

Appendix

Appendix I Damage Codes

1. Insect

The types of defects normally associated with insect damage are sap rot and weather check. Use the sap rot net factor calculation for insect damage. The weather checks affect the quality of the log and are a factor in grade consideration and not volume. Record the insect damage codes as per Appendix A.6.1 of the *Cruising Manual*

2. Fire


The types of defects normally associated with fire damage are saddle burns and weather checking due to rapid drying by the fire. Saddle burns are net factored the same way as scars and the weather checks are a factor in the grade consideration. Excessive saddle burning may result in 1 or 2 metre segments of Z-grade. Record the fire damage codes as Light (L), Moderate (M) and Heavy (H) as per Appendix A.6.2 of the *Cruising Manual*.

3. Down Tree

Fallen trees that have their roots attached will have a 1 metre Z grade for the first log if they are < 100 cm at DBH and a 2 metre Z grade if they are > or = 100 cm. Shatter in the tree will be a pencil bucking point. Record the down tree damage code as (E) or (G) and standing trees as (blank). Note that either code E or G can be entered for fallen trees for CGNF cruises since there is not a risk group dependency.

Appendix II Coast Tally Card Details

Blank or dash/dash (--) equals 100% sound in the net factor columns. The code for the computer to compile the grade and net factor to the merchantable height is code 99. See Appendix II for the detailed descriptions of the tally card fields.



BRITISH COLUMBIA

CRUISE TALLY SHEET

59	60	61
YEAR		MONTH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																						
LICENCE NO.												C.P. NO.		BLOCK		STRIP		PLOT		PLOT TYPE		AGE		MT																							
CT												HECTARES OF		MANIPLOT SIZE		B.A.F.		FAB/D.B.H.LIMIT		HECTARES OF		B.A.F.		SUBPLOT SIZE		FAB/D.B.H.LIMIT		METHOD		PERCENT																	
LOG GRADES																																															
1ST/6TH LOG						2ND/7TH LOG						3RD/8TH LOG						4TH/9TH LOG						5TH/10TH LOG																							
LEN		NF		%		LEN		NF		%		LEN		NF		%		LEN		NF		%		LEN		NF		%																			
GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE		GRADE																			
MATURE		DOWN TREE		LIVE/DEAD		MATURE		DOWN TREE		LIVE/DEAD		MATURE		DOWN TREE		LIVE/DEAD		MATURE		DOWN TREE		LIVE/DEAD		MATURE		DOWN TREE		LIVE/DEAD																			
DAMAGE																																															
ROOT ROT SELECTIVE 2 - 5 M LOG 1 - 5 M LOG STRUB LIVE/LAMB SERIAL GRASS DEAD/BR TOP ROTTEN BR MISTLETOE FORK - CROCK SCAR BLIND CONK CONK TREE CLASS																																															
QUALITY REMARKS																																															
LOG NO. KNOTS 1 - 5 M LOG 2 - 5 M LOG STRUB LIVE/LAMB SERIAL GRASS DEAD/BR TOP ROTTEN BR MISTLETOE FORK - CROCK SCAR BLIND CONK CONK TREE CLASS																																															
PATH REMARKS																																															
LOG NO. KNOTS 1 - 5 M LOG 2 - 5 M LOG STRUB LIVE/LAMB SERIAL GRASS DEAD/BR TOP ROTTEN BR MISTLETOE FORK - CROCK SCAR BLIND CONK CONK TREE CLASS																																															
SAMPLE TREE FILE																																															
TREE NO.		TOT.HT.		SPP.		DBH		D.C.		TOT. AGE		COUNTED		CORR		BORSD		SLOPE %		SLOPE DIST. m		HOR. DIST. m		I/O		REMARKS																					
1		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47	
3																																															

Please be advised that this information may be released under the Freedom of Information and Protection of Privacy Act.

FS 205 HVA 2006/04

Figure A.1 FS 205 – Cruise Tally Sheet.

Coast Cruise Tally Card Details (FS 205) - note that bold positions are required for CGNF cruises.

Card Type 9

*Positions 2 to 7	Licence number (alpha/numeric).
*Positions 8 to 10	Cutting permit number (alpha/numeric).
*Positions 11 to 13	Cutblock number (alpha/numeric).
Positions 14 to 15	Cruise strip number (alpha/numeric).
Positions 16 to 17	Cruise plot number (alpha/numeric).
Position 18	Original (O or blank) or Check (C) cruise.
Positions 19 to 20	Timber type number (alpha).
Positions 21 to 24	Age in 10s and Height – required for loss factor cruises only.
Position 25	Measure (M) or Count (C) plot (alpha).
Position 26	Vacant
Position 27 to 30	Main Plot Size (numeric) = fixed area plot size in hectares.
Positions 31 to 35	Main Plot Size (numeric) = prism size = Basal Area Factor in M/CM.
Position 36	Full (F) measure or Walkthrough plot (alpha).
Positions 37 to 39	DBH Limit (numeric) – 12.0 for second growth cutblocks and 17.5 cm for mature cutblocks.
*Positions 53 to 54	Harvesting Method (alpha) – see Chapter 6 of the Cruising Manual for the acceptable harvesting method codes.
Positions 55 to 57	Slope percent (numeric) – the maximum slope within 15 metres slope distance and within the harvest area.
Positions 58 to 59	Year (numeric).
Positions 60 to 61	Month (numeric).

* Data positions marked with an asterisk will not be a check cruise item during check cruises in the field since they may not be known until later.

Card Type 2

Positions 25 to 26	Tree number (numeric).
Positions 27 to 29	Tree height (numeric).
Positions 30 to 31	Species – (alpha) – see Chapter 6 of the Cruising Manual for the acceptable genus and species codes.
Positions 32 to 35	Diameter at breast height (numeric).
Position 36	Tree Class – loss factor cruises only (numeric).
Positions 37 to 44	Pathological Indicators – loss factor cruises only (numeric).
Positions 45, 48, 49, 50, 51	Quality Remarks – loss factor cruises only – (alpha/numeric).
Position 59	Selective Cutting Indicator – mark to cut (C or blank) or leave (L).
Position 60	Root rot codes J, K, L.
Position 61	Insect/defoliator codes – (alpha/numeric).
Position 62	Fire damage codes A (light), B (moderate), C (Heavy).
Position 63	Down tree codes E or G or standing (blank).
Position 64	Mature (M) or Second growth (S) – second growth conifer is less than 141 years old and deciduous is less than 41 years old.
Position 65	Live (L) or Dead (D) – dead trees do not have any live cambium.
Positions 66, 71, 76, 81, 86	Log grades #1 to #5 – (alpha) – note that if a tree has more than 5 logs then the next row can be used for logs #6 to 10.
Positions 67-68, 72-73, 77-78, 82-83, 87-88	Log lengths #1 to #5 – (numeric) – nearest whole metre – note that if a tree has more than 5 logs then the next row can be used for logs #6 to 10.
Positions 69-70, 74-75, 79-80,84-85,89-90	Log net factors #1 to #5 – (numeric, percent soundwood to nearest whole number in percent) – note that if a tree has more than 5 logs then the next row can be used for logs #6 to 10.

Card Type 3

Positions 25 to 26	Tree number (numeric).
Positions 27 to 29	Tree height (numeric).
Positions 30 to 31	Species (alpha).
Positions 32 to 35	Diameter at breast height (numeric).
Position 36	Crown class codes 1 to 4 (numeric).
Positions 37 to 39	Total age in years (numeric) – note that this age includes corrections.
Position 40	Selective cutting indicator - mark to cut (C or blank) or leave (L).
Positions 41 to 43	Counted age in years (numeric).
Positions 44 to 45	Corrected years (numeric) – note that this value is derived from the Site Index Tables for B.C. in Appendix 9 of the <i>Cruising Manual</i> .
Positions 46 to 47	Bored height in metres (numeric) – this is DBH (1.3 metres).
Additional Fields	Borderline tree measurements and tree remarks can be entered.

Back of Cruise Tally Card

The cruiser and check cruiser are required to print and sign their name and date each tally card.

Appendix III Transition from Loss Factor to CGNF Cruising

CGNF cruising commences January 1, 2007. Loss factor cruising will be required concurrently with CGNF cruising for at least one year.

The following standards are required until dual data collection is no longer required:

Dead useless, live useless and dead potential tree classes will be recorded as follows:

1. Dead Potential Tree Classes with a least an 8 m U-grade – CGNF all of the logs in the tree.
2. Dead Potential Tree Classes that do not have at least an 8 m U-grade – record the CGNF attributes as Z-99-00.
3. Dead Useless Tree Classes with at least an 8 m U-grade – CGNF all of the logs in the tree. Record the DBH and the total projected tree height.
4. Dead Useless Tree Classes that do not have at least an 8 m U-grade – do not record or measure these trees.
5. Live Useless Tree Classes – CGNF the whole tree as per the standards. Record the DBH and the total projected tree height.
6. Use the Map Area Statement Card Type D block maturity indicator for the loss factor and the CGNF cruises in the transition period from loss factor to CGNF cruising.

Appraisal and Timber Merchantability Standards

Down Tree Codes – Position 63 on the tally card – continue to code E or G as per section A.6.3 of the *Cruising Manual*. Only one code will be necessary once loss factor cruising is not required.

Live/Dead – Position 64 on the tally card – code L for live trees and D for dead trees since the CGNF cruise compilation program requires this information for the assignment of the net volume adjustment factors.

Mature/Second Growth – code “M” for mature coniferous trees greater than 140 years old and mature deciduous trees greater than 40 years old. Code “S” for coniferous trees less than 141 years old and deciduous trees less than 41 years old. The percent immature by block and the percent second growth for the cutting authority will continue to be calculated using the age in 10s and tree class while these attributes will be calculated using codes “M” and “S” for CGNF cruising.

Note – dead useless trees that do not have at least an 8 m U-grade log in them are no longer recorded in CGNF and loss factor cruises.

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