

CHEAKAMUS COMMUNITY FOREST FIELD LAYOUT & MARKING STANDARDS

Retention Systems Descriptions

May 2010

Stand Level Retention levels and Application	Retained Basal Area Range (m2/ha)	Retention trees/ha & Inter-tree spacing (SPH m)
<p>Low Retention Full sun regeneration with selected retention trees. Open seed tree. Assumption is that residual trees will never be logged, roadside leave trees may be salvaged if wind damaged. Retention trees marked to Leave with Orange Paint line at DBH and paint dots on stump for post harvest verification.</p>	0 -5	0-20 sph scattered
<p>Medium Retention Heavy seed tree or dispersed Shelterwood type areas, commercial thinning or fuel management "shaded fuel break" areas. Residual trees may or may not be logged in the future depending on objectives. Trees selected as large individuals or groups of small dispersed clumps. Retention trees marked to leave with Orange Paint line at DBH and paint dots on stump. Future harvest trees and clumps should be ribboned out in aggregate, located close to trail or road access and areas determined.</p>	5-20	20- 80 sph 17-34 metres
<p>High retention Shelterwood or Retention system; High likelihood of some residual trees and patches being removed some time in the future. Harvest trees marked to Take with Orange Paint dots on tree at DBH and paint dots on stump. Trails given a 5-10m falling right of ways do not need marking. Small groups and openings should be concentrated adjacent to access structures.</p>	20-40	80-300 sph 9- 17 metres
<p>Very High Retention - Single tree selection Individual tree selection from stands. High likelihood of some future entry to remove residual trees if adjacent to constructed access structure. Harvest trees "Marked to Take" with Orange Paint Circles on tree at DBH indicating preference of falling direction and painted dots on stump. Do not mark removal trees to facilitate access structures, simply define and mark the main access routes.</p>	40+	Scattered removal from existing stands.

Primary Stand Level Anchors: Riparian and Small Wetland Management Zones (pink/black stripe), Recreation Trail Zones (orange/black stripe), No harvest ever (pink solid) and Future Harvest Options > 5 years (pink solid)

Candidate Wildlife Trees, Reserve Tree Patches and Old Growth Character

Trees: Any discovered Wildlife Tree candidates can be ribboned out with Orange/black stripe as a safe work area and WT Marked on the candidate tree along with orange band at breast height. This will allow some trees to be removed around the WT, if mechanically falling.

Ribboning and Field Marking Standards:

Purpose for Marking	Flagging colour/ Paint / Stationing
Road or constructed main Skid Trail	Red flagging /slashed paint on line trees & white ribbon at stations. Station metal tags for road stations on main truck road only.
Compartment Boundary (Marked in field only where required adjacent to planned harvest or for other resource management)	Blue flagging / Blue paint two vertical slashes/tree online. Double white ribbon stations with TPs reference Stations to match map, use metal tags on TPs.
Compartment along private or other legal type boundary (Always Marked in field only where required)	Blue and glow Yellow flagging, Blue paint vertical slashes/tree online. White ribbon stations with TPs reference Stations to match map.
'No Cross boundary' (i.e.: Falling Boundary)	Solid Pink flagging / Pink painted line trees and station trees/ White ribbon stations and metal tags for Ref Points to match map.
Treatment Unit boundary (separation between treatment units, modified retention areas, etc.)	Orange & Black tiger stripe flagging / No painting on line / White ribbon FC stations to match map.
Riparian Management Area boundary	Pink and black striped flagging / No paint on line / White ribbon stations for Ref Points.
Machine Free Zone	RMA may be outside of MFZ so use either 3-4" barricade ribbon around wetland feature or flagging with 'MACHINE FREE ZONE'

Volume and Retention Verification (Cruising) procedures:

Cruising is required for Site Plan prescriptions to ensure compliance with the CCF Silviculture Strategy. Cruising is also required for budgeting and contract administration purposes. It is not currently required for appraisal purposes as community forests are on tabular stumpage rates. The simplified field cruising procedures are as follows:

Factor	Field and Office Procedure
Plot spacing location	Variable spacing with a minimum of 4 plots per treatment unit per compartment.
Plot type	100.0 m ² Fixed Area circular plot with radius of 5.642 m. All plots are full measure plots. No count or half plots.
Minimum tree size	17.5 cm DBH merchantable and 12.0 cm sub merchantable.
Diameter & height measurements	All diameters and heights for all trees in the plot are measured.
Tree quality measurements	Call Grade Net Factor (CGNF) standards to be used. Log grades called to be variable depending on instructions.