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Ministry of Forests
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Revenue Branch

MEMORANDUM

File: 195-30

September 6, 2007

BY EMAIL

To: Regional Executive Directors

From: Bill Howard
Director
Revenue Branch

Re: Amendment No. 8 to the *Provincial Logging Residue and Waste Measurement Procedures Manual*

I hereby approve Amendment No. 8 to the *Provincial Logging and Waste Measurement Procedures Manual*, and attach a copy for your use.



The purpose of this amendment is to extend the use of the waste benchmarks to September 30, 2009, to allow more time for Coarse Woody Debris policy development.

This amendment comes into force on October 1, 2007.

Bill Howard
Director
Revenue Branch

Attachment



Ministry of
Forests and Range



MANUAL REVISION TRANSMITTAL

<p>FOR FURTHER INFORMATION OR IF YOU HAVE A CHANGE OF ADDRESS, PLEASE CONTACT:</p> <p>John Wai Residue Forester and Log Salvage Policy Forester Revenue Branch Ministry of Forests and Range 6th Floor - 727 Fisgard Street Victoria, BC V8W 1R8 Phone: 356-7671 PROFS userid: John.Wai@gov.bc.ca FAX: 387-5670</p>	MANUAL TITLE	
	Prov. Logging Residue & Waste Measurement Procedures Manual	
	AMENDMENT	ISSUE DATE
	Amendment No. 8	October 1, 2007
MANUAL CO-ORDINATOR		
Judy Laton Manuals Co-ordinator		
AUTHORIZATION (Name, Title)		
W. Howard Director, Revenue Branch		

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

ACTION (Remove/Insert)	(VOL.) CHAPTER-SECTION-SUBJECT TABLE OF CONTENTS	PAGE(S)	COMMENTS
REMOVE	Table of Contents	i - vi	After Table of Contents Tab
INSERT		i - vi	
REMOVE	Appendix	15 – 24	After Appendix Tab
INSERT		15 – 22	
INSERT	Letter from Bill Howard, Director Transmittal Sheet		After Amendments Tab

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Appendix 4 Riparian Management Zone (RMZ)

A4.1 Assessment Method

For waste assessments to be conducted within the riparian management zone, the assessment method should commensurate with the silvicultural system used, as follows:

•	single tree selection	-	100 percent piece scale, or 50 m ²
•	group selection	-	100 percent piece scale or (circular or rectangular) plot of 50 to 400 m ² that best fits the group selection harvested area.

Refer to Section 4.7 for assessing partial cutting (variable retention) cutblocks, and Section 5.7.2 for stratum codes.

A4.2 Stream Clean-out

For stream clean-out conducted in accordance with the Riparian Management Area Guidebook, the waste classification procedures are as follows:

1. Where a log is left across a creek, classify the log as unavoidable for environmental reasons.
2. If a creek was machine cleaned and it was reasonable to recover the log pieces, classify the pieces as avoidable.
3. If a creek was hand cleaned and the log was bucked into small segments and thrown out of the creek channel, classify the pieces as unavoidable.

Appendix 5 Waste Benchmarks

1. Benchmarks

Waste benchmarks will be in effect until September 30, 2009.

On an individual cutblock basis, the following waste benchmarks in cubic meters per hectare will be used for monetary billing of avoidable waste:

Coast	Immature	Mature
Normal	10 m ³ /ha	35 m ³ /ha

Interior	Dry Belt	Transition Zone	Wet Belt
Normal	4 m ³ /ha	10 m ³ /ha	20 m ³ /ha

The waste benchmark volume of a cutblock is derived by multiplying the value of the benchmark with the total of the dispersed, accumulation and standing trees sub population areas reported in a waste assessment of the cutblock.

2. Benchmark Calculations and Billings

Avoidable waste volumes in sawlog grades X or better (Coast), 1 and 2 (Interior) from the dispersed, accumulated and the standing tree subpopulations of the cutblock will be applied to the benchmarks.

Where the avoidable waste volumes in sawlog grades are below the established benchmark for the cutblock, no monetary billing of avoidable waste in sawlog grades will be made.

Where the avoidable waste volumes in sawlog grades are above the established benchmark for the cutblock, monetary billings will be made on the sawlog grade volumes exceeding the benchmark.

Avoidable waste volumes in grade Y or 4 will not be applied to the benchmark but will be billed monetarily in all cases.

3. Benchmark Eligibility

The benchmarks are administered on an individual cut block basis, regardless of whether the cutblock is in the Cutblock, the Aggregate or the Ocular Reporting Unit. Therefore, each cut block must be individually assessed to determine whether the avoidable waste within the cutblock is above or below the benchmark.

No waste benchmarks will be applied to log decks that in the determination of a forest officer are subject to scaling at a scale site or being field scaled. Such log decks must be clearly marked by the licensee and not to be included in the waste assessment.

Waste benchmarks do not apply to the unharvested cutblocks.

No waste benchmark will be applied to an area of a cutblock where the wasted timber volume compromised the site-specific forest management objective(s). The area must be delineated, waste assessed and billed separately from the remaining area of the cutblock.

Figure A5.1a removed.

A5.2 Removed



 BRITISH COLUMBIA	COAST Worksheet for Waste Billing Against Benchmarks	Ministry of Forests 
To be Completed by Licensees		
Licence No.	CP No.	Cut Block
Timber Mark	Reporting Unit No.	
Primary Logging Completion Date	Cut Block Net Area ha	
Location	Stand/Site Type	
Calculations		
Avoidable waste sawlog (X or better)	= _____	M ³ /ha..... (A)
Established benchmark	= _____	M ³ /ha..... (B)
(A) - (B)	= _____	M ³ /ha..... (C)
If (C) < or = 0.0000, stop		
If (C) > 0.0000, proceed as follows:		
Waste Monetary Reduction Factor (WMRF) =	(C)/(A) = _____(D) <small>(to four decimals)</small>
To be Completed by Forest Service		
Processing		
If (C) is < or = 0.0000, on FS 702, code:		
Avoidable all species sawlogs (X or better):	\$0.00/m ³	
Avoidable all species grade Y:	\$0.25/m ³	
Unavoidable all species all grades:	\$0.00/m ³	
If (C) is > 0.0000, request average sawlog rate from HBS		
Average coniferous sawlog rate (HBS) =	\$ _____ /m ³(E)
Deciduous sawlog rate =	\$ _____ /m ³(F)
On FS 702, code		
Avoidable hembal (J or better) and all other conifer (U or better) (D x E) =	\$ _____ /m ³	
Avoidable hembal U and grade X all species = D x \$0.25/m ³	\$ _____ /m ³	
Avoidable deciduous species sawlogs: (D x F) =	\$ _____ /m ³	
Avoidable all species grade Y: \$0.25/m ³		
Unavoidable all species all grades: \$0.00/m ³		
Approved by Forest Officer (signature)	Date	

Figure A5.1 Sample of Worksheet for Waste Billing Against Benchmarks (Coast).



	INTERIOR Worksheet for Waste Billing Against Benchmarks	Ministry of Forests 
To be Completed by Licensees		
Licence No.	CP No.	Cut Block
Timber Mark	Reporting Unit No.	
Primary Logging Completion Date	Cut Block Net Area ha	
Location	Stand/Site Type	
Calculations		
Avoidable waste (sawlog) (grades 1 and 2)	= _____	M ³ /ha..... (A)
Established benchmark	= _____	M ³ /ha..... (B)
(A) - (B)	= _____	M ³ /ha..... (C)
If (C) < or = 0.0000, stop		
If (C) > 0.0000, proceed as follows:		
Waste Monetary Reduction Factor (WMRF) =	(C)/(A) = _____(D) <small>(to four decimals)</small>
To be Completed by Forest Service		
Processing		
If (C) is < or = 0.0000, on FS 702, code:		
Avoidable all species sawlogs (grades 1 and 2):	\$0.00/m ³	
Avoidable all species grade 4:	\$0.25/m ³	
Unavoidable all species all grades:	\$0.00/m ³	
If (C) is > 0.0000, request average sawlog rate from HBS		
Average coniferous sawlog rate (HBS) =	\$ _____ /m ³(E)
Deciduous sawlog rate =	\$ _____ /m ³(F)
On FS 702, code		
Avoidable coniferous species sawlogs (D x E) =	\$ _____ /m ³	
Avoidable deciduous species sawlogs: (D x F) =	\$ _____ /m ³	
Avoidable all species grade 4: \$0.25/m ³		
Unavoidable all species all grades: \$0.00/m ³		
Approved by Forest Officer (signature)	Date	

Figure A5.2 Sample of Worksheet for Waste Billing Against Benchmarks for Blocks.

Appendix 6 Coast Grading

Due to the timber pricing changes made to Hembal U grade and all coniferous X grade, the followings grade rules apply to blocks surveyed after May 1, 2006.

A6.1.1 Bucking Waste and Long Butts

- Old Growth - No change other than default to J grade.
- Second growth:
- Bucking Waste with less than an 8 rad top default to U grade,
- Bucking Waste with an 8 rad or larger top default to J grade.

A6.1.2 Stumps

- Old/Second Growth:
- < or = to 12R default to U grade,
- > or = to 13R default to J grade.
- Unavoidable grades are the same as avoidable grades.
- Severe Ring shake = X grade. (Severe ring shake is defined as covering at least 50% of the volume of the stump).
- Stumps cannot be graded as U, X or Y grade due to rot or missing wood.

A6.1.3 Logs

Use the following rules:

- Logs less than 5 meters in length and bucked on the butt end will be graded as if they were 5 metres long.
- Logs (except spruce and cypress) with an undercut butt and less than 5.0 metres to the point where 8 rads disappears cannot be better than U grade. Spruce and Cypress logs with an undercut butt and less than 4.0 metres to the point where 8 rads disappears cannot be better than U grade.
- Logs broken at both ends or broken at the butt end will be graded according to the scaling grade rules.

- Logs greater than 12.8 metres in length, the diameter used for determining the grade of the entire log is the diameter (inside bark) measured at the point 12.8 meters from the large end. Do not pencil buck, scale and grade as one piece.

A6.1.4 Standing Trees

Use the following rules:

- Old Growth/Second Growth.
- Trees that are greater than 12.8 metres to the timber merchantability specifications top diameter will be pencil bucked in 12.8 metre segments with each segment classified and graded accordingly.

For example, a 15.0 metre tree would be entered as a 12.8 metre log and a 2.2 metre piece of bucking waste with each piece graded according to its dimensions. However, if the grade of all pieces in the pencil bucked tree is the same, then record the tree as one piece.

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