

BGxh3 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Non-forested ecosystems prevail; no planting of trees occurs.

^Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

BGxw2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Non-forested ecosystems prevail; no planting of trees occurs.

^Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

CWHds1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Insufficient data to develop species selection and stocking guidelines by site series.
 (Contact Forest Practices Section, Cariboo Forest Region for further information.)

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines
 + TSS – target stocking standards; MSS – minimum stocking standards; pa – preferred and acceptable; p – preferred

CWHms1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Insufficient data to develop species selection and stocking guidelines by site series.
 (Contact Forest Practices Section, Cariboo Forest Region for further information.)

^Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

ESSFdc2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Bl – Rhododendron – Grouseberry	PI Se	BI		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02*	Juniper – Pinegrass	PI ⁵²		BI ¹³ Se	–	–	–	–	–	–	–	–	–
03	PISe – Falsebox – Pinegrass	PI		BI ¹³ Pa ^{9,17} Se	1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	Bl – Grouseberry – Cladonia	PI		BI ¹³ Se	1000	500	400	7	15	20	PI Others	1.2 0.6	125
05	Bl – Huckleberry – Feathermoss	PI Se	BI ^{10,13}		1000	500	400	7	15	20	PI Others	1.2 0.6	125
06	Bl – Gooseberry – Oak fern	PI Se	BI		1200	700	600	4	12	20	PI Others	1.6 0.8	125
07	Bl – Rhododendron – Valerian	PI Se ³²	BI		1200	700	600	4	12	20	PI Others	1.6 0.8	125
08	Bl – Trapper's tea	PI ¹ Se ^{1,32}	BI ^{1,32}		1000	500	400	4	12	20	PI Others	1.2 0.6	125
09	Sedge – Sphagnum	non-forested			–	–	–	–	–	–	–	–	–

* avoid logging

1 elevated microsites are preferred

9 restricted to southerly aspects

10 restricted to northerly aspects

13 restricted to upper elevations of biogeoclimatic unit

17 restricted to western portion of biogeoclimatic unit

32 limited by growing-season frosts

52 restricted to sheltered microsites with deep soil

ESSFmv1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	PI		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	PI – Huckleberry – Cladonia	PI		BI	1000	500	400	7	12	15	PI BI	1.2 0.6	125
03	BI – Huckleberry – Feathermoss	BI PI Se			1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	BI – Huckleberry – Gooseberry	BI Se	PI		1000	500	400	7	15	20	PI Others	1.2 0.6	125
05	BI – Horsetail – Glow moss	BI ^{1,32} Se ^{1,32}	PI ¹		1000	500	400	4	12	20	PI Others	1.2 0.6	125

¹ elevated microsites are preferred
³² limited by growing-season frosts

Establishment to Free Growing Guidebook: Cariboo Forest Region

ESSFwc3 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Bl – Rhododendron – Oak fern	Bl Se	PI ³⁴		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	Bl – Rhododendron – Queen's cup	Bl Se	PI ³⁴		1000	500	400	7	15	20	PI Others	1.2 0.6	125
03*	Bl – Globeflower – Horsetail	Bl ^{1,32,34}	Se ^{1,32,34}		600	400	400	7	15	20	All	0.6	125

* avoid logging

1 elevated microsites are preferred

32 limited by growing-season frosts

34 risk of snow damage

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

ESSFwk1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Bl – Oak fern – Brachythecium	Bl Se	Pl ³⁴		1200	700	600	4	12	20	Pl Others	2.0 1.0	125
02*	Bl – Huckleberry – Feathermoss	Bl Pl Se			1000	500	400	7	15	20	Pl Others	1.4 0.8	125
03	Bl – Oak fern – Knight's plume	Pl ³⁴ Se	Bl		1200	700	600	4	12	20	Pl Others	2.0 1.0	125
04	Bl – Twinberry – Lady fern	Bl ³² Se ³²	Pl ³⁴		1200	700	600	4	12	20	Pl Others	2.0 1.0	125
05	Bl – Devil's club – Lady fern	Bl Se	Pl ³⁴		1200	700	600	4	12	20	Pl Others	2.0 1.0	125
06	Bl – Horsetail – Sphagnum	Bl ^{1,32} Se ^{1,32}			1000	500	400	4	12	20	All	0.8	125
07	Bl – Lady fern – Horsetail	Bl ^{1,32} Se ^{1,32}			1000	500	400	4	12	20	All	0.8	125

* avoid logging
 1 elevated microsites are preferred
 32 limited by growing-season frosts
 34 risk of snow damage

Establishment to Free Growing Guidebook: Cariboo Forest Region

ESSFxc — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Grouseberry – Valerian	PI Se ³²	BI ^{10,13}		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	PI – Juniper – Lupine	PI		BI ¹³ Se	600	400	400	7	15	20	PI Others	1.2 0.6	125
03	Bluebunch wheatgrass – Pasqueflower	non-forested			–	–	–	–	–	–	–	–	–
04	Big sage – Pinegrass	non-forested			–	–	–	–	–	–	–	–	–
05	BI – Grouseberry – Cladonia	PI		BI ¹³ Se	1000	500	400	7	15	20	PI Others	1.2 0.6	125
06	BI – Rhododendron – Grouseberry	PI Se	BI ¹³		1200	700	600	7	15	20	PI Others	1.6 0.8	125
07	BI – Gooseberry – Foamflower	PI Se ³²	BI ³²		1200	700	600	4	12	20	PI Others	1.6 0.8	125
08	BI – Horsetail – Glow moss	PI ¹	BI ^{1,32} Se ^{1,32}		1000	500	400	4	12	20	PI Others	1.2 0.6	125
09	Bluejoint – Sedge	non-forested			–	–	–	–	–	–	–	–	–
10	Willow – Sedge	non-forested			–	–	–	–	–	–	–	–	–

1 elevated microsites are preferred

10 restricted to northerly aspects

13 restricted to upper elevations of biogeoclimatic unit

32 limited by growing-season frosts

ESSFv1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Bl – Arnica – Cladonia	PI ³² Se ³² Bl ^{32,50}	Pa		1200	700	600	7	12	15	PI Others	1.0 0.8	125
02*	BlPa – Juniper – Cladonia	PI Pa		Bl ²⁸	800	500	400	7	12	15	PI Others	0.8 0.6	125
03*	PI – Cladonia – Stereocaulon	PI	Pa		800	500	400	7	12	15	PI Pa	0.8 0.6	125
04	BlPa – Juniper – Grouseberry	PI Pa		Bl ²⁸ Se ²⁸	1000	600	500	7	12	15	PI Others	0.8 0.6	125
05	BlPa – Arnica – Twinflower	PI Pa		Bl ²⁸ Se ²⁸	1200	700	600	7	12	15	PI Others	1.0 0.8	125
06	Bl – Rhododendron – Crowberry	PI	Bl ³² Se ³²	Pa	1200	700	600	7	12	15	PI Others	1.0 0.8	125
07	Bl – Valerian – Arnica	PI ³² Bl ³² Se ³²		Pa	1200	700	600	4	12	15	PI Others	1.0 0.8	125
08	Bl – Horsetail – Glow moss	PI ^{1,32} Se ^{1,32} Bl ^{1,32}			600	400	300	4	12	15	PI Others	0.8 0.6	125
09	Bl – Twinberry – Hellebore	Se ^{1,32} Bl ^{1,32}	PI ¹		800	500	400	4	12	15	PI Others	0.8 0.6	125

* avoid logging
 1 elevated microsites are preferred
 28 limited by moisture deficit
 32 limited by growing-season frosts
 50 restricted to sites where occurring as a major species in a pre-harvest stand

Establishment to Free Growing Guidebook: Cariboo Forest Region

ESSFv2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Bl – Arnica – Cladonia	PI Se ³² BI ³²		Pa	1200	700	600	7	12	15	PI Others	1.0 0.8	125
02*	BlPa – Juniper – Cladonia	PI	Pa	Bl ^{28, 53}	800	500	400	7	12	15	PI Others	0.8 0.6	125
03*	BlPa – Kinnikinnick	PI	Pa		600	400	300	7	12	15	PI Pa	0.8 0.6	125
04	BlPa – Juniper – Kinnikinnick	PI	Bl ²⁸ Pa		1200	700	600	7	12	15	PI Others	1.0 0.8	125
05	BlPa – Grouseberry	PI	Pa Se BI		1200	700	600	7	12	15	PI Others	1.0 0.8	125
06	Bl – Rhododendron – Crowberry	PI	Se BI	Pa	1200	700	600	7	12	15	PI Others	1.0 0.8	125
07	Bl – Lousewort – Glow moss	PI Se ³² BI ³²			1200	700	600	4	12	15	PI Others	1.0 0.8	125
08	Bl – Horsetail – Glow moss	Se ^{1,32} BI ^{1,32}	PI ¹		600	400	300	4	12	15	PI Others	0.8 0.6	125
09	Se – Trapper's tea – Glowmoss	Se ^{1,32} BI ^{1,32}	PI ^{1,32}		600	400	300	4	12	15	PI Others	0.8 0.6	125
10	Se – Willow – Glowmoss	Se ^{1,32} BI ^{1,32}	PI ^{1,32}		600	400	300	4	12	15	PI Others	0.8 0.6	125

* avoid logging

1 elevated microsites are preferred

28 limited by moisture deficit (on sandy soils for 01)

32 limited by growing-season frosts (on level and gentle slopes for 01)

53 minor component

a productive, reliable and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

ICHdk — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 CwSxw – Falsebox – Wintergreen	Fd PI Sx	BI	Cw ³⁷	At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
02 CwSxw – Soopolallie	Fd ²⁸ PI		BI ²⁸ Cw ^{28,37,53} Sx ²⁸	At ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03 CwSxw – Falsebox – Soopolallie	Fd ²⁸ PI		Cw ^{28,37,53} Sx ^{28,53}	At ^b	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
04 CwSxw – Falsebox – Feathermoss	Fd PI Sx ²⁸	BI ²⁸	Cw ^{28,37,53}	At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
05 CwSxw – Thimbleberry	Fd PI Sx	BI Cw ³⁷		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
06 CwSxw – Raspberry – Oak fern	Fd PI Sx	BI Cw ³⁷		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
07 Sxw – Twinberry – Oak fern	Fd ^{1,32} PI Sx	BI		Act ^a At ^b	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
08 Sxw – Devil's club – Lady fern	Fd ³² Sx	BI Cw ^{32,37} PI		Act ^a At ^a Ep ^a	1000	500	400	4	9	15	PI Fd Others	1.4 1.0 0.8	150
09 Sxw – Horsetail	Sx ³²	BI ³² PI		Act ^a	1000	500	400	4	9	15	PI Others	1.4 0.8	150

1 elevated microsites are preferred
 28 limited by moisture deficit
 32 limited by growing-season frosts
 37 risk of heart rots

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

ICHmk3 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 CwSxw – Falsebox – Knight's plume	Fd PI Sx	BI Cw ³⁷		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
02* FdCw – Wavy-leaved moss	Fd PI		BI Sx ²⁸	At ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03 CwSxw – Soopolallie	Fd PI		BI ²⁸ Cw ²⁸ Sx ²⁸	At ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
04 CwSxw – Oak fern – Cat's-tail moss	Fd ³² Sx	BI Cw ^{32,37} PI		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
05 SxwCw – Oak fern	Sx ³² PI	BI ³² Cw ^{32,37}		Act ^a At ^b	1200	700	600	4	9	15	PI Others	2.0 1.0	150
06 CwHw – Devil's club – Lady fern	Fd ^{32,34} Sx ³⁴	BI ³⁴ Cw ^{32,34,37} PI ³⁴		Act ^a At ^b Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
07 CwSxw – Devil's club – Horsetail	Sx ^{1,32}	BI ^{1,32} Cw ^{1,32,37} PI ¹		Act ^a	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

34 risk of snow damage
 37 risk of heart rots
 a productive, reliable, and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

ICHmw3 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 HwCw – Falsebox – Feathermoss	Fd	PI Sx ^{10,13}	BI ^{10,13} Cw ^{10,13} Hw ^{10,13}	Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
01-YC HwCw – Feathermoss	Fd	PI Sx ^{10,13}	BI ^{10,13} Hw ^{10,13}	Cw ^{10,13} Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
02 Fd – Juniper – Cladina	Fd PI		Cw ^{10,13}	Ep ^b	1000	500	400	7	12	15	PI Fd Cw	1.4 1.0 0.8	150
03 FdPI – Pinegrass – Feathermoss	Fd ³² PI		BI ^{10,13} Hw Sx ^{10,13}	Cw ^{10,13} Act ^{53,a} Ep ^{53,a}	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
04 CwFd – Soopolallie – Twinflower	Fd PI		BI Cw ^{10,13} Hw ^{10,13} Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
05 CwFd – Falsebox	Fd	BI ^{10,13} PI Sx ^{10,13}	Hw ^{10,13} Cw ^{10,13}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
06 CwHw – Oak fern	Cw Fd ¹⁴ Hw Sx	BI ^{10,13} PI		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
07 CwHw – Devil's club – Lady fern	Cw ³² Sx	BI Fd ^{1,32} Hw ³² PI		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
08 CwSxw – Skunk cabbage	Cw ^{1,32} Hw ^{1,32} PI ¹ Sx ¹	BI ¹		Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI Others	1.4 0.8	150
09 Sedge – Sphagnum	non-forested				–	–	–	–	–	–	–	–	–

1 elevated microsites are preferred
 9 restricted to southerly aspects
 10 restricted to northerly aspects
 13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit
 32 limited by growing-season frosts
 53 minor component

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

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

ICHwk2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 CwHw – Oak fern	Fd PI Sx	BI Cw ³⁷ Hw ³⁷		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
02* HwCw – Cladonia	Fd PI		BI ²⁸ Cw ^{28,37,53} Hw ^{28,37}	At ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03* CwFd – Juniper – Falsebox	Fd PI		BI ²⁸ Cw ^{28,37,53} Hw ^{28,37}	At ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
04 HwCw – Step moss	Fd PI	Hw ³⁷	BI ²⁸ Cw ^{28,37} Sx	At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.0 1.0	150
05 SxwCw – Oak fern	PI Sx	BI Cw ³⁷		Act ^a	1200	700	600	4	9	15	PI Others	2.0 1.0	150
06 Sxw – Twinberry – Oak fern	Sx ³²	BI ³² PI		Act ^a	1200	700	600	4	9	15	PI Others	2.0 1.0	150
07 CwHw – Devil's club – Lady fern	Fd ^{1,32} Sx	BI Cw ^{32,37} Hw ^{32,37} PI		Act ^a At ^b Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
08 CwSxw – Skunk cabbage	Sx ^{1,32}	BI ^{1,32} Cw ^{1,32,37}	Hw ^{1,32,37}	Act ^a	1000	500	400	4	9	15	All	0.8	150

* avoid logging
 1 elevated microsites are preferred (on toe slopes for 07)
 28 limited by moisture deficit
 32 limited by growing-season frosts

37 risk of heart rots
 53 minor component
 a productive, reliable, and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

ICHwk4 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 CwHw – Oak fern	Fd PI Sx	BI Cw ³⁷ Hw ³⁷		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI 2.0 Fd 1.4 Others 1.0	150
02* HwCw – Cladonia	Fd PI		BI ²⁸ Hw ^{28,37}	At ^b	1000	500	400	7	12	15	PI 1.4 Fd 1.0 Others 0.8	150
03* CwSxw – Soopolallie	Fd PI		Hw ^{28,37} Sx ²⁸	At ^b	1000	500	400	7	12	15	PI 1.4 Fd 1.0 Others 0.8	150
04 CwSxw – Velvet-leaved blueberry	Fd ³² PI Sx ²⁸	BI ²⁸ Hw ³²		At ^b	1200	700	600	4	9	15	PI 2.0 Fd 1.4 Others 1.0	150
05 HwCw – Step moss	Fd PI	Hw ³⁷	BI ²⁸ Cw ^{28,37} Sx ²⁸	At ^a Ep ^a	1200	700	600	4	9	15	PI 2.0 Fd 1.4 Others 1.0	150
06 Sxw – Twinberry – Oak fern	Sx ³²	BI ³² PI	Hw ^{32,37,53}	Act ^a	1200	700	600	4	9	15	PI 2.0 Others 1.0	150
07 CwHw – Devil's club – Lady fern	Fd ^{1,32} Sx	BI Cw ^{32,37} Hw ^{32,37} PI		Act ^a At ^b Ep ^a	1200	700	600	4	9	15	PI 2.0 Fd 1.4 Others 1.0	150
08 Sxw – Devil's club – Lady fern	Sx ^{1,32}	BI ^{1,32} PI ¹ Cw ^{1,32,37}		Act ^a	1000	500	400	4	9	15	PI 1.4 Others 0.8	150

* avoid logging
 1 elevated microsites are preferred (on toe slopes for 07)
 28 limited by moisture deficit
 32 limited by growing-season frosts

37 risk of heart rots
 53 minor component
 a productive, reliable, and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

Establishment to Free Growing Guidebook: Cariboo Forest Region

IDFd_{k1} — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 FdPI – Pinegrass – Feathermoss	Fd ³² PI		Sx ^{10,13}	At ^a	1000	500	400	7	12	15	PI Lw Fd Sx Py	1.0 1.0 0.8 0.6 0.6	125
02 Fd – Snowberry – Bluebunch wheatgrass	Fd ²⁷			At ^b	600	400	400	7	12	15	Fd	0.8	125
03 Fd – Juniper – Pinegrass	Fd PI			At ^b	600	400	400	7	12	15	PI Fd	1.0 0.8	125
04 Fd – Pinegrass – Feathermoss	Fd PI		Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI Fd Sx	1.0 0.8 0.6	125
05 SxwFd – Gooseberry – Feathermoss	Fd ^{9,14,32} Sx	PI	Bl ^{10,13}	Act ^a At ^a Ep ^b	1000	500	400	7	12	15	PI Fd Others	1.0 0.8 0.6	125
06 Sxw – Horsetail	PI ¹ Sx ¹	Fd ^{1,32}	Bl ¹	Act ^a At ^a Ep ^b	1000	500	400	4	9	15	PI Fd Others	1.0 0.8 0.6	125
07 Willow – Sedge	non-forested				–	–	–	–	–	–	–	–	–

1 elevated microsites are preferred

9 restricted to southerly aspects

10 restricted to northerly aspects

13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit

27 partial canopy cover required for successful establishment

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

IDFdk3 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	FdPI – Pinegrass – Feathermoss	Fd ^{27,32} PI		Sx ^{13,28}	At ^a	1200	700	600	7	12	15	PI Fd Sx	1.4 1.0 0.8	125
02*	Fd – Juniper – Kinnikinnick	Fd ^{27,28} PI				800	500	400	7	12	15	PI Fd	1.0 0.8	125
03*	Fd – Juniper – Peltigera	Fd ^{27,28} PI ²⁸				800	500	400	7	12	15	PI Fd	1.0 0.8	125
04	Fd – Bluebunch wheatgrass – Needlegrass	Fd ^{27,28} PI ²⁸			At ^b	1000	500	400	7	12	15	PI Fd	1.0 0.8	125
05	Fd – Feathermoss – Step moss	Fd ²⁷ PI			At ^b	1200	700	600	7	12	15	PI Fd	1.4 1.0	125
06	Fd – Pinegrass – Aster	Fd ^{27,28} PI			At ^b	1200	700	600	7	12	15	PI Fd	1.4 1.0	125
07	SxwFd – Prickly rose – Sedge	Fd ³² PI Sx ²⁸			At ^a Ep ^b	1200	700	600	4	9	15	PI Fd Sx	1.4 1.0 0.8	125
08	SxwFd – Prickly rose – Sarsaparilla	Fd ^{1,32} PI Sx			Act ^a At ^a Ep ^b	1200	700	600	4	9	15	PI Fd Sx	1.4 1.0 0.8	125
09	Sxw – Horsetail – Glow moss	Sx ^{1,32}	PI ¹		Act ^a	1000	500	400	4	9	15	PI Sx	1.0 0.6	125

* avoid logging

1 elevated microsites are preferred (on wettest microsites for 08)

13 restricted to upper elevations of biogeoclimatic unit

27 partial canopy cover required for successful establishment

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

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

IDFdk4 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	FdPI – Pinegrass – Feathermoss	Fd ^{27,32} PI		Sx ^{13,28}	At ^a	1200	700	600	7	12	15	PI Fd Sx	1.4 1.0 0.8	125
02*	Fd – Juniper – Peltigera	Fd ^{27,28} PI ²⁸				800	500	400	7	12	15	PI Fd	1.0 0.8	125
03*	Fd – Juniper – Saskatoon	Fd ^{27,28}				800	500	400	7	12	15	Fd	0.8	125
04*	Fd – Juniper – Pasture sage	Fd ^{27,28} PI ²⁸			At ^b	1000	500	400	7	12	15	PI Fd	1.0 0.8	125
05	Fd – Bluebunch wheatgrass – Pinegrass	Fd ^{27,28} PI			At ^b	1200	700	600	7	12	15	PI Fd	1.4 1.0	125
06	PI – Kinnikinnick – Cladonia	PI		Sx ^{28,32}	At ^b	1000	500	400	7	12	15	PI Sx	1.0 0.6	125
07	Fd – Feathermoss – Step moss	Fd ²⁷ PI			At ^b	1200	700	600	7	12	15	PI Fd	1.4 1.0	125
08	Sxw – Scrub birch – Feathermoss	PI Sx ³²			At ^b	1000	500	400	4	9	15	PI Sx	1.0 0.6	125
09	Sxw – Feathermoss – Brachythecium	Fd ^{1,32} PI Sx			Act ^a At ^a	1200	700	600	4	9	15	PI Fd Sx	1.4 1.0 0.8	125
10	Sxw – Horsetail – Glow moss	Sx ^{1,32}	PI ¹		Act ^a At ^a	1000	500	400	4	9	15	PI Sx	1.0 0.6	125

* avoid logging

1 elevated microsites are preferred (on wettest microsites for 09)

13 restricted to upper elevations of biogeoclimatic unit

27 partial canopy cover required for successful establishment

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

IDFdw — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Insufficient data to develop species selection and stocking guidelines by site series.
 (Contact Forest Practices Section, Cariboo Forest Region for further information.)

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines
 + TSS – target stocking standards; MSS – minimum stocking standards; pa – preferred and acceptable; p – preferred

Establishment to Free Growing Guidebook: Cariboo Forest Region

IDFmw2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 FdCw – Falsebox – Prince's pine	Fd PI		Cw ^{10,13} Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	1.6 1.0 0.8	125
01-YC CwFd – Feathermoss	Fd PI		BI ^{10,13} Cw ^{10,13} Sx ^{10,13}	At ^a Ep ^a Act ^b	1200	700	600	7	12	15	PI Fd Others	1.6 1.0 0.8	125
01-YS EpAt – Thimbleberry – Falsebox	Fd	PI	Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Sx	1.6 1.0 0.8	125
02 Fd – Snowberry – Bluebunch wheatgrass	Fd ²⁷			At ^b	600	400	400	7	12	15	Fd	0.8	125
03 Fd – Pinegrass – Feathermoss	Fd ¹⁴ PI		Cw ^{10,13} Sx ^{10,13}	At ^b Ep ^b	1000	500	400	7	12	15	PI Fd Others	1.6 1.0 0.8	125
04 CwSxw – Oak fern	Fd ³² Sx	PI	BI ¹³ Cw ^{32,37}	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	1.6 1.0 0.8	125
05* Dogwood – Sedge	Sx ¹ PI ¹		BI ¹ Cw ^{1,32}	Act ^a At ^b Ep ^b	400	200	200	4	9	15	PI Others	1.2 0.6	125

* avoid logging

1 elevated microsites are preferred

9 restricted to southerly aspects

10 restricted to northerly aspects

13 restricted to upper elevations of biogeoclimatic unit

14 restricted to lower elevations of biogeoclimatic unit

27 partial canopy cover required for successful establishment

32 limited by growing-season frosts

37 risk of heart rots

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

IDFxm — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)			
01a	Fd – Pinegrass – Feathermoss, Typic	Fd ^{27,28}		At ^a	1200	700	600	7	12	15	All	0.8	125
01b	Fd – Pinegrass – Feathermoss, Cold	Fd ^{27,28} PI		At ^a	1200	700	600	7	12	15	All	0.8	125
02*	Fd – Bluebunch wheatgrass – Penstemon	Fd ^{27,28}			1000	500	400	7	12	15	Fd	0.6	125
03	Fd – Juniper – Cladonia	Fd ^{27,28} PI			1000	500	400	7	12	15	PI Fd	0.8 0.6	125
04	Fd – Bluebunch wheatgrass – Pasture sage	Fd ^{27,28}		At ^b	1000	500	400	7	12	15	Fd	0.6	125
05	Fd – Feathermoss – Step moss	Fd ²⁷		At ^b	1200	700	600	7	12	15	Fd	0.8	125
06	Fd – Ricegrass – Feathermoss	Fd ³²		At ^a	1200	700	600	7	12	15	Fd	0.8	125
07	Fd – Prickly rose – Sarsaparilla	Fd		At ^a Ep ^a	1200	700	600	7	12	15	Fd	0.8	125
08	Sxw – Snowberry – Prickly rose	Fd ³² Sx	PI	Act ^a At ^a	1200	700	600	4	9	15	All	0.8	125
09	Sxw – Horsetail	PI ¹ Sx ¹		Act ^b At ^b	1000	500	400	4	9	15	PI Sx	0.8 0.6	125

* avoid logging

1 elevated microsites are preferred

27 partial canopy cover required for successful establishment

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

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

IDF_{xw} — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	Fd – Juniper – Bluebunch wheatgrass	Fd ²⁷ Py		At ^b	1200	700	600	7	12	15	Fd, Py	0.8	125
02*	Fd – Bluebunch wheatgrass – Pinegrass	Fd ^{27,28} Py ²⁸			600	400	400	7	12	15	Fd, Py	0.6	125
03*	FdPy – Western snowberry – Bluebunch wheatgrass	Fd ^{27,28} Py ²⁸			600	400	400	7	12	15	Fd, Py	0.6	125
04	FdPy – Bluebunch wheatgrass – Balsamroot	Fd ^{27,28} Py ²⁸		At ^b	800	500	400	7	12	15	Fd, Py	0.6	125
05	Fd – Feathermoss	Fd ²⁷		At ^b	1200	700	600	7	12	15	Fd	0.8	125
06	Sxw – Water birch	Fd Sx		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	Fd, Sx	0.8	125
07	Sxw – Prickly rose – Coltsfoot	Fd Sx		Act ^a At ^a Ep ^a	1000	500	400	4	9	15	Fd, Sx	0.6	125

* avoid logging

27 partial canopy cover required for successful establishment

28 limited by moisture deficit

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

MHmm2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Insufficient data to develop species selection and stocking guidelines by site series.
 (Contact Forest Practices Section, Cariboo Forest Region for further information.)

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines
 + TSS – target stocking standards; MSS – minimum stocking standards; pa – preferred and acceptable; p – preferred

Establishment to Free Growing Guidebook: Cariboo Forest Region

MSdc2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Wintergreen– Feathermoss	PI Sx ²⁸	BI ²⁸ Fd ³²	Pa ⁵³	1200	700	600	7	12	15	PI Others	1.0 0.8	125
02*	FdBI–Spirea Stonecrop	Fd ²⁸ PI		BI ²⁸ Pa ⁵³	1000	500	400	7	12	15	PI Others	0.8 0.6	125
03	FdBI – Soopolallie - Kinnikinnick	Fd PI		BI ²⁸ Pa ⁵³	1000	500	400	7	12	15	PI Others	0.8 0.6	125
04	PIBI –Soopolallie - Kinnikinnick	PI	Sx ²⁸ BI ²⁸	Pa ⁵³	1200	700	600	7	12	15	PI Others	1.0 0.8	125
05	Sxw –Rhododendron - Crowberry	Sx ³² PI ¹	BI ³²		1200	700	600	7	12	15	PI Others	1.0 0.8	125
06	Sxw –Twinberry - Reedgrass	Sx ³² BI ³² PI ¹			1200	700	600	4	9	15	PI Others	1.0 0.8	125
07	Sxw –Gooseberry	Sx BI	PI ¹		1200	700	600	4	9	15	PI Others	1.0 0.8	125
08	Sxw –Horsetail - Leafy moss	Sx ^{1,32}	BI ^{1,32} PI ^{1,32}		1000	500	400	4	9	15	PI Others	0.8 0.6	125

* avoid logging

1 elevated microsites are preferred

28 limited by moisture deficit (on sandy soils for 01)

32 limited by growing season frosts

53 minor component

a productive, reliable and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

MSdv — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 –Soopolallie – Twinflower	PI Sx ³²	BI ³²		1200	700	600	7	12	15	PI Others	1.0 0.8	125
02*	PII–Penstemon - Balsamroot	PI ²⁸			1000	500	400	7	12	15	PI	0.8	125
03*	PI – Short-awned - ricegrass –Peltigera	PI		Sx ^{28,32} BI ^{28,32}	1200	700	600	7	12	15	PI Others	1.0 0.8	125
04	PI –Saskatoon - Kinnikinnick	PI		Sx ²⁸ BI ²⁸	1200	700	600	7	12	15	PI Others	1.0 0.8	125
05	PI – Soopolallie - Heron's bill moss	PI		Sx ²⁸ BI ²⁸	1200	700	600	7	12	15	PI Others	1.0 0.8	125
06	Sxw –Twinberry - Reedgrass	PI Sx ³²	BI ³²		1200	700	600	7	12	15	PI Others	1.0 0.8	125
07	Sxw – Dwarf blueberry	PI Sx ³²	BI ³²		1200	700	600	7	12	15	PI Others	1.0 0.8	125
08	Sxw – Soopolallie Scouring-rush	Sx ³²	BI ³² PI ^{1,32}		1000	500	400	4	9	15	PI Others	0.8 0.6	125
09	Sxw –Horsetail Leafy moss	Sx ^{1,32}	PI ³² BI ³²		1000	500	400	4	9	15	PI Others	0.8 0.6	125

* avoid logging
 1 elevated microsites are preferred
 28 limited by moisture deficit (on sandy soils for 01)

32 limited by growing season frosts
 53 minor component
 a productive, reliable and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

Establishment to Free Growing Guidebook: Cariboo Forest Region

MSxk — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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)		

Insufficient data to develop species selection and stocking guidelines by site series.
 (Contact Forest Practices Section, Cariboo Forest Region for further information.)

^Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines
⁺ TSS – target stocking standards; MSS – minimum stocking standards; pa – preferred and acceptable; p – preferred

MSxv — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Grouseberry – Feathermoss	PI Sx ^{28,32}		BI ^{16,28,32}	1200	700	600	7	12	15	PI Others	1.0 0.8	125
02	PI – Fescue – Stereocaulon	PI ³²			1000	500	400	7	12	15	PI	0.8	125
03	PI – Kinnikinnick – Cladonia	PI			1000	500	400	7	12	15	PI	0.8	125
04	PI – Grouseberry – Kinnikinnick	PI Sx ³²		BI ^{16,28,32}	1200	700	600	7	12	15	PI Others	1.0 0.8	125
05	PI – Trapper’s tea – Crowberry	PI Sx ³²		BI ³²	1200	700	600	7	12	15	PI Others	1.0 0.8	125
06	Sxw – Crowberry – Knight’s plume	PI Sx ³²		BI ^{16,32}	1200	700	600	7	12	15	PI Others	1.0 0.8	125
07	Sxw – Crowberry – Glow moss	PI Sx ³²		BI ^{16,32}	1000	500	400	4	9	15	PI Others	0.8 0.6	125
08	Sxw – Horsetail – Crowberry	Sx ³²	PI	BI ^{16,32}	1000	500	400	4	9	15	PI Others	0.8 0.6	125
09	Sxw – Labrador tea – Willow	Sx ^{1,32}		BI ^{1,32} PI ¹	400	200	200	4	9	15	PI Others	0.8 0.6	125

1 elevated microsites are preferred
 16 restricted to southern portion of biogeoclimatic unit in region
 28 limited by moisture deficit
 32 limited by growing-season frosts

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBPSdc — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Juniper – Feathermoss	PI Sx ²⁸		Sb ²⁸	At ^a	1200	700	600	7	12	15	PI 1.4 Others 0.8	150
02*	PI – Kinnikinnick – Cladonia	PI ²⁸			At ^b	1000	500	400	7	12	15	PI 1.0	150
03	PI – Kinnikinnick – Feathermoss	PI		Sb ^{4,15,28} Sx ^{4,28}	At ^b	1200	700	600	7	12	15	PI 1.4 Others 0.8	150
04	PISb – Feathermoss	PI Sx		Sb ¹⁵	At ^b	1200	700	600	7	12	15	PI 1.4 Others 0.8	150
05	Sxw – Scrub birch – Feathermoss	PI Sx		Sb ¹⁵	At ^b	1000	500	400	4	9	15	PI 1.0 Others 0.6	150
06	Sxw – Horsetail – Meadowrue	PI Sx ³²		Sb ¹⁵	Act ^a At ^a	1000	500	400	4	9	15	PI 1.0 Others 0.6	150
07	Sb – Scrub birch – Sedge	Sx ^{1,32}	PI ¹	Sb ¹		400	200	200	4	9	15	PI 1.0 Others 0.6	150
08	Sxw – Horsetail – Glow moss	Sx ^{1,32}	PI ¹	Sb ¹⁵	Act ^a	1000	500	400	4	9	15	PI 1.0 Others 0.6	150

* avoid logging

1 elevated microsites are preferred

4 restricted to medium-textured soils

15 restricted to northern portion of biogeoclimatic unit in region

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

SBPSmc — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 ^b	1200	700	600	7	12	15	PI 1.6 Others 0.8	150
02*	PI – Kinnikinnick – Cladonia	PI		Sb Sx	At ^b	1000	500	400	7	12	15	PI 1.2 Others 0.6	150
03	SbPI – Feathermoss	PI		Sb Sx	At ^b	1200	700	600	7	12	15	PI 1.6 Others 0.8	150
04	Sxw – Scrub birch – Feathermoss	PI Sb Sx ³²			At ^b	1000	500	400	4	9	15	PI 1.2 Others 0.6	150
05	Sxw – Horsetail	Sx ^{1,32}	PI ¹	Sb ⁵³	Act ^a	1000	500	400	4	9	15	PI 1.2 Others 0.6	150
06	Sxw – Horsetail – Glow moss	Sx ^{1,32}	PI ¹	Sb ⁵³	Act ^b	1000	500	400	4	9	15	PI 1.2 Others 0.6	150
07*	SbSxw – Scrub birch – Sedge	PI ¹ Sb ¹ Sx ^{1,32}				400	200	200	4	9	15	PI 1.2 Others 0.6	150

* avoid logging
 1 elevated microsites are preferred
 32 limited by growing-season frosts
 53 minor component

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBPSmk — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Pinegrass – Arnica	Fd ^{14,32} PI Sx			At ^a	1200	700	600	7	12	15	PI Fd Sx	1.6 1.0 0.8	150
02* PI – Cladonia – Haircap moss	Fd ^{14,28} PI		Sx ²⁸		1000	500	400	7	12	15	PI Fd Sx	1.2 0.8 0.6	150
03 Fd – Pinegrass – Aster	Fd ²⁸ PI			At ^a	1200	700	600	7	12	15	PI Fd	1.6 1.0	150
04 PI – Pinegrass – Feathermoss	Fd ^{14,28,32} PI Sx ²⁸		Sb ^{14,15}	At ^a	1200	700	600	7	12	15	PI Fd Others	1.6 1.0 0.8	150
05 SxwFd – Step moss	Fd ^{14,28} PI Sx ²⁸			At ^b	1200	700	600	7	12	15	PI Fd Sx	1.6 1.0 0.8	150
06 Sxw – Twinberry	PI Sx			Act ^a At ^a	1200	700	600	4	9	15	PI Sx	1.6 0.8	150
07 Sxw – Horsetail – Glow moss	Sx ^{1,32}	Bl ^{1,32} PI ¹		Act ^a At ^a	1000	500	400	4	9	15	PI Others	1.2 0.6	150
08 Sb – Scrub birch – Sedge	Sx ^{1,32}	PI ¹	Sb ¹		400	200	200	4	9	15	PI Others	1.2 0.6	150

* avoid logging

1 elevated microsites are preferred

14 restricted to lower elevations of biogeoclimatic unit

15 restricted to northern portion of biogeoclimatic unit in region

28 limited by moisture deficit (on level, sandy soils for 04)

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

SBPSxc — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Kinnikinnick – Feathermoss	PI		At ^a	1200	700	600	7	12	15	PI	1.4	150
02a	PI – Kinnikinnick – Cladonia, Typic	Fd ^{9,11,18,28}	PI	At ^b	1000	500	400	7	12	15	PI Fd	1.0 0.6	150
02b	PI – Kinnikinnick – Cladonia, Sand	PI		At ^b	1000	500	400	7	12	15	PI Fd	1.0 0.6	150
02c*	PI – Kinnikinnick – Cladonia, Shallow	Fd ^{9,11,18,28}	PI	At ^b	1000	500	400	7	12	15	PI Fd	1.0 0.6	150
03	Sxw – Scrub birch – Fen moss	PI Sw ³²		At ^b	1000	500	400	4	9	15	PI Sx	1.0 0.6	150
04	Sxw – Scrub birch – Feathermoss	PI Sw ³²		At ^a	1200	700	600	4	9	15	PI Sx	1.4 0.8	150
05	Sxw – Horsetail – Glow moss	PI ¹ Sw ^{1,32}		Act ^a At ^a	1000	500	400	4	9	15	PI Sx	1.0 0.6	150
06	Sxw – Horsetail – Meadowrue	PI Sw ³²		Act ^a At ^a	1000	500	400	4	9	15	PI Sx	1.0 0.6	150

* avoid logging

1 elevated microsites are preferred

9 restricted to southerly aspects

11 restricted to crest slope positions

18 restricted to eastern portion of biogeoclimatic unit in region

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

Δ See Interior Broadleaf guidelines on page 84 for stocking standard and free growing guidelines

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBSdw1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	SxwFd – Pinegrass	Fd PI Sx ²⁸		BI ^{28,53}	At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
02*	FdPI – Cladonia	Fd ²⁸ PI			At ^b	1000	500	400	7	12	15	PI Fd	1.4 1.0	150
03	Fd – Saskatoon – Pinegrass	Fd ²⁷ PI			At ^a	1200	700	600	7	12	15	PI Fd	2.0 1.4	150
04	PI – Pinegrass – Feathermoss	Fd ³² PI Sx ²⁸			At ^a Ep ^b	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
05	SxwFd – Ricegrass	Fd PI Sx			At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
06	SxwFd – Thimbleberry	Fd PI Sx	BI		Act ^a At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
07	Sxw – Twinberry – Coltsfoot	Fd ^{1,32} PI Sx	BI		Act ^a At ^a Ep ^b	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
08	Sxw – Twinberry – Oak fern	Fd ^{1,32} PI Sx	BI ³²		Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
09	Sxw – Horsetail – Glow moss	Sx ^{1,32}	BI ^{1,32} PI ¹		Act ^a	1000	500	400	4	9	15	PI Others	1.4 0.8	150

* avoid logging

1 elevated microsites are preferred

27 partial canopy cover required for successful establishment

28 limited by moisture deficit

32 limited by growing-season frosts

53 minor component

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

SBSdw2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	SxwFd – Pinegrass	Fd ³² PI Sx		At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
02*	FdPI – Cladonia	Fd ²⁸ PI			1000	500	400	7	12	15	PI Fd	1.4 1.0	150
03	PI – Kinnikinnick – Wavy-leaved moss	Fd ^{28,32} PI		At ^b	1200	700	600	7	12	15	PI Fd	2.0 1.4	150
04	Fd – Pinegrass – Aster	Fd ²⁷ PI		At ^b	1200	700	600	7	12	15	PI Fd	2.0 1.4	150
05	SxwFd – Cat’s-tail moss	Fd PI Sx		At ^a Ep ^{28,b}	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
06	PI – Pinegrass – Feathermoss	Fd ³² PI Sx ²⁸		At ^a Ep ^b	1200	700	600	7	12	15	PI Fd Sx	2.0 1.4 1.0	150
07	PI Sx – Feathermoss	PI Sx	Sb	At ^a	1200	700	600	7	12	15	PI Sx Sb	2.0 1.0 0.8	150
08	Sxw – Twinberry	Fd ^{1,32} PI Sx	BI	Act ^a At ^a Ep ^b	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
09	Sxw – Devil’s club – Knight’s plume	Fd PI Sx	BI	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
10	Sxw – Horsetail	Sx ^{1,32}	BI ^{1,32} PI ¹	Act ^a	1000	500	400	4	9	15	PI Others	1.4 0.8	150
11*	Sb – Soft-leaved sedge – Sphagnum	Sx ^{1,32}	PI ¹	Sb ¹	400	200	200	4	9	15	PI Others	1.4 0.8	150

* avoid logging

1 elevated microsites are preferred

27 partial canopy cover required for successful establishment

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBSmc1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Huckleberry	Fd ^{15,32} PI Sx ²⁸	BI ²⁸	Act ^b	1200	700	600	7	12	15	PI Fd Others	1.6 1.0 0.8	150
02*	PI – Cladonia – Haircap moss	PI		BI ²⁸ Sx ²⁸	1000	500	400	7	12	15	PI Others	1.2 0.6	150
03	Fd – Pinegrass – Aster	Fd PI		At ^b	1200	700	600	7	12	15	PI Fd	1.6 1.0	150
04	Sxw – Huckleberry – Labrador tea	PI Sx ³²	BI ³²		1200	700	600	7	12	15	PI Others	1.6 0.8	150
05	Sxw – Spirea – Glow moss	PI Sx ³²	BI ³²		1200	700	600	7	12	15	PI Others	1.6 0.8	150
06	Sxw – Oak fern	Fd ^{15,32} PI Sx	BI	Act ^a	1200	700	600	4	9	15	PI Fd Others	1.6 1.0 0.8	150
07	Sxw – Devil's club – Step moss	Fd ^{15,32} PI Sx	BI	Act ^a	1200	700	600	4	9	15	PI Fd Others	1.6 1.0 0.8	150
08	Sxw – Horsetail – Glow moss	Sx ^{1,32}	BI ^{1,32} PI ¹	Act ^b	1000	500	400	4	9	15	PI Others	1.2 0.6	150

* avoid logging

1 elevated microsites are preferred

15 restricted to northern portion of biogeoclimatic unit in region

28 limited by moisture deficit (on shallow, sandy soils for 01)

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability, and/or feasibility

SBSmc2 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Huckleberry	PI Sx	BI			1200	700	600	7	12	15	PI Others	1.6 0.8	150
02 PI – Huckleberry – Cladonia	PI			BI ²⁸ Sx ²⁸	1000	500	400	7	12	15	PI Others	1.2 0.6	150
03‡ SbPI – Feathermoss	PI	BI ²⁹ Sb Sx ³²		At ^b	1200	700	600	7	12	15	PI Others	1.6 0.8	150
04 Sxw – Huckleberry – Dwarf blueberry	PI Sx	BI			1200	700	600	4	9	15	PI Others	1.6 0.8	150
05‡ Sxw – Twinberry – Coltsfoot	PI Sx	BI ²⁹		Act ^a At ^a	1200	700	600	4	9	15	PI Others	1.6 0.8	150
06 Sxw – Oak fern	PI Sx	BI		Act ^b	1200	700	600	4	9	15	PI Others	1.6 0.8	150
07‡ Sxw – Scrub birch – Feathermoss	PI Sb Sx ³²			BI ⁵³ At ^b	1000	500	400	4	9	15	PI Others	1.2 0.6	150
08 Sxw – Twinberry – Oak fern	Sx	BI PI		Act ^b	1200	700	600	4	9	15	PI Others	1.6 0.8	150
09‡ Sxw – Devil's club	Sx	BI ²⁹ PI		Act ^b At ^a	1200	700	600	4	9	15	PI Others	1.6 0.8	150
10‡ Sxw – Horsetail	Sx ^{1,32}	BI ^{1,29,32} PI ¹		Act ^b At ^b	1000	500	400	4	9	15	PI Others	1.2 0.6	150
11 Sxw – Horsetail – Glow moss	Sx ^{1,32}	BI ^{1,32} PI ¹		Act ^b	1000	500	400	4	9	15	PI Others	1.2 0.6	150
12*‡ SbSxw – Scrub birch – Sedge	PI ¹ Sb ¹ Sx ^{1,32}				400	200	200	4	9	15	PI Others	1.2 0.6	150

* avoid logging
 ‡ not found in region
 1 elevated microsites are preferred
 28 limited by moisture deficit
 29 risk of heavy browsing by moose

32 limited by growing-season frosts
 53 minor component
 a productive, reliable, and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBSmh — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	SxwFd – Hazelnut	Fd Sx	BI ¹⁵	Act ^a At ^a Ep ^a	1200	700	600	7	12	15	Fd Others	1.4 1.0	150
02*	FdPI – Cladonia	Fd ²⁸ PI		At ^b Ep ^b	1000	500	400	7	12	15	PI Fd	1.4 1.0	150
03	FdPI – Velvet-leaved blueberry – Cladonia	Fd PI Sx ²⁸	BI ¹⁵	At ^a Ep ^b	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
04	Fd – Douglas maple – Step moss	Fd ²⁸		BI ^{15,28} Sx ²⁸ At ^a Ep ^a	1200	700	600	7	12	15	Fd Others	1.4 1.0	150
05	SxwFd – Feathermoss	Fd ³² Sx	BI ¹⁵	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	Fd Others	1.4 1.0	150
06	SxwFd – Coltsfoot	Fd ³² PI Sx	BI ¹⁵	Act ^a At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
07	SxwEp – Devil's club	Fd Sx	BI	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	Fd Others	1.4 1.0	150
08	Sxw – Ostrich fern	Fd Sx	BI ¹⁵	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	Fd Others	1.4 1.0	150
09	Sxw – Horsetail – Glow moss	Sx ^{1,32}	BI ¹	Act ^a	1000	500	400	4	9	15	All	0.8	150

* avoid logging

1 elevated microsites are preferred

15 restricted to northern portion of biogeoclimatic unit in region

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

SBSmm — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Falsebox – Knight's plume	PI Sx	BI ^{10,13} Fd ^{9,14,32}		Act ^b At ^a	1200	700	600	7	12	15	PI 2.0 Fd 1.4 Others 1.0	150
02	PI – Huckleberry – Cladonia	PI	Fd ^{9,13,32}	BI ^{10,13} Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI 1.4 Fd 1.0 Others 0.8	150
03	PI – Douglas-fir – Juniper	Fd ^{9,14,32} PI		BI ^{10,13} Sx ^{10,13}		1000	500	400	7	12	15	PI 1.4 Fd 1.0 Others 0.8	150
04	PI – Soopolallie – Pinegrass	PI	Fd ^{9,14,32}	BI ^{10,13} Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI 1.4 Fd 1.0 Others 0.8	150
05	Sxw – Soopolallie – Falsebox	PI	BI ^{10,13} Fd ^{9,14,32} Sx		At ^a	1200	700	600	7	12	15	PI 2.0 Fd 1.4 Others 1.0	150
06	Sxw – Huckleberry – Falsebox	PI Sx	BI ^{10,13} Fd ^{9,14,32}		At ^a	1200	700	600	7	12	15	PI 2.0 Fd 1.4 Others 1.0	150
07	Sxw – Oak fern	PI Sx	BI Fd ^{9,14,32}	Cw ³²	Act ^a At ^a	1200	700	600	4	9	15	PI 2.0 Fd 1.4 Others 1.0	150
08	Sxw – Horsetail	PI ¹ Sx ¹	BI ¹		Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI 1.4 Others 0.8	150
09	Sedge – Sphagnum	Non-forested											

1 elevated microsites are preferred
 9 restricted to southerly aspects
 10 restricted to northerly aspects
 13 restricted to upper elevations of biogeoclimatic unit
 14 restricted to lower elevations of biogeoclimatic unit

32 limited by growing-season frosts
 a productive, reliable, and feasible regeneration option
 b limited in productivity, reliability, and/or feasibility

Establishment to Free Growing Guidebook: Cariboo Forest Region

SBSmw — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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	SxwFd – Falsebox	Fd PI Sx	BI	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
02*	FdBI – Huckleberry	Fd PI		BI ²⁸ Sx ²⁸ At ^b Ep ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03	PI – Huckleberry – Velvet-leaved blueberry	Fd ³² PI		BI ³² Sx ³² At ^b	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
04	SxwFd – Knight's plume	Fd PI Sx ²⁸	BI ²⁸	At ^a Ep ^{9,a}	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150
05	Sxw – Pink spirea	PI Sx ³²	BI ³²	Act ^a At ^a	1200	700	600	4	9	15	PI Others	2.0 1.0	150
06	Sxw – Oak fern	Fd PI Sx	BI	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
07	Sxw – Twinberry – Oak fern	Sx ³²	BI ³² PI	Act ^a At ^b	1200	700	600	4	9	15	PI Others	2.0 1.0	150
08	Sxw – Devil's club	Fd ³² Sx	BI PI	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
09	Sxw – Horsetail	Sx ^{1,32}	BI ^{1,32} PI ¹	Act ^a	1000	500	400	4	9	15	PI Others	1.4 0.8	150
10*	SbSxw – Scrub birch – Sedge	PI ¹ Sx ^{1,32}		Sb	400	200	200	4	9	15	PI Others	1.4 0.8	150

* avoid logging
 1 elevated microsites are preferred
 9 restricted to southerly aspects
 28 limited by moisture deficit
 32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option (on south aspects only for Ep in 04)
 b limited in productivity, reliability and/or feasibility

SBSwk1 — Cariboo

Tree Species Selection and Free Growing Stocking Standard Guidelines

Site series	Conifer species			Broadleaf species ^Δ	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 – Oak fern	Fd ¹⁷ PI Sx	BI	Act ^b	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150	
02*	PI – Huckleberry – Cladina	Fd ¹⁷ PI		BI Sx	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150	
03	PI – Huckleberry – Velvet-leaved blueberry	Fd ^{4,17,32} PI		BI ³² Sx ³²	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150	
04	SxwFd – Knight's plume	Fd PI Sx ²⁸	BI ²⁸	At ^b Ep ^b	1200	700	600	7	12	15	PI Fd Others	2.0 1.4 1.0	150	
05	Sxw – Huckleberry – Highbush – cranberry	PI Sx	BI		1200	700	600	7	12	15	PI Others	2.0 1.0	150	
06	Sxw – Pink spirea – Oak fern	PI Sx ³²	BI ³²	Sb	Act ^b	1200	700	600	4	9	15	PI Others	2.0 1.0	150
07	Sxw – Twinberry – Oak fern	PI Sx ³²	BI ³²	Act ^a At ^{17,b} Ep ^{17,b}	1200	700	600	4	9	15	PI Others	2.0 1.0	150	
08	Sxw – Devil's club	Sx	BI PI	Act ^a At ^{17,b} Ep ^{17,b}	1200	700	600	4	9	15	PI Others	2.0 1.0	150	
09	Sxw – Horsetail	Sx ^{1,32}	BI ^{1,32} PI ¹	Act ^a	1000	500	400	4	9	15	PI Others	1.4 0.8	150	
11*	SbSxw – Scrub birch – Sedge	PI ¹ Sx ^{1,32}	Sb	BI ^{1,32}	400	200	200	4	9	15	PI Others	1.4 0.8	150	

* avoid logging
 1 elevated microsites are preferred
 4 restricted to medium-textured soils
 17 restricted to western portion of biogeoclimatic unit in region

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

Establishment to Free Growing Guidebook: Cariboo Forest Region

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		
600	1000	500	400	4	9	12	2	150
800 or 1000	1200	1000	800	4	9	12	2	150
1200	2000	1200	1000	4	9	12	2	150

* 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

Establishment to Free Growing Guidebook: Cariboo Forest Region

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‡ 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

* 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

* 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 ≥ 12.5 cm dbh; Layer 2 = pole layer = trees 7.5 cm to 12.4 cm dbh;

Layer 3 = sapling layer = trees ≥ 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