

Table of Contents

1 Introduction and Overview of Call Grading/Net Factoring

1.1 Call Grading and Net Factoring.....	1-3
1.1.1 Call Grading.....	1-3
1.1.2 Net Factoring	1-3
1.1.3 Tree Form.....	1-5
1.2 Objectives	1-7
1.3 Conventions/Procedures	1-8

2 Net Factoring

2.1 Net Factoring Process	2-2
2.2 Net Factoring Deductions	2-3
2.2.1.2 Applying Deduction Rules.....	2-4
2.3 Deduction Procedures for Loss Indicators.....	2-6
2.3.1 Heart Rot Conk	2-6
2.3.2 Root Rot.....	2-7
2.3.3 Blind Conk	2-8
2.3.4 Frost Crack.....	2-9
2.3.5 Scar	2-11
2.3.6 Butt Rot/Cat Face.....	2-13
2.3.8 Fork.....	2-19
2.3.9 Crook.....	2-19
2.3.10 Rotten Branch	2-20
2.3.11 Dead Tops.....	2-21
2.3.12 Broken (Missing) Tops	2-22
2.3.13 Fallen Trees.....	2-23
2.3.14 Multiple Defects.....	2-23
2.3.15 Dead Standing and Dead Fallen Trees.....	2-25

3 Call Grading

3.1 Introduction.....	3-2
3.2 Definitions.....	3-3
3.2.1 Procedures.....	3-3
3.2.2 Grading Conventions and Guidelines	3-5
3.2.3 Guidelines	3-7
3.2.3.1 Heart Rot:.....	3-7
3.2.3.2 Butt Rot.....	3-7
3.2.3.3 Frost Cracks	3-8

3.2.3.4 Occasional Larger Knots.....	3-8
3.2.3.5 Weather Checks and/or Insect Damage	3-8
3.2.3.6 Twist	3-10
3.2.3.7 Cedar Shingle Criteria.....	3-11
3.2.3.8 Lumber Grades.....	3-12
3.2.3.9 Tree Form.....	3-12
3.2.3.10 Last Log	3-12
3.2.3.11 Dead/Dry Tops.....	3-13
3.2.3.12 Ring Shake	3-13
3.2.3.13 Missing Wood and Separated Pieces	3-13
3.3 Revenue Call Grading Criteria.....	3-14

4 Quality Assurance

4.1 Primary Standards	4-2
4.2 Appraisal Standards	4-3
4.3 Plot Selection	4-4
4.4 Preparing the Quality Assurance Summary	4-5
4.5 Acknowledgements.....	4-7

Appendix

Appendix I Damage Codes	A-2
Appendix II Coast Tally Card Details	A-3
Appendix III Transition from Loss Factor to CGNF Cruising	A-7

Tables

Table 1: Summary of Sorts, Grades, Standard Log Lengths and Application Notes	1-5
Table 2: Formula for Calculating Volume.....	2-3
Table 3: Summary of Procedures for Determining Net Factor for Loss Indicators..	2-4
Table 4: Deduction Procedure for Heart Rot Conk	2-6
Table 5: Deduction Procedure for Root Rot	2-7
Table 6: Deduction Procedure for Blind Conk	2-8
Table 7: Deduction Procedure for Frost Crack	2-9
Table 8: Deduction Procedure for Scar.....	2-11
Table 9: Deduction Procedure for Butt Rots.....	2-13
Table 10: Butt Rot Guide for Length Deductions.....	2-17
Table 11: Deduction Procedure for Fork with Visible Decay	2-19
Table 12: Deduction Procedure for Crook with Visible Decay.....	2-20
Table 13: Deduction Procedure for Rotten Branch with Visible Decay.....	2-20
Table 14: Deduction Procedure for Measurable Sap Rot	2-21
Table 15: Deduction Procedure for Broken Tops	2-22
Table 16: Deduction Procedure for Rot Associated with Log Below Broken Top	2-22
Table 18: Butt Rot Guide for Length Deductions.....	3-8
Table 19: Maximum Twist Displacement by Grade.....	3-11
Table 20: Weighted Coast Selling Prices - Mature Grades	4-6
Table 21: Weighted Coast Selling Prices – 2 nd Growth.....	4-6

List of Figures

Figure 1.1 Irregular Tree form.....	1-6
Figure 2.1 Example of Net Factor Calculation for Root Rot on the Ground.....	2-7
Figure 2.2 Example of Net Factor Calculation for Root Rot on the Tree.....	2-8
Figure 2.3 Example of Net Factor Calculation for Frost Cracks.....	2-10
Figure 2.4 Examples of a Net Factor Calculation for Scars with Known Depth....	2-13
Figure 2.5 Example of Net Factor Calculation for Cylindrical Defect.....	2-14
Figure 2.6 Example of Net Factor Calculation (conical).....	2-15
Figure 2.7 Example of Net Factor Calculation (cylindrical & conical) for Cedar Shingle.....	2-16
Figure 2.8 Example of Net Factor Calculation (using butt rot table).	2-18
Figure 2.9 Example of Sounding Deduction.....	2-18
Figure 2.10 Example of Net Factor Calculation for Measurable Sap Rot.....	2-21
Figure 2.11 Example of Net Factor Calculation for Broken Tops with Decay.	2-23
Figure 2.12 Example of Isolated Sections between Defects.....	2-24
Figure 3.1 Example of Grade Calculation for Weather Checked Logs.	3-9
Figure 3.2 Examples of Grade Calculation for Twist.....	3-11
Figure A.1 FS 205 – Cruise Tally Sheet.....	A-3