

Concurrent Residual Harvest System (CRHS) (COAST)

Purpose

The primary purpose of the Coastal Concurrent Residual Harvest System (CRHS) is to provide an alternative method of scale for low quality timber harvested on the Coast as per Section 5(1)(c)(iii) of the *Scaling Regulation*. This process is designed to be revenue and cut control neutral. The objective is to reduce the administrative burden associated with timber delivered to secondary manufacturing facilities¹, and thereby improve the utilization of forest resources. This system cannot be applied to BC Timber Sale licences. Material bound for sawmills or plywood/veneer/OSB plants is not eligible for this process.

Requirements

This process is voluntary and must have a business to business agreement between the primary harvester and the secondary manufacturer. Concurrent with normal block harvesting activities, residual material will be transported to an authorized weight scale, where it will be weighed into a specific stratum designed for the product for which the material is intended. The Load Description Slip (LDS), required to accompany the load must clearly state 'CRHS' and the type of secondary manufacturing the material is intended for, i.e., pellets, post and rail, firewood, cants or pulp. The scale site may re-sort the timber after weighing, in order to manufacture more than one secondary product at the site but timber may not be resold or transported off-site before manufacture.

Fixed Ratio Tables

The tables have been designed so that each type of product produced by a secondary facility will utilize a specific volume to weight ratio in a fixed ratio stratum. The ratio and grade profile will be in place beginning on October 1, 2019 and may be adjusted. The ratio is based on an average of similar volume/weight ratios in the HBS database, local field assessments, and/or other methods. The table for chips and hog fuel (Processed Deliveries) contains ratios for onsite chipping or grinding brought to the weigh scale in a processed form for the use of a secondary facility.

Grade Tables and Species

Average weighted grade profiles have been calculated using HBS and observed data. The attached tables (Appendix 1) must be used when entering the fixed ratio strata for each product type into HBS. Strata for pulp have been separated by species and ratio. These ratios and grade profiles are derived mainly from the weighted averages of 2018 HBS data. A separate Coast Area population will be used for CRHS strata. The applicable *Species* profile will be determined by Area/District staff and the industry application for each *type of* stratum. This will be used in setting up the CRHS strata in HBS. See an example of HBS strata setup in Appendix 2. The rate used for billing will be timbermark specific.

Weighing Process

All CRHS material must be weighed at an authorized weigh scale. If weighed at a scale other than the receiving secondary facility, the HBS Weighing Event Type must be Primary Departure as each load must be sent to the secondary facility after weighing. A generic district destination code may be used if the facility does not have an authorized scale site. Timber weighers at the scale site will be required to stratify loads according to the materials that can be seen. If a load destined for CRHS doesn't meet the stratum description as set out in the CRHS tables then the timber weigher will be required to stratify the load into a different population/stratum, or *Red Tag* the load, meaning the load will be taken out of the weight billing process and *Piece Scaled*.

¹A secondary manufacturing facility is defined as a processing mill that does not produce commodity lumber or plywood/veneer.

Concurrent Residual Harvest System (CRHS) (COAST)

Authorization

The Director, Timber Pricing Branch has authorized the CRHS alternate method of scale under *Scaling Regulation S 5(1)(c)(iii)*. District Managers may authorize this process under a CRHS Authorization, signed by the District Manager of the District in which the timber originates. A Waste assessment of the block will be required as per the *Forest Act* and the *Provincial Logging Residue and Waste Measurements Procedure Manual*. This program may be cancelled with 6 months' notice. A copy of each authorization will be filed at the Area and will be compiled monthly for reporting purposes.

Appendix 1

Volume/Weight Ratio and Grade Profile Table								
Stratum Description	Vol/Wt Ratio	Grade H %	Grade I %	Grade J %	Grade U %	Grade X %	Grade Y %	Grade Z %
Wet HemBal Pulp (>50% HemBal Pulp)	1.06	2.0	2.0	21.0	53.0	8.0	13.0	1.0
Dry HemBal Pulp (>50% HemBal Pulp)	1.12	2.0	2.0	21.0	53.0	8.0	13.0	1.0
Wet HemBal CNS (>50% HemBal CNS)	1.07	9.0	3.0	63.0	23.0	1.0	1.0	0.0
Dry HemBal CNS (>50% HemBal CNS)	1.13	9.0	3.0	63.0	23.0	1.0	1.0	0.0
Wet HemBal Small Top Pulp (>70% 5-7 r tops)	1.11	0.0	0.0	17.3%	75.3%	4.7%	2.1%	0.6%
Dry HemBal Small Top Pulp (>70% 5-7 r tops)	1.01	0.0	0.0	17.3%	75.3%	4.7%	2.1%	0.6%
Wet Fir/Pine Pulp/CNS (>50% Fir & Pine Pulp/CNS)	1.10	0.0	0.0	25.0	65.0	6.0	3.0	1.0
Dry Fir/Pine Pulp/CNS (>50% Fir & Pine Pulp/CNS)	1.16	0.0	0.0	25.0	65.0	6.0	3.0	1.0
Wet Mixed Species Pulp (50% or less in each Species)	1.16	2.0	2.0	21.0	53.0	8.0	13.0	1.0
Dry Mixed Species Pulp (50% or less in each Species)	1.22	2.0	2.0	21.0	53.0	8.0	13.0	1.0
Wet Cypress & Cedar Pulp (>50% CY & CE Pulp)	1.33	0.0	1.0	15.0	1.0	35.0	47.0	1.0
Dry Cypress & Cedar Pulp (>50% CY & CE Pulp)	1.40	0.0	1.0	15.0	1.0	35.0	47.0	1.0

Wet - Defined as logs or bundles that were towed in the water prior to scaling (i.e., excludes barged volume that was not stored in water).

Dry - Defined as logs or bundles that were transported by land only prior to scaling.

Concurrent Residual Harvest System (CRHS)

(COAST)

Volume/Weight Facility Type Ratio and Grade Profile Table

Facility Type	Vol/Wt Ratio	Grade H %	Grade I %	Grade J %	Grade M %	Grade U %	Grade X %	Grade Y %	Grade Z %
Firewood (< 20% U or better)	1.47	0.0	0.0	5.0	0.0	10.0	70.0	13.0	2.0
HemBal Cants (< 50% J or better)	1.16	0.0	0.0	45.0	0.0	45.0	4.0	4.0	2.0
Non HemBal Cants (< 90% U or better)	1.32	0.0	1.0	40.0	0.0	45.0	7.0	6.0	1.0
Round Post and Rail (< 50% U or better)	1.28	0.0	0.0	35.0	0.0	5.0	30.0	20.0	10.0
Split Post and Rail (< 40% M or better)	1.18	0.0	0.0	0.0	19.0	0.0	76.0	0.0	5.0
Pellets/Bio-Energy (< 10% U or better)	1.23	0.0	0.0	3.0	0.0	2.0	60.0	25.0	10.0

Processed Material Delivery Table

Facility Type	Vol/Wt Ratio	Grade H %	Grade I %	Grade J %	Grade U %	Grade X %	Grade Y %	Grade Z %
Hogfuel	1.65	0.0	0.0	3.0	2.0	60.0	25.0	10.0
Chips	1.45	2.0	1.0	19.0	44.0	24.0	4.0	6.0

Concurrent Residual Harvest System (CRHS)

(COAST)

Appendix 2

Licensees electing the CRHS process must advise the Area staff in order to have strata designed for their use. At the time of entering the fixed ratio CRHS strata into the Harvest Billing System Ministry staff will consult with the Licensee on the Species profile of the material and will enter the Species as a percentage ratio of the total volume/weight ratio for the stratum. Pulp strata descriptions in HBS will include the estimated species % for the strata used. Grade percentages within a stratum billed at the same percent for all species.

Example: Stratum Species/Grade Ratio Breakdown:

Facility Type	Volume/Weight Ratio		Ratio Table for Stratum 01						
Dry HemBal Pulp	1.12		Grade Profile						
		Species %	Grade H 2.0%	Grade I 2.0%	Grade J 21.0%	Grade U 53.0%	Grade X 8.0%	Grade Y 13.0%	Grade Z 1.0%
	HE	70	0.01568	0.01568	0.16464	0.41552	0.06272	0.10192	0.00784
	BA	20	0.00448	0.00448	0.04704	0.11872	0.01792	0.02912	0.00224
	CE	10	0.00224	0.00224	0.02352	0.05936	0.00896	0.01456	0.00112

This Species/Grade and Ratio information will be entered into HBS by Area staff as:

Stratum	Stratum Name	Grade Schedule	Product Schedule
01	Dry HemBal Pulp	Coast Grades	Logs

Species	Grade	Ratio	Fraction
Hemlock	H	0.01568	1.40%
Hemlock	I	0.01568	1.40%
Hemlock	J	0.16464	14.70%
Hemlock	U	0.41552	37.10%
Hemlock	X	0.06272	5.60%
Hemlock	Y	0.10192	9.10%
Hemlock	Z	0.00784	0.70%
Balsam	H	0.00448	0.40%
Balsam	I	0.00448	0.40%
Balsam	J	0.04704	4.20%
Balsam	U	0.11872	10.60%
Balsam	X	0.01792	1.60%
Balsam	Y	0.02912	2.60%
Balsam	Z	0.00224	0.20%
Cedar	H	0.00224	0.20%
Cedar	I	0.00224	0.20%
Cedar	J	0.02352	2.10%
Cedar	U	0.05936	5.30%
Cedar	X	0.00896	0.80%
Cedar	Y	0.01456	1.30%
Cedar	Z	0.00112	0.10%
Totals		1.12000	100.00%