



Ref: 265512

File: 195-30/CRUI

June 29, 2021

**BY EMAIL**

To: Regional Executive Directors

**Re: 2021 Cruising and Compilation Manuals**

The purpose of the memo is to inform you that the following manuals become effective July 1, 2021:

- Cruising Manual, Amendment No. 1
- CGNF Standards and Procedures for the Coast Forest Area, Original
- Cruise Compilation Manual, Amendment No. 1
- CGNF Compilation Standards for the Coast Forest Area, Amendment No. 1

The manuals will be available on the internet at the following link:

<http://www2.gov.bc.ca/gov/content/industry/forestry/competitive-forest-industry/timber-pricing/timber-cruising>

Please find a copy of the highlights for these four manuals attached.

Comments or questions should be referred to Michael Wedel, Cruising Policy Forester, Timber Pricing Branch at (778) 974-2450.

Allan W. Bennett, RPF  
Director  
Timber Pricing Branch

Attachments

pc: Melissa Sanderson, Assistant Deputy Minister, Forest Policy and Indigenous Relations  
Jim Schafthuizen, Executive Director, Forest Policy and Indigenous Relations  
Lukasz Wichrowski, Cruising Specialist, South Area  
Greg Jonuk, Cruising Specialist, North Area  
Martin Plewak, Cruising and Waste Specialist, Coast Area

# TIMBER PRICING BRANCH

## **CGNF Standards and Procedures for the Coast Forest Area**

Effective: July 1, 2021

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**Includes Amendments**

**Effective Date**



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## Highlights

The 2021 CGNF Standards and Procedures for the Coast Forest Area is effective July 1, 2021. The Manual is available on the Internet at:

<https://www2.gov.bc.ca/gov/content/industry/forestry/competitive-forest-industry/timber-pricing/timber-cruising/cgnf-standards-and-procedures-for-the-coast-forest-region-manual>

Section	Description
Entire Manual	This manual has been reformatted to provide consistent and simplified styles, headers, footers, font, and numbering of sections. Most page numbers have been shifted since the last amendment.
Section 3.4	Cypress H and I grade minimum 'Cut %' revised to coincide with the standards in the Scaling Manual.
Section 4.1	Volume and value standards have been revised based on analysis of audit results.
Section 4.2	The standards for damage codes, slopes, and plot locations are consistent with the Cruising Manual.
Section 4.4	The selling price tables 20 and 21 have been removed. These are updated periodically and the most recent tables are on the Timber Pricing Branch website.

### 3.4. Revenue Call Grading Criteria



**CGNF CRUISING**

**FIR & PINE (No Pine Peelers)**

DIMENSIONS	CUT (min)	KNOTS (max diameter)
D LBR ▶5.0m ▶76cm	75 %	90% surface clear
F LBR ▶5.0m ▶60cm	75 %	60-75cm, 75% surface clear ▶76cm, knots allowed 75% 1 side or 50% 2 sides
B PLR ▶5.0m ▶60cm	80 % Veneer	60-75cm, 1 clear butt block ▶76cm, knot ind butt block
C PLR ▶5.0m ▶38cm	80 % Veneer	4cm max
H S/L ▶5.0m ▶38cm or ▶50cm	75 % 50 %	▶38cm to 4cm reas well spaced, or 5cm on top 1/2 * ▶50cm, 5cm on top 2/3 * or 8cm on top 1/2 * * 2cm on bottom portions
I S/L ▶5.0m ▶38cm or ▶50cm O/W H Quality	75 % 50 % 50 %	▶38cm, to 8cm ▶50cm, to 9cm ▶76cm, to 10cm
J S/L ▶5.0m 15-36cm	75 %	15-26cm, to 4cm 28-36cm, to 6cm
U UTL ▶5.0m 10-14cm or ▶5.0m 15-36cm or ▶5.0m ▶38cm	75 % 66.7 % 50 %	10-14cm to 4cm; 15-26cm to 6cm 27-36cm to 8cm; 38-48cm to 10cm 50-74cm to 12cm; ▶76cm to 14cm
X UTL ▶5.0m ▶10cm	33.3 %	same as U, except ▶50cm allow 2 OLK / 3m
Y CHPR ▶3.0m, poorer than X UTL, better than Z	NON RECOVERABLE	
Z for appraisal - Z is NON RECOVERABLE (NRec)		

**HEMLOCK & BALSAM**

D LBR ▶5.0m ▶66cm	75 %	66-74cm 90% surface clear ▶76cm 80% surface clear
F LBR ▶5.0m ▶60cm	75 %	50-64cm 75% surface clear ▶66cm knots allowed 75% 1 side or 50% 2 sides
H S/L ▶5.0m ▶38cm O/W D or F Quality	75 % 50 %	see Fir H knot specs
I S/L ▶5.0m ▶38cm O/W H Quality	75 % 50 %	see Fir I knot specs
J S/L, U UTL, X UTL, Y CHPR, Z NRec	see Fir specs	

**CYPRESS**

D LBR ▶5.0m ▶60cm	75 %	66-74cm 75% surface clear ▶76cm 67% surface clear
F LBR ▶5.0m ▶50cm O/W D Quality	75 %	50-58cm 75% surface clear ▶60cm - knots allowed 75% on 1 side or 50% 2 sides
H S/L ▶5.0m ▶38cm	75 %	see Fir H knot specs
I S/L ▶5.0m ▶38cm	75 %	see Fir I knot specs
J S/L ▶5.0m 15-36cm	75 %	see Fir J knot specs
U UTL, X UTL, Y CHPR, Z NRec	see Fir specs	

**SPRUCE**

F LBR ▶5.0m ▶75cm	75 %	90% surface clear
G LBR ▶5.0m ▶60cm	75 %	60-74cm, 75% surface clear ▶76cm, knots allowed 75% 1 side or 50% 2 sides or 75% shopgrade ▶100cm, 50% shopgrade
H S/L ▶5.0m ▶38cm	75 %	see Fir H knot specs
I S/L ▶5.0m ▶38cm or ▶50cm	75 % 50 %	see Fir I knot specs ▶100cm to 13cm max.
J S/L ▶5.0m 15-36cm	75 %	see Fir J knot specs
U & X UTL, same as Fir except logs ▶100cm	allow knots to 15cm	
Y CHPR, Z NRec	see Fir specs	

SPIRAL GRAIN - % of top diameter				OCC LGR KNTS
4%	7%	10%	13%	1 per 3m length;
D, E, F, G, K	B, C, H, L, M	I, J Ungrd Spec	U, X	
6cm max	8cm max	1 = 8cm, J = 4cm	13cm max	X-UTL ▶50cm up to 2 per 3m

**HARDWOODS : DECIDUOUS SPECIES**

C (cottonwood only) ▶5.0m ▶25cm Max twist 7% (8cm)	80 % Veneer	Knots < 4cm well spaced NO Conk, NO Butt Rot NO Sweep, No Crook
I S/L ▶5.0m ▶25cm	50%	25-36cm to 4cm; 38-48cm to 8cm; ▶50cm to 9cm
U UTL ▶5.0m 10-14cm or 15-24cm or ▶25cm	75 % 66.7 % 50 %	10-14cm to 4cm; 15-26cm to 6cm 28-36cm to 8cm; 38-48cm to 10cm ▶50cm to 12cm;
Y CHPR	poorer than S/L, better than NRec, <b>Dead Potential = Y or lower</b>	
Z NRec,	see Fir specs	

**CEDAR ( NO POWDER WORM in D, F, K, L, M, H - n/a CGNF)**

DIMENSIONS	CUT	KNOTS (diameter)
D LBR ▶5.0m ▶60cm or ▶120cm	75 % 66.7 %	60-74cm 75% surface clear ▶76cm 67% surface clear
F LBR ▶5.0m ▶50cm	75 %	50-54cm surface clear; 60-74cm 67% surface clear ▶76cm knots allowed 75% 1 side or 50% 2 sides
K SHG ▶4.0m ▶50cm Slab ▶38cm thick	50 SS	50-58cm surface clear ▶60cm same as Cedar D
L SHG ▶4.0m ▶38cm Slab ▶26cm thick	50 SS	50% surf. Cir. Or spacing, round logs >60cm allow spacing
M SHG ▶4.0m ▶38cm Slab ▶16cm thick	50 SS	25% surf clear, or spacing, round logs >50cm allow spcing
H S/L ▶5.0m ▶38cm	75 %	see Fir H knot specs
I S/L ▶5.0m ▶38cm or ▶10.0m ▶50cm O/W H Quality	75 % 50 % 50 %	see Fir I knot specs see Fir H knots
J S/L, U & X UTL, Y CHPR, Z NRec	see Fir specs	

**SLABS**

Cedar	D,F,K	H,I	L	M	U	X
Thickness	38cm	38	26	16	16	10
Mean dia.	50cm	38	38	26	16	10

Cedar : Use knot specs based on slab width. Thickness is rgt. angle to grain  
Other species, I S/L & better, 38cm thick & mean diameter ▶grade rule

**GENERAL FACTORS & RULES**

<b>LOG LENGTHS:</b> Standard lengths 8m, 11m, 13m Min lgths 5m, Shingle 4m, Y 3m Hull Blocks, 4m & 6m allowed	<b>LUMBER</b> – no conk or blind onk <b>DEAD</b> – must > 8m Gr U <b>No Top</b> = Gr N 99 00%
<b>CROOK &amp; PISTOL GRIP in PEELERS</b> <8.0 m - no loss allowed 8.0 m to <11.0 m - up to 1.2m Grade Con. ▶11.0 m - up to 2.0m Grade Con.	<b>BUTT ROT IN PEELERS</b> <8.0 m - none allowed 8.0 to <11.0 m - to 1/3 butt meas ▶11.0 m - to 1/2 butt meas
<b>SWEEP in PEELERS</b> <8.0 m - up to 0.6m Grade Con 8.0 m to <11.0 m - up to 1.2m Grade Con. ▶11.0 m - up to 2.0m Grade Con	<b>CONK</b> +2m /-4m NF 50% Gr Y <b>B/CONK</b> +4m /-8m NF 50% Gr Y <b>Fork</b> widecay 1m NF 50% Gr Z <b>Crk</b> widecay 1m NF 50% Gr Z <b>Rot Brch +/-</b> 1m NF 50% Gr Z <b>Shatter/Breakage</b> - Gr Z <b>Root Rot</b> Deduct 0.6m
<b>Mental Bucking Allowance</b> <8.0 m - NO Bucks Allowed 8.0 m to <13.0 m - 1 Buck only ▶13.0 m - 2 bucks only	

BUTT ROT GUIDE		
B/Rot Diam Ratio	N/F Deduction	Grade Consideration Length Not Recoverable
1/4	0.2m	0.6m
1/2	0.4m+	1.8m
3/4	1.2m+	3.6m
4/4	2.4m	4.2m
Sounding	0.8m	2.4m
P. schweinitzii	0.6m	2.0m

▶ means equal to or greater than (= or >)  
O/W = otherwise

NB: Common lower grades are listed under FIR & PINE

#### **4.1. Primary Standards**

- a. Mature Net Volume Standard – the original cruise must be within +/- **10%** of the check cruise net volume per hectare.
- b. Second Growth Net Volume Standard – the original cruise must be within +/- **10%** of the check cruise net volume per hectare.
- c. Mature Value Standard – the original cruise must be within +/- **15%** of the check cruise value per m<sup>3</sup>.
- d. Second Growth Value Standard – the original cruise must be within +/- **15%** of the check cruise value per m<sup>3</sup>.

The net volume and value calculations will be based on the compilation of the original plots in 1.0 hectare and the check plots in 1.0 hectare.

## 4.2. Appraisal Standards

The appraisal requirements are:

- a. Damage coding – consistent with the standards in Chapter 3 of the *Cruising Manual*.
- b. Plot slope - consistent with the standards in Chapter 3 of the *Cruising Manual*.
- c. Plot Locations - consistent with the standards in Chapter 3 of the *Cruising Manual*.
- d. Sounding.

The check cruiser will use an increment borer when they need to confirm the presence of butt rot determined by sounding. The check cruiser will always apply the 0.8 m length deduction when the boring confirms the presence of rot regardless of the thickness of the sound wood collar.

#### 4.4. Preparing the Quality Assurance Summary

1. Complete a summary report for each check plot and for all the plots checked.
2. Compile the audit sample to determine whether the net volume and value meet the standards. If the net volume and value standards are not achieved, then the cruise will be rejected and the reasons for the excessive variations documented and signed by the check cruiser.
3. Note that the net factor for a Z-grade piece is called as per the original cruisers estimate and is not subject to audit.
4. The check cruise report will be sent to the cruiser and licensee.

#### Selling Price Comparisons

The value standard is based on the average of the Vancouver Log Market selling prices published by **Timber Pricing Branch**. The average selling prices by maturity and sorts will be used for calculating the selling prices for check cruising purposes and they will be updated **periodically to reflect relative prices between sorts**. The prices are posted on the Timber Pricing Branch website at the following location:

[https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/timber-pricing/timber-cruising/weighted\\_selling\\_price\\_2019.pdf](https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/timber-pricing/timber-cruising/weighted_selling_price_2019.pdf)

If the “Net Immature by Block %” is 50.0% or less for the cutblock being check cruised, the “Weighted Coast Selling Prices – Mature” are to be used. Otherwise the “Weighted Coast Selling Prices - Second Growth” are to be used. This determination is made by compiling the original cruiser’s CGNF data as submitted prior to a check cruise. Alternatively, the cruiser and check cruiser may mutually agree to use one of the selling price tables provided at the location above.