

**BWBSdk1 — Prince Rupert****Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Sw – Knight's plume – Step moss	PI Sw <sup>32</sup>	BI	Sb	At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
02* PI – Lingonberry – Feathermoss	PI		BI <sup>50</sup> Sb Sw	At <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.2 0.6	150
03 Sw – Wildrye – Toad-flax	PI	Sw <sup>28</sup>		At <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
04 Sb – Lingonberry – Knight's plume	PI		Sb Sw <sup>32</sup>	At <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
05 Sw – Soopolallie – Twinflower	PI Sw	BI	Sb	At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
06 Sw – Scouring-rush – Step moss	PI Sw <sup>32</sup>	BI	Sb	Acb <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150

\* avoid logging

28 limited by moisture deficit

32 limited by growing-season frosts

50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**BWBSdk1 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07 Sb – Lingonberry – Coltsfoot	Pl <sup>1</sup> Sb <sup>1</sup> Sw <sup>1,32</sup>			Bl <sup>50</sup> At <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
08 Sw – Currant – Horsetail	Sw <sup>1,32</sup>	Pl <sup>1</sup>		Bl <sup>50</sup> Sb Acb <sup>a</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	PI Others	1.2 0.6	150
09* Sb – Horsetail – Sphagnum	Pl <sup>1</sup> Sb <sup>1</sup> Sw <sup>1,32</sup>				400	200	200	4	9	15	PI Others	1.2 0.6	150
10* Sb – Labrador tea – Sphagnum	Pl <sup>1</sup> Sb <sup>1</sup> Sw <sup>1,32</sup>				400	200	200	4	9	15	PI Others	1.2 0.6	150
11* Sw – Willow – Glow moss	Pl <sup>1</sup> Sb <sup>1</sup> Sw <sup>1</sup>			Acb <sup>b</sup> At <sup>b</sup>	400	200	200	4	9	15	PI Others	1.2 0.6	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
81 Grassland/scrub	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**BWBSdk2 — Prince Rupert****Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Sw – Knight's plume – Step moss	PI Sw <sup>32</sup>		Sb	At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
02* PI – Lingonberry – Cladonia	PI		Sb Sw	At <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.2 0.6	150
03 Sb – Lingonberry – Knight's plume	PI		Sb Sw <sup>32</sup>	At <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
04 Sb – Labrador tea – Feathermoss	PI Sb Sw	Lt		At <sup>b</sup>	1000	500	400	4	9	15	PI Others	1.2 0.6	150
05 Sw – Wildrye – Toad-flax	PI Sw <sup>32</sup>			At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
06 Sw – Currant – Horsetail	Sw <sup>1,32</sup>	Lt <sup>1</sup> Pi <sup>1</sup>	Sb	Ac <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	PI Others	1.6 0.8	150

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**BWBSdk2 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07* Sb - Labrador tea – Sphagnum	Lt <sup>1</sup> Pi <sup>1</sup> Sb <sup>1</sup> Sw <sup>1,32</sup>				400	200	200	4	9	15	PI Others	1.2 0.6	150
08* Lt – Glow moss	Lt <sup>1</sup> Sb <sup>1</sup> Sw <sup>1,32</sup>				400	200	200	4	9	15	All	0.6	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
81 Grassland/shrub	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## CWHvh2 — Prince Rupert

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 CwHw – Salal	Cw <sup>48</sup> Hw	PI Yc <sup>48</sup>	Ba <sup>7</sup> Ss <sup>7</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	Hw, PI Ss Cw, Yc Ba	2.0 2.0 1.5 1.4	150
02* PIYc – Rhacomitrium	PI	Cw <sup>48</sup> Yc <sup>48</sup>	Hw		400	200	200	3	8	11	PI Others	1.4 1.0	150
03 CwYc – Salal	Cw <sup>48</sup> Hw PI Yc <sup>48</sup>		Ss <sup>7</sup>	Dr <sup>b</sup>	800	400	400	6	11	14	Hw PI Others	1.8 1.4 1.0	150
04 HwSs – Lanky moss	Ba Hw Ss	Cw <sup>48</sup>	Yc <sup>48</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Ss Cw, Yc Ba	2.0 1.5 1.4	150
05 CwSs – Sword fern	Ba Cw <sup>48</sup> Ss	Hw <sup>2</sup>	Yc <sup>48</sup>	Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw, Yc Ba	2.0 1.5 1.4	150

\* avoid logging

2 suitable on thick forest floors

7 restricted to nutrient-medium sites

<sup>48</sup> risk of heavy browsing by deer

b limited in productivity, reliability, and/or feasibility

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<sup>^</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**CWHvh2 — Prince Rupert (continued)**

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
06 CwSs – Foamflower	Ba Cw <sup>48</sup> Ss	Hw <sup>2</sup>	Yc <sup>48</sup>	Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw, Yc Ba	2.0 1.5 1.4	150
07 CwSs – Devil's club	Ba Cw <sup>48</sup> Ss	Hw <sup>2</sup>	Yc <sup>48</sup>	Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw, Yc Ba	2.0 1.5 1.4	150
08 Ss – Lily-of-the-valley	Cw <sup>48</sup> Ss	BaHw		Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
09 Ss – Trisetum	Ss <sup>1</sup>	Ba <sup>1</sup> Cw <sup>1,48</sup>	Hw <sup>1</sup>	Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
10* Dr – Lily-of-the-valley	no conifers			Dr <sup>b</sup>	–	–	–	–	–	–	–	–	–
11 CwYc – Goldthread	Cw <sup>1,48</sup> Hw <sup>1</sup> Yc <sup>1,48</sup>	Pl <sup>1</sup>			800	400	400	3	8	11	Hw Pl Others	1.8 1.4 1.0	150

\* avoid logging

1 elevated microsites are preferred

2 suitable on thick forest floors

48 risk of heavy browsing by deer

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**CWHvh2 — Prince Rupert (continued)****Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
12* PIYc – Sphagnum	Cw <sup>1,48</sup> PI <sup>1</sup> Yc <sup>1,48</sup>				400	200	200	3	8	11	PI 1.4 Others 1.0	150
13 CwSs – Skunk cabbage	Cw <sup>1,48</sup> Yc <sup>1,48</sup>		Ba Hm Hw <sup>1</sup> PI Ss <sup>1</sup>	Dr <sup>b</sup>	800	400	400	3	8	11	Ss 2.0 Hw 1.8 Others 1.0	150
14* Ss – Salal	Ss		Cw <sup>48</sup> Hw PI		400	200	200	3	8	11	Ss 2.0 Hw 1.8 PI 1.4 Others 1.0	150
15 Ss – Kindbergia	Ss		Cw <sup>48</sup> Hw		900	500	400	3	8	11	Hw, Ss 2.0 Cw 1.5	150
16* Ss – Reedgrass	Ss		Cw <sup>48</sup> Hw PI		400	200	200	3	8	11	Ss 2.0 Hw 1.8 PI 1.4 Others 1.0	150

\* avoid logging

<sup>48</sup> risk of heavy browsing by deer

1 elevated microsites are preferred

<sup>b</sup> limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**CWHvh2 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
17 Ss – Sword fern	Ss	Cw <sup>48</sup> Hw	Yc <sup>48</sup>	Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw, Yc	2.0 1.5	150
18* Ss – Slough sedge	Cw <sup>1,48</sup> Ss <sup>1</sup>			Dr <sup>b</sup>	400	200	200	3	8	11	Ss Cw	2.0 1.0	150
19* Ss – Pacific crab apple	Cw <sup>1,48</sup> Ss <sup>1</sup>			Act <sup>b</sup> Dr <sup>b</sup>	400	200	200	3	8	11	Ss Cw	2.0 1.0	150
31 Non-forested topogenous bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested slope/blanket bog	non-forested				–	–	–	–	–	–	–	–	–
33 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

<sup>48</sup> risk of heavy browsing by deer

<sup>b</sup> limited in productivity, reliability, and/or feasibility

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## CWHvm1 — Prince Rupert

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HwBa – Blueberry	Ba <sup>26</sup> Cw	Hw <sup>30</sup> Ss <sup>7,26,30</sup>		Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Ss Cw Ba	2.0 1.5 1.4	150
02* HwPl – Cladina	Pl	Cw Fd <sup>22</sup> Hw			400	200	200	3	8	11	Hw, Pl Others	1.4 1.0	150
03 HwCw – Salal	Cw Hw	Fd <sup>22</sup> Pl		Dr <sup>b</sup>	800	400	400	6	11	14	Hw, Pl Others	1.4 1.0	150
04 CwHw – Sword fen	Ba Cw	Hw <sup>30</sup> Ss <sup>30,35</sup>		Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
05 BaCw – Foamflower	Ba Cw	Hw <sup>30</sup> Ss <sup>30,35</sup>		Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150

\* avoid logging

7 restricted to nutrient-medium sites

22 restricted to southern Gardner Canal–Kitlope area

26 suitable minor species on salal-dominated sites

30 risk of porcupine damage

35 risk of weevil damage

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**CWHvm1 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
06 HwBa – Deer fern	Ba <sup>26</sup> Cw	Hw <sup>30</sup> Ss <sup>7,26,30</sup>	Yc	Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Ss Cw, Yc Ba	2.0 1.5 1.4	150
07‡ BaCw – Salmonberry	Ba Cw	Hw <sup>2,30</sup> Ss <sup>30,35</sup>		Act <sup>9</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
08 BaSs – Devil's club	Ba Cw	Hw <sup>2,30</sup> Ss <sup>30,35</sup>		Act <sup>9</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
09 Ss – Salmonberry	Ba Cw	Hw <sup>30</sup> Ss <sup>30,35</sup>		Act <sup>9</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Cw Ba	2.0 1.5 1.4	150
10 Act – Red-osier dogwood		Ba <sup>1</sup> Cw <sup>1</sup> Ss <sup>1,30,35</sup>		Act <sup>9</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Ss Cw Ba	2.0 1.5 1.4	150

‡ occurs mainly in the Vancouver Region  
 1 elevated microsites are preferred  
 2 suitable on thick forest floors  
 7 restricted to nutrient-medium sites

26 suitable minor species on salal-dominated sites  
 30 risk of porcupine damage  
 35 risk of weevil damage

a productive, reliable, and feasible regeneration option  
 b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**CWHvm1 — Prince Rupert** (continued)**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
11 Act – Willow	no conifers			Act <sup>b</sup> Dr <sup>b</sup>	–	–	–	–	–	–	–	–	
12 CwYc – Goldthread	Cw <sup>1</sup> Hw <sup>1,30</sup> Yc <sup>1</sup>	Pl <sup>1</sup>	Hm <sup>1,30</sup>		800	400	400	3	8	11	Hw, Pl Hm Others	1.4 0.8 1.0	150
13* Pl – Sphagnum	Cw <sup>1</sup> Pl <sup>1</sup> Yc <sup>1</sup>		Hw <sup>1,30</sup>		400	200	200	3	8	11	Pl, Others	1.4 1.0	150
14 CwSs – Skunk cabbage	Cw <sup>1</sup>		Ba <sup>1</sup> Hw <sup>1,30</sup> Pl <sup>1</sup> Ss <sup>1,30</sup> Yc <sup>1</sup>	Act <sup>b</sup> Dr <sup>b</sup>	800	400	400	3	8	11	Hw, Ss Others	1.4 1.0	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

30 risk of porcupine damage

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

## CWHvm2 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HwBa – Blueberry	Ba	Cw <sup>14</sup> Hw <sup>30</sup> Ss <sup>7,30</sup> Yc	Hm <sup>13,30</sup>		900	500	400	6	11	14	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150
02* HwPI – Cladina	PI	Cw Hw <sup>30</sup> Yc	Hm <sup>13,30</sup>		400	200	200	3	8	11	Hw PI Others	1.8 1.4 1.0	150
03 HwCw – Salal	Cw <sup>14</sup> Hw <sup>30</sup>	PI Yc <sup>13</sup>	Hm <sup>13,30</sup>		800	400	400	6	11	14	Hw PI Others	1.8 1.4 1.0	150
04‡ CwHw – Sword fern	Ba Cw <sup>14</sup>	Hw <sup>30</sup> Ss <sup>30</sup> Yc	Hm <sup>13,30</sup>		900	500	400	3	8	11	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150

\* avoid logging

‡ occurs mainly in the Vancouver Region

7 restricted to nutrient-medium sites

13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit

30 risk of porcupine damage

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## CWHvm2 — Prince Rupert (continued)

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>†</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
05 BaCw – Foamflower	Ba Cw <sup>14</sup>	Hw <sup>30</sup> Ss <sup>30</sup> Yc <sup>13</sup>	Hm <sup>13,30</sup>		900	500	400	3	8	11	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150
06 HwBa – Deer fern	Ba Cw <sup>14</sup>	Hw <sup>30</sup> Ss <sup>7,30</sup> Yc	Hm <sup>13,30</sup>		900	500	400	6	11	14	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150
07‡ BaCw – Salmonberry	Ba Cw <sup>14</sup>	Hw <sup>2,30</sup> Ss <sup>30,35</sup> Yc	Hm <sup>13,30</sup>		900	500	400	3	8	11	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150
08 BaSs – Devil's club	Ba Cw <sup>14</sup>	Hw <sup>2,30</sup> Ss <sup>30,35</sup> Yc	Hm <sup>13,30</sup>		900	500	400	3	8	11	Hw, Ss Cw, Yc Ba Hm	2.0 1.5 1.4 1.0	150

‡ occurs mainly in Vancouver Region

\* avoid logging

2 suitable on thick forest floors

7 restricted to nutrient-medium sites

13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit

30 risk of porcupine damage

35 risk of weevil damage

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<sup>†</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**CWHvm2 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
09 CwYc – Goldthread	Cw <sup>1</sup> Hw <sup>1,30</sup> Yc <sup>1</sup>	Hm <sup>1,30</sup>	Pl <sup>1</sup>		800	400	400	3	8	11	Hw Pl Hm Others	1.8 1.4 0.8 1.0	150
10* Pl – Sphagnum	Pl <sup>1</sup> Yc <sup>1</sup>	Hm <sup>30</sup>			400	200	200	3	8	11	Pl Yc Hm	1.4 1.0 0.8	150
11 CwYc – Skunk cabbage	Cw <sup>1</sup> Yc <sup>1</sup>			Ba Hm <sup>1,30</sup> Hw <sup>1,30</sup> Ss <sup>1,30</sup>	800	400	400	3	8	11	Hw Ss Others	1.8 1.4 1.0	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

<sup>1</sup> elevated microsites are preferred  
<sup>30</sup> risk of porcupine damage

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## CWHwm — Prince Rupert

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
		Secondary	Tertiary			TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
01 HwSs – Blueberry	Hw <sup>30</sup> Ss <sup>30</sup>	Ba <sup>16</sup> Cw <sup>16</sup> Hm <sup>12,13,30</sup>	Yc <sup>12,13</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Ss Hm Others	2.0 1.0 1.4	150
02 HwSs – Step moss	Hw <sup>30</sup> Pl	Cw <sup>16</sup> Hm <sup>12,13,30</sup>	Ss <sup>30</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Pl Ss Hm Others	2.0 2.0 1.0 1.4	150
03 SsHw – Oak fern	Ss <sup>30</sup>	Ba <sup>16</sup> Cw <sup>16</sup> Hw <sup>30</sup>	Yc <sup>12,13</sup>	Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	3	8	11	Hw, Ss Others	2.0 1.4	150
04 SsHw – Devil's club	Ss <sup>30</sup>	Ba <sup>16</sup> Cw <sup>16</sup> Hw <sup>30</sup>	Yc <sup>12,13</sup>	Act <sup>b</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Others	2.0 1.4	150
05 Ss – Salmonberry	Ss <sup>30</sup>	Ba <sup>16</sup> Cw <sup>16</sup> Hw <sup>30</sup>		Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Ss Others	2.0 1.4	150

12 suitable on cold air drainage sites

13 restricted to upper elevations of biogeoclimatic unit

16 restricted to southern portion of biogeoclimatic unit in region

30 risk of porcupine damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**CWHwm — Prince Rupert (continued)**

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
06 Act – Red-osier dogwood		Ba <sup>1,16</sup> Cw <sup>1,16</sup> Ss <sup>1,30</sup>		Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Ss Others	2.0 1.4	150
07* Act – Willow	no conifers				–	–	–	–	–	–	–	–	–
08 Hw – Sphagnum	Cw <sup>1,16</sup> Pl <sup>1</sup> Yc <sup>1</sup>	Hm <sup>12,13,30</sup> Hw <sup>1,30</sup>		Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Pl Hm Others	2.0 1.0 1.4	150
09 Ss – Skunk cabbage	Cw <sup>1,16</sup> Ss <sup>1,30</sup>	Hw <sup>1,30</sup> Yc <sup>1</sup>	Hm <sup>30</sup>	Act <sup>b</sup> Dr <sup>b</sup>	800	400	400	3	8	11	Hw, Ss Others	1.4 1.0	150
10* Pl – Sphagnum	Cw <sup>1,16</sup> Pl <sup>1</sup> Yc <sup>1</sup>		Hw <sup>30</sup>		400	200	200	3	8	11	Pl Others	1.4 1.0	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

12 suitable on cold air drainage sites

13 restricted to upper elevations of biogeoclimatic unit

16 restricted to southern portion of biogeoclimatic unit in region

30 risk of porcupine damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## CWHws1 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
		Secondary	Tertiary			TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HwBa – Bramble	Ba	Cw Hw <sup>30</sup> PI Sxs <sup>30,35</sup>			Dr <sup>b</sup>	900	500	400	6	11	14	Hw, PI Sxs Others	2.0 2.0 1.4	150
02* PI – Kinnikinnick	PI	Hw <sup>30</sup>	Cw			600	400	400	6	11	14	Hw, PI Others	1.4 1.0	150
03 HwPI – Feathermoss	Hw PI	Cw	Ba			900	500	400	6	11	14	Hw, PI Others	2.0 1.4	150
04 BaCw – Oak fern	Ba Cw	Hw <sup>2,30</sup> Sxs <sup>30,35</sup>	PI		Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	3	8	11	Hw, PI Sxs Others	2.0 2.0 1.4	150
05 HwBa – Queen's cup	Ba Cw	Hw <sup>30</sup> Sxs <sup>7,30,35</sup>			Dr <sup>b</sup>	900	500	400	6	11	14	Hw, Sxs Others	2.0 1.4	150
06 BaCw – Devil's club	Ba Cw	Hw <sup>2,30</sup> Sxs <sup>30,35</sup>			Act <sup>b</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Sxs Others	2.0 1.4	150

\* avoid logging

2 suitable on thick forest floors

7 restricted to nutrient-medium sites

30 risk of porcupine damage

35 risk of weevil damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability and/or feasibility

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<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**CWHws1 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
07 Ss – Salmonberry	Ba Cw	Sxs <sup>30,35</sup>	Hw <sup>30</sup>	Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw, Sxs 2.0 Others 1.4	150
08 Act – Red-osier dogwood		Ba <sup>1</sup> Cw <sup>1</sup> Sxs <sup>1,30,35</sup>	Hw <sup>1,30</sup>	Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Sxs 2.0 Others 1.4	150
09* Act – Willow	no conifers			Act <sup>b</sup> Dr <sup>b</sup>	–	–	–	–	–	–	–	–
10* Pl – Sphagnum	Pl <sup>1</sup>		Cw <sup>1</sup> Hw <sup>30</sup>		400	200	200	3	8	11	Hw, Pl 1.4 Cw 1.0	150
11 CwSs – Skunk cabbage	Cw <sup>1</sup>	Sxs <sup>1,30</sup>	Ba <sup>1</sup> Hw <sup>1,30</sup>	Act <sup>b</sup> Dr <sup>b</sup>	800	400	400	3	8	11	Hw, Sxs 1.4 Others 1.0	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

30 risk of porcupine damage

35 risk of weevil damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## CWHws2 — Prince Rupert

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
		Secondary	Tertiary			TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
01 HwBa – Bramble	Ba	Bl <sup>12</sup> Cw Hw <sup>30</sup> Pl Sxs <sup>30</sup>	Hm <sup>13,30</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	PI Hw Others	2.0 1.3 1.0	150
02* Pl – Kinnikinnick	Pl		Cw Hm <sup>13,30</sup> Hw <sup>30</sup>		600	400	400	6	11	14	PI Others	1.4 0.8	150
03 HwPl – Feathermoss	Hw Pl	Cw	Ba Hm <sup>13,30</sup>	Dr <sup>b</sup>	900	500	400	6	11	14	PI Hw Others	2.0 1.3 1.0	150
04 BaCw – Oak fern	Ba	Bl <sup>12</sup> Cw <sup>14</sup> Hw <sup>2,30</sup> Sxs <sup>30</sup>	Hm <sup>13,30</sup>	Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	3	8	11	Hw Others	1.3 1.0	150
05 HwBa – Queen's cup	Ba	Bl <sup>12</sup> Cw <sup>14</sup> Hw <sup>30</sup> Sxs <sup>7,30</sup>		Dr <sup>b</sup>	900	500	400	6	11	14	Hw Others	1.3 1.0	150
06 BaCw – Devil's club	Ba	Bl <sup>12</sup> Cw <sup>14</sup> Hw <sup>2,30</sup> Sxs <sup>30</sup>		Act <sup>b</sup> Dr <sup>b</sup>	900	500	400	3	8	11	Hw Others	1.3 1.0	150

\* avoid logging

2 suitable on thick forest floors

7 restricted to nutrient-medium sites

12 suitable on cold air drainage sites

13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit

30 risk of porcupine damage

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**CWHws2 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07 Ss – Salmonberry	Ba	Bl <sup>1,2</sup> Cw Sxs <sup>3,0</sup>	Hw <sup>3,0</sup>	Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	Hw Others	1.3 1.0	150
08 Act – Red-osier dogwood		Ba <sup>1</sup> Bl <sup>1,2</sup> Cw <sup>1</sup> Sxs <sup>1,3,0</sup>	Hw <sup>1,3,0</sup>	Act <sup>a</sup> Dr <sup>a</sup>	900	500	400	3	8	11	All	1.0	150
09 Act – Willow	no conifers			Act <sup>b</sup> Dr <sup>b</sup>	–	–	–	–	–	–	–	–	–
10* Pl – Sphagnum	Pl <sup>1</sup>		Cw <sup>1</sup> Hm <sup>3,0</sup> Hw <sup>3,0</sup>		400	200	200	3	8	11	Pl Others	1.4 0.8	150
11 CwSs – Skunk cabbage	Cw <sup>1</sup>	Sxs <sup>1,3,0</sup>	Ba <sup>1</sup> Hw <sup>1,3,0</sup>	Act <sup>b</sup> Dr <sup>b</sup>	800	400	400	3	8	11	All	0.8	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

12 suitable on cold air drainage sites

30 risk of porcupine damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ESSFmc — Prince Rupert

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 BI – Huckleberry – Leafy liverwort	BI Se	PJ <sup>34</sup>			1200	700	600	7	15	20	PI Others	1.6 0.8	125
02* BIPJ – Juniper – Cladonia	PI	BI Se			1000	500	400	7	15	20	PI Others	1.2 0.6	125
03* BI – Huckleberry – Crowberry	PI	BI Se			1000	500	400	7	15	20	PI Others	1.2 0.6	125
04 BI – Huckleberry – Heron's-bill	PI	BI Se			1200	700	600	7	15	20	PI Others	1.6 0.8	125
05 BI – Huckleberry – Thimbleberry	BI Se	PJ <sup>34</sup>			1200	700	600	4	12	20	PI Others	1.6 0.8	125
06 BI – Oak fern – Heron's bill	BI Se	PJ <sup>34</sup>			1200	700	600	4	12	20	PI Others	1.6 0.8	125
07 BI – Devil's club – Lady fern	BI <sup>32</sup> Se <sup>32</sup>			PJ <sup>34</sup>	1200	700	600	4	12	20	PI Others	1.6 0.8	125

\* avoid logging

<sup>32</sup> limited by growing-season frosts

<sup>34</sup> risk of snow damage

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<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**ESSFmc — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
08* BI – Valerian – Sickie moss	Bl <sup>32</sup> Se <sup>32</sup>				1000	500	400	4	12	20	All	0.6	125
09 BI – Horsetail – Glow moss	Bl <sup>1,32</sup> Se <sup>1,32</sup>				1000	500	400	4	12	20	All	0.6	125
10 BI – Horsetail – Leafy moss	Bl <sup>1,32</sup> Se <sup>1,32</sup>				1000	500	400	4	12	20	All	0.6	125
31 Non-forested wetland	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ESSFmk — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 BIHm – Twistedstalk	Bl Se	Hm Pl <sup>34</sup>	Ba <sup>17</sup>		1200	700	600	7	15	20	PI Others	1.6 0.8	125
02* BIPa – Cladonia	Pa Pl	Bl Hm Se			1000	500	400	7	15	20	PI Others	1.2 0.6	125
03* BIHm – Cladonia	Pa Pl	Bl Hm Se	Ba		1200	700	600	7	15	20	PI Others	1.6 0.8	125
04 BIHm – Oak fern	Bl Se	Hm Pl <sup>34</sup>	Ba <sup>17</sup>		1200	700	600	4	12	20	PI Others	1.6 0.8	125
05 BIHm – Devil's club – Lady fern	Bl <sup>32</sup> Se <sup>32</sup>	Hm	Ba <sup>17</sup> Pl <sup>34</sup>		1200	700	600	4	12	20	PI Others	1.6 0.8	125
06 Bl – Horsetail – Leafy moss	Bl <sup>1,32</sup> Se <sup>1,32</sup>		Ba Hm		1000	500	400	4	12	20	All	0.8	125

\* avoid logging

1 elevated microsites are preferred

17 restricted to western portion of biogeoclimatic unit in region

32 limited by growing-season frosts

34 risk of snow damage

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**ESSFmk — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
07 BI – Lady fern – Horsetail	Bj <sup>1,32</sup>	Se <sup>1,32</sup>		Ba	1000	500	400	4	12	20	All	0.8 125
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–

<sup>1</sup> elevated microsites are preferred  
<sup>32</sup> limited by growing-season frosts

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines  
<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## ESSFmv3 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 BI – Rhododendron – Feathermoss	BI Se	PJ <sup>34</sup>			1200	700	600	4	12	20	PI Others	1.6 0.8	125
02* BIPJ – Crowberry – Cladina	PJ <sup>34</sup>	BI <sup>28</sup> Se <sup>28</sup>			1000	500	400	4	12	20	PI Others	1.2 0.6	125
03 BISb – Labrador tea	BI Se	PJ <sup>34</sup>	Sb		1000	500	400	4	12	20	PI Others	1.2 0.6	125
04 BI – Oak fern – Knight's plume	BI Se		PJ <sup>34</sup>		1200	700	600	4	12	20	PI Others	1.6 0.8	125
05 BI – Devil's club – Rhododendron	BI Se		PJ <sup>34</sup>		1200	700	600	4	12	20	PI Others	1.6 0.8	125
06 Sxw – Huckleberry – Highbush-cranberry	BI Sx	PJ <sup>34</sup>			1200	700	600	7	12	15	PI Others	1.6 0.8	125
07 BI – Horsetail – Feathermoss	BI <sup>1,32</sup> Se <sup>1,32</sup>	PJ <sup>1,34</sup>			1000	500	400	4	12	20	PI Others	1.2 0.6	125

\* avoid logging

1 elevated microsites are preferred

28 limited by moisture deficit

32 limited by growing-season frosts

34 risk of snow damage

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ESSFwv — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 BIHm – Azalea	Bl Se	Pj <sup>34</sup>	Hm Hw		1200	700	600	7	15	20	PI Others	1.6 0.8	125
02* BIPI – Cladonia	PI	Bl Hm Se			1000	500	400	7	15	20	PI Others	1.2 0.6	125
03* BIHm – Feathermoss	PI	Bl Hm Se	Hw		1200	700	600	7	15	20	PI Others	1.6 0.8	125
04 BIHm – Heron's-bill	PI	Bl Hm Se			1200	700	600	7	15	20	PI Others	1.6 0.8	125
05 BI – Oak fern – Heron's-bill	Bl Se	Pj <sup>34</sup>	Hm Hw		1200	700	600	4	12	20	PI Others	1.6 0.8	125
06 BI – Devil's club – Lady fern	Bl <sup>32</sup> Se <sup>32</sup>		Hm Hw Pj <sup>34</sup>		1200	700	600	4	12	20	PI Others	1.6 0.8	125

\* avoid logging

<sup>34</sup> risk of snow damage

<sup>32</sup> limited by growing-season frosts

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<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ESSFwv — Prince Rupert (continued)

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07* BI – Valerian – Sickle moss	Bl <sup>32</sup> Se <sup>32</sup>		Hm Hw		1000	500	400	4	12	20	All	0.6	125
08 BI – Horsetail – Glow moss	Bl <sup>1,32</sup> Se <sup>1,32</sup>				1000	500	400	4	12	20	All	0.6	125
09 BI – Lady fern – Horsetail	Bl <sup>1,32</sup> Se <sup>1,32</sup>				1000	500	400	4	12	20	All	0.6	125
31 Non-forested wetland	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ICHmc1 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Hw – Step moss	Hw <sup>32</sup> PI Sx	BI <sup>29</sup>		At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	PI Others 1.0	2.0 1.0	150
02* Hw – Kinnikinnick – Cladonia	PI		BI Hw <sup>32</sup>	At <sup>b</sup>	1000	500	400	7	12	15	PI Others 0.8	1.4 0.8	150
03 HwBI – Oak fern	Hw <sup>32</sup> Sx <sup>35</sup>	BI <sup>29</sup> PI		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others 1.0	2.0 1.0	150
04 HwBI – Devil's club	Sx <sup>35</sup>	BI <sup>29</sup> Hw <sup>32</sup> PI		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others 1.0	2.0 1.0	150
05 ActSx – Dogwood	Sx <sup>1,35</sup>	BI <sup>1,29</sup> PI <sup>1</sup>		Act <sup>a</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others 1.0	2.0 1.0	150
06 Hw – Azalea – Skunk cabbage	Sx <sup>1</sup>	BI <sup>1,29</sup>	Hw <sup>1,32</sup>	Act <sup>b</sup>	1000	500	400	4	9	15	All	0.8	150
31 Non-forested fen/marsh non-forested					–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

29 risk of heavy browsing by moose

32 limited by growing-season frosts

35 risk of weevil damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## ICHmc1a — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HwBa – Bramble	Hw <sup>32</sup> PI Sx	Ba <sup>7</sup>	BI Cw <sup>23,32</sup>	At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
02 HwBa – Oak fern	Ba Sx <sup>35</sup>	Hw <sup>32</sup> PI	Cw <sup>23,32</sup>	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
03 HwBa – Devil's club – Lady fern	Ba Sx <sup>35</sup>	Hw <sup>32</sup> PI	BI Cw <sup>23,32</sup>		1200	700	600	4	9	15	PI Others	2.0 1.0	150

7 restricted to nutrient-medium sites

23 restricted to trial use

32 limited by growing-season frosts

35 risk of weevil damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## ICHmc2 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Hw – Step moss	Hw <sup>32</sup> PI Sx	BI <sup>29</sup> Cw <sup>32</sup>		At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
02* Hw – Kinnikinnick – Cladonia	PI		BI Hw	At <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.4 0.8	150
03 HwCw – Oak fern	Cw <sup>32</sup> Hw <sup>32</sup> Sx <sup>35</sup>	BI <sup>29</sup> PI	Ba <sup>13,17</sup>	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
04 CwHw – Devil's club – Oak fern	Cw <sup>32</sup> Sx <sup>35</sup>	BI <sup>29</sup> Hw <sup>32</sup> PI	Ba <sup>13,17</sup>	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
05 Sx – Devil's club – Lady fern	Cw <sup>1,32</sup> Sx <sup>1,35</sup>	BI <sup>1,29</sup> Hw <sup>1,32</sup> Pj <sup>1</sup>	Ba <sup>13,17</sup>	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
06 ActSx – Dogwood	Cw <sup>1,32</sup> Sx <sup>1,35</sup>	BI <sup>1,29</sup> Pj <sup>1</sup>	Hw <sup>1,32</sup>	Act <sup>a</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150

\* avoid logging

1 elevated microsites are preferred

13 restricted to upper elevations of biogeoclimatic unit

17 restricted to western portion of biogeoclimatic unit in region

29 risk of heavy browsing by moose

32 limited by growing-season frosts

35 risk of weevil damage

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>†</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## ICHmc2 — Prince Rupert (continued)

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07 CwSx – Horsetail	Sx <sup>1</sup>	Bl <sup>1,29</sup> Cw <sup>1,32</sup>	Hw <sup>1,32</sup> , Pl <sup>1</sup>	Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	PI Others	1.4 1.0	150
08* SbSx – Scrub birch – Sedge	Pl <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>				400	200	200	4	9	15	PI Others	1.4 0.8	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 PIHw – Feathermoss	Pl	Bl <sup>28,29</sup> Sx <sup>28</sup>	Hw	At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
52 SxEp – Thimbleberry – Hazelnut	Pl Sx	Bl <sup>29</sup> Cw <sup>32</sup> Hw <sup>32</sup>		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
53 AtEp – Dogwood	Pl Sx	Bl <sup>29</sup> Cw <sup>32</sup> Hw <sup>32</sup>		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
54 SxEp – Devil's club	Cw <sup>32</sup> Sx	Bl <sup>29</sup> Hw <sup>32</sup> Pl	Ba <sup>13,17</sup>	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150

\* avoid logging

1 elevated microsites are preferred

13 restricted to upper elevations of biogeoclimatic unit

17 restricted to western portion of biogeoclimatic unit in region

28 limited by moisture deficit

29 risk of heavy browsing by moose

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

## ICHvc — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
01 Hw – Devil's club	BI	Hw <sup>32</sup> Sx <sup>34,35</sup>	Hm	Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	All	1.0 150
02 Hw – Step moss	BI Hw <sup>32</sup>	PI <sup>3,9</sup> Sx <sup>34</sup>	Hm	At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0 150
03 Sx – Devil's club	BI	Sx <sup>34,35</sup>	Hw	Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	All	1.0 150
04 Sx – Devil's club – Dogwood	BI <sup>1</sup>	Sx <sup>1,34,35</sup>		Act <sup>a</sup> At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	All	1.0 150
05 ActSx – Dogwood	BI <sup>1</sup>	Sx <sup>1,32,34,35</sup>		Act <sup>a</sup> At <sup>a</sup>	1200	700	600	4	9	15	All	1.0 150
06 Sx – Horsetail	BI <sup>1</sup>	Sx <sup>1,32,34</sup>		Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	All	0.8 150
31 Non-forested fen/marsh non-forested					–	–	–	–	–	–	–	–
51* Sitka alder – Devil's club		BI Sx <sup>34</sup>			1000	500	400	3	8	11	All	0.8 150
52* Mountain alder – Lady fern			BI Sx <sup>34</sup>		400	200	200	3	8	11		150

\* avoid logging, generally non-forested units  
 1 elevated microsites are preferred  
 3 restricted to coarse-textured soils  
 9 restricted to southerly aspects

32 limited by growing-season frosts  
 34 risk of snow damage  
 35 risk of weevil damage

a productive, reliable, and feasible regeneration option  
 b limited in productivity, reliability and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



## ICHwc — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HwBI – Oak fern	BI Hw <sup>32</sup> Sx	PI		Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
02* HwPI – Feathermoss – Cladonia	PI		BI Hw	At <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.4 0.8	150
03 Hw – Step moss	BI Hw <sup>32</sup> PI Sx <sup>28</sup>			At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
04 HwBI – Devil's club	BI Sx	Hw <sup>32</sup> PI		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
05 Sx – Devil's club	BI Sx	Hw <sup>32</sup>	PI	Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	All	1.0	150
06 ActSx – Dogwood	BI <sup>1</sup> Sx <sup>1</sup>		Hw <sup>1,32</sup> PI <sup>1</sup>	Act <sup>a</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	All	1.0	150
07 HxSx – Blueberry – Sphagnum	Sx <sup>1</sup>	BI <sup>1</sup> PI <sup>1</sup>	Hw <sup>1,32</sup>		1000	500	400	4	9	15	PI Others	1.4 0.8	150

\* avoid logging

1 elevated microsites are preferred

28 limited by moisture deficit

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**ICHwc — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
08 Sx – Horsetail	Bl <sup>1</sup> Sx <sup>1</sup>		Hw <sup>1,32</sup>	Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	All	0.8	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–
51 Sitka alder – Devil's club		Bl Sx			1000	500	400	4	9	15	All	0.8	150
52 Mountain alder – Lady fern			Bl <sup>1</sup> Sx <sup>1</sup>		400	200	200	3	8	11	All	0.8	150

1 elevated microsites are preferred  
 32 limited by growing-season frosts  
 b limited in productivity, reliability, and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines  
<sup>+</sup> **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**MHm1 — Prince Rupert****Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) <sup>+</sup>			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HmBa – Blueberry	Ba Hm Yc		Hw <sup>14</sup>		900	500	400	7	15	20	All	1.0	125
02* HmBa – Mountain heather	Hm Yc	Ba			800	400	400	4	12	20	All	0.8	125
03 BaHm – Oak fern	Ba Hm Yc		Hw <sup>14</sup>		900	500	400	4	12	20	All	1.0	125
04 HmBa – Bramble	Ba Hm Yc		Hw <sup>14</sup>		900	500	400	7	15	20	All	1.0	125
05 BaHm – Twisted stalk	Ba Yc	Hm	Hw <sup>14</sup>		900	500	400	4	12	20	All	1.0	125
06 HmYc – Deer-cabbage	Hm <sup>1</sup> Yc <sup>1</sup>		Ba <sup>1</sup>		800	400	400	7	15	20	All	0.8	125
07 YcHm – Hellebore	Ba <sup>1</sup> Yc <sup>1</sup>	Hm <sup>1</sup>			900	500	400	4	12	20	All	1.0	125
08* HmYc – Sphagnum	Hm <sup>1</sup> Yc <sup>1</sup>		Hw <sup>1,14</sup>		400	200	200	4	12	20	All	0.8	125
09* YcHm – Skunk cabbage	Yc <sup>1</sup>	Hm <sup>1</sup>	Ba <sup>1</sup> Hw <sup>1,14</sup>		800	400	400	4	12	20	All	0.8	125
31 Non-forested wetland	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

14 restricted to lower elevations of biogeoclimatic unit

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

## MHm2 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 HmBa – Blueberry	Ba Hm	Yc <sup>17</sup>	Bl <sup>45</sup> Hw <sup>14,44</sup>		900	500	400	7	15	20	All	1.0	125
02* HmBa – Mountain heather	Hm	Ba Yc <sup>17</sup>	Bl <sup>45</sup> Hw <sup>14,44</sup>		800	400	400	4	12	20	All	0.8	125
03 BaHm – Oak fern	Ba Hm	Yc <sup>17</sup>	Bl <sup>45</sup> Hw <sup>14,44</sup>		900	500	400	4	12	20	All	1.0	125
04 HmBa – Bramble	Ba Hm	Yc <sup>17</sup>	Bl <sup>45</sup> Hw <sup>14,44</sup>		900	500	400	7	15	20	All	1.0	125
05 BaHm – Twisted stalk	Ba	Hm Yc <sup>17</sup>	Bl <sup>45</sup> Hw <sup>14,44</sup>		900	500	400	4	12	20	All	1.0	125
06 HmYc – Deer-cabbage	Hm <sup>1</sup>	Yc <sup>17</sup>	Ba <sup>1</sup>		800	400	400	7	15	20	All	1.0	125
07 YcHm – Hellebore	Ba <sup>1</sup>	Hm <sup>1</sup> Yc <sup>1,17</sup>	Hw <sup>1,14,44</sup>		900	500	400	4	12	20	All	1.0	125
08* HmYc – Sphagnum	Hm <sup>1</sup>	Yc <sup>1,17</sup>	Ba <sup>1</sup> Bl <sup>1</sup> Hw <sup>1,14</sup>		400	200	200	4	12	20	All	0.8	125
09* YcHm – Skunk cabbage	Hm <sup>1</sup>	Yc <sup>1,17</sup>	Ba <sup>1</sup> Hw <sup>1,14</sup>		800	400	400	4	12	20	All	0.8	125
31 Non-forested wetland	non-forested				–	–	–	–	–	–	–	–	–
51 Avalanche track	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

14 restricted to lower elevations of biogeoclimatic unit

17 restricted to western portion of biogeoclimatic unit in region

44 suitable in areas with stronger maritime influence

45 suitable in areas with stronger continental influence

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

+ **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## MHwh1 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
		Secondary	Tertiary			TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
01 HmSs – Blueberry	Ba Hm Yc	Cw <sup>14</sup> Hw <sup>14</sup> Ss <sup>14</sup>			900	500	400	7	15	20	All	1.0	125
02* HmYc – Mountain heather	Hm Yc	Cw <sup>14</sup>	Ba		400	200	200	4	12	20	All	0.8	125
03 SsHm – Reedgrass	Hm Yc	Cw <sup>14</sup> Ss <sup>14</sup>	Hw <sup>14</sup>		900	500	400	7	15	20	All	1.0	125
04 HmYc – Goldthread	Hm Yc	Ba Cw <sup>14</sup> Hw <sup>14</sup>			900	500	400	7	15	20	All	1.0	125
05 YcHm – Twistedstalk	Ba Yc	Cw <sup>14</sup> Hm Hw <sup>14</sup> Ss <sup>14</sup>	Pl		900	500	400	4	12	20	All	1.0	125
06 HmYc – Deer-cabbage	Hm <sup>1</sup> Yc <sup>1</sup>		Ba <sup>1</sup> Hw <sup>1,14</sup> Ss <sup>1,14</sup>		800	400	400	7	15	20	All	0.8	125
07 YcHm – Hellebore	Ba <sup>1</sup> Yc <sup>1</sup>	Cw <sup>14</sup> Hm <sup>1</sup> Ss <sup>14</sup>	Hw <sup>1,14</sup>		900	500	400	4	12	20	All	1.0	125
08* HmYc – Sphagnum	Hm <sup>1</sup> Yc <sup>1</sup>		Ba <sup>1</sup> Hw <sup>1,14</sup>		400	200	200	4	12	20	All	0.8	125
09* YcHm – Skunk cabbage	Yc <sup>1</sup>	Cw <sup>1,14</sup>	Ba Hm <sup>1</sup> Hw <sup>1,14</sup> Ss <sup>1,14</sup>		800	500	400	4	12	20	All	0.8	125
31 Non-forested wetland	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

14 restricted to lower elevations of biogeoclimatic unit

1 elevated microsites are preferred

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

+ **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## SBPSmc — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>a</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
01 PI – Feathermoss – Cladina	PI		Sb Sx	At <sup>b</sup>	1200	700	600	7	12	15	PI 1.6 Others 0.8	150
02* PI – Kinnikinnick – Cladonia	PI		Sb Sx	At <sup>b</sup>	1000	500	400	7	12	15	PI 1.2 Others 0.6	150
03 SbPI – Feathermoss	PI		Sb Sx	At <sup>b</sup>	1200	700	600	7	12	15	PI 1.6 Others 0.8	150
04 Sxw – Scrub birch – Feathermoss	PI Sb Sx <sup>32</sup>			At <sup>b</sup>	1000	500	400	4	9	15	PI 1.2 Others 0.6	150
05 Sxw – Horsetail	Sx <sup>1,32</sup>	PI <sup>1</sup>	Sb	Act <sup>b</sup>	1000	500	400	4	9	15	PI 1.2 Others 0.6	150
06 Sxw – Horsetail – Glow moss	Sx <sup>1,32</sup>	PI <sup>1</sup>	Sb	Act <sup>b</sup>	1000	500	400	4	9	15	PI 1.2 Others 0.6	150

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

b limited in productivity, reliability, and/or feasibility

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<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**SBPSmc — Prince Rupert** (continued)

## Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
07* SbSxw – Scrub birch – Sedge	PI <sup>1</sup>	Sb <sup>1</sup>	Sx <sup>1,32</sup>		400	200	200	4	9	15	PI Others	1.2 0.6	150
31 Non-forested bog	non-forested				-	-	-	-	-	-	-	-	-
32 Non-forested fen/marsh	non-forested				-	-	-	-	-	-	-	-	-

\* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## SBSdk — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Sxw – Spirea – Purple peavine	PI Sx	Fd <sup>9,18</sup>		At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
02* PI – Juniper – Ricegrass	PI	Sx <sup>28</sup>		At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.4 0.8	150
03* PI – Feathermoss – Cladina	PI	Sb <sup>28</sup> Sx <sup>28</sup>		At <sup>b</sup>	1200	700	600	7	12	15	PI Others	2.0 1.0	150
04 Fd – Soopolallie – Feathermoss	Fd PI	Sx <sup>28</sup>		At <sup>b</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
05 Sxw – Spirea – Feathermoss	PI Sx <sup>28</sup>	Fd <sup>9,18</sup>		At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150

\* avoid logging

9 restricted to southerly aspects

18 restricted to eastern portion of biogeoclimatic unit in region

28 limited by moisture deficit

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

Continued next page

<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred



**SBSdk — Prince Rupert** (continued)**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
06 Sxw – Twinberry – Coltsfoot	Pl Sx		Fd <sup>9,18</sup>	Act <sup>a</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	Pl Others	2.0 1.0	150
07 Sxw – Horsetail	Sx <sup>1,32</sup>	Pl <sup>1</sup>		Act <sup>b</sup> At <sup>b</sup> Ep <sup>b</sup>	1000	500	400	4	9	15	Pl Others	1.4 0.8	150
08 Act – Dogwood – Prickly rose	Sx <sup>1,32</sup>	Pl <sup>1</sup>		Act <sup>a</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	Pl Others	2.0 1.0	150
09* Sb – Creeping-snowberry – Sphagnum	Pl <sup>1</sup> Sb <sup>1</sup>		Sx <sup>1</sup>		400	200	200	4	9	15	Pl Others	1.4 0.8	150
10* Sb – Soft-leaved sedge – Sphagnum	Pl <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>				400	200	200	4	9	15	Pl Others	1.4 0.8	150
31 Non-forested bog	non-forested				–	–	–	–	–	–	–	–	–
32 Non-forested fen/marsh	non-forested				–	–	–	–	–	–	–	–	–

\* avoid logging

1 elevated microsites are preferred

9 restricted to southerly aspects

18 restricted to eastern portion of biogeoclimatic unit in region

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility (#a on freely drained phase of 07)

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<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines<sup>+</sup> TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

**SBSdk — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>Δ</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
81 Saskatoon – Slender wheatgrass	non-forested				-	-	-	-	-	-	-	-
82 Bluegrass – Slender wheatgrass	non-forested				-	-	-	-	-	-	-	-

<sup>Δ</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## SBSmc2 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species		Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
		Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Sxw – Huckleberry	PI Sx	BI <sup>29</sup>		At <sup>a</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
02* PI – Huckleberry – Cladonia	PI		BI <sup>32</sup> Sx <sup>32</sup>	At <sup>b</sup>	1000	500	400	7	12	15	PI Others	1.2 0.6	150
03 SbPI – Feathermoss	PI	BI <sup>29</sup> Sb Sx <sup>32</sup>		At <sup>b</sup>	1200	700	600	7	12	15	PI Others	1.6 0.8	150
04‡ Sxw – Huckleberry – Dwarf blueberry	PI Sx	BI <sup>29</sup>		At <sup>b</sup>	1200	700	600	4	9	15	PI Others	1.6 0.8	150
05 Sxw – Twinberry – Coltsfoot	PI Sx	BI <sup>29</sup>		Act <sup>a</sup> At <sup>a</sup>	1200	700	600	4	9	15	PI Others	1.6 0.8	150
06 Sxw – Oak fern	PI Sx	BI <sup>29</sup>		Act <sup>b</sup> At <sup>a</sup>	1200	700	600	4	9	15	PI Others	1.6 0.8	150
07* Sxw – Scrub birch – Feathermoss	PI Sb Sx <sup>32</sup>		BI	At <sup>b</sup>	1000	500	400	4	9	15	PI Others	1.2 0.6	150

\* avoid logging

‡ only in Cariboo Region

29 risk of heavy browsing by moose

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**SBSmc2 — Prince Rupert (continued)**

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>†</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
08‡ Sxw – Twinberry – Oak fern	Pl Sx	Bl <sup>29</sup>		Act <sup>b</sup> At <sup>a</sup>	1200	700	600	4	9	15	PI Others 0.8	1.6 0.8	150
09 Sxw – Devil's club	Sx	Bl <sup>29</sup> Pl		Act <sup>b</sup> At <sup>a</sup>	1200	700	600	4	9	15	PI Others 0.8	1.6 0.8	150
10 Sxw – Horsetail	Sx <sup>1,32</sup>	Bl <sup>1,29,32</sup> Pl <sup>1</sup>		Act <sup>b</sup> At <sup>b</sup>	1000	500	400	4	9	15	PI Others 0.6	1.2 0.6	150
11‡ Sxw – Horsetail – Glow moss	Sx <sup>1,32</sup>	Bl <sup>1,29,32</sup> Pl <sup>1</sup>		Act <sup>b</sup>	1000	500	400	4	9	15	PI Others 0.6	1.2 0.6	150
12* SbSxw – Scrub birch – Sedge	Pl <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>		Bl <sup>1</sup>		400	200	200	4	9	15	PI Others 0.6	1.2 0.6	150
31 Non-forested fen/marsh non-forested					–	–	–	–	–	–	–	–	–

\* avoid logging

‡ not found in region

1 elevated microsites are preferred

29 risk of heavy browsing by moose

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility (#a on fluvial phases of 09 and 10)

<sup>†</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

## SBSwk3 — Prince Rupert

### Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Primary	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush	
		Secondary	Tertiary			TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)			
01 Sxw – Oak fern	PI Sx	BI <sup>29</sup>			Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150
02 PI – Huckleberry – Cladina	PI			BI <sup>28</sup> Sx <sup>28</sup>		1000	500	400	7	12	15	PI Others	1.4 0.8	150
03 SxwFd – Purple peavine	Fd <sup>16</sup> PI	Sx <sup>28</sup>			At <sup>b</sup> Ep <sup>b</sup>	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
04 Sxw – Huckleberry – Highbush-cranberry	PI Sx	BI			At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	7	12	15	PI Others	2.0 1.0	150
05 Sb – Labrador tea	PI			Sb Sx	At <sup>b</sup>	1200	700	600	7	12	15	PI Others	2.0 1.0	150
06 Sxw – Twinberry – Coltsfoot	PI Sx	BI <sup>29</sup>			Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	PI Others	2.0 1.0	150

16 restricted to southern portion of biogeoclimatic unit in region

28 limited by moisture deficit

29 risk of heavy browsing by moose

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

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<sup>1</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines

\* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**SBSwk3 — Prince Rupert** (continued)

**Tree Species Selection and Free Growing Stocking Standard Guidelines**

Site series	Conifer species			Broadleaf species <sup>1</sup>	Stocking standards (well-spaced/ha) *			Regen delay (yrs)	Assessment		Min. tree height (m)	% tree over brush
	Primary	Secondary	Tertiary		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
07 Sxw – Devil's club	Sx <sup>32</sup>	Bl <sup>29,32</sup> Pl		Act <sup>b</sup> At <sup>a</sup> Ep <sup>a</sup>	1200	700	600	4	9	15	Pl Others 1.0	2.0 150
08 Sxw – Horsetail	Sx <sup>1,32</sup>	Bl <sup>1,29,32</sup> Pl <sup>1</sup>		Act <sup>a</sup> At <sup>a</sup>	1000	500	400	4	9	15	Pl Others 0.8	1.4 150

1 elevated microsites are preferred  
 29 risk of heavy browsing by moose  
 32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option  
 b limited in productivity, reliability, and/or feasibility

<sup>a</sup> See Interior Broadleaf guidelines on page 90 for stocking standard and free growing guidelines  
 \* **TSS** – target stocking standards    **MSS** – minimum stocking standards    **pa** – preferred and acceptable    **p** – preferred

**Broadleaf — Interior\*****Tree Species Selection and Free Growing Stocking Standard Guidelines\*\***

Target from conifer standards (stems/ha)	Hardwood stocking standards (well-spaced/ha) +			Regen delay (yrs)	Assessment		Min. inter-tree distance (m)	% tree over brush
	TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
400	600	400	400	4	9	12	2	150
600	1000	500	400	4	9	12	2	150
1000	1200	1000	800	4	9	12	2	150
1200	2000	1200	1000	4	9	12	2	150

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\* Cariboo, Kamloops, Nelson, Prince George and Prince Rupert forest regions

\*\* The minimum height for broadleaf trees is based on the minimum height of the tallest conifer for the site series. These standards apply to pure broadleaf stands (black cottonwood, trembling aspen, paper birch, and balsam poplar) for oriented strand board and sawlog production objectives.

+ **TSS** – target stocking standards **MSS** – minimum stocking standards **pa** – preferred and acceptable **p** – preferred

## Broadleaf — Coast\*

### Tree Species Selection and Free Growing Stocking Standard Guidelines\*\*

Tree species	Product	Stocking standards (well-spaced/ha) +			Regen delay (yrs)	Assessment		Min. inter-tree distance (m)	% tree over brush
		TSSpa	MSSpa	MSSp		Early (yrs)	Late (yrs)		
Red alder <sup>‡</sup> and bigleaf maple	Sawlogs	1200	700	600	3	5	8	2	150
	Pulp	1500	1200	1000	3	5	8	2	150
Coastal black cottonwood (for pulp)	Sawlogs	700	400	400	3	5	8	2	150
	Pulp	900	600	500	3	5	8	2	150

May 2000

\* Vancouver Forest Region and the CWH zone of the Prince Rupert Forest Region

\*\* The minimum height for broadleaf trees is based on the minimum height of the tallest conifer for the site series. These standards apply to pure broadleaf stands.

+ **TSS** – target stocking standards **MSS** – minimum stocking standards **pa** – preferred and acceptable **p** – preferred

‡ When growing red alder for sawlog production, it is recommended that stands be thinned to 600 well-spaced trees per hectare, but not before the stands have reached 12 to 16 m in height.



### Uneven-aged Stocking Standards\* — Single-tree selection only

Target from even-aged standards (stems/ha)	Layer**	Stocking standards (well-spaced/ha)***			Target from even-aged standards (stems/ha)	Layer**	Stocking standards (well-spaced/ha)***		
		TSSpa	MSSpa	MSSp			TSSpa	MSSpa	MSSp
1200	1	600	300	250	800	1	300	150	150
	2	800	400	300		2	400	200	200
	3	1000	500	400		3	600	300	300
	4	1200	700	600		4	800	400	400
1000	1	400	200	200	600	1	300	150	150
	2	600	300	250		2	400	200	200
	3	800	400	300		3	500	300	300
	4	1000	500	400		4	600	400	400
900	1	400	200	200	400	1	200	100	100
	2	500	300	250		2	300	125	125
	3	700	400	300		3	300	150	150
	4	900	500	400		4	400	200	200

May 2000

\* Maximum regeneration delay is seven years. For a seven-year regeneration delay, the early free growing is 12 years and the late free growing is 15 years. Regeneration delay can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets minimum stocking standards. If regeneration is achieved immediately following harvest, earliest free growing date is five years post harvest and late free growing assessment is at 15 years.

\*\* **Layer 1** = mature layer = trees  $\geq$  12.5 cm dbh; **Layer 2** = pole layer = trees 7.5 cm to 12.4 cm dbh;

**Layer 3** = sapling layer = trees  $\geq$  1.3 m in height and up to 7.4 cm dbh; **Layer 4** = regeneration layer = trees < 1.3 m in height

\*\*\* **TSS** – target stocking standards      **MSS** – minimum stocking standards      **pa** – preferred and acceptable      **p** – preferred