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To: Jim Gowriluk
Regional Manager
Coast Forest Region

From: The Honourable Pat Bell, Minister of Forests and Range

Re: **Amendment No. 2 to the *Coast Appraisal Manual***

I hereby approve Amendment No. 2 to the *Coast Appraisal Manual* and attach a copy for your use. The following section has been amended:

Section 1.1	Definitions added
Section 3.3(2)	Updated section reference
Section 3.3.4	New policy on pricing timber on linear tenures
Section 3.3.5	Updated section references
Section 3.5(1)(b)	Updated section reference
Section 4.2	Calculation of isolated is clarified
Table 4-1	Latitude and longitude have been converted to BC Albers Co-ordinates
Table 4.2.1 (1)(b)	“mature” is replaced with ‘old growth’
Table 4-5	“southwest bay” corrected to “southeast bay”
Section 6.1.1(1) and (4)	“mature” replaced with “old growth”
Section 7.2	Revised stumpage rates for Community Forest Agreements and woodlot licences.
Section 7.2(b)	Revised definition of Northern Coast Zone.
Section 7.7	New section on pricing timber on linear tenures

Table 7-2 New product code and rates for woodchips and hogged tree material

Appendix: Corrected coordinates for southeast bay

This amendment will come into force on April 1, 2009. Further amendments or revisions to this manual require my approval.

A handwritten signature in black ink, appearing to read 'Pat Bell', written in a cursive style.

Pat Bell
Minister

Attachment

pc: Murray Stech, Director, Revenue Branch

<p>FOR FURTHER INFORMATION OR IF YOU HAVE A CHANGE OF ADDRESS, PLEASE CONTACT:</p> <p>George Silvestrini Senior Timber Pricing Forester (Coast) Revenue Branch Ministry of Forests 1st Floor, 1520 Blanshard Street Victoria, BC V8W 3K1 Phone: 250 - 387-8377 PROFS userid: George.Silvestrini@gov.bc.ca FAX: 250 - 387-5670</p>	MANUAL TITLE	
	Coast Appraisal Manual	
	AMENDMENT	ISSUE DATE
	Amendment No. 2	April 1, 2009
MANUAL CO-ORDINATOR		
Judy Laton Administrative Co-ordinator		
AUTHORIZATION (Name, Title)		
Murray Stech Director, Revenue Branch		

Please make the following changes to your copy of the above Ministry manual.

ACTION (Remove/Insert)	(VOL.) CHAPTER-SECTION-SUBJECT	PAGE(S)	COMMENTS
	TABLE OF CONTENTS		
Remove	Table of Contents	i - vi	After Table of Contents Tab
Insert		i - vi	
Remove	Chapter 1	3 - 4	After Chapter 1 Tab
Insert		3 - 6	
Remove	Chapter 3	3-4 7 - 14	After Chapter 3 Tab
Insert		3-4 7 - 14	
Remove	Chapter 4	3 - 6 17 - 18	After Chapter 4 Tab
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Remove	Appendix	19 - 20	After Appendix Tab
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"**Deciduous timber**" means timber that is any of the alder, birch, cottonwood and maple species;

"**Detailed engineering**" means non-tabular;

"**Director**" means director of Revenue Branch of the Ministry of Forests and Range;

"**District manager**" means:

- (a) Except as provided in paragraph (b) of this definition, the district manager or district manager's designate.
- (b) Where the cutting authority area being appraised or reappraised is located in a controlled recreation area designated under the *Resort Timber Administration Act*, (RTAA) then district manager means an employee of the Ministry of Tourism, Sports and the Arts to whom the minister of that ministry has delegated the minister's powers and duties under section 2 of the RTAA.

"**Helicopter Selection**" means the harvesting of single trees within standing residual timber that have been felled and then removed using a helicopter;

"**Hogged Tree Material**" means tree residues or by-products that have been shredded into smaller fragments by mechanical action. All post-harvest material where a waste assessment has been made and the material will be hogged at the roadside or the landing;

"**Immature coniferous timber**" means coniferous timber that is younger than 121 years old;

"**Licensee**" means the holder of a cutting authority;

"**Low grade**" means grades 'X' and 'Y' of all species and 'U' grade hemlock and balsam;

"**Main Access Road**" means a long-term (i.e., in use for more than ten years) mainline road that is tributary to the appraised cutting authority area, or is used to transport bulk fuels, supplies, equipment or harvesting crews necessary to carry out day-to-day harvesting activities on that area, and has an average stabilized subgrade width greater than seven metres;

"**Manual**" means *Coast Appraisal Manual*;

"**Mature coniferous timber**" means coniferous timber that is 121 years old or older;

"**Minister**" means Minister of Forests and Range;

"**Ministry**" means Ministry of Forests and Range;

"**Net cruise volume**" means the gross volume of all species listed in section 4.2.3(1), plus alder, birch, cottonwood and maple in the cutting authority area minus the volume of decay, waste and breakage in that timber unless otherwise specified in the *Cruising Manual*;

"**Old growth coniferous timber**" means coniferous timber that is 141 years old or greater;

"**Regional manager**" means regional executive director or regional executive director's designate;

"**Regulations**" means regulations under the *Act*;

"**Remaining volume**" means the total net cruise volume of a cutting authority area minus the total volume of timber in the billing history record of the cutting authority area on the effective date of the reappraisal of the cutting authority area;

"**Revenue Branch**" means Revenue Branch of the Ministry;

"**Second growth coniferous timber**" means coniferous timber that is less than 141 years old;

"**Selling price zone 51**" means the table of coast market pricing system log values for old growth coniferous timber, approved by the director, Revenue Branch;

"**Selling price zone 52**" means the table of coast market pricing system log values for second growth coniferous timber, approved by the director, Revenue Branch;

"**Stumpage price**" means the market stumpage price;

"**Stumpage rate**" means market stumpage rate;

"**Skyline**" means any method of yarding where the logs are fully suspended above the ground by a short span, long span, or multi-span system using a carriage with standing or running lines;

"**Total net cruise volume**" of a cutting authority area (tncv) is the product of the net cruise volume per hectare of the cutting authority area (ncv/ha) multiplied by the total merchantable timbered area to be harvested under the cutting authority (tmta). Expressed as an equation:
$$\text{tncv} = \frac{\text{ncv}}{\text{ha}} \times \text{tmta};$$

"**Tributary cutting authority area**" means a cutting authority area from which timber must be transported over the road that is developed, or a cutting authority area to which bulk fuels, supplies, equipment and harvesting crews necessary to carry out the day-to-day harvesting activities on that area must be taken on a regular basis over the road that is developed;

"Unit cost" means cost estimate expressed in dollars per cubic metre;

"Woodchips" means timber that has been cut into small pieces by a chipper. Made from post-harvest material where a waste assessment has been made and the material will be chipped at the roadside or the landing.

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3.2 Appraisals

1. An appraisal is a process used to determine a stumpage rate for a cutting authority area using the manual in effect on the effective date of the cutting authority. The appraisal is effective on the effective date of the cutting authority.
2. A licensee or BCTS shall submit the appraisal data submission to the district manager when the licensee or BCTS makes an application for a cutting authority.
3. The district manager may require the licensee or BCTS to complete and submit an estimated stumpage rate calculation for both helicopter and cable methods of harvesting when the district manager is not satisfied that the method proposed by the licensee or BCTS is the only method that is suitable for the area intended to be harvested.
4. The district manager may review the licensee or BCTS appraisal data submission and may inform the licensee or BCTS of any omissions, errors or provisions of the manual that, in the opinion of the district manager, the signing RPF or RFT may not have considered. The licensee or BCTS signing RPF or RFT may consider the district manager's information and may revise the appraisal data submission.
5. The district manager shall give any information supplied by the licensee or BCTS under this section to the person who determines the stumpage rate together with any other information that the district manager considers relevant to the appraisal.
6. The person who determines the stumpage rate may review the licensee or BCTS submission, and information supplied by the district manager, and may inform the licensee or BCTS of any omissions, errors or provisions of the manual that, in the opinion of the person who determines the stumpage rate, the signing RPF or RFT may not have considered. The licensee or BCTS signing RPF or RFT may consider the information and may revise the appraisal data submission.
7. The person who determines the stumpage rate shall consider:
 - a. the information provided by the licensee or BCTS and the district manager, and
 - b. any information available to the person who determines the stumpage rate that is relevant to the appraisal.
8. Regional staff will notify the applicant of the stumpage rate determination.

3.3 Reappraisals

1. A reappraisal is a process used to redetermine a stumpage rate for a cutting authority using the manual in effect on the effective date of the reappraisal.
2. Except as provided for under sections 3.3.1(1)(d), 3.3.1(2)(d), 3.3.2, 3.3.3, 3.3.4 and 3.3.5, a reappraisal is based on a complete reassessment of the cutting authority area on the effective date of the reappraisal, as if the area has been returned to the condition as it was prior to development or harvesting.
3. Non-tabular cost estimates made in the appraisal of a cutting authority area may be re-estimated once in a subsequent reappraisal after works have been constructed using information required under section 5.3.4.
4. Road development costs originally estimated using ministry approved competitive bids may not be re-estimated in a reappraisal.

3.3.1 Changed Circumstances

1. A changed circumstance on or in relation to a cutting authority area where the effective date of the most recent appraisal or reappraisal of the cutting authority area prior to the circumstance was prior to June 1, 2006 means a circumstance where:
 - a. (i) The licensee planned or plans to use a method of harvesting to harvest at least twenty-five percent of the volume of timber in the cutting authority area that was or is different from the method that was planned to be used for that timber at the time of the most recent appraisal or reappraisal of the cutting authority area, and
 - (ii) the different method of harvesting that was or is planned to be used:
 - (aa) when used in the changed circumstance reappraisal will produce the highest stumpage rate, and
 - (bb) is or was different from the method of harvesting that was used in the most recent appraisal or reappraisal, or
 - b. The licensee planned or plans a change in the amount of road development that will lead to a difference of at least twenty-five percent between the total road development unit cost that was used in the most recent appraisal or reappraisal and the total road development unit cost that will be used in a changed circumstance reappraisal done in accordance with the changed circumstance reappraisal procedure, or
 - c. land containing merchantable timber has been either added to or deleted from

4. Where the changed circumstance is a result of sudden and severe damage referred to in subsection 3.3.1(1)(d) or 3.3.1(2)(d), the effective date of the reappraisal is the first day of the month following the date when the event that caused the sudden and severe damage stopped on the cutting authority area.

3.3.2 Annual Reappraisal of a Road Permit

1. Subject to section 7.3, a cutting authority area that is the subject of a road permit must be reappraised effective February 1st of every year.
2. The stumpage rate determined under subsection (1) of this section will be a fixed stumpage rate until the cutting authority area is reappraised.

3.3.3 Annual Reappraisal of Salvage Logging Stumpage Rates

1. Except where a cutting authority requires the payment of a bonus bid or a bonus offer, where the stumpage rate for a cutting authority has been determined under section 7.4, the cutting authority area authorized for harvest under that cutting authority must be reappraised effective March 1st of every year.
2. A stumpage rate determined under subsection 1 of this section will be a fixed stumpage rate between the time that the cutting authority area is reappraised and the time that it is subsequently reappraised.

3.3.4 Annual Reappraisal of a Linear Tenure

1. Subject to section 7.7, a cutting authority area that is the subject of a linear tenure must be reappraised effective March 1 of every year.
2. A stumpage rate determined under subsection (1) of this section will be a fixed stumpage rate until the cutting authority area is reappraised.

3.3.5 Minister's Direction

1. The Minister may direct:
 - a. a determination, redetermination or variance of a stumpage rate at any time, and that
 - b. the determined, redetermined or varied stumpage rate will be effective on any future date.

3.3.5.1 Minister's Direction Procedure

1. If requested by the person responsible for stumpage determinations, the licensee shall submit to the district manager an appraisal data submission within forty-five days of the request.

2. Thereafter, the procedure for determining, redetermining or varying a stumpage rate under section 3.3.5 shall be the same procedure as that required by subsections 3.2 (3) through 3.2 (8) except as may otherwise be directed by the minister.

3.4 Quarterly Adjustments

1. Unless a cutting authority, previous manual, or a provision of this manual specifies that the stumpage rates of a cutting authority are fixed, the stumpage rate of a cutting authority is adjusted quarterly on January 1, April 1, July 1, and October 1 of each year.

2.
 - a. At the time of the quarterly adjustment referred to in subsection (1) of this section, the stumpage rate will be recalculated in accordance with the equations applicable for the appraisal effective date and the appraisal data submission which was used in the most recent appraisal or reappraisal. The log selling prices and CPI effective for the month of the adjustment will be used in the calculation of the adjustment. All other data, including the estimated number of bidders, will remain unchanged.

 - b. The procedure referred to in this subsection is conducted each quarter until the cutting authority area is reappraised or the cutting authority expires.

3.5 Fixed Rates and Extensions of Term

Timber Sale Licences

1. A fixed stumpage rate for a timber sale licence means that the upset stumpage rate and bonus bid will not change during the term of the timber sale licence and all extensions, except where:
 - a. a reappraisal is done under section 3.3.1(d) due to sudden and severe damage, or
 - b. a reappraisal is done under section 3.3.5 due to the Minister's direction.
2. Every timber sale licence entered into under section 20 of the *Act* that was advertised on or after November 1, 2003 must have a fixed stumpage rate.
3. Notwithstanding anything to the contrary in this manual, a fixed stumpage rate for a timber sale licence may not be corrected where there has been an error in the appraisal.

Woodlots

4. a. The stumpage rate for a cutting authority issued under a woodlot licence shall be an adjusting stumpage rate unless:
 - i) the stumpage rate for the cutting authority is changed to a non-adjusting stumpage rate under this section,
 - ii) the cutting authority is a road permit, or
 - iii) the cutting authority stumpage rates were calculated under section 7.2, 7.3 or section 7.4.
- b. A licensee may choose to have an adjusting stumpage rate changed to a non-adjusting stumpage rate under this subsection by giving written notice of that choice to the regional appraisal coordinator.
- c. Where the licensee gives notice to the regional appraisal coordinator of that choice, the adjusting stumpage rate shall become a non-adjusting stumpage rate based on the following criteria:
 - i) if the licensee gives written notice to the regional appraisal coordinator within 21 days of receipt of the stumpage advisory notice, the non-adjusting stumpage rate will be the stumpage rate in effect on the effective date of the cutting authority, or

- ii) if the licensee gives written notice to the regional appraisal coordinator later than 21 days following receipt of the stumpage advisory notice, the non-adjusting stumpage rate will be the stumpage rate in effect three weeks after the regional appraisal coordinator receives the notice.
- d. On the date that the stumpage rate becomes a non-adjusting stumpage rate, the stumpage rate for the cutting authority continues to be the stumpage rate of the cutting authority that was in effect on that date.
- e. Where a stumpage rate is changed from an adjusting stumpage rate to a non-adjusting stumpage rate, the stumpage rate for the cutting authority shall not change for the term of the cutting authority and all extensions from the date that the stumpage rate is changed to a non-adjusting stumpage rate, except where the cutting authority area is reappraised under section 3.3.1(d) or under section 3.3.3.

Average Stumpage Rates by District and Species

- 5. Where the stumpage rate for a cutting authority has been determined under section 7.1, 7.5 or section 7.6 and the term of the cutting authority is extended, the stumpage rate shall not change during the term of the cutting authority and all extensions.

Miscellaneous Stumpage Rates

- 6. Except where miscellaneous stumpage rates are otherwise specified in a cutting authority the miscellaneous stumpage rates applicable to timber under section 7.7 are the rates that are in effect on the date that the timber is scaled.

3.6 Correctable Errors

1. In this section, a correctable error means:
 - a. an error made by a Ministry employee in selecting or transcribing the correct log grade source, or
 - b. a stumpage adjustment calculation that has not been made by using a stumpage appraisal parameter in effect on the effective date of the stumpage adjustment.
2. Where a person believes that a correctable error has been made in a stumpage determination, that person shall give written notice of the correctable error as follows:
 - a. in the case of an appraisal or a reappraisal, the notice shall be given to the regional manager, and in the case of a quarterly adjustment, the notice shall be given to the director, and
 - b. the notice shall identify the stumpage determination, the correctable error, and the cause of the correctable error to the extent reasonably possible.
3. The regional manager or the director, upon receipt of the notice shall determine whether or not a correctable error was made.
4. Where the regional manager or the director determines that a correctable error has not been made, the person who determined the stumpage rate or director shall notify the person who gave the notice of the correctable error.
5. Where the regional manager or the director determines that a correctable error has been made, then:
 - a. the regional manager or the director will notify the person who gave the notice of the correctable error,
 - b. the regional manager or the director will take reasonable steps to ensure that all licensees who may have been affected by a similar correctable error are informed of the decision, and
 - c.
 - (i) where the regional manager determines that a correctable error has been made in an appraisal or a reappraisal the cutting authority area shall be reappraised to correct the error by the person who determined the stumpage rate, using the procedure under subsections 3.2(7) to 3.2 (8), and,
 - (ii) the effective date of the reappraisal shall be the first day of the month following the date on which the notice of the correctable error was received by the regional manager.

- d. (i) where the director has determined that a correctable error has been made in the calculation of a quarterly stumpage adjustment, the adjustment must be correctly recalculated unless the cutting authority, the appraisal manual or the application and tender for a timber sale licence specifies that the stumpage rate is fixed, and,
- (ii) the effective date of the redetermined rate shall be the first day of the month following the date on which the notice of the correctable error was received by the director.

3.7 Redetermination of Stumpage Rate by Agreement

1. Where, within twenty-one days of the date of a Stumpage Advisory Notice, the person to whom the Notice has been sent and an employee of the Ministry of Forest authorized to redetermine a stumpage rate under section 2.1.1 of this manual agree, the stumpage rate set out in the Notice, hereinafter referred to as the original stumpage rate, may be redetermined by the employee, and the redetermined stumpage rate shall be effective on the effective date of the original stumpage rate.
2. The twenty-one day period referred to in subsection (1) of this section may be extended by agreement between the person to whom the Notice has been sent and the employee.

4.2 Market Pricing System (MPS) Variables

STUMPAGE PRICE	The stumpage price for the cutting authority expressed in $\$/\text{m}^3$.
ALP	Average coniferous log selling price estimate expressed in $\$/\text{m}^3$. This is based upon a consideration of log grades and species for the cutting authority area, and schedules of log market values collected and published by the Revenue Branch.
DFIR2G	If selling price zone in the appraisal data submission is 52, then DFIR 2G is the fraction of the coniferous cruise volume that is Douglas-fir. If the selling price zone is not 52, then DFIR 2G = 0. DFIR2G is in decimal form, rounded to 2 decimal places.
HEMBAL	The fraction of the coniferous cruise volume that is hemlock and balsam. HEMBAL is in decimal form, rounded to 2 decimal places.
SLOPE	The average side slope percentage for that part of the cutting authority area that will not be helicopter yarded.
NHSVPH	Non-helicopter selection volume per hectare is the cruise volume of coniferous timber per hectare for that part of the cutting authority area that will not be harvested by a helicopter selection method or helicopter single standing stem selection. NHSVPH is expressed in m^3/ha and is rounded to 2 decimal places.
HS	The fraction of the total net cruise volume, including deciduous volume, of timber in a cutting authority area that will be harvested by a helicopter selection method (excluding helicopter single standing stem selection). HS is in decimal form, rounded to 2 decimal places.
HSSSS	The fraction of the total net cruise volume, including deciduous volume, of timber in a cutting authority area that will be harvested by helicopter single standing stem selection (section 4.4.4). HSSSS is in decimal form, rounded to 2 decimal places.
VPH	$[1 - (\text{HS} + \text{HSSSS})] * \text{NHSVPH} + (\text{HS} + \text{HSSSS}) * 442$ VPH is expressed in m^3/ha and is rounded to 2 decimal places.
PIECESIZE	The cruise coniferous net volume per 10 m log. PIECESIZE is expressed in m^3 and is rounded to 2 decimal places.
HELI	The fraction of the total net cruise volume, including deciduous volume, of timber in a cutting authority area that must be helicopter yarded or yarded by skyline where logs are fully suspended more than 600 m in a straight line to the centre of the closest possible landing. This is calculated by dividing the total volume of timber that must be helicopter yarded or skyline yarded over 600 m by the total net cruise volume of the cutting authority area. HELI is in decimal form, rounded to 2 decimal places.

VOL	That part of the total net cruise volume in the cutting authority area that is coniferous timber except that where the cutting authority is a timber licence or is issued under a licence with an AAC greater than 10 000 m ³ , then VOL = 22 158. VOL is expressed in m ³ , rounded to the nearest whole number.
CPI	Monthly BC Consumer Price Index (CANSIM 326-0020, 2002 = 100) multiplied by 1.1787.
CPIF	CPI divided by 109.3.
ISOLATED	An isolated cutting authority area is one where all parts of the cutting authority area are not connected, or the service landings used to support the yarding of timber from a cutting authority area by helicopter are not connected, by a road suitable for motor vehicles to the centre of the nearest community. The nearest community must be a city, district municipality, town or village and must have retail food and gasoline services located nearby. This includes all communities serviced by public ferry. ISOLATED = 1 if cutting authority area is isolated, otherwise ISOLATED = 0.
LOCATION	The net cruise volume weighted average straight line distance based on a BC Albers projection measured in kilometres between the geographic centre of each part of a cutting authority area and the latitude and longitude co-ordinate listed in table 4-1 (which lists the major centres) that is closest to that part of the cutting authority area.
OG	If selling price zone in the appraisal data submission is not 52, then OG = 1, otherwise OG = 0.
2G	If selling price zone in the appraisal data submission is 52, then 2G = 1, otherwise 2G = 0.

Table 4-1: **BC Albers Co-ordinates**

BC Albers		At or Near	Code
Northing	Easting		
555,923	1,053,751	Campbell River	CARV
471,591	1,297,829	Chilliwack	CHWK
1,042,589	957,885	Houston	HOUS
580,589	1,373,908	Merritt	MERR
463,314	1,149,638	Nanaimo	NANA
1,041,636	719,914	Prince Rupert	PRRU
1,060,362	832,121	Terrace	TERR
476,584	1,211,198	Vancouver	VANC
381,554	1,196,533	Victoria	VICT

GAMBDIST	<p>POA distance is the average straight line distance based on a BC Albers projection, weighted by net cruise volume, between the geographic centre of each cutblock in the cutting authority area and Gambier Island. GAMBDIST is measured and rounded to the nearest kilometre.</p> <p>The Gambier Island BC Albers co-ordinate is northing 499,955 and easting 1,185,166.</p>
DISTAVGNBID	The average number of bidders for the forest district within which the cutting authority area is located is listed in Table 4-2.
AUC2008	2008 Auctions dummy variable. AUC2008 = 1.

Table 4-2 Average Number of Bidders by Forest District

Forest District	Average Number of Bidders
Queen Charlotte Island Forest District	3.42
Chilliwack Forest District	3.15
Squamish Forest District	3.52
Sunshine Coast Forest District	3.44
South Island Forest District	5.34
Campbell River Forest District	5.70
North Island- Central Coast Forest District	4.13
North Coast Forest District	3.64

4.2.1 Log Selling Prices

1. The Revenue Branch shall:
 - a. Compile invoiced free on board log market values using prime, domestic, arm's-length sales reported to the Revenue Branch prior to sixty days before the stumpage rate adjustment date that have occurred in areas adjacent to:
 - i. the Strait of Georgia;
 - ii. the Strait of Juan de Fuca;
 - iii. Alberni Inlet east of a line drawn south from Amphitrite Point;

- iv. Johnstone Strait;
 - v. the Queen Charlotte Strait south of a line drawn west from Cape Caution; and
 - vi. Fraser River west of the bridge at the confluence of the Pitt River.
- b. Subject to subsection 2 of this section compile schedules of average log market values by species and log grade using sales data for each one-month reporting period. The data shall be summarized into a three-month schedule of average log market values by species and log grade for **old growth** timber stumpage rate determinations. A three-month schedule of average log market values by species and log grade for second growth stumpage determinations shall also be produced. These schedules can be found at:
- <http://www.for.gov.bc.ca/hva/parameters.htm>
2. The volumes and prices of alder, birch, cottonwood and maple shall not be included in the schedules of average log market values.
 3. The director shall approve schedules of average log market values for use in stumpage appraisals, reappraisals and quarterly adjustments.

4.2.1.1 Coniferous Timber

1. The volume of old growth coniferous timber and the volume of second growth coniferous timber in a cutting authority area will each be compiled from the timber cruise of the cutting authority area on a tree by tree basis.
2. Where the volume of second growth coniferous timber in a cutting authority area is at least eighty percent of the volume of all of the coniferous timber in that cutting authority area, the cutting authority area will be appraised and reappraised as if all of the coniferous timber in that cutting authority area were second growth coniferous timber.

4.2.2 Log Grade Percentages

Log grade percentages are obtained for each species of timber in each cutting authority area being appraised or reappraised as described in section 4.2.2.1, 4.2.2.2, 4.2.2.3, 4.2.2.3.1, 4.2.2.3.2 and 4.2.2.4.

4.2.2.1 Billing History Record

1. Except as provided in sections 4.2.2.2, and 4.2.2.4, the billing history record that will be used in an appraisal or reappraisal of a cutting authority area will be determined using either Table 4-3 or Table 4-4 as may be required by this manual.

that towing point of origin must be reported in the appraisal data submission.

- c. Where the appraisal log dump lies between two towing points of origin, both towing points of origin must be reported in the appraisal data submission.

4.2.5.4 Log Barging

- 1.
 - a. The information in Table 4-6 is not used in the calculation of a stumpage rate but must be used by the licensee when completing the appraisal data submission.
 - b. Where the appraisal log dump is at a barging point of origin listed in Table 4-6, that barging point of origin must be reported in the appraisal data submission.
 - c. Where the appraisal log dump lies between two barging points of origin, both barging points of origin must be reported in the appraisal data submission.

Table 4-5 Towing Points of Origin

Code	Point of Origin	P/A	Code	Point of Origin	P/A
ALBE	ALBERNI	A	BUIM	M. OF BUTE INLET	G
CHCK	CHINA CREEK	A	KIIM	M. OF KINGCOME INLET	G
COCK	COLEMAN CREEK	A	KNIM	M. OF KNIGHT INLET	G
SARV	SARITA RIVER	A	LOUM	M. OF LOUGHBOROUGH	G
SPCK	SPENCER CREEK	A	TOIM	M. OF TOBA	G
TOBY	TOQUART BAY	A	NACK	NAKA CREEK	G
UCHU	UCHUCKLESIT	A	NOBY	NORTHWEST BAY	G
UCLU	UCLUELET	A	PHAR	PHILLIPS ARM	G
CHEM	CHEMAINUS	C	PTEB	PORT ELIZABETH	G
COBY	COWICHAN BAY	C	PTHD	PORT HARDY	G
JORV	JORDAN RIVER	C	PTHV	PORT HARVEY	G
LADY	LADYSMITH	C	PTMN	PORT McNEILL	G
NANA	NANAIMO	C	PTNE	PORT NEVILLE	G
SOOK	SOOKE	C	PORV	POWELL RIVER	G
VICT	VICTORIA	C	SENA	SECOND NARROWS	G
AGAM	AGAMEMNON	G	SYIN	SEYMOUR INLET	G
BECV	BEAVER COVE	G	SEBY	SOUTHEAST BAY	G
COUR	COURTENAY	G	SQUA	SQUAMISH	G
DRIN	DRURY INLET	G	STIL	STILLWATER	G
EVRV	EVE RIVER	G	TEAR	TEAKERNE ARM	G
FOHA	FORWARD HARBOUR	G	THIN	THEODOSIA INLET	G
FRAR	FREDERICK ARM	G	THSO	THOMPSON SOUND	G
BUIH	H. OF BUTE INLET	G	WASA	WAKEMAN SOUND	G
JEIH	H. OF JERVIS INLET	G	GAMB	GAMBIER ISLAND	G
KIIH	H. OF KINGCOME INLET	G	CHWK	CHILLIWACK	P
KNIH	H. OF KNIGHT INLET	G	HALF	FOOT HARRISON LAKE	P
LOUH	H. LOUGHBOROUGH	G	PILF	FOOT OF PITT LAKE	P
SEIH	H. OF SECHELT INLET	G	HABY	HARRISON BAY	P
TOIH	H. OF TOBA INLET	G	HATZ	HATZIC	P
INAR	INDIAN ARM	G	HALH	HEAD HARRISON LAKE	P
KLBY	KELSEY BAY	G	PILH	HEAD OF PITT LAKE	P
MNCK	McNAB CREEK	G	HALM	MID HARRISON LAKE	P
MEBY	MENZIES BAY	G	PIRV	PITT RIVER BRIDGE	P
MESD	MEREWORTH SOUND	G	SICK	SILVERHOPE CREEK	P
JEIM	MOUTH JERVIS INLET	G	WHON	WHONNOCK	P

P/A = Point of Appraisal as follows:

A = ALBE = Alberni
 C = CHEM = Chemainus
 G = GAMB = Gambier Island
 P = PIRV = Pitt River Bridge

Stumpage Rate Determination

6

6.1 Stumpage Rate Calculation for a Cutting Authority Entered into Under Section 20 of the Act

Sections 6.1.1 through 6.1.5 are the policies and procedures for determining a stumpage rate for a cutting authority that is entered into under section 20 of the *Act*.

6.1.1 Indicated Upset Stumpage Rate (IUSR)

1. Notwithstanding 6.1.1(2) and 6.1.1(3) the IUSR for a timber sale licence containing twenty percent or less **old growth** coniferous timber shall be equal to the upset stumpage rate determined by the person who determines the stumpage rate and shall be the greater of:
 - a. Seventy percent of the final estimated winning bid (FEWB) for that timber sale licence calculated according to section 4.5, or
 - b. The variable cost to prepare the timber for sale.
2. Where applications for a timber sale licence with an upset stumpage rate determined under section 6.1.1(1) have been invited but no applications have been received, the upset stumpage rate for the re-advertised timber sale shall be equal to the rate approved by the director of operations, BC Timber Sales and requested by the timber sales manager. The upset stumpage rate determined under this section shall not be greater than an estimate of the upset stumpage rate that would be determined under section 6.1.1(1) and not less than the variable cost to prepare the timber for sale.
3. Where the director of operations, BC Timber Sales, does not anticipate that applications for a timber sale licence with an upset stumpage rate determined under section 6.1.1(1) will be received due to market conditions or timber profile, the upset stumpage rate shall be equal to the rate approved by the director of operations, BC Timber Sales and requested by the timber sales manager. The upset stumpage rate determined under this section shall not be greater than the upset stumpage rate determined under section 6.1.1(1) and not less than the variable cost to prepare the timber for sale.
4. The IUSR for a timber sale licence containing greater than twenty percent **old growth** coniferous timber shall be equal to the upset stumpage rate determined by the person who determines the stumpage rate and shall be the lesser of:
 - a. Seventy percent of the final estimated winning bid (FEWB) for that timber sale licence calculated according to section 4.5, or
 - b. The variable cost to prepare the timber for sale.
5. Where the timber authorized for harvest under a timber sale licence is low quality (including Mountain Pine Beetle attacked or pulp quality) timber, and the invitation

7.2 Community Forest Agreements and Woodlot Licences

1. a. Except as provided for under section 7.2.1, the sawlog stumpage rate (\$/m³) for each species of coniferous timber and zone harvested under a cutting authority issued under a community forest agreement or woodlot licence and their associated road permits will be:

Species	Zone	
	Northern Coast	Southern Coast
Balsam	3.66	4.27
Hemlock	4.01	3.98
Cedar	5.54	8.48
Cypress	5.58	5.35
Fir	0.25	4.55
Spruce	3.40	2.95
Other	4.86	5.63

- b. The Northern Coast Zone is the Queen Charlotte Islands Forest District, North Coast Forest District and that part of the North Island-Central Coast Forest District within TFL 25 and **all Crown land within** the Mid-Coast Timber Supply Area **boundaries**.
- c. The Southern Coast Zone is the Coast Forest Region except the Northern Coast Zone as defined in 1(b).
- d. The stumpage rate determined under paragraph (a) of this subsection shall be redetermined on March 1st of each year in accordance with this subsection.
2. The sawlog stumpage rate for each species of coniferous timber harvested under a salvage permit issued under a woodlot licence is the rate prescribed in the table in section 7.2(1)(a) for the zone in which the salvage permit applies.
3. Section 7.3, 7.4, 7.4.1, 7.5 and 7.6 do not apply to community forest agreements, woodlot licences and associated road permits.

7.2.1 Woodlot Licences with Cutting Authorities under MPS

1. Where a cutting authority has been issued under a woodlot licence with an effective date after November 30, 2008, with an extended road amortization agreement that has been entered into under section 5.3.2.1, the stumpage rate will be calculated using the market pricing system.
2. The sawlog stumpage rate for a road permit is calculated using the procedures in section 7.3.

7.7 Linear Tenures

1. For this section:

“Linear tenure” means a licence to cut issued for a:

- a. right-of-way issued under an authority other than the *Forest Act*, or
- b. a pipeline right-of-way, or
- c. a highway right-of-way for a road administered by the *Ministry of Transportation*, or
- d. transmission line, penstock, or powerhouse.

“Licensee” means the licensee who has been issued a linear tenure.

2. The stumpage rate for a linear tenure shall be obtained from the schedule of average sawlog stumpage rates approved by the director under section 7.1, for the forest district in which the cutting authority area for the linear tenure is located.
3. A stumpage rate determined under this section shall be redetermined in accordance with section 3.3.4.
4. Notwithstanding any other paragraph in this section, if the total volume exceeds 2 500 m³ the stumpage rate for a linear tenure may be determined through a full appraisal. Where a stumpage rate has been determined under this subsection, the procedures in chapter 3 shall apply.

7.8 Miscellaneous Stumpage Rates

Miscellaneous Stumpage Rates

1. Unless otherwise specified in a cutting authority, Table 7-1 in effect on the date of scale shall be used to determine the stumpage rates for deciduous species, low grade logs and timber in specified areas.

Special Forest Products

2. Unless otherwise specified in a cutting authority, Table 7-2 in effect on the date of scale shall be used to determine the stumpage rates for the specified products from all sources of Crown timber.

7.8.1 Marine Log Salvage

7.8.1.1 Beachcomb

A beachcomb rate may apply to logs salvaged in the Vancouver log salvage district under Part 9 of the *Act*, and stray logs salvaged elsewhere in coastal waters.

The stumpage rate for beachcomb is listed in table 7-1.

7.8.1.2 Root Buck

A root buck rate may apply to any species where the roots are attached at the time stray logs are salvaged in coastal waters. Excludes logs salvaged from coastal waters within the boundaries of the North Coast and Kalum Forest Districts.

The rate for root buck is listed in table 7-1.

7.8.1.3 Wahleach Island Catchment Basin

The stumpage rate for logs salvaged at Wahleach Island catchment basin operated by B.C. Debris Control Board is listed in table 7-1.

7.8.1.4 Deadhead Logs

A deadhead rate may apply to deadhead logs as defined in the log salvage regulation, salvaged in coastal waters and subject to scaling requirements under part 6 of the *Act*.

The stumpage rate for deadhead logs is listed in table 7-1.

Table 7-1: Miscellaneous Stumpage Rates

Species	Product Code	Logs	Stumpage Rate (\$/m ³)
Deciduous	N/A	All (except grades 'Y', 'Z')	\$1.00
Yew, Arbutus, Aspen, Willow	N/A	All	\$0.25
Hemlock & Balsam	N/A	Grade 'U'	\$0.25
Coniferous	N/A	Grade 'X'	\$0.25
All Species	N/A	Grade 'Y'	\$0.25
All Species	RB	Root buck	\$7.80
All Species	N/A	Beachcomb (BC)	\$0.70
All Species	N/A	Wahleach Island catchment basin (DH)	\$0.25
All Species	N/A	Deadhead logs (DH)	\$0.25

Table 7-2: Special Forest Products Stumpage Rates

Species	Product Code	Product	Stumpage Rate
All Species	CA	Cants (produced from dead and down post-logging residue)	\$9.60/m ³
All Species	FW	Firewood (round or split) - maximum length 1.2 m	\$1.00/m ³
All Species	MT	Mining Timbers - maximum length 2.4 m	\$3.00/m ³
All Species (except Cedar)	PR	Posts and Rails (split and round)	\$1.20/m ³
Cedar	PR	Posts and Rails (split and round)	\$3.00/m ³
All Species	SB	Shake and Shingle Bolts, Blocks and Blanks	\$5.30/m ³
All Species	SK	Shakes	\$6.00/m ³
All Species	SS	Stakes and Sticks (Car Stakes, Grape Stakes, Hop Poles, Lagging (split, Orchard Props, Pickets and Palings, Stakes and Stocks (sticks))	\$1.20/m ³
All Species	CH	Woodchips	\$0.50/m ³
All Species	HF	Hogged tree material	\$0.25/m ³
All Species	XM	Christmas Trees	Less than 3 m \$0.20 each 3 m to 5 m \$1.00 each greater than 5 m \$1.50 each

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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District: Campbell River					
Location	ALD Code	Co-ordinates (Approximately)			
		Latitude		Longitude	
		Degrees	Minutes	Degrees	Minutes
Hardwicke Island – South East at Chancellor Channel	HACC	50	25	125	45
Johnstone Strait - Bear Bay	JSBB	50	21	125	39
Johnstone Strait - Eve River	JSER	50	28	126	17
Johnstone Strait - Hardwicke Island (South)	JSHS	50	25	125	45
Johnstone Strait - Hardwicke Island South West	JSHI	50	25	125	55
Johnstone Strait - Havannah Channel, South of East Cracroft Island	JSHA	50	32	126	13
Johnstone Strait - Kelsey Bay	JSKB	50	23	125	57
Johnstone Strait - Naka Creek	JSNC	50	28	126	25
Johnstone Strait - Port Neville Head	JSPH	50	32	125	58
Johnstone Strait - Port Neville South	JSPS	50	30	126	03
Johnstone Strait - Port Neville West	JSPW	50	31	126	04
Johnstone Strait - South East Bay	JSSE	50	28	126	12
Johnstone Strait - Tuna Point, Sunderland Channel	JSTP	50	28	125	58
Kyuquot Channel – Cachalot Inlet	KYCA	50	00	127	10
Kyuquot Sound - Amai Inlet	KYAM	50	01	127	10
Kyuquot Sound - Chamiss Bay	KYCH	50	04	127	17
Kyuquot Sound - Eelstow Passage	KYEE	50	06	127	10
Kyuquot Sound - Hohoae Island	KYHO	50	02	127	14
Kyuquot Sound - Kashutl River	KYKA	50	11	127	18
Kyuquot Sound - Kauwinch River, Kashutl Inlet	KYKR	50	08	127	16
Kyuquot Sound - Tahsish Inlet	KYTA	50	05	127	07
Kyuquot Sound - Union Island East	KYUE	50	01	127	14
Kyuquot Sound - Union Island West	KYUW	50	01	127	19
Loughborough Inlet - Cooper Reach East	LICR	50	41	125	26
Loughborough Inlet - Beaver	LIBE	50	30	125	36
Loughborough Inlet - Beaver West	LIBW	50	29	125	37
Loughborough Inlet - Heydon Bay	LIHB	50	35	125	33
Loughborough Inlet - Poison Creek	LIPC	50	37	125	31
Loughborough Inlet - Poison (North)	LIPN	50	39	125	31

District: Campbell River					
Location	ALD Code	Co-ordinates (Approximately)			
		Latitude		Longitude	
		Degrees	Minutes	Degrees	Minutes
Loughborough Inlet - Poison (South)	LIPS	50	36	125	32
Loughborough Inlet - Satham	LIBE	50	31	125	32
Loughborough Inlet (Head) - Stafford Lake	LIBW	50	43	125	28
Loughborough Inlet - Styles	LIST	50	27	125	37
Loughborough Inlet SW	LISW	50	28	125	34
Muchalat Inlet - Gold River DLS	MUGR	49	41	126	07
Muchalat Inlet - Houston River	MUHR	49	38	126	18
Muchalat Inlet - Jacklah River	MUJR	49	39	126	09
Muchalat Inlet - Kleeptee Creek, North of Gore Island	MUKC	49	39	126	22
Muchalat Inlet - McCurdy Creek	MUMC	49	40	126	11
Muchalat Inlet - Silverado Creek	MUSC	49	37	126	21
Muchalat Inlet (Head) - Matchlee Bay east	MUME	49	39	126	05
Muchalat Inlet (Head) - Matchlee Bay west	MUMW	49	38	126	05
Muchalat Inlet (Head) - Matchlee Bay, Burman River	MUMB	49	37	126	03
Nodales Channel - Extension	NOEX	50	25	125	18
Nodales Channel - Wyssen	NOWY	50	24	125	18
Nootka Island - Blowhole Bay	NIBB	49	49	126	40
Nootka Island - Brodick Creek, Esperanza Inlet	NIBC	49	51	126	53
Nootka Island - Kendrick Inlet DLS	NIKI	49	43	126	39
Nootka Island - Kendrick Inlet, Plumper Harbour	NIPH	49	41	126	38
Nootka Sound - Bligh Island, South of Conception Point	NSBI	49	39	126	29
North Kanish	NOKA	50	15	125	19
Phillips Arm - Fanny Bay	PAFB	50	31	125	23
Phillips Arm - Phillips Arm South	PAPA	50	30	125	21
Portland - Nodales Channel	PONC	50	26	125	18
Quadra Island - Chonat Bay	QICB	50	18	125	17
Quadra Island - Gowland Harbour	QIGH	50	05	125	15
Quadra Island - Kanish Bay	QIKB	50	14	125	21

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