle and rate)																	
<b>COMP.</b>	13. MOISTURE (27. FOREST FLOOR)	XERIC TO MESIC OR SUBHYGRIC & H HORIZON < 20 cm								SUBHYGRIC & H HOR. ≥ 20 cm OR HYGRIC TO HYDRIC							
	33. COARSE FRAGMENTS	0 - 70%						> 70%		0 - 70%		> 70%					
	31. TEXTURE (0 - 30 cm)	Clayey <sup>1</sup>	Si, SIL, Loam	SL, f SL <sup>2</sup>	LS, S	all	all	all									
<b>RATING</b>		<b>VH</b>	<b>H</b>	<b>M</b>	<b>L</b>	<b>L</b>	<b>VH</b>	<b>M</b>									
<b>SOIL DISPLACEMENT</b>	11. SLOPE %	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
	POINTS	0	1	1	2	3	3	4	5	6	8	10	12	16	20	26	32
	PLUS FOR GULLIED TERRAIN ONLY, ADD: (2 or more > 2 m deep / 100 m)		N/A	SLOPE GRADIENT			16. PLUS, FOR HUMMOCKY TERRAIN, ADD: (broken terrain, small steep knolls)										
	POINTS	0	< 30% slope	30 - 45%	> 45%	N/A											
			0	2	4	6	0	2									
38. UNFAVOURABLE SUBSTRATE depth (cm)		< 30		30 - 60		61 - 90		> 90									
Hardpan; dense parent material; clean S / gravel; fragmental; carbonates; seepage; bedrock points		12		8		4		0									
<b>Point Total RATING</b>		<b>&lt; 7 points LOW</b>		<b>7 - 14 points MODERATE</b>		<b>15 - 24 points HIGH</b>		<b>&gt; 24 points VERY HIGH</b>									
ORGANIC SOIL COMPOSED OF ≥ 40 cm WET ORGANIC MATERIAL											<b>HIGH</b>						
FOREST FLOORS OVER BEDROCK OR SKELETAL MATERIALS (e.g., Follisols)											<b>VERY HIGH</b>						
<b>SOIL EROSION</b>	PRECIPITATION FACTOR	points	Low	2	Moderate	4	High	6	Very high	8							
	11. SLOPE %	points	0 - 10	1	11 - 20	3	21 - 50	6	> 50	9							
	17. LENGTH / UNIFORMITY	points	short broken	1	short uniform	2	long broken	3	long uniform	4							
	38. WATER-RESTRICTING LAYER	points	> 90 cm	1	61 - 90 cm	2	30 - 60 cm	3	< 30 cm	4							
	31. TEXTURE (0 - 15 cm)	points	SC, C, SIC	1	SiCL, CL, SCL	2	SL, L	4	Si, SIL, fSL, LS, S	8							
	33. % COARSE FRAG. (0 - 15 cm)	points	> 60	1	31 - 60	2	16 - 30	3	< 16	4							
	31. SUBSOIL TEXTURE (16-60 cm)	points	S, LS, SL, fSL	1	L, SIL, Si	2	CL, SCL, SiCL	3	C, SC, SIC	4							
	<b>Point Total RATING</b>		<b>&lt; 16 points LOW</b>		<b>16 - 22 points MODERATE</b>		<b>23 - 31 points HIGH</b>		<b>&gt; 31 points VERY HIGH</b>								



**46. INDICATORS OF POTENTIAL SLOPE INSTABILITY (check applicable boxes)**

- 1. LANDSLIDE FEATURES**  
 recent landslide scars  
 revegetated landslide scars
- 2. VEGETATION FEATURES**  
 partially revegetated strips (may also be snow avalanche tracks)  
 jack-strawed trees (trees tilted in various directions), split trees  
 linear strips of even-aged timber  
 pistol butt (recurved) trees (may also indicate snow creep)  
 wet-site vegetation on slopes > 50%
- 3. SLOPE FEATURES**  
 landslide debris piled on lower slope  
 tension fractures  
 numerous springs at toe of slope, sag ponds  
 curved depressions  
 shallow, linear depressions  
 step-like benches or small scarps  
 displaced stream channels  
 ridged marine deposits

- 4. SOIL FEATURES**  
 soil and rocks piled on the upslope side of trees  
 mixed or buried soil profiles  
 poorly developed soils relative to other comparable slopes  
 shallow, wet, organic soils on slopes > 40%  
 poorly drained medium- to fine-textured materials (e.g., till, lacustrine, marine and some glaciofluvial deposits) > 3 m deep
- 5. BEDROCK /ROCKSLIDE FEATURES**  
 talus or scattered boulders at base of slope  
 rock faces with freshly exposed rock  
 steeply dipping, bedrock discontinuities (bedding planes, joints or fracture surfaces, faults) that parallel the slope  
 bedrock joint or fracture surface intersections that dip steeply out of the slope
- 6. ROAD FEATURES**  
 bulges in road

- 7. GULLY FEATURES**  
 poorly drained or gullied\*, fine-textured materials < 3 m deep on slopes > 50%  
 poorly drained or gullied\*, coarse-textured materials on slopes > 50%  
 recently scoured gullies\*  
 vegetation in gully much younger than the adjacent forest  
 exposed soil on gully sides\*  
 debris piles at the mouths of gullies\*  
 poorly developed soils on gully sides relative to adjacent slopes (repeated shallow failures continually remove the developed soil profile)
- \*Apply the *Gully Assessment Procedure Guidebook (1995)* to any gullied areas on the Coast.
- CONSULT A SLOPE STABILITY SPECIALIST IF ANY INDICATORS ARE FOUND.
- IF CONFIRMED, THEN A TERRAIN STABILITY FIELD ASSESSMENT IS REQUIRED.

- 8. OTHER INDICATORS**  
 piping  
 extensive seeps / springs  
 faulted / fractured rock formations  
 extensive cutbank failures (Interior)  
 tension cracks in middle of road

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**47. COMMENTS / DIAGRAM**

INDICATE SECTION AND ITEM NO. TO WHICH COMMENTS REFER, OR USE FOR SLOPE OR SOIL PROFILE DIAGRAM, ETC.