



Scaling roundwood/Measurement of wood chips, tree residues, and by-products



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Contents

Technical Committee on Scaling of Primary Forest Products x

Preface *xiii*

0302.1-15, Scaling roundwood

1 Scope 3

2 Reference publications 3

3 Definitions 4

4 Approaches to scaling 10

4.1 General 10

4.2 Direct scaling 10

4.3 Sample scaling 10

4.3.1 General 10

4.3.2 Advantages 10

4.3.3 Risks 10

4.4 Check scaling 11

4.4.1 The check scaler 11

4.4.2 Location of the check scale 11

4.4.3 Time of the check scale 11

4.4.4 How the check scale is made 11

4.4.5 Identification of wood for check scaling 11

4.4.6 The check scale as an acceptance sample 11

4.4.7 Control of sampling error in check scaling 12

4.4.8 Estimation of scaling error 12

4.5 Units of measurement 12

4.6 Roundwood measurement 12

4.6.1 Diameter measurement 12

4.6.2 Length measurement 12

4.6.3 Mass measurement 13

4.7 Measurement tolerances 13

4.7.1 General 13

4.7.2 Tolerance level one 13

4.7.3 Tolerance level two 14

4.7.4 Tolerance level three 14

4.7.5 Tolerance level four 14

4.8 Names of tree species 15

5 Solid volume of individual logs 15

5.1 Net volume of a log 15

5.2 Measurements for calculating volume 15

5.2.1 Tolerances 15

5.2.2 Whole log 15

5.2.3 Defect measurements 16

5.2.4 Volume calculations 17

5.3.1 Unit of measure 17

5.3.2 Gross volume 17

5.3.3 Defect volume 17

5.4 Volume tables 19

| | |
|---|----|
| 6 Solid volume of logs in piles | 20 |
| 6.1 Net pile volume | 20 |
| 6.2 Measurements for calculating volume | 20 |
| 6.2.1 Tolerances | 20 |
| 6.2.2 Diameter measurements | 20 |
| 6.2.3 Length measurements | 21 |
| 6.2.4 Defect measurements | 21 |
| 6.3 Volume calculations | 21 |
| 6.3.1 General | 21 |
| 6.3.2 Volume based on measurements on one side of the pile | 21 |
| 6.3.3 Volume based on measurements on both sides of the pile | 22 |
| 7 Tree length scaling | 22 |
| 7.1 Measurements for calculating volumes of individual tree lengths | 23 |
| 7.1.1 Tolerances | 23 |
| 7.1.2 Diameter measurements | 23 |
| 7.1.3 Length measurements — Method | 23 |
| 7.1.4 Defect measurements | 23 |
| 7.1.5 Volume calculations | 23 |
| 7.2 Tree length volume tables | 24 |
| 7.2.1 General | 24 |
| 7.2.2 Tree length sample | 24 |
| 7.2.3 Local volume tables | 24 |
| 7.3 Tree lengths in piles | 24 |
| 7.3.1 General | 24 |
| 7.3.2 Measuring the total population | 24 |
| 7.3.3 Counting the total population and measuring a sample | 24 |
| 7.3.4 Measurement of the pile face | 25 |
| 8 Stacked volume | 26 |
| 8.1 General | 26 |
| 8.2 Length of stack | 26 |
| 8.2.1 Instruments and length classes | 26 |
| 8.2.2 Stacks with sloping ends | 26 |
| 8.2.3 Stacks on hillsides or slopes | 26 |
| 8.2.4 Long stacks | 27 |
| 8.3 Height of stack | 27 |
| 8.3.1 Height classes | 27 |
| 8.3.2 Height measurement in voids | 27 |
| 8.3.3 Stacks on hillsides or slopes | 27 |
| 8.3.4 Relation to type of length measurement | 27 |
| 8.4 Width of stack | 27 |
| 8.4.1 General | 27 |
| 8.4.2 Wide stacks | 27 |
| 8.5 Gross volume | 27 |
| 8.6 Deductions for defects and voids | 28 |
| 8.6.1 Measurements | 28 |
| 8.6.2 Calculation | 28 |
| 8.7 Volumetric scaling of stacked wood on vehicles | 28 |
| 9 Sample scaling | 28 |
| 9.1 Sampling | 29 |
| 9.1.1 Population size | 29 |
| 9.1.2 Stratification | 29 |
| 9.1.3 Sample size | 29 |

- 9.1.4 Estimate of variance 29
- 9.2 Design of sample surveys 29
- 9.3 Sampling systems 29
 - 9.3.1 Simple random sampling 29
 - 9.3.2 Stratified random sampling 29
 - 9.3.3 Systematic sampling 29
 - 9.3.4 Regression estimators 30
- 9.4 Determining sample size for simple random sampling 30
 - 9.4.1 General 30
 - 9.4.2 Sample size 31
 - 9.4.3 Stratified random sampling 32
- 9.5 Maximum allowable error and minimum probability level 32

10 Mass scaling 33

- 10.1 Weighing machines 33
 - 10.1.1 General 33
 - 10.1.2 Capacity 33
 - 10.1.3 Motor vehicles 33
 - 10.1.4 Railway cars 33
- 10.2 Determination of mass 33
- 10.3 Conversion of mass to solid volume 34
 - 10.3.1 General 34
 - 10.3.2 Determination of volume-to-mass ratio 34
 - 10.3.3 Expression of quantities in volume-to-mass ratio 34
- 10.4 Conversion of mass to solid volume by volume scaling of sample units 34
 - 10.4.1 Procedure 34
 - 10.4.2 Species composition 35
 - 10.4.3 Selecting sample units 35
 - 10.4.4 Calculation of total volume 36
- 10.5 Calculating the variance 36
 - 10.5.1 General 36
 - 10.5.2 Confidence limit 37
 - 10.5.3 Sample size 37
- 10.6 Conversion of mass to solid volume by water displacement 38
 - 10.6.1 Volume measurement 38
 - 10.6.2 Sample measurements and calculations 38
- 10.7 Conversion of mass to stacked volume 38
- 10.8 Determination of oven-dry mass and conversion of oven-dry mass to solid volume 39
 - 10.8.1 Determination of oven-dry mass 39
 - 10.8.2 Conversion of oven-dry mass to solid volume 40

11 Piece and linear scaling 41

- 11.1 General 41
 - 11.1.1 Description criteria 42
 - 11.1.2 Procedures 42
- 11.2 Descriptive criteria 42
 - 11.2.1 Species 42
 - 11.2.2 Diameter 42
 - 11.2.3 Length 42
 - 11.2.4 Defects 42
- 11.3 Procedures 42
 - 11.3.1 Precision of measurement 42
 - 11.3.2 Rejects 43
- 11.4 Additional descriptions 43

12 Instruments 43

- 12.1 General 43
- 12.2 Static instruments for measuring diameters 43
 - 12.2.1 Scale sticks for the 2 cm diameter class 43
 - 12.2.2 Calipers 44
 - 12.2.3 Diameter tapes 44
- 12.3 Static instruments for measuring log length or pile dimensions 45
 - 12.3.1 Tapes 45
 - 12.3.2 Scale sticks for log length or pile measurement 45

13 Timber dimension measuring device 46

- 13.1 Scope 46
- 13.2 General 46
- 13.3 Capacity 46
- 13.4 Accuracy 46
- 13.5 Diameter 46
- 13.6 Length 46
- 13.7 Volume 46
- 13.8 Species 47

Annexes

- A** (informative) — Names of commercial tree species grown in Canada 60
- B** (informative) — Volume tables 63
- C** (informative) — Volumetric scaling of stacked wood on trucks with or without trailers and similarly configured vehicles 68
- D** (informative) — Examples of sampling scaling and its application to mass scaling 69
- E** (informative) — Alternative method for determining moisture content 78
- F** (informative) — Determination of the ratio of mass to solid volume (gross or net) using the water displacement method 79
- G** (informative) — Determination of relative density using the water displacement method 81
- H** (informative) — Bibliography 82

Tables

- 1** — Limits of error for scaling instruments 47

Figures

- 1** — Length measurement 47
- 2** — Measurement of logs out of round 48
- 3** — Diameter measure for butt swell 48
- 4** — Diameter measure for abnormal protuberance 49
- 5** — Butt rot measurement 49
- 6** — Heart rot measurement 50
- 7** — Pipe and pocket rot measurement 50
- 8** — Ring and sap rot measurement 51
- 9** — Dead side measurement (pile) 51
- 10** — Minimum butt diameter 52
- 11** — Rot measurement (pile) 52
- 12** — Tree length section measurements 53
- 13** — Example of height and width measurements on a tree length pile face (heights taken at equal intervals) 53
- 14** — Measurement of height of tree length pile with sloping face 54
- 15** — Part pile sample showing vertical boundaries and butt diameters of recorded tree lengths 54
- 16** — Measurement of length of stack with one sloping end 55

- 17** — Measurement of length of stack with both ends sloping 55
- 18** — Measurement of length of stack at points that describe the maximum length 56
- 19** — Measurement of length of stack parallel to slope of ground 56
- 20** — Measurement of length of stack parallel to slope of stack 57
- 21** — Height measurement intervals — Stacks of uniform height 57
- 22** — Height measurement intervals — Stacks of irregular height 58
- 23** — Measurement of height of stack on a slope 58
- 24** — Measurement of height of stack with total length and sloping ends 59
- 25** — Measurement of height of stack with length measured at less than total and with sloping ends 59

0302.2-15, Measurement of wood chips, tree residues, and by-products

1 Scope 85

2 Reference publications 85

3 Definitions 86

4 Approaches to wood chip measurement 87

- 4.1 General 87
- 4.2 Direct measurement 87
- 4.3 Sample measurement 87
- 4.4 Units of measurement to be used 87

5 Measuring individual wood chips 87

- 5.1 General 87
- 5.2 Unit of measurement 88
- 5.3 Equipment 88
- 5.4 Dimensions 88
 - 5.4.1 Length 88
 - 5.4.2 Thickness 88
 - 5.4.3 Width 88
- 5.5 Classification of wood chips 88
 - 5.5.1 Species identification 88
 - 5.5.2 Differentiation between hardwoods and softwoods 88
 - 5.5.3 Classification by size 89
- 5.6 Measurement of distribution of size classes 89

6 Bulk volume of wood chips and hogged (tree) material 89

- 6.1 General 89
- 6.2 Direct measurement 89
 - 6.2.1 Length, width, height, and distance 89
 - 6.2.2 Angles 89
- 6.3 Indirect measurement 90
 - 6.3.1 Length, width, height, and distance 90
 - 6.3.2 Angles 90
- 6.4 Measurement of crowns 90
- 6.5 Measurement of piles 90
 - 6.5.1 General 90
 - 6.5.2 Ground survey measurement 90
 - 6.5.3 Photogrammetric measurement 90
- 6.6 Volume of bulk quantities 91
 - 6.6.1 Precision 91
 - 6.6.2 Volume of a shipment 91
 - 6.6.3 Volume of the container 91

- 6.7 Calculation of the volume of polyhedrons 92
- 6.8 Calculation of the volume of a frustum of a pyramid 92
- 6.9 Calculation of the volume of a cone 92
- 6.10 Calculation of the volume of a frustum of a cone 92
- 6.11 Calculation of the volume of a prismoid 93
- 6.12 Corrections for ground conditions 93
- 6.13 Wood chip conversion factors 93

7 Mass scaling 93

- 7.1 Units of measurement 93
- 7.2 Weighing machines 93
- 7.3 Determination of mass 94
- 7.4 Determination of oven-dry mass 94
 - 7.4.1 General 94
 - 7.4.2 Determination of moisture content 94
 - 7.4.3 Determination of net oven-dry mass of wood chips 95
- 7.5 Conversion of mass to equivalent solid volume 96
 - 7.5.1 Volume determination 96
 - 7.5.2 Density 96
- 7.6 Conversion of oven-dry mass to equivalent solid volume 96

8 Sampling 96

- 8.1 General 96
 - 8.1.1 Goals of sampling 96
 - 8.1.2 Population size 96
 - 8.1.3 Stratification 97
 - 8.1.4 Estimate of variance 97
- 8.2 Sampling systems 97
 - 8.2.1 Simple random sampling 97
 - 8.2.2 Stratified random sampling 97
 - 8.2.3 Systematic sampling 97
- 8.3 Design of sample surveys 97
- 8.4 Sampling procedure 97
 - 8.4.1 General 97
 - 8.4.2 Sample size 98
 - 8.4.3 Sampling plan 98
 - 8.4.4 Collecting the sample 98
- 8.5 Determination of ratio 99
 - 8.5.1 General 99
 - 8.5.2 Ratio estimate 99
 - 8.5.3 Estimate of the variance of the ratio, R 100
 - 8.5.4 Confidence limits 100
- 8.6 Sample size 100
 - 8.6.1 Simple random sampling 100
 - 8.6.2 Stratified random sampling 101

Annexes

- A** (informative) — Average relative density of tree species 104
- B** (informative) — Mass and volume conversions 106
- C** (informative) — Procedure for determining the solid volume of saturated wood chips (water displacement method) 108

Preface

This is the fifth edition of CSA O302.1, *Scaling roundwood*, which supersedes the previous editions, published in 2009, 2000, 1986, and 1977, and the fourth edition of CSA O302.2, *Measurement of wood chips, tree residues, and by-products*, which supersedes the previous editions, published in 2009, 2000, and 1986 under the title *Measurement of Woodchips, Tree Residues, and Byproducts*.

CSA O302.1 sets out criteria for scaling roundwood. It is intended as a source document on log scaling for producers and purchasers of primary wood products in Canada. It is also intended to provide a commonly accepted basis for scaling procedures established by the provinces and territories for determining the measure of timber cut and subject to timber fees.

CSA O302.2 sets out sampling procedures and reliability criteria for the measurement of the wood content and quality of wood chips produced as a primary product at a mill or landing site or as a by-product or residue of a sawmilling or other conversion operation. It addresses the determination of chip quality and wood content of chips, considering both individual chips and large-volume chip piles, e.g., barges of wood chips.

The changes to this edition include the following:

- (a) In CSA O302.1: the addition of [Clause 13](#), which provides the minimum criteria for using timber dimensional measuring devices to measure the diameter and length of individual roundwood, in order to determine gross volumes.
- (b) In CSA O302.2: no changes were made.

These Standards were prepared by the Technical Committee on Scaling of Primary Forest Products, under the jurisdiction of the Strategic Steering Committee on Forest Products, and have been formally approved by the Technical Committee.

Notes:

- (1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
- (2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
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O302.1-15

Scaling roundwood

1 Scope

1.1

This Standard specifies minimum requirements for scaling roundwood and covers processes for quality and quantification assurance.

Note: *Requirements on measuring and estimating quantities of wood chips, tree residues, and by-products are specified in CSA O302.2.*

1.2

This Standard is intended for individuals or agencies charged with scaling and check scaling of primary forest products in Canada.

1.3

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

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Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

Note: See [Annex H](#) for additional publications.

Government of Canada

National Resources Canada. *Canada's Forest Inventory (Canfi) 2001*. Appendix 2: Symbols of Commercial Tree Species. <http://cfs.nrcan.gc.ca/subsite/canfi/appendix-2>. Accessed March 4, 2009.

Weights and Measures Act, RSC 1985, c. W-6

Weights and Measures Regulations, CRC, c. 1605

OIML (International Organization of Legal Metrology)

R 35-1 (2007)

Material measures of length for general use. Part 1: Metrological and technical requirements

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O302.2-15

Measurement of wood chips, tree residues, and by-products

1 Scope

1.1

This Standard specifies minimum requirements for measuring wood chips, tree residues, and by-products in vehicles, containers, vessels, and piles.

1.2

This Standard is intended for purchasers, producers, sellers, transportation agencies, and others concerned with the manufacture, transportation, storage, and use of wood chips, tree residues, and by-products.

1.3

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

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Note: For additional publications see Annex H of CSA O302.1.

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Scaling roundwood

Government of Canada

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