Appraisal Summaries 14

Appraisal Summary Reports are mandatory as of April 1, 2003.

The Appraisal Summary Reports combine appraisal information from the Volume summaries (Chapter 12) and the Harvesting Method summaries (Chapter 13). There are separate reports for Coast and Interior compilations.

Produce the Appraisal Summary Report even if the compilation does not meet appraisal standards.

When appropriate these messages will be reported on all Appraisal Summary: For Appraisal Purposes, Not for Appraisal Purposes, Sale is in the wet belt, Sale is in the dry belt, 100% Cruise, Stump Cruise.

14.1 Appraisal Summary - Coast

14.1.1 Header information

Include the following header information for the Coast Cruise Summary Report.

1. License from card type A.
2. Cutting Permit from card type A.
3. Locality description from card type A.
4. Cruiser or agency from card type A.
5. Forest Inventory Zone and Unit (long name) from card type A.
6. Number of Blocks from card type A.
7. Total merchantable area from card type A.
8. Second growth percent* from the All Method report.

> * The second growth percent reported is for coniferous species only.

14.1.2 Detail Information

Report the following detail information for the Coast Appraisal Summary Report.

14.1.2.1 Species Grade Percent Table

Each row of the table would report the algorithm grade percent for a particular species from the All Method report (see Chapter 13). The reported species are:

1. Alder.
2. Balsam.
3. Cedar.
4. Cottonwood.

5. Cypress.
6. Fir.
7. Hemlock.
8. Lodgepole Pine.
9. Spruce.
10. White Pine (Albicaulis Pine).
11. Maple.
12. Birch.

The columns would report each grade percent, with an extra column reporting the total net merchantable volume for the species from the All Method report (see Chapter 13).

Report the sum of the total net volume column.

14.1.2.2 Harvesting Method Parameter Table

Report each of these parameters for each Harvesting Method. The source of the data is the individual Harvesting Method report described in Chapter 13. Use the same number of significant digits for each parameter.

Net volume	Report the total net merchantable volume from the Harvesting Method Summary.
Net Volume per 10 m Log	Use the actual merchantability required log length, if not equal to 10 m.
Net Merchantable Volume per Hectare	Report the total net merchantable volume per hectare from the Harvesting Method summary.

Partial Cut Percent	Divide the post-reduction net merchantable volume by the pre-reduction net merchantable volume and multiply by 100. Report this parameter for reduction compilations only. Report to nearest whole number.

Example 14.1

For Harvesting Method 'SS', the pre-reduction net merchantable volume is 2367 m^3. The post-reduction net merchantable volume is 1696 m^3.

The partial cut percent is 100 * (1696 / 2367) = 72 percent

Average Slope Percent	Report the average slope percent from the Harvesting Method Report.
Down Tree Percent	Report the percent blowdown volume - net from the Harvesting Method Report.
Heavy Fire Percent	Report the percent heavy fire volume - net from the Harvesting Method Report.

14.1.2.3 Cutting Permit Parameters

Report each of the following parameters from the Cutting Permit volume summary report (see Chapter 12).

95 Percent Confidence Interval	Report the 95 percent confidence interval from the Cutting Permit statistical summary. Always report pre-reduction values.
Trees per Plot	Report the average number of trees per plot (excluding tree class 4 and 6) from the Cutting Permit Statistical Summary.
Percent Immature by Block	Report the percent immature parameter from the Block Volume Summaries.
Plots per Hectare	Report the plots per hectare (including count plots) from the Cutting Permit Statistical Summary.

14.1.2.4 All Method Parameters

Net volume per tree	Report net volume per tree from the All Method Summary.
Net volume per hectare	Report the Net volume per hectare from the All Method Summary.
NHSVPH	Report the coniferous, non-helicopter partial cut, net volume/hectare.
Conventional Slope	Report total weighed non-helicopter Harvest Method Slope.

Example 14.2

NHSVPH:

Harvest Method	Total Net Coniferous Volume (m^3)	Area (ha.)
CC	10,000	20
CS	5,000	20
HL	2,500	15
SL	500	10
FL	50	10
HW	2,500	15
SW	500	10
FW	50	10

Sum the cutting permit's non-helicopter partial cut Harvest Method's coniferous volumes.

$$10{,}000 + 5{,}000 + 2{,}500 + 2{,}500 = 20{,}000\ m^3$$

Sum the cutting permit's non-helicopter partial cut Harvest Method's areas.

$$20 + 20 + 15 + 15 = 70\ ha.$$

Divide the sum of the volumes by the sum of the areas.

$$20{,}000 / 70 = 285.71 \text{ m}^3\text{/ha.}$$

Report to 2 decimal places.

Example 14.3

Conventional Slope:

Cable	Twenty-five hectares, average slope = 40 percent.
Ground Skidding	Twenty-five hectares, average slope = 20 percent.
Helicopter	Fifty hectares, average slope = 80 percent.
	= (25* 40 + 25* 20)/(25 + 25) = 30 %.

14.2 Coast Appraisal Summary - Sample Listing

```
FOREST REVENUE BRANCH -    2001.0                     COAST APPRAISAL SUMMARY                    COMPUTED 2001-03-19 15:50:22
MINISTRY OF FORESTS - APPRAISAL INFORMATION
LICENCE NUMBER TL7070     CUTTING PERMIT 001       LOCATION  TEST 2000                     CRUISED BY CRUISER B  F.I.Z. C VANCOUVER
NO. OF BLOCKS  002                               TOTAL MERCH AREA     12.5
SECOND GROWTH PERCENT:  76.%
                                  SPECIES GRADE PERCENTS - ALL METHOD
SPECIES/GENUS       B    C    D    E    F    G    H    I    J    K    L    M    U    X    Y  TOTAL
ALDER               0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  MAPLE             0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  BIRCH             0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  BALSALM           0    0    0    0    0    0   19   16   41    0    0    0    3    8   13  1338.
  CEDAR             0    0   15    0   21    0   11    0   27    0    0    0   11   13    2  1159.
  COTTONWOOD        0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  CYPRESS           0    0   15    0    5    0    3    0    0    0    0    0    4   20   53  1205.
  FIR               0    8   14    0    6    0   14    5   25    0    0    0    9    1   18  5462.
  HEMLOCK           0    0    0    0   15    0   42   13   13    0    0    0   17    0    0  2628.
  LODGEPOLE         0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  SPRUCE            0    0    9    2   11    9   18   11   35    0    0    0    0    0    5  1983.
  WHITE PINE        0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  WH BARK PINE      0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
  YELLOW PINE       0    0    0    0    0    0    0    0    0    0    0    0    0    0    0     0.
                                                                  TOTAL NET VOLUME:   13776.
INDIVIDUAL HARVESTING METHOD SUMMARIES
 VARIABLE                  CONVENTIONAL         HELICOPTER         GROUND SKIDDER       HORSE        SKYLINE          SPECIFIED
                          CLEARCUT   SELECT   CLEARCUT   SELECT   CLEARCUT   SELECT             CLEARCUT   SELECT
  NET MERCH VOLUME    M3                                           11408.     2367.
  NET MERCH./10M LOG        0.00       0.00      0.00      0.00      1.00      0.92      0.00      0.00      0.00      0.00
  NET VOLUME/HECTARE                                             1140.846   946.880
  HEMLOCK / BALSALM VOL %                                            30.        24.
  PARTIAL CUT       VOL %                                                      100.
  AVERAGE SLOPE %                                                    60.        90.
  DOWN TREE         VOL %                                             9.
  HEAVY FIRE DAMAGE VOL %                                             2.
CUTTING AUTHORITY
   95% CONF. INTERVAL(M/C)   46.5
   TREES PER PLOT(M/C)        9.6
         BLOCK NUMBER:       001   002
   % IMMATURE BY BLOCK       23.   24.
   PLOTS(M/C) PER HA          0.6
```

Figure 14.1 Coast Appraisal Summary - Sample Listing.

14.3 Appraisal Summary - Interior

14.3.1 Header Information

Include the following header information for the Interior Appraisal Summary Report.

1. License from card type A.
2. Cutting Permit from card type A.
3. Locality description from card type A.
4. Cruiser or agency from card type A.
5. Forest Inventory Zone and Unit (long name) from card type A.
6. Number of Blocks from card type A.
7. Total merchantable area from card type A.
8. Horse Logging net volume*.
9. Helicopter clear cut net volume*.
10. Helicopter partial cut net volume*.

> * The total net merchantable volume from the individual Harvesting Method Reports.

14.3.2 Detail Information

Report the following detail information for the Interior Appraisal Summary Report.

14.3.2.1 Species Parameter Table

Report each of the following parameters from the All Method summary for the following Species:

1. Balsam.
2. Cedar.

3. Fir.
4. Hemlock.
5. Larch.
6. Lodgepole Pine.
7. Spruce.
8. Yellow Pine (Ponderosa Pine).
9. White Pine (Albicaulis Pine).
10. Conifer - combine all coniferous Species in the compilation.

Net Volume	Report the net merchantable volume from the All Method Summary.
Percent Decay	Report the percent decay - net from the All Method Summary.
Stud Log Percent	Report the percent stud log volume - net from the All Method Summary.
LRF	Report the Average LRF from the All Method Summary.
Burn Percent	Report the percent fire damage volume - net from the All Method Summary.

14.3.2.2 Harvesting Method Parameter Table

Report each of the following parameters from the Harvesting Method summaries as described in chapter 13. Use the same number of significant digits for each parameter.

Net volume	Report the total net merchantable volume from the Harvesting Method Summary.
Average Slope Percent	Report the average slope percent from the Harvesting Method Summary.
Net Volume per Tree	Report the net merchantable volume per tree from the Harvesting Method Summary.
Net Volume per hectare	Report the net merchantable volume per hectare from the Harvesting Method Summary.

Stand Defect Percent	Report the percent total cull from the Harvesting Method Summary.
Partial Cut Percent	Divide the post-reduction net merchantable volume by the pre-reduction net merchantable volume and multiply by 100. Report this parameter for reduction compilations only. Report to nearest whole number.
All Fire Percent	Report the percent fire volume - net from the Harvesting Method Report.
Heavy Fire Percent	Report the percent heavy fire volume - net from the Harvesting Method Report.
Down Tree Percent	Report the percent blowdown volume - net from the Harvesting Method Report.
Dead Useless Percent	Report the percent dead useless trees from the Harvesting Method Report.
Lodgepole Pine volume for Highlead/Grapple Harvest Methods	Report the Lodgepole Pine volume for Highlead/Grapple Harvest Methods from the Harvesting Method Report.

14.3.2.3 All Method Parameter Table

Report each of the following parameters from the All Method summaries as described in chapter 13.

Net volume per tree	Report net volume per tree from the All Method Summary.
Net volume per hectare	Report the Net volume per hectare from the All Method Summary.
Slope	Report the slope from the All Method Summary.

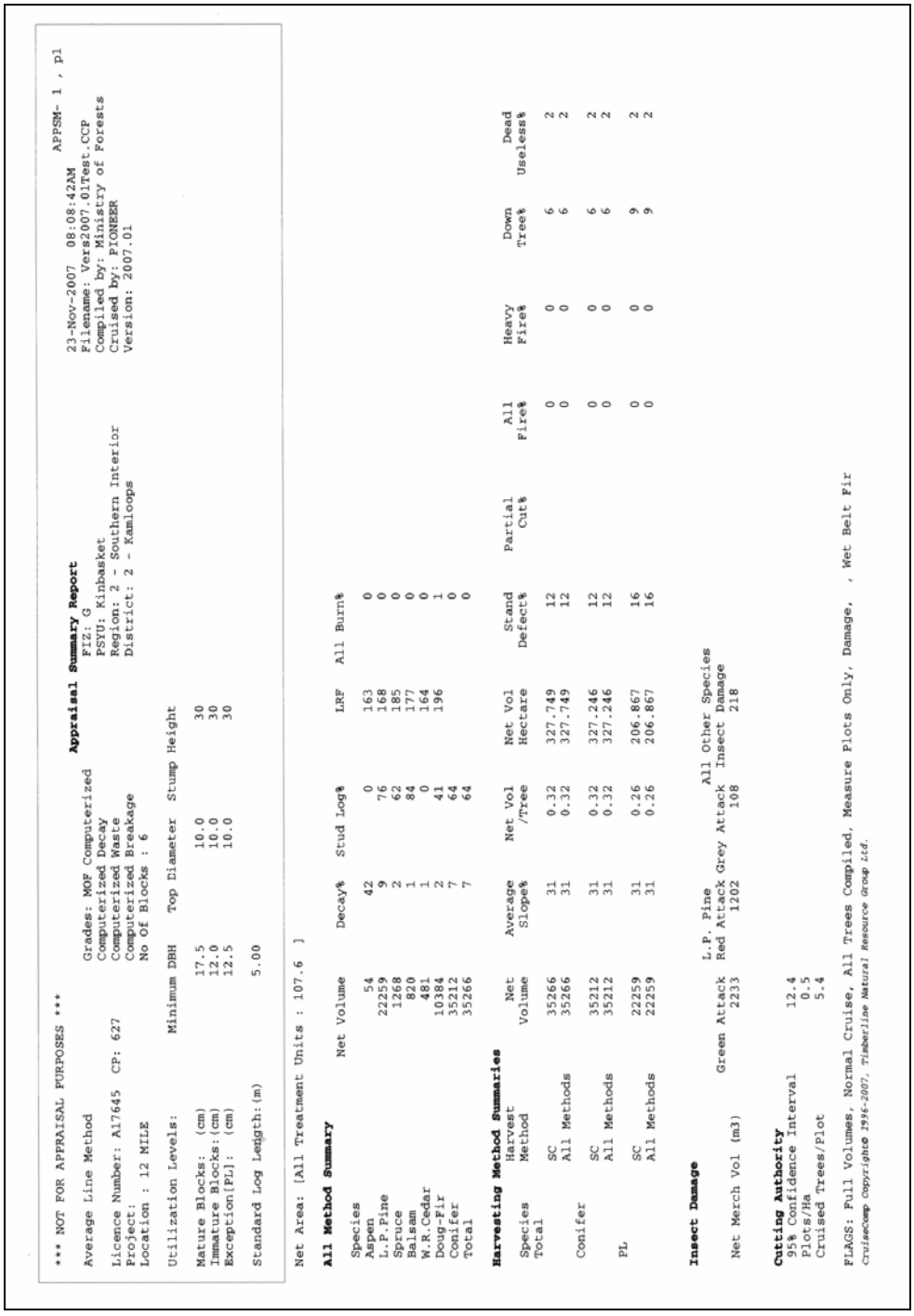
14.3.2.4 Appraisal Summary Page – Insect Damage Table

Report the following attributes in a tabular format below the Lodgepole Pine Harvesting Method attributes on the Interior Appraisal Summary Page:

Cutting Permit PL green attack net merchantable volume (m^3)	This is the Pl insect code 1 (green attack) net merchantable volume reported in the "Cutting Permit Damage Summary (Insect) - All Treatment Unit" report.
Cutting Permit PL red attack net merchantable volume (m^3)	This is the Pl insect code 2 (red attack) net merchantable volume reported in the "Cutting Permit Damage Summary (Insect) - All Treatment Unit" report.
Cutting Permit PL grey attack net merchantable volume (m^3)	This is the Pl insect code 3 (grey attack) net merchantable volume reported in the "Cutting Permit Damage Summary (Insect) - All Treatment Unit" report.
All other species insect and defoliator attack net merchantable volumes	This is the sum of the non-Pl insect codes 1, 2, 3, 5, 6, 7, 8, X, Y beetle and defoliator net merchantable volume reported in the "Cutting Permit Damage Summary (Insect) - All Treatment Unit" reports. Do not include the "Normal" category in the sum of the net merchantable volume.

Refer to Figure 14.4 for the format of the new Interior Appraisal Summary page.

14.4 Interior Appraisal Summary - Sample Listing



*** NOT FOR APPRAISAL PURPOSES ***

Appraisal Summary Report 23-Nov-2007 08:08:42AM APPSM- 1 , p1

Average Line Method — Grades: MOF Computerized; Computerized Decay; Computerized Waste; Computerized Breakage; No Of Blocks : 6 — PIZ: G; PSYU: Kinbasket; Region: 2 - Southern Interior; District: 2 - Kamloops — Filename: Vers2007.01Test.CCP; Compiled by: Ministry of Forests; Cruised by: PIONEER; Version: 2007.01

Licence Number: A17645 CP: 627
Project:
Location : 12 MILE

Utilization Levels:	Minimum DBH	Top Diameter	Stump Height
Mature Blocks: (cm)	17.5	10.0	30
Immature Blocks:(cm)	12.0	10.0	30
Exception[PL]: (cm)	12.5	10.0	30
Standard Log Length:(m)	5.00		

Net Area: [All Treatment Units : 107.6]

All Method Summary

Species	Net Volume	Decay%	Stud Log%	LRF	All Burn%
Aspen	54	42	0	163	0
L.P.Pine	22259	9	76	168	0
Spruce	1268	2	62	185	0
Balsam	820	1	84	177	0
W.R.Cedar	481	1	0	164	0
Doug-Fir	10384	2	41	196	1
Conifer	35212	7	64		0
Total	35266	7	64		0

Harvesting Method Summaries

Species	Harvest Method	Net Volume	Average Slope%	Net Vol /Tree	Net Vol Hectare	Stand Defect%	Partial Cut%	All Fire%	Heavy Fire%	Down Tree%	Dead Useless%
Total											
	SC	35266	31	0.32	327.749	12		0	0	6	2
	All Methods	35266	31	0.32	327.749	12		0	0	6	2
Conifer											
	SC	35212	31	0.32	327.246	12		0	0	6	2
	All Methods	35212	31	0.32	327.246	12		0	0	6	2
PL											
	SC	22259	31	0.26	206.867	16		0	0	9	2
	All Methods	22259	31	0.26	206.867	16		0	0	9	2

Insect Damage

	L.P. Pine		All Other Species	
	Green Attack	Red Attack	Grey Attack	Insect Damage
Net Merch Vol (m3)	2233	1202	108	218

Cutting Authority

95% Confidence Interval	12.4
Plots/Ha	0.5
Cruised Trees/Plot	5.4

FLAGS: Full Volumes, Normal Cruise, All Trees Compiled, Measure Plots Only, Damage, , Wet Belt Fir

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Figure 14.2 Interior Appraisal Summary - Sample Listing.