BRITISH COLUMBIA

Ministry of Forests

Office of the Minister

MEMORANDUM

File: 280-20/195-30/CAPP

August 16, 2002

To: Regional Managers - Coast

From: The Honourable Michael de Jong
Minister of Forests

Re: Amendment No. 1 to the *Coast Appraisal Manual*

I hereby approve Amendment No. 1 to the *Coast Appraisal Manual* and attach a copy for your use. The following sections have been amended.

Section 3.2.2(9):	Now applies to single tree selection.
Section 4.1.1:	Replaces partial harvesting with single tree selection and group selection.
Section 6.6.3:	Defines application of root buck rate in Table 6-1.
Table 6-1:	Includes a rate for root buck.

This amendment will come into force on September 1, 2002. Further amendments or revisions to this manual require my approval.

for Michael de Jong
Minister of Forests

Attachment

pc: Bill Howard, Director, Revenue Branch

All Subscribers, *Coast Appraisal Manual*

BRITISH COLUMBIA Ministry of Forests

MANUAL REVISION TRANSMITTAL

FOR FURTHER INFORMATION CONTACT:

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MANUAL TITLE
Coast Appraisal Manual

REVISION No.	**ISSUE DATE**
Amendment No. 1	September 1, 2002

MANUAL CO-ORDINATOR
Judy Laton
Revenue Branch

AUTHORIZATION (Name, Title)
W. Howard
Director, Revenue Branch

Please make the following changes to your copy of the above Ministry manual. Please insert the following specified pages and **file this notice** immediately after the Amendments Tab.

ACTION (Remove/Insert)	(VOL.) CHAPTER-SECTION-SUBJECT	PAGE(S)	COMMENTS
REMOVE	Table of Contents		After Table of Contents Tab
INSERT	Table of Contents		After Table of Contents Tab
REMOVE	Chapter 3	5 - 8	After Chapter 3 Tab
INSERT	Chapter 3	5 - 8	After Chapter 3 Tab
REMOVE	Chapter 4	3 - 4	After Chapter 4 Tab
INSERT	Chapter 4	3 - 4	After Chapter 4 Tab
REMOVE	Chapter 6	7 - 8	After Chapter 7 Tab
INSERT	Chapter 6	7 - 8	After Chapter 7 Tab
REMOVE	Data Sheet	3	Operating Cost Information
INSERT	Data Sheet	3	Operating Cost Information
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4. Before a two year billing history record for a species of timber can be used in an appraisal or reappraisal, that two year billing history record must be at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater.

5. Where there is not at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater, within the two year billing history record of a tree farm licence area or a timber supply area.

   a. the billing history record that will be used for that species of timber will be the five year billing history record, and

   b. where the effective date of the appraisal or reappraisal falls within the period of the year listed in Column 1 of Table 3-1 or Table 3-2, the five year billing history shall end on the corresponding date in Column 2 of Table 3-1 or Table 3-2, which immediately precedes the effective date of the appraisal or reappraisal.

6. Where the cutting authority area of a cutting authority is issued under a woodlot licence is appraised or reappraised the log grade percentages for each species of timber will be derived from the cruise compilation algorithm predictions.

7. Where the cutting authority area of a cutting authority issued under the small business forest enterprise program, or a replaceable timber sale licence that does not consist of second growth coniferous timber is appraised or reappraised, the log grade percentages for each species of timber will be derived from:

   a. the two year billing history record, where the two year billing history record for that cutting authority includes at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater, or

   b. the cruise compilation algorithm predictions, where the two year billing history record for that cutting authority does not include at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater.

8. Where the cutting authority area being appraised or reappraised contains second growth coniferous timber and is not a cutting authority area referred to in subsections (6) or (7) of this section, the log grade percentages for each species of timber will be derived from either:

   a. the two year billing history record, where the two year billing history record for that cutting authority includes at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater, or

   b. the cruise compilation algorithm preditions, where the two year billing history record for the cutting authority does not include at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater.

9. Where the entire net cruise volume of the cutting authority area being appraised or reappraised will be harvested by single tree selection, the log grade percentage for each species of timber will be derived from the cruise compilation algorithm predictions.

10. a. For cruises compiled before April 1, 2002, the cruise summary log grade data for cedar grades D and K, F and L, and I and M must be separated by using the proportional grade percentages from the first appropriate level in section 3.2.3.

    b. For cruises compiled on and after April 1, 2002 the cedar grades will be separated by the cruise compilation program.

3.2.3 Source of Log Grade Percentage for Each Cutting Authority

1. Except for those cutting authorities or cutting authority areas referred to in subsections 3.2.2 (6), 3.2.2 (7), 3.2.2 (8) and 3.2.2(9), the log grade percentages for each species of timber for the cutting authority area being appraised or reappraised will be determined in accordance with:

    a. Section 3.2.3.1, where the cutting authority area is entirely within the geographic boundaries of one tree farm licence, or

    b. Section 3.2.3.2, where the cutting authority area is entirely within the geographic boundaries of one timber supply area.

3.2.3.1 Log Grade Percentages for a Cutting Authority Area Within the Geographic Boundaries of a Tree Farm Licence

Where the cutting authority area being appraised or reappraised is entirely within the geographic boundaries of a single tree farm licence area, the log grade percentages for the cutting authority area will be determined in the following manner:

1. a. Where the cutting authority area is comprised of at least eighty percent second growth coniferous timber, the log grade percentages for that cutting authority area will be determined in accordance with the requirements of subsection 3.2.2 (8).

    b. Where the cutting authority area is not comprised of at least eighty percent second growth coniferous timber, then the person determining the stumpage rate will proceed to subsection 2 of this section.

2. a. Where the cutting authority area is the only cutting authority area in the cutting authority and is entirely within the geographic boundaries of a single timber

licence, the person determining the stumpage rate will proceed to subsection 3 of this section.

b. Where subsection 2 (a) of this section is not applicable, the person determining the stumpage rate will proceed to subsection 4 of this section.

3. a. Where the species being considered has a billing history record for that timber licence that meets the criteria of subsection 3.2.2 (4), then that billing history record will be the source of the log grade percentages for that species, or

b. Where there is no such billing history record, the person determining the stumpage rate will proceed to subsection 4 of this section.

4. a. Where the species being considered has a billing history record for the portion of the tree farm licence area that lies within the geographic boundaries of the forest district that contains the cutting authority area and that meets the criteria of subsection 3.2.2 (4), then that billing history record will be the source of the log grade percentages for that species, or

b. Where there is no such billing history record, the person determining the stumpage rate will proceed to subsection 5 of this section.

5. a. Where the species being considered has a two year billing history record for the entire tree farm licence area that contains at least 25 percent of the cutting authorities' net cruise volume of that species or 2 000 m^3 whichever is greater, then that billing history record will be the source of the log grade percentages for that species, or

b. Where there is no such billing history record, the person determining the stumpage rate will determine the log grade percentages for that species in accordance with subsection 3.2.2 (5).

3.2.3.2 Log Grade Percentages for a Cutting Authority Area Within a Timber Supply Area

Where the cutting authority area being appraised or reappraised is entirely within the geographic boundaries of a single timber supply area, of the log grade percentages for the cutting authority area will be determined in the following manner:

1. a. Where the cutting authority area is comprised of at least eighty percent second growth coniferous timber, the log grade percentages for that cutting authority area will be determined in accordance with the requirements of subsection 3.2.2 (8), or

   b. where the cutting authority area is not comprised of at least eighty percent second growth coniferous timber the person determining the stumpage rate will proceed to subsection 2 of this section.

2. a. Where the cutting authority area is entirely within the geographic boundaries of a timber licence or licences, the person determining the stumpage rate will proceed to subsection 3 of this section, or

   b. where the cutting authority area is not entirely within the geographic boundaries of a timber licence or licences, the person determining the stumpage rate will then proceed to subsection 4 of this section.

3. a. Where the species being considered has a billing history record for that timber licence or licences that meets the criteria of subsection 3.2.2 (4), then that billing history record will be the source of the log grade percentages for that species, or

   b. where there is no such billing history record, the person determining the stumpage rate will proceed to subsection 6 of this section.

4. a. Where the species being considered has a billing history record for the supply block of the timber supply area for the cutting authorities that were issued under the same licence as the cutting authority area being appraised or reappraised and that billing history record meets the criteria of subsection 3.2.2 (4), then that billing history record will be the source of the log grade percentages for that species, or

   b. where there is no such billing history record, the person determining the stumpage rate will proceed to subsection 5 of this section.

5. a. Where the species being considered has a billing history record for the timber supply area for the cutting authorities that were issued under the same licence as the cutting authority area being appraised or reappraised and that billing history record meets the criteria of subsection 3.2.2 (4), then that billing history record

4.1.1 Specified Operations

In addition to the logging phases and systems that are covered by this manual, there are specified operations which require special cost estimates.

The following is a complete list of specified operations for which certain cost phase estimates are based on the information on hand rather than on the tables and formulas in this manual. Specified operation cost estimates are combined with associated *Coast Appraisal Manual* phase cost estimates to determine the total operating cost for the cutting authority being appraised.

SPECIFIED OPERATIONS	AFFECTED PHASE
A-frame Logging	Tree-to-Truck (section 4.4)
Blowdown Timber	Tree-to-Truck (section 4.4)
Single Tree Selection [1]	Tree-to-Truck (section 4.4)
Group Selection [2]	Tree-to Truck (section 4.4)
Skyline Logging	Tree-to Truck (section 4.4)
Lake Transportation	Log Transportation (section 4.5)
Skidder Swinging	Log Transportation (section 4.5)
Towing to Tie-up Grounds (over 10 km Distance)	Log Transportation (section 4.5)
Camp Moves (of greater than 10 km)	Administration and Other Costs (section 4.6) except Helicopter Logging
Destumping for Root Disease Control	Administration and Other Costs (section 4.6)
Tree Crown Modification	Administration and Other Costs (section 4.6)

1. For the purposes of this Manual, single tree selection means the harvest of single trees and the retention of adjacent dominant and co-dominant single trees, resulting in a uniform cut to leave pattern with at least thirty percent of the volume within each one hectare sub-area of the cutting authority area retained as standing trees.

2. For the purposes of this Manual, group selection means the harvest of several or many trees that results in a pattern of openings, with no opening more than 1 hectare in size.

The specified operations phase costs are monitored and updated by the regional manager and may not be part of the annual cost collection and analysis process.

4.2 Appraisal and Reappraisal Data Requirements

The cruise and all other pertinent information required for the appraisal must be submitted with the appropriate coast appraisal data submission.

Unless otherwise specified by the director, Revenue Branch, cruise data must be gathered and compiled according to the approved utilization specifications and in accordance with the following ministry of forests publications:

- Ministry of Forests *Cruising Manual*,
- Ministry of Forests *Cruise Compilation Manual*,
- Forest Service Policies (e.g., Timber Utilization Policy & Procedures for the Coast of the Province), and
- Regional Publications (e.g., chapter 9 of *Cruising Manual*).

In order to verify the accuracy of the cruise compilation program, the licensee must provide, on request, photocopies of the tally sheets and a magnetic copy of the compilation in a format required by the regional manager.

The appraisal is done using the net cruise volume of timber. The net cruise volume (m^3) is the gross volume (m^3) less decay, waste and breakage for all the species listed in section 3.3. The cutting authority total net cruise volume is determined by multiplying the net cruise volume per hectare (m^3/ha) by the total merchantable timbered area (ha) to be harvested under the cutting authority. The total merchantable timbered area is determined from the cruise summary.

If the application for a cutting authority is subsequently modified, the cruise submission must be recompiled by the applicant when more than five percent of the total number of compiled plots used in the cruise submission lie outside the boundaries established for the initial appraisal of the cutting authority.

Each reappraisal of a cutting authority area that has been amended after the appraisal must be done using the net cruise volume by species which is determined by adjusting the original cruise volume on the basis of approved amendments after the appraisal.

Plots located in areas requiring helicopter logging or specified operations are included in the cruise compilation calculation of conventional logging.

6.6 Miscellaneous Stumpage Rates

Unless otherwise specified in a cutting authority certain special forest products, including deciduous species, low grade logs and timber in specified areas listed in Table 6-1, the miscellaneous stumpage rates in Table 6-1 shall apply.

6.6.1 Special Forest Products and Other Miscellaneous Rates

Table 6-1 is to be used for determining stumpage rates for the specified products when scaled.

6.6.2 Salvage Logging Rates

The qualifying criteria and methodology for developing salvage logging rates for round logs will be specified by the regional manager. The source of salvaged timber is:

1. Post Harvest Material:
    a. Wooden culverts and bridges, and
    b. Post logging residue.
2. Damaged Timber:
    a. Blowdown green and aged timber, and
    b. Fire, disease, snow press and insect damaged timber.

6.6.3 Root Buck

A root buck rate may apply to any species of stray logs salvaged in coastal waters below the high tide mark when exempted, under section 94(5) of the *Forest Act* or pursuant to section 16(4)(d)(iii) of the *Log Salvage Regulation* for the *Vancouver Log Salvage District*, to allow for the bucking of roots (rootbucking) prior to scaling. Excludes logs salvaged from coastal waters within the boundaries of the North Coast and Kalum Forest Districts as established by the *Forest Regions and Districts Regulation B.C. Reg. 19/2000.*

The rate for root buck is listed in table 6-1.

Table 6-1: Miscellaneous Stumpage Rates

Vancouver Forest Region and North Coast Forest District

Coniferous Species	Product	Reserve Rate
Cedar & other	Shake and Shingle Bolts and Blocks	$ 5.30/m^3
Cedar	Shakes - Handsplit	$ 6.00/m^3
Cedar	Shakes - Blanks	$ 7.20/m^3
Cedar	Fence Posts and Fence Rails	$ 3.00/m^3
Cedar	Sticks and Stakes (round or split)	$ 2.00/m^3
Cedar	Hop Poles	$ 1.30/m^3
Cedar & other	Cants *	$ 9.60/m^3
Cypress	Cants *	$ 9.60/m^3
Yew	All	$ 0.25/m^3
Deciduous Species		
Alder & Cottonwood	Where Alder and Cottonwood are appraised in the stand as a whole reserve rate, then the lesser of the reserve rate reduced if applicable (CVP only), or $1.00.	$1.00/$m^3$
All other Deciduous Species	The reserve rate is	$1.00/$m^3$
All Species		
All Species	Grade Y	$ 0.25/m^3
All Species	Firewood	$ 1.00/m^3
All Species	Christmas Trees: less than 3m 3 to 5m More than 5m	$ 0.20 each $ 1.00 each $ 1.50 each
All Species	Root buck	$7.80/$m^3$
All Species	Logs salvaged in the Vancouver log salvage district under the *Forest Act,* Part 9, and stray logs salvaged elsewhere in coastal waters below the high tide mark (unless logs are salvaged from an area while it is under closure under the *Forest Act,* Section 126).	$ 0.70/m^3
All Species	Logs salvaged at Wahleach Island catchment basin operated by B.C. Debris Control Board.	$ 0.25/m^3

* Note: Cants are produced from dead and down post logging material that would not make a sawlog as determined by the regional manager.

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OPERATING COST INFORMATION

TREE TO TRUCK COSTS ESTIMATES

AVERAGE SIDE SLOPE	%	IMMATURE CONIFEROUS STAND	Yes or No
CABLE YARDING	m^3	GROUND SYSTEMS	m^3
LAND DROP	m^3	WATER DROP	m^3

A-FRAME	m^3	$/m^3$	SKYLINE	m^3	$/m^3$
COMMERCIAL THINNING	m^3	$/m^3$	BLOWDOWN	m^3	$/m^3$
DESCRIPTION					$/m^3$

LOG TRANSPORTATION

TRUCK HAULING

AVERAGE HAUL DISTANCE (NEAREST 0.1 KM) km

WATER TRANSPORTATION
(Estimate based on Point of Origin)

1) CODE | | | | | IF AVERAGING 2) CODE | | | | |

NAME (1) NAME (2)

ROAD USE CHARGE

TOTAL APPROVED CHARGES $/m^3

Attach details and the approved "Request for a Road Use Charge Approval" form must be submitted on Appendix 3.

IS MAINTENANCE REQUIRED? Yes or No

DESCRIPTION $/m^3

ADMINISTRATION AND OTHER COST ESTIMATES

ONE WAY DISTANCE (NEAREST 0.1 KM) _____ km

Location Description

IS THE CUTTING PERMIT ACCESSIBLE? Yes or No

DESCRIPTION $/m^3

DEVELOPMENT

IS THERE TABULAR ROAD CONSTRUCTION		Yes or No	TOTAL ROAD LENGTH (Sum of all tabular road section lengths)	km
H-LENGTH > 90% OF THE TOTAL ROCK LENGTH		Yes or No	TOTAL LENGTH OF HARD ROCK SECTIONS	km