

# **Appendix**

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## 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.



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

Card Type 9

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

\* 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**

<b>Positions 25 to 26</b>	<b>Tree number (numeric).</b>
<b>Positions 27 to 29</b>	<b>Tree height (numeric).</b>
<b>Positions 30 to 31</b>	<b>Species – (alpha) – see Chapter 6 of the Cruising Manual for the acceptable genus and species codes.</b>
<b>Positions 32 to 35</b>	<b>Diameter at breast height (numeric).</b>
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).
<b>Position 59</b>	<b>Selective Cutting Indicator – mark to cut (C or blank) or leave (L).</b>
Position 60	Root rot codes J, K, L.
<b>Position 61</b>	<b>Insect/defoliator codes – (alpha/numeric).</b>
<b>Position 62</b>	<b>Fire damage codes A (light), B (moderate), C (Heavy).</b>
<b>Position 63</b>	<b>Down tree codes E or G or standing (blank).</b>
<b>Position 64</b>	<b>Mature (M) or Second growth (S) – second growth conifer is less than 141 years old and deciduous is less than 41 years old.</b>
<b>Position 65</b>	<b>Live (L) or Dead (D) – dead trees do not have any live cambium.</b>
<b>Positions 66, 71, 76, 81, 86</b>	<b>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.</b>
<b>Positions 67-68, 72-73, 77-78, 82-83, 87-88</b>	<b>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.</b>
<b>Positions 69-70, 74-75, 79-80,84-85,89-90</b>	<b>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.</b>

**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 – Postion 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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