



Best Management Practices for Coastal Legacy Trees

A. Introduction

The Pacific temperate rainforests ecoregion of North America is one of the richest and most diverse temperate forest ecoregions on earth¹. These coastal rainforests contain enormous trees, referred to as “legacy trees”, which are a result of the area’s favourable growing conditions, including mild year-round temperatures and heavy rainfall. Legacy trees are exceptionally large and old, and a unique feature of British Columbia’s coastal forests.

BC Timber Sales (BCTS) recognizes that legacy trees are often attributed with having important cultural, aesthetic and ecological value. These trees, when retained, can play an important role in habitat conservation by bridging old-growth characteristics into second growth stands. In addition, large trees are increasingly supporting the growing ecotourism economy as valuable destinations in and of themselves. In that context, BCTS’ aim is to retain legacy trees throughout the program’s coastal operating areas in accordance with the protocols below.

B. Scope

The following best management practices for the retention of legacy trees apply to the BCTS business areas of the Strait of Georgia, Seaward-tlasta, Chinook and Skeena, which are located within the Skeena, West Coast and South Coast Natural Resource Regions of British Columbia (BC)².

C. Best Management Practices

1. Guidance for Selection of Legacy Trees for Retention³

A legacy tree is defined as a tree that is of the species and the minimum diameter specified in Table 1.

Table 1: Diameter Guidance for Legacy Tree Retention⁴

Species	Largest Diameter Tree (m DBH)	Diameter (m DBH) Guidance for Legacy Tree Retention
Yellow-cedar	3.7	1.85
Coastal Douglas-Fir	4.2	2.1
Sitka Spruce	4.4	2.2
Western red cedar	6.0	3.0

It is difficult to confirm the exact measurements of standing trees; therefore, the table’s measurements are a guide. It is up to the judgment of the assessor to use both estimated

¹ See: http://wwf.panda.org/about_our_earth/ecoregions/pacific_temperate_rainforests.cfm

² See: https://www.nrs.gov.bc.ca/flnr/files/flnr/media/internal_communications/FLNRO_regional_map_0.pdf?pl=mo-flnr-regional_map

³ The University of British Columbia (UBC) [BC Big Tree Registry](#) is used in this BMP as the reference source to identify the largest trees by diameter and species for those species that are capable of growing to very large diameters in BC. As guidance, this BMP recommends that trees that are at least 50% of the largest diameter of those registered in the UBC Big Tree Registry can be considered as unique and can be considered by BCTS for retention

⁴ Largest Diameter Tree (m DBH) specified in Table 1 as per the UBC Big Tree Registry (Note: Select ‘metric’ and ‘diameter’ parameters in Big Tree Lists report)

measurements and quality indicators to determine if a tree qualifies as a legacy tree suitable for retention.

2. Planning Considerations

Legacy trees selected for retention will often be used to anchor retention patches large enough to protect the integrity of the legacy trees and to protect workers operating in the vicinity. It is anticipated that a majority of legacy trees will be retained within areas that will normally be set aside from harvesting (e.g., riparian management zones, wildlife tree retention patches, ungulate winter ranges, wildlife habitat areas, old growth management areas, riparian reserve zones and any other areas reserved for non-timber harvesting activities). However, despite best efforts, it is also recognized that it may not be possible to retain all legacy trees.

3. Operational Factors

Legacy trees may need to be felled during or after primary harvesting operations if they constitute a safety hazard (or are affected by other operational factors) that cannot be addressed through other means.

Operational factors to consider in making a decision of whether to retain a legacy tree will be based on, but not limited to, the following considerations:

- a. Worker safety.
- b. Operational constraints associated with the location of a tree, potential isolation of timber and impacts to cutblock design, in particular in cutblocks that rely on overhead cable harvest systems.
- c. Windfirmness of the tree.
- d. Known First Nations' interests based on recent consultation.
- e. Local abundance of legacy trees.

4. Field Marking, Mapping and Documentation

All legacy trees selected for retention will be marked in the field, mapped, and visually inspected, and their key characteristics (e.g., species, estimate height, diameter at breast height, form and overall condition) recorded and forwarded to BCTS headquarters for inclusion in the BCTS Legacy Tree Ledger⁵. This information will also be documented in the Results section of the Site Plan and supporting documentation.

5. Relationship Between Legacy Trees and Monumental Cedars

Where BCTS Forest Stewardship Plans (FSPs) or other commitments warrant a different management approach such as for monumental cedars, large cultural cedars or culturally modified trees that also fit the definition of legacy trees, those commitments supersede BCTS' Best Management Practices for Coastal Legacy Trees.

⁵ Any tree that meets the criteria for the BC Big Tree Registry will be officially registered.



Best Management Practices for Coastal Legacy Trees Spatial Tracking Procedure

Procedure:

Spatial tracking of Coastal Legacy Trees, selected in the field, will utilize BCTS' existing spatial layer within the BCTS database management system (Trimble Resources/LRM). A new feature type will be added and the comment field will be used for recording their key characteristics.

Layout Point Layer

ATTRIBUTE	DATA TYPE	FIELD PROPERTIES
FEATURE_TYPE	Text	10
COMMENTS	Text	254
SUPPRESS	Text	3
LICENSE	Text	6
CUT_PERMIT	Text	6
MARK	Text	10
BLOCK	Text	20
SHAPE	Geometry	
ROTATION	Numeric	
LABEL	Text	25
SOURCE_DATE	Date	
CUTB_SEQ_NBR	Double	38

FEATURE_TYPE

Mandatory required field

- **CLT** – Coastal Legacy Tree

COMMENTS

Mandatory required field – populate with key characteristics

Syntax will be comma delineated

- **CLT NUMBER** – CLT0000
 - TCH – will use numbers starting at 1000
 - TSG – will use numbers starting at 2000
 - TST – will use numbers starting at 3000
 - TSK – will use numbers starting at 4000
- **SPECIES** – Yc/Fd/Ss/Cw
- **ESTIMATED HEIGHT** – in meters (rounded to 0.1m)
- **DBH** – in meters (rounded to 0.1m)
- **CROWN SPREAD** – in meters

Example (metrics can be used to calculate a Tree Importance Score, based on the BC Big Tree Registry requirements)

- CLT1001, Cw, 70.0, 3.5, 12.5

LICENSE

Optional field

CUT_PERMIT

Optional field

MARK

Optional field

BLOCK

Optional field

SOURCE_DATE

Mandatory required field

- Enter date the tree was tagged in field

Effective: January 1, 2018