BRITISH COLUMBIA

Ministry of Forests, Lands, Natural Resource Operations and Rural Development

Timber Pricing Branch

MEMORANDUM

Ref: 265512

File: 195-30/CRUI

June 29, 2021

BY EMAIL

To: Regional Executive Directors

Re: 2021 Cruising and Compilation Manuals

The purpose of the memo is to inform you that the following manuals become effective July 1, 2021:

- Cruising Manual, Amendment No. 1
- CGNF Standards and Procedures for the Coast Forest Area, Original
- Cruise Compilation Manual, Amendment No. 1
- CGNF Compilation Standards for the Coast Forest Area, Amendment No. 1

The manuals will be available on the internet at the following link:

http://www2.gov.bc.ca/gov/content/industry/forestry/competitive-forest-industry/timber-pricing/timber-cruising

Please find a copy of the highlights for these four manuals attached.

Comments or questions should be referred to Michael Wedel, Cruising Policy Forester, Timber Pricing Branch at (778) 974-2450.

Allan W. Bennett, RPF
Director
Timber Pricing Branch

Attachments

pc: Melissa Sanderson, Assistant Deputy Minister, Forest Policy and Indigenous Relations
Jim Schafthuizen, Executive Director, Forest Policy and Indigenous Relations
Lukasz Wichrowski, Cruising Specialist, South Area
Greg Jonuk, Cruising Specialist, North Area
Martin Plewak, Cruising and Waste Specialist, Coast Area

TIMBER PRICING BRANCH

Cruise Compilation Manual

Effective: July 1, 2020

Includes Amendments	Effective Date
Amendment No. 1	July 1, 2021

Highlights

2021 Cruise Compilation Manual Changes

This version of the Cruise Compilation Manual is effective July 1, 2021. The *Cruise Compilation Manual* is available on the Internet at:
https://www2.gov.bc.ca/gov/content/industry/forestry/competitive-forest-industry/timber-pricing/timber-cruising/cruise-compilation-manual

Section	Description
5.3.4 Marked to Leave Percent Reduction	A description has been added for Marked to Leave Percent Reductions. Example calculations have been added for these.
5.6 Marked to Leave Selective Cutting	A description has been added for Marked to Leave Selective Cutting.
15.9.11 and 15.9.12 Grade Adjustments	The spruce and cedar historic grade percentages are updated for use in grade adjustments.

Example 5.3

The sample reduction input in Section 5.5 indicates a 20 percent reduction in Type 2 - Treatment Unit B for Yellow Cedar with a DBH up to 150 cm. All Tree Classes are included, and no Damage Types are excluded from the reduction.

A Yellow Cedar was tallied in a plot from Type 2 within Block 2. Recall that Type 2/Block 2 has 2 Treatment Units, each having an area of 2.5 ha. Because the Treatment Unit cannot be coded on the Cruise Tally Sheet, the plot determines volume per hectare for both Treatment Units in Type 2 within Block 2.

The Yellow Cedar was tallied using a BAF of 12 in a full plot and the measured DBH was 55.6 cm. The calculated gross merchantable volume was 3.583566 m^3. Hence, the pre-reduction estimate for gross volume per hectare for both Treatment Units is:

(1)
$$V = \frac{(12\ 12732.39545) * (3.583566)}{55.6^2}$$
$$= \mathbf{177.12\ m^3\ per\ hectare}$$

The post-reduction estimate for Treatment Unit B is:

(2)
$$V = 177.12\ (1 - 0.2)$$
$$= \mathbf{141.69\ m^3\ per\ hectare}$$

The post-reduction estimate for the two combined Treatment Units is:

(3)
$$V = (2.5/5.0) * 177.12 + (2.5/5.0) * 141.69$$
$$= \mathbf{159.40\ m^3\ per\ hectare}$$

5.3.4. Marked to Leave Percent Reduction

A marked to leave percent reduction compilation is used when individual leave trees have been marked in the field and the necessary cruise information collected prior to harvesting so that a specific percent reduction can be calculated using the leave tree volume, basal area or stems per hectare. To determine the appropriate attributes of the leave trees, use a compilation of the leave trees and the corresponding stock table, basal area table or stand table to calculate the percent reduction for each species' DBH class. Below are some examples of different methods compilers

can use to attain the appropriate percent reductions for the cruise compilation.

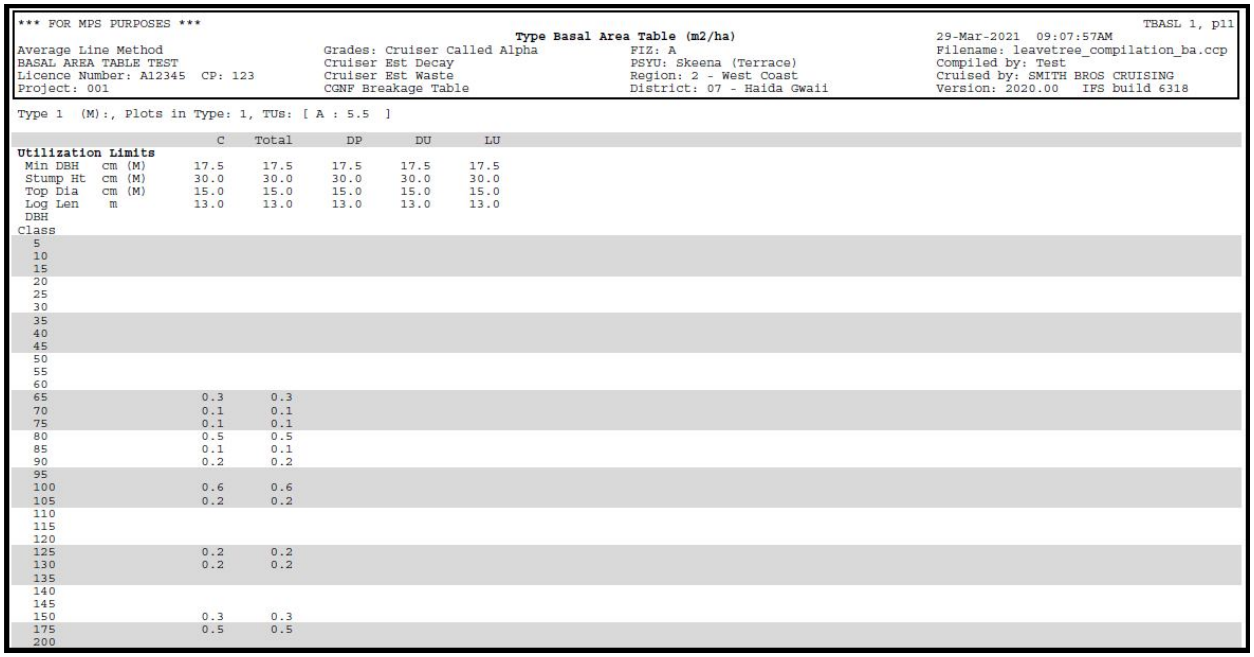
Marked to Leave Percent Reduction – Basal Area Table Example:

The following leave trees were marked and cruised in a cutblock near Kitimat:

Tree #	Height	Species	DBH	Timber Type #	Treatment Unit
1	42.2	Cw	102.0	1	A
2	36.9	Cw	88.1	1	A
3	33.3	Cw	68.9	1	A
4	39.1	Cw	78.2	1	A
5	30.1	Cw	66.3	1	A
6	45.2	Cw	155.0	1	A
7	43.4	Cw	124.7	1	A
8	39.5	Cw	92.2	1	A
9	36.5	Cw	100.6	1	A
10	36.0	Cw	82.0	1	A
11	34.9	Cw	66.2	1	A
12	45.1	Cw	179.3	1	A

Tree #	Height	Species	DBH	Timber Type #	Treatment Unit
13	33.2	Cw	65.0	1	A
14	39.4	Cw	80.0	1	A
15	43.1	Cw	132.0	1	A
16	36.8	Cw	85.4	1	A
17	34.9	Cw	73.2	1	A
18	37.9	Cw	77.7	1	A
19	36.8	Cw	79.6	1	A
20	40.7	Cw	100.5	1	A
21	39.2	Cw	101.5	1	A
22	41.5	Cw	102.9	1	A
23	31.9	Cw	64.1	1	A
24	33.3	Cw	67.2	1	A

The leave trees were compiled below using the same compilation attributes as the associated cutting authority except that it is a 100% compilation and the net area used is the same as the timber type and treatment unit area that the leave trees are located in (5.5ha).



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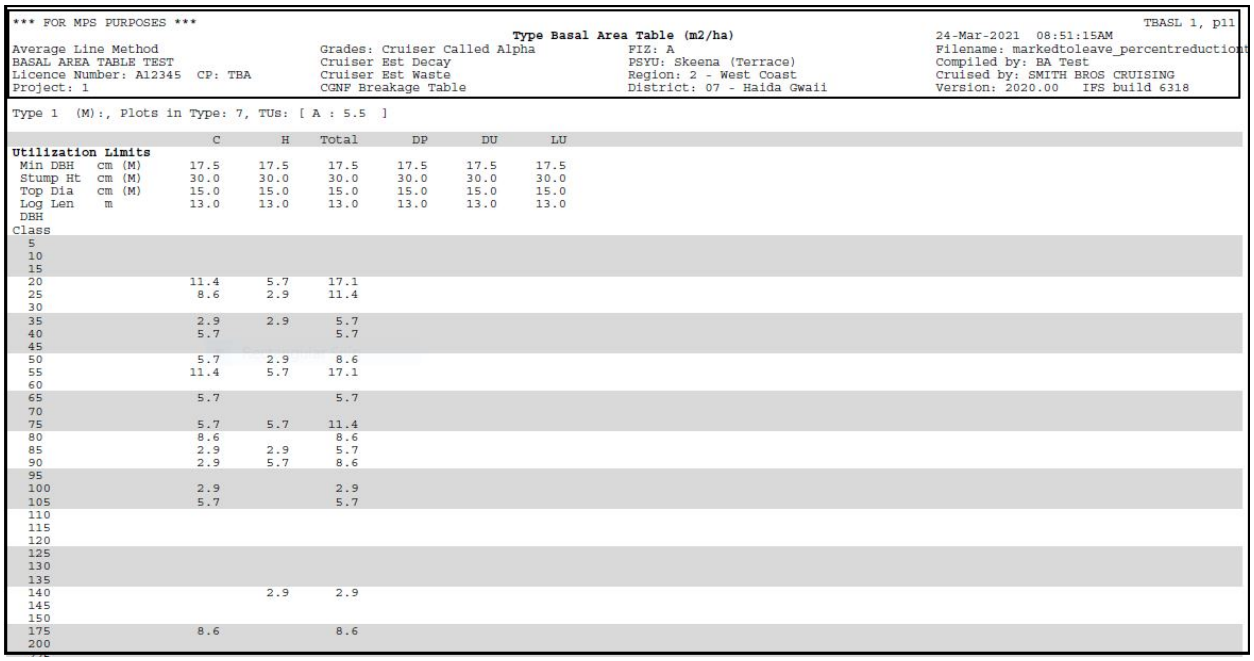
*** FOR MPS PURPOSES ***                                                                    TBASL 1, p11
                                        Type Basal Area Table (m2/ha)                       29-Mar-2021  09:07:57AM
Average Line Method                     Grades: Cruiser Called Alpha    FIZ: A              Filename: leavetree_compilation_ba.ccp
BASAL AREA TABLE TEST                   Cruiser Est Decay               PSYU: Skeena (Terrace)  Compiled by: Test
Licence Number: A12345  CP: 123          Cruiser Est Waste             Region: 2 - West Coast  Cruised by: SMITH BROS CRUISING
Project: 001                            CGNF Breakage Table             District: 07 - Haida Gwaii  Version: 2020.00   IFS build 6318

Type 1  (M):, Plots in Type: 1, TUs: [ A : 5.5  ]

                                C    Total       DP       DU       LU
Utilization Limits
 Min DBH   cm (M)          17.5     17.5     17.5     17.5     17.5
 Stump Ht  cm (M)          30.0     30.0     30.0     30.0     30.0
 Top Dia   cm (M)          15.0     15.0     15.0     15.0     15.0
 Log Len    m              13.0     13.0     13.0     13.0     13.0
 DBH
Class
   5
  10
  15
  20
  25
  30
  35
  40
  45
  50
  55
  60
  65                        0.3      0.3
  70                        0.1      0.1
  75                        0.1      0.1
  80                        0.5      0.5
  85                        0.1      0.1
  90                        0.2      0.2
  95
 100                        0.6      0.6
 105                        0.2      0.2
 110
 115
 120
 125                        0.2      0.2
 130                        0.2      0.2
 135
 140
 145
 150                        0.3      0.3
 175                        0.5      0.5
 200
```

The leave tree basal area table is then compared with the associated DBH class basal area table from the matching species, timber type and treatment unit in the full volume compilation below.



*** FOR MPS PURPOSES *** TBASL 1, p11

Type Basal Area Table (m2/ha)

Average Line Method | Grades: Cruiser Called Alpha | FIZ: A | 24-Mar-2021 08:51:15AM
BASAL AREA TABLE TEST | Cruiser Est Decay | PSYU: Skeena (Terrace) | Filename: markedtoleave_percentreductiont
Licence Number: A12345 CP: TBA | Cruiser Est Waste | Region: 2 - West Coast | Compiled by: BA Test
Project: 1 | CGNF Breakage Table | District: 07 - Haida Gwaii | Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

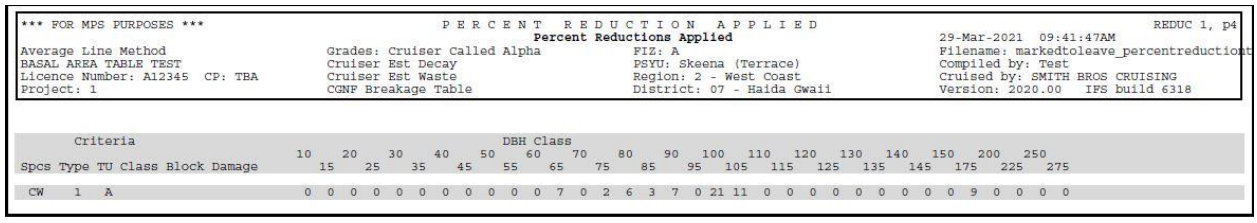
Type 1 (M):, Plots in Type: 7, TUs: [A : 5.5]

		C	H	Total	DP	DU	LU
Utilization Limits							
Min DBH	cm (M)	17.5	17.5	17.5	17.5	17.5	17.5
Stump Ht	cm (M)	30.0	30.0	30.0	30.0	30.0	30.0
Top Dia	cm (M)	15.0	15.0	15.0	15.0	15.0	15.0
Log Len	m	13.0	13.0	13.0	13.0	13.0	13.0
DBH Class							
5							
10							
15							
20		11.4	5.7	17.1			
25		8.6	2.9	11.4			
30							
35		2.9	2.9	5.7			
40		5.7		5.7			
45							
50		5.7	2.9	8.6			
55		11.4	5.7	17.1			
60							
65		5.7		5.7			
70							
75		5.7	5.7	11.4			
80		8.6		8.6			
85		2.9	2.9	5.7			
90		2.9	5.7	8.6			
95							
100		2.9		2.9			
105		5.7		5.7			
110							
115							
120							
125							
130							
135							
140			2.9	2.9			
145							
150							
175		8.6		8.6			
200							

To determine the percent reductions from the full volume compilation, the leave tree basal areas are removed from the corresponding species' DBH class in the full volume compilation.

Species	DBH Class	Timber Type	Treatment Unit	Leave Tree m^2/ha	Full Volume m^2/ha	Percent Reduction	Comments
Cw	65	1	A	0.3	5.7	7%	
Cw	70	1	A	0.1	0.0	*	No 70cm DBH class in full volume compilation therefore added to 65cm DBH class
Cw	75	1	A	0.1	5.7	2%	
Cw	80	1	A	0.5	8.6	6%	
Cw	85	1	A	0.1	2.9	3%	
Cw	90	1	A	0.2	2.9	7%	
Cw	100	1	A	0.6	2.9	21%	
Cw	105	1	A	0.2	5.7	11%	
Cw	125	1	A	0.2	0.0	*	No 125cm DBH class in full volume compilation therefore added to 105cm DBH class
Cw	130	1	A	0.2	0.0	*	No 130cm DBH class in full volume compilation therefore added to 105cm DBH class
Cw	150	1	A	0.3	0.0	*	No 150cm DBH class in full volume compilation therefore added to 175cm DBH class
Cw	175	2	A	0.5	8.6	9%	

The final percent reduction values applied in the reduced compilation are:



*** FOR MPS PURPOSES *** P E R C E N T R E D U C T I O N A P P L I E D REDUC 1, p4

Percent Reductions Applied

Average Line Method | Grades: Cruiser Called Alpha | FIZ: A | 29-Mar-2021 09:41:47AM
BASAL AREA TABLE TEST | Cruiser Est Decay | PSYU: Skeena (Terrace) | Filename: markedtoleave_percentreductiont
Licence Number: A12345 CP: TBA | Cruiser Est Waste | Region: 2 - West Coast | Compiled by: Test
Project: 1 | CGNF Breakage Table | District: 07 - Haida Gwaii | Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

Criteria					DBH Class																				
Spcs	Type	TU	Class	Block	Damage	10 15	20 25	30 35	40 45	50 55	60 65	70 75	80 85	90 95	100 105	110 115	120 125	130 135	140 145	150 175	200 225	250 275			
CW	1	A				0	0	0	0	0	0	0	0	0	7	0	2	6	3	7	0	21	11	0	0	0	0	0	0	0	0	9	0	0	0	0

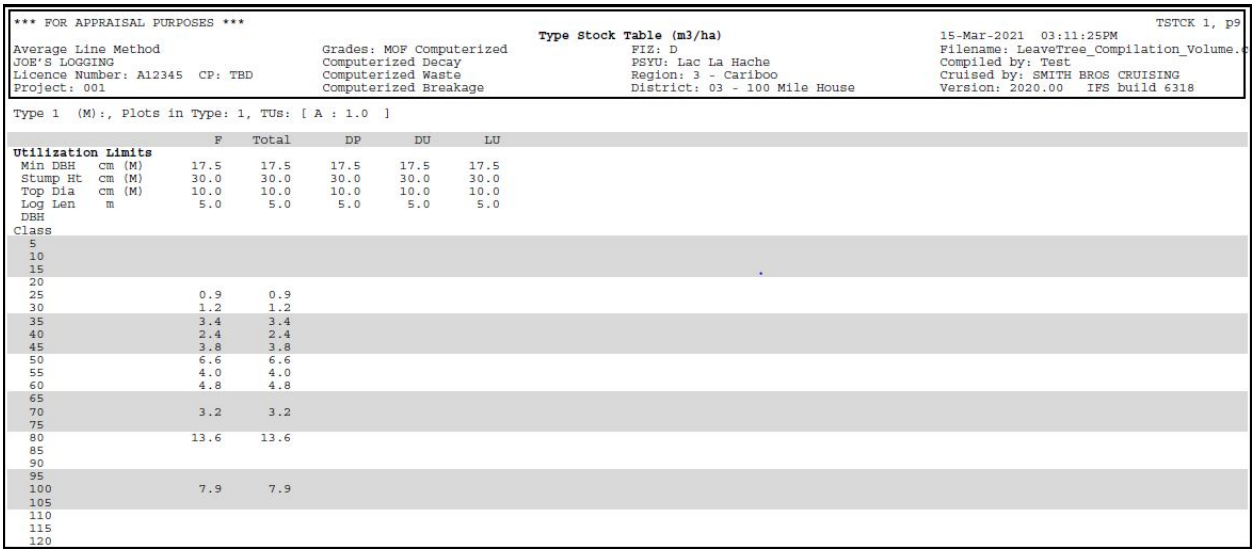
Marked to Leave Percent Reduction - Stock Table Example:

The following leave trees were marked and cruised in a cutblock near 100 Mile House:

Tree #	Height	Species	DBH	Timber Type #	Treatment Unit
1	36.1	Fd	102.0	1	A
2	29.2	Fd	55.5	1	A
3	18.5	Fd	25.4	1	A
4	30.2	Fd	68.9	1	A
5	31.1	Fd	60.2	1	A
6	28.7	Fd	52.3	1	A
7	25.9	Fd	47.0	1	A
8	33.3	Fd	80.2	1	A
9	23.9	Fd	30.2	1	A
10	22.9	Fd	35.1	1	A
11	36.5	Fd	40.2	1	A
12	23.0	Fd	34.2	1	A
13	27.2	Fd	50.0	1	A
14	30.2	Fd	82.0	1	A

Tree #	Height	Species	DBH	Timber Type #	Treatment Unit
15	26.5	Fd	60.2	1	A
16	24.4	Fd	35.6	1	A
17	26.5	Fd	55.0	1	A
18	19.4	Fd	24.2	1	A
19	32.1	Fd	80.0	1	A
20	24.0	Fd	32.0	1	A
21	25.3	Fd	48.3	1	A
22	23.1	Fd	33.2	1	A
23	20.5	Fd	25.1	1	A
24	25.0	Fd	39.0	1	A
25	24.2	Fd	45.5	1	A
26	25.8	Fd	44.2	1	A
27	22.1	Fd	33.7	1	A
28	26.9	Fd	52.1	1	A

The leave trees were compiled below using the same compilation attributes as the associated cutting authority except that it is a 100% compilation. In this example, 1.0ha was used for the initial compilation of the leave trees to ensure that the small individual leave tree volumes were still visible due to the limitation of single decimal places in the stock table. From the compilation the appropriate stock table must be used depending on the timber type, treatment unit, etc. in which the leave trees are located.



*** FOR APPRAISAL PURPOSES *** TSTCK 1, p9

Type Stock Table (m3/ha)

Average Line Method | Grades: MOF Computerized | FIZ: D | 15-Mar-2021 03:11:25PM
JOE'S LOGGING | Computerized Decay | PSYU: Lac La Hache | Filename: LeaveTree_Compilation_Volume.c
Licence Number: A12345 CP: TBD | Computerized Waste | Region: 3 - Cariboo | Compiled by: Test
Project: 001 | Computerized Breakage | District: 03 - 100 Mile House | Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

Type 1 (M):, Plots in Type: 1, TUs: [A : 1.0]

		F	Total	DP	DU	LU
Utilization Limits						
Min DBH	cm (M)	17.5	17.5	17.5	17.5	17.5
Stump Ht	cm (M)	30.0	30.0	30.0	30.0	30.0
Top Dia	cm (M)	10.0	10.0	10.0	10.0	10.0
Log Len	m	5.0	5.0	5.0	5.0	5.0
DBH Class						
5						
10						
15						
20						
25		0.9	0.9			
30		1.2	1.2			
35		3.4	3.4			
40		2.4	2.4			
45		3.8	3.8			
50		6.6	6.6			
55		4.0	4.0			
60		4.8	4.8			
65						
70		3.2	3.2			
75						
80		13.6	13.6			
85						
90						
95						
100		7.9	7.9			
105						
110						
115						
120						

The leave tree volumes are then compared with the associated DBH class stock table volumes from the species, timber type and treatment unit in the full volume compilation below.

*** FOR APPRAISAL PURPOSES *** TSTCK 1, p10

Type Stock Table (m3/ha)

23-Mar-2021 03:29:17PM

Average Line Method
JOE'S LOGGING
Licence Number: A12345 CP: TBA
Project: 1

Grades: MOF Computerized
Computerized Decay
Computerized Waste
Computerized Breakage

FIZ: D
PSYU: Lac La Hache
Region: 3 - Cariboo
District: 03 - 100 Mile House

Filename: markedtoleave_percentreduction
Compiled by: Test
Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

Type 1 (M):, Plots in Type: 7, TUs: [A : 8.3]

		F	PL	Total	DP	DU	LU
Utilization Limits							
Min DBH	cm (M)	17.5	12.5	17.5	17.5	17.5	17.5
Stump Ht	cm (M)	30.0	30.0	30.0	30.0	30.0	30.0
Top Dia	cm (M)	10.0	10.0	10.0	10.0	10.0	10.0
Log Len	m	5.0	5.0	5.0	5.0	5.0	5.0
DBH Class							
5							
10							
15							
20		21.3	7.0	28.4			
25		11.3	16.4	27.7			
30		5.9		5.9			
35		13.7		13.7			
40		13.7	15.2	28.9			
45							
50		27.5	8.1	35.7			
55		36.6		36.6			
60		7.8	16.7	24.5			
65		7.8	8.7	16.5			
70		15.9		15.9			
75		25.6		25.6			
80		16.1	8.5	24.7			
85			8.4	8.4			
90		7.9		7.9			
95							
100		8.5		8.5			
105		8.5		8.5			
110							
115							

To determine the percent reductions from the full volume compilation, the leave tree volumes must be converted from total m^3 to m^3/ha then applied to the corresponding species' DBH class. For this example, the leave tree volumes were initially compiled using 1.0ha which provided a total m^3, but the timber type / treatment unit net area where all the leave trees are located is 8.3ha. The leave tree volumes must be divided by 8.3ha to get the correct m^3/ha for comparing with the full volume stock table m^3/ha to calculate the percent reduction.

Species	DBH Class	Timber Type	Treatment Unit	Total Leave Tree m^3	Leave Tree m^3/ha	Full Volume m^3/ha	Percent Reduction	Comments
Fd	25	1	A	0.9	0.11	11.3	1%	
Fd	30	1	A	1.2	0.14	5.9	2%	
Fd	35	1	A	3.4	0.41	13.7	3%	
Fd	40	1	A	2.4	0.29	13.7	5%	
Fd	45	1	A	3.8	0.46	0	*	No 45cm DBH class in full volume compilation therefore added to 40cm DBH class
Fd	50	1	A	6.6	0.80	27.5	3%	
Fd	55	1	A	4.0	0.48	36.6	1%	
Fd	60	1	A	4.8	0.58	7.8	7%	
Fd	70	1	A	3.2	0.39	15.9	2%	
Fd	80	1	A	13.6	1.64	16.1	10%	
Fd	100	1	A	7.9	0.95	8.5	11%	

The final percent reduction values applied in the reduced compilation are reduced from timber type 1, treatment unit A:

*** FOR APPRAISAL PURPOSES *** P E R C E N T R E D U C T I O N A P P L I E D REDUC 1, p4

Percent Reductions Applied

16-Apr-2021 10:38:14AM

Average Line Method
JOE'S LOGGING
Licence Number: A12345 CP: TBA
Project: 1

Grades: MOF Computerized
Computerized Decay
Computerized Waste
Computerized Breakage

FIZ: D
PSYU: Lac La Hache
Region: 3 - Cariboo
District: 03 - 100 Mile House

Filename: markedtoleave_percentreduction
Compiled by: Test
Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

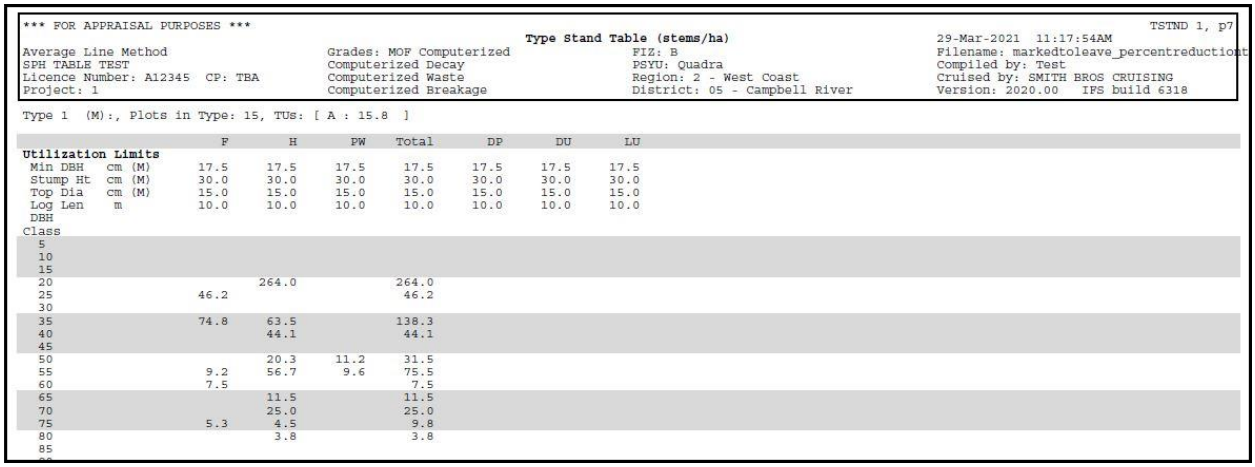
Criteria				DBH Class																										
				10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	175	200	225	250	275
Spcs	Type	TU	Class	Block	Damage																																
FD	1	A				0	0	0	1	2	3	5	0	3	1	7	0	2	0	10	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0

Marked to Leave Percent Reduction – Stand Table Example:

The following leave trees were marked and cruised in a cutblock near Sayward:

Species	DBH Class	# of Leave Trees	Timber Type #	Treatment Unit
Pw	45	5	1	A
Pw	50	3	1	A
Pw	55	7	1	A
Pw	60	5	1	A
Pw	65	4	1	A

The leave tree stems/ha are then compared with the associated DBH class stand table values from the corresponding species, timber type and treatment unit in the full volume compilation below.



*** FOR APPRAISAL PURPOSES *** TSTND 1, p7

Type Stand Table (stems/ha)

Average Line Method | Grades: MOF Computerized | FIZ: B | 29-Mar-2021 11:17:54AM
SPH TABLE TEST | Computerized Decay | PSYU: Quadra | Filename: markedtoleave_percentreduction
Licence Number: A12345 CP: TBA | Computerized Waste | Region: 2 - West Coast | Compiled by: Test
Project: 1 | Computerized Breakage | District: 05 - Campbell River | Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

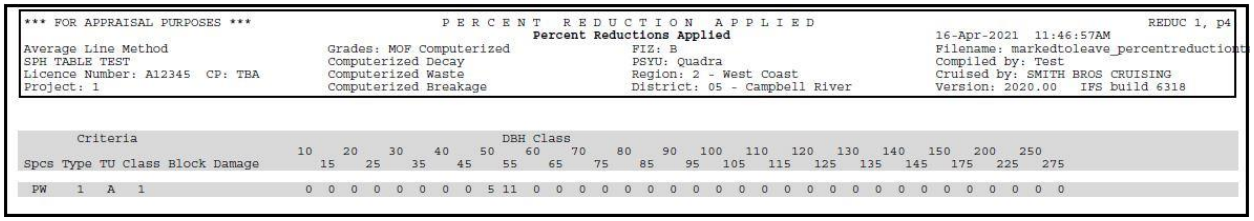
Type 1 (M):, Plots in Type: 15, TUs: [A : 15.8]

		F	H	PW	Total	DP	DU	LU
Utilization Limits								
Min DBH	cm (M)	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Stump Ht	cm (M)	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Top Dia	cm (M)	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Log Len	m	10.0	10.0	10.0	10.0	10.0	10.0	10.0
DBH Class								
5								
10								
15								
20			264.0		264.0			
25		46.2			46.2			
30								
35		74.8	63.5		138.3			
40			44.1		44.1			
45								
50			20.3	11.2	31.5			
55		9.2	56.7	9.6	75.5			
60		7.5			7.5			
65			11.5		11.5			
70			25.0		25.0			
75		5.3	4.5		9.8			
80			3.8		3.8			
85								

For this example, the timber type / treatment unit net area where all the leave trees are located is 15.8ha. The number of leave trees by diameter class must be divided by 15.8ha to get the correct stems/ha for comparing with the full volume stand table stems/ha to calculate the percent reduction for the corresponding species' DBH class.

Species	DBH Class	Timber Type	Treatment Unit	# of Leave Trees	Leave Tree Stems/ha	Full Volume Stems/ha	Percent Reduction	Comments
Pw	45	1	A	5	0.316	0	*	No 45cm DBH class in full volume compilation therefore added to 50cm DBH class
Pw	50	1	A	3	0.190	11.2	5%	
Pw	55	1	A	7	0.443	9.6	11%	
Pw	60	1	A	5	0.316	0	*	No 60cm DBH class in full volume compilation therefore added to 55cm DBH class
Pw	65	1	A	4	0.253	0	*	No 65cm DBH class in full volume compilation therefore added to 55cm DBH class

The final percent reduction values applied in the reduced compilation are:



*** FOR APPRAISAL PURPOSES *** PERCENT REDUCTION APPLIED REDUC 1, p4

Percent Reductions Applied

Average Line Method | Grades: MOF Computerized | FIZ: B | 16-Apr-2021 11:46:57AM
SPH TABLE TEST | Computerized Decay | PSYU: Quadra | Filename: markedtoleave_percentreduction
Licence Number: A12345 CP: TBA | Computerized Waste | Region: 2 - West Coast | Compiled by: Test
Project: 1 | Computerized Breakage | District: 05 - Campbell River | Cruised by: SMITH BROS CRUISING
Version: 2020.00 IFS build 6318

Criteria					DBH Class																										
Spcs	Type	TU	Class	Block	Damage	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	175	200	225	250	275
PW	1	A	1			0	0	0	0	0	0	0	0	5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5.6. Marked to Leave Selective Cutting

Another established method to calculate leave tree reductions uses the Selective Cut Indicator. In this method, the percent reduction worksheet is not used. Instead, individual retention trees are marked prior to cruising, and noted with an "L" in Position 59 of the cruise card when they occur within cruise plots. The compilation removes those trees when the selective cut indicator is specified in the Compilation Standards and calculates the partial cut percent accordingly. This method is different from Marked to Leave Percent Reductions, because the leave trees are statistically sampled rather than essentially 100% cruised and removed. If this method is used with only a small number of leave trees, the sampling error of the leave trees is prohibitively high. Therefore, this method is rarely a practical method and its future use is subject to review.

15.9.11. Percentages within Spruce Grades

Natural Resource District	D	E	F	G
Campbell River	8	11	39	42
Chilliwack	0	0	0	100
South Island	27	16	17	40
Coast Mountain	0	22	3	75
North Island - Central Coast	18	18	19	45
Haida Gwaii	11	21	9	59
Sea to Sky	0	0	100	0
Sunshine Coast	0	0	30	70

Source of the table is the Coast Grade Distribution Report 2019-04-01 to 2021-03-31.

Mature spruce logs (greater than 120 years based on the age in 10s and tree class) will be separated into D, E, F and G grades where appropriate.

Example: In the Campbell River District when a log reaches the D/E/F/G decision box 8% of the log net volume will be deemed to be D grade, 11% will be deemed to be E grade, 39% will be deemed to be F grade and 42% will be deemed to be G grade.

15.9.12. Percentages within Cedar Grades

Natural Resource District	D	F	I
	K	L	M
Campbell River	37 63	16 84	66 34
Chilliwack	24 76	6 94	55 45
South Island	46 54	13 87	64 36
Coast Mountain	39 61	23 77	76 24
North Island - Central Coast	48 52	23 77	71 29
Haida Gwaii	24 76	15 85	63 37
Sea to Sky	9 91	2 98	62 38
Sunshine Coast	35 65	10 90	80 20

Source of the table is the Coast Grade Distribution Report 2019-04-01 to 2021-03-31.

Immature red cedar logs (up to 120 years old based on the age in 10s and tree Classes) flow only into the I-grade where appropriate. Mature red cedar (greater than 120 years based on the age in 10s and tree class) will be separated into I and M grades where appropriate.

Example: In the Campbell River District when a log reaches the D/K decision box, 37% of the log net volume will be deemed to be D grade and 63% will be deemed to be K grade.