BGxh1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

						Stock	ing stan	dards	Regen	Asses	sment	Min. tree	% tree
			Conifer species		Broadleaf	(we	II-space	d/ha) +	delay	Early	Late	height	over
	Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
01	Big sage – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-		-
01-1	MS Big sage – Neddle- and-thread grass	non-forested				-	-	-	-	-	-		-
02	Antelope brush – Needle-and-thread grass	non-forested				-	-	-	-	-	-		-
03	Bluebunch wheatgrass – Selaginella	non-forested				-	-	-	-	-	-		-
04*	Py – Antelope brush – Red three-awn	Py ²⁷	Fd ²⁷			400	200	200	7	12	15		125
05*	Py – Sumac	Py ²⁷	Fd^{27}		Atb	400	200	200	7	12	15		125
06*	PyAct – Nootka rose – Poison ivy	Fd Py			Act ^a At ^a Ep ^b	600	400	400	7	12	15		125
07*	Act – Water birch	PI ^{1,23} Sx ¹	Fd ¹ Py ¹		Act ^a At ^a Ep ^b	1000	500	400	4	9	15		125
	void logging elevated microsites are pref	ferred	27 part	ricted to trial use ial canopy cover blishment		ccessful						ible regeneration	sibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards
 MSS – minimum stocking standards
 pa – preferred and acceptable
 p – preferred

BGxh2 —	Kam	loops
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Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan II-spaced		Regen delay	Asses Early	sment_ Late	Min. tree height	% tree
	Site series	Primary	Secondary	Tertiary	species [∆]		MSSpa		(yrs)	(yrs)	(yrs)	(m)	brush
01	Big sage – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-		
02	Bluebunch wheatgrass – Selaginella	non-forested				-	-	-	-	-	-		
03*	Py - Red three-awn		Py ²⁷			400	200	200	7	12	15		125
04*	Py – Bluebunch wheatgrass		Py ²⁷	Fd ²⁷		400	200	200	7	12	15		125
05	Big sage – Needle- and-thread grass	non-forested				-	-	-	-	-	-		
06	Rough fescue – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-		
07*	Act – Snowberry – Dogwood		Fd ¹ Py ¹	Sx ¹	Act ^a At ^a Ep ^b	400	200	200	4	9	15		125
80	Woolly sedge – Arctic rush	non-forested				-	-	-	-	-	-		

^A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

BGxw1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf	Stocking standards (well-spaced/ha) + TSSpa MSSpa MSSp			Regen delay	Asses Early	sment Late	Min. tree height	% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
01	Bluebunch wheatgrass – Junegrass	non-forested				-	-	-	-	-	-	-	
02	Bluebunch wheatgrass - Selaginella	non-forested				-	-	-	-	-	-	-	
03*	Py – Bluebunch wheatgrass		Py ²⁷	Fd ²⁷		400	200	200	7	12	15		125
04	Big sage – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-	-	
05*	Py – Rough fescue – Bluebunch wheatgrass		Py ²⁷	Fd ²⁷		400	200	200	7	12	15		125

Continued next page

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^{*} avoid logging

²⁷ partial canopy cover required for successful establishment

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

BGxw1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 —

			Conifer species		Broadleaf	Stocking standards f (well-spaced/ha) * TSSpa MSSpa MSSp		Regen delay	Asses Early	sment Late	Min. tree height		% tree over	
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
06	Rough fescue – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-	-	-	-
07	Giant wildrye	non-forested				-	-	-	-	-	-	-	-	-
80	At – Snowberry – Kentucky bluegrass			Fd ³²	At ^a	1200	700	600	4	9	15			125
09	Salt grass – Sedge	non-forested				-	-	-	-	-	-	-	-	-

³² limited by growing-season frosts a productive, reliable, and feasible regeneration option



A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

ESSFdc1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ding stan		Regen delay	Asses Early	sment Late	Min. t heig		% tree
	Site series	Primary	Secondary	Tertiary	species ²		MSSpa		(yrs)	(yrs)	(yrs)	(m)		brush
01	BI – Rhododendron Grouseberry	PI Se	ВІ			1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	PISe – Pinegrass	PI		BI ¹³ Se		1000	500	400	7	15	20	PI Others	1.2 0.6	125
03	BI – Grouseberry – Cladonia	PI		BI ¹³ Se		1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	BI – Rhododendron – Valerian	PI Se	ВІ			1200	700	600	4	12	20	PI Others	1.6 0.8	125
05	BI – Trapper's tea	PI Se	BI ^{10,13}			1000	500	400	7	15	20	PI Others	1.2 0.6	125
06	BI – Horsetail – Glow moss	PI ¹ Se ^{1,32}	BI ^{1,32}			1000	500	400	4	12	20	PI Others	1.2 0.6	125
07	Sedge – Sphagnum	non-forested				_	_	_	_	_	_	_	_	_

¹ elevated microsites are preferred10 restricted to northerly aspects

¹³ restricted to upper elevations of biogeoclimatic unit32 limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFdc2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species	S	Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	BI – Rhododendron – Grouseberry	PI Se	ВІ			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	BI – Grouseberry – Cladonia	PI		BI ¹³ Se		1000	500	400	7	15	20	PI Others	1.2 0.6	125
05	BI – Huckleberry – Feathermoss	PI Se	BI ^{10,13}			1000	500	400	7	15	20	PI Others	1.2 0.6	125
06	BI – Gooseberry – Oak fern	PI Se	ВІ			1200	700	600	4	12	20	PI Others	1.6 0.8	125

May 2001 ____

^{*} avoid logging 13 restricted to upper elevations of biogeoclimatic unit 17 restricted to western portion of biogeoclimatic unit 9 restricted to southerly aspects

⁵² restricted to sheltered microsites with deep soil

¹⁰ restricted to northerly aspects in region

Continued next page

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFdc2 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
07	BI – Rhododendron – Valerian	PI Se ³²	ВІ			1200	700	600	4	12	20	PI Others	1.6 0.8	125
80	BI – 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				_	_	_	_	_	_	_	_	_

¹ elevated microsites are preferred32 limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ding stan II-spaced		Regen delav	Asses Early	sment_ Late	Min. t		% tree over
	Site series	Primary	Secondary	Tertiary	species [△]		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)		brush
01	BI – Rhododendron – Heron's bill	PI Se	BI ¹³	Pa ^{9,13}		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02*	Pa – Junegrass	PI		BI Pa ^{9,13} Se	At ^b	400	200	200	4	9	15	PI Others	1.2 0.6	125
03	BI Pa – Juniper	PI		BI Pa ^{9,13} Se		1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	BI – Huckleberrry – Brachythecium	PI Se	BI ^{10,13}	Pa ^{9,13}		1000	500	400	7	15	20	PI Others	1.2 0.6	125
05	BI – Valerian – Arnica	PI Se ³²	BI ³²	Pa ^{9,13}		1200	700	600	4	12	20	PI Others	1.6 0.8	125
06	BI – Horsetail – Glow moss	PI ¹ Se ^{1,32}	BI ^{1,32}	Pa ^{9,13}		1000	500	400	4	12	20	PI Others	1.2 0.6	125

^{*} avoid logging
1 elevated microsites are preferred

¹⁰ restricted to northerly aspects

b limited in productivity, reliability and/or feasibility

⁹ restricted to southerly aspects

¹³ restricted to upper elevations of biogeoclimatic unit 32 limited by growing-season frosts

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See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFmw — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species	S	Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species ^Δ	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
01	BIBa – Rhododendron	Se	Ba ¹⁷ BI ¹³	PI ³⁴		1200	700	600	4	12	20	PI Others	2.0 1.0	125
02	BIPI – Juniper – Rhacomitrium	PI	Fd ^{9,14} Se ^{10,13}	BI ^{10,13} Pa ^{9,13,18}		1000	500	400	7	15	20	PI Others	1.4 0.8	125
03	FdBl – Falsebox – Pinegrass	PI	Fd ^{9,14} Se	BI ¹³ Pa ^{9,13,18}		1000	500	400	7	15	20	PI Others	1.4 0.8	125
04	BI – Huckleberry – Falsebox	PI ³⁴ Se	Ba ¹⁷ BI ^{10,13} Fd ^{9,14,34}			1200	700	600	7	15	20	PI Others	2.0 1.0	125
05	BIBa – Azalea – Pipecleaner moss	BI ¹³ Se	Ba ¹⁷	PI ³⁴		1200	700	600	4	12	20	PI Others	2.0 1.0	125
06	BI – Gooseberry – Valerian	BI Se	Ba ¹⁷	PI ³⁴		1200	700	600	4	12	20	PI Others	2.0 1.0	125

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

¹⁷ restricted to western portion of biogeoclimatic unit in region

¹⁸ restricted to eastern portion of biogeoclimatic unit in region

Continued next page 34 risk of snow damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFmw — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

		Conifer species Te series Primary Secondary Tertiary			Broadleaf		ing stan II-spaced		Regen delay	Asses Early	sment Late	Min. t heigl		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
07	BIBa – Oak fern – Lady fern	Ba ¹⁷ BI Se	PI ³⁴	Cw ^{14,32} Hw ^{14,32}		1000	500	400	4	12	20	PI Others	1.4 0.8	125
80	BI – Gooseberry – Horsetail	BI ¹ Se ¹	PI ^{1,34}	Ba ¹⁷		1000	500	400	4	12	20	PI Others	1.4 0.8	125

¹ elevated microsites are preferred

¹⁴ restricted to lower elevations of biogeoclimatic unit

¹⁷ restricted to western portion of biogeoclimatic unit in region

³² limited by growing-season frosts

³⁴ risk of snow damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

${\sf ESSFvc--Kamloops}$

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	BIHm – Rhododendron – Oak fern	BI Se		Hm		1200	700	600	4	12	20	AII	8.0	125
02	BIHm – Rhododendron – Leafy liverwort	Se	ВІ	Hm Pl ^{23,34}		1000	500	400	7	15	20	PI Others	1.2 0.6	125
03	BIHm – Rhododendron – Pipecleaner moss	BI Se		Hm		1000	500	400	7	15	20	AII	0.6	125
04	BIHm – Devil's club – Lady fern	BI Se		Hm		1200	700	600	4	12	20	AII	8.0	125
05	BIHm – Horsetail	${\rm BI}^{1,32}~{\rm Se}^{1,32}$		Hm ¹		1000	500	400	4	12	20	All	0.6	125
06	Sedge - Sphagnum	non-forested				_	_	_	_	_	_	_	_	_

¹ elevated microsites are preferred

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

²³ restricted to trial use

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFvv — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 ===

			Conifer species		Broadleaf		ing stan II-space		Regen delay	Asses	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	BI – Rhododendron – Foamflower	BI ³² Se ³²		Hm ¹⁶		1200	700	600	4	12	20	AII	0.8	125
02	Bl – Huckleberry – Mountain liverwort	BI ³² Se ³²		Hm ¹⁶ Pl ³⁴		600	400	400	7	15	20	PI Others	1.2 0.6	125
03	BIHm – Rhododendron – Leafy liverwort	BI ³² Se ³²		Hm ¹⁶		1000	500	400	7	15	20	AII	0.6	125
04	BI – Valerian – Groundsel	BI ³² Se ³²		Hm ¹⁶		600	400	400	4	12	20	All	0.6	125
05	Mountain-heather – Alpine sedge	non-forested				-	-	-	-	-	-	-	-	-

¹⁶ restricted to southern portion of biogeoclimatic unit in region

³² limited by growing-season frosts

³⁴ risk of snow damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFwc1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. tree height	% tree
	Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
01	BI – Rhododendron – Oak fern	BI Se	PI ³⁴	Cw ^{9,32} Hw ^{9,32}		1200	700	600	4	12	20	PI 1.6 Others 0.8	
02	Bl – Falsebox – Grouseberry	PI Se		BI Pa		1000	500	400	7	15	20	PI 1.2 Others 0.6	
03	Bl – Devil's club – Lady fern	BI Se		Cw ^{9,32} Hw ^{9,32} Pl ³⁴		1200	700	600	4	12	20	PI 1.6125 Others 0.8	
04	Bl – Horsetail – Brachythecium	BI ^{1,32} Se ^{1,32}	PI ^{1,34}	Hw ³²		1200	700	600	4	12	20	PI 1.6 Others 0.8	
05	Sedge – Sphagnum	non-forested				-	_	-	_	_	_		_

¹ elevated microsites are preferred

⁹ restricted to southerly aspects

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFwc2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species [∆]		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)		brush
01	BI – Azalea – Oak fern	BI Se		PI ^{17,34}		1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	PI – Huckleberry – Cladonia	PI ¹⁷	BI ^{10,13,14} Se ^{10,13}			1000	500	400	7	15	20	PI Others	1.2 0.6	125
03	BI – Huckleberry – Arnica	Se	BI ^{10,13,14} PI ^{17,34}			1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	BI – Rhododendron – Heron's bill	BI Se	PI ^{17,34}			1200	700	600	7	15	20	PI Others	1.6 0.8	125
05	BI – Azalea – Feathermoss	BI Se		PI ^{23,34}		1200	700	600	7	15	20	PI Others	1.6 0.8	125
06	BI – Valerian – Oak fern	BI ³² Se ³²		PI ^{23,34}		1200	700	600	4	12	20	PI Others	1.6 0.8	125

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¹⁰ restricted to northerly aspects

¹⁷ restricted to western portion of biogeoclimatic unit in region

³² limited by growing-season frosts

¹³ restricted to upper elevations of biogeoclimatic unit 14 restricted to lower elevations of biogeoclimatic unit

²³ restricted to trial use

³⁴ risk of snow damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFwc2 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species∆		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)		brush
07	BI – Devil's club – Lady fern	BI Se		Pl ^{23,34}		1200	700	600	4	12	20	PI Others	1.6 0.8	125
80	BI – Horsetail – Sphagnum	BI ^{1,32} Se ^{1,32}		PI ^{23,34}		1000	500	400	4	12	20	PI Others	1.2 0.6	125
09*	PI – Dwarf blueberry – Sphagnum	Pl ¹	BI ^{1,32} Se ^{1,32}			400	200	200	4	12	20	PI Others	1.2 0.6	125
10	Sedge – Sphagnum	non-forested				_	_	_	_	_	_	_	_	_

^{*} avoid logging

¹ elevated microsites are preferred

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

²³ restricted to trial use

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFwc4 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

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							ing stan		Regen	Asses		Min. t		% tree
	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species [∆]		II-spaced MSSpa	<u> </u>	delay (yrs)	Early (yrs)	Late (yrs)	heig (m)		over brush
01	BI – Rhododendron – Oak fern	BI Se	Pl ³⁴			1200	700	600	4	12	20	PI Others	1.6 0.8	125
02	BI – Rhododendron – Falsebox	Se	PI ³⁴	BI Pa		1000	500	400	7	15	20	PI Others	1.2 0.6	125
03	BI – Rhododendron – Woodrush	Se	BI PI ³⁴			1000	500	400	7	15	20	PI Others	1.2 0.6	125
04	BI – Rhododendron – Foamflower	Se	BI PI ³⁴			1200	700	600	7	15	20	PI Others	1.6 0.8	125
05	BI – Rhododendron – Lady fern	BI Se				1200	700	600	4	12	20	AII	8.0	125
06	BI – Horsetail – Brachythecium	BI ^{1,32} Se ^{1,32}				1200	700	600	4	12	20	AII	0.8	125
07	BI – Sedge – Sphagnum	Se ¹	BI ¹ PI ^{1,34}			1000	500	400	4	12	20	PI Others	1.2 0.6	125
80	Willow - Sedge	non-forested				-	-	-	-	-	-	-	-	-
1	elevated microsites are prefe	erred	32 limi	ted by growing	-season frosts	3		34	risk of s	now dam	age			

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFxc — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ding stan		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species∆		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)		brush
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

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³² limited by growing-season frosts

¹⁰ restricted to northerly aspects
13 restricted to upper elevations of biogeoclimatic unit

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ESSFxc —	Kamlo	oops (continued)
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Tree Species Selection and Free Growing Stocking Standard Guidelines

						Stock	cing stan	dards	Regen	Asses	sment	Min. t	ree	% tree
			Conifer species		Broadleaf	(we	II-space	i/ha) †	delay	Early	Late	heigl	ht	over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
80	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				-	-	-	-	-	_	-	-	-

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmk1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

		(Conifer species		Broadleaf		king stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species ⁴		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)		brush
01	CwSxw – Falsebox	Fd ^{9,14,32} Lw ^{9,14,32} PI Sx ^{10,13}	BI ^{10,13}	Cw ^{10,13,32}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 1.0	150
01-	YS CwSxw – Aspen	BI ^{10,13} Fd ^{9,14,32} Lw ^{9,14,32} PI Sx ^{10,13}		Cw ^{10,13,32}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 1.0	150
02	Fd – Penstemon – Pinegrass	Fd PI		BI ^{10,13} Sx ^{10,13}		600	400	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03	FdPl – Pinegrass – Twinflower	Fd Lw Pl	Sx ^{10,13}	BI ^{10,13} Cw ^{10,13}	At ^a Ep ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.4 1.0 0.8	150
04	FdPl – Sitka alder – Pinegrass	Fd ³² Lw ³² PI	BI ^{10,13} Sx ^{10,13}	Cw ^{10,13,32}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 1.0	150
10	on south aspects (SSE to on north aspects (NW to in upper elevations of bio	ENE)	32 ris	lower elevations k of frost damage oductive, reliable,	9		ion option	b	limited i	n produc	tivity, reli	ability and		asibility next page

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmk1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan II-space		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
05	Sxw – Gooseberry – Sarsaparilla	PI Sx	BI Fd ^{9,14,32} Lw ^{9,14,32}	Cw ³²	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	2.0 1.4 0.8	150
06	Sxw – Oak fern	PI Sx	BI Fd ^{9,14,32} Lw ^{9,14,32}	Cw ³²	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	2.0 1.4 0.8	150
07	Sxw – Horsetail	PI ¹ Sx ¹ Lw ^{1,32}	BI ¹ Fd ^{1,32}	Cw ³²	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI, Lw Fd Others	1.4 1.0 0.8	150
08	Sedae – Cinauefoil	non-forested				_	_	_	_	_	_	_	_	_

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¹ elevated microsites are preferred 9 restricted to southerly aspects

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmk2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf			Regen delay	Asses Early	sment Late	Min. t heig		% tree over	
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	CwSxw – Falsebox – Knight's plume	Fd ^{9,14,32} PI Sx	BI ^{10,13}	Cw Lw ^{9,14,23,32}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Sx Others	2.0 1.4 0.8 1.0	150
02	Fd – Juniper – Pinegrass	Fd Pl		BI ^{10,13} Sx ^{10,13}	At ^b Ep ^b	600	400	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
03	Fd – Falsebox – Pinegrass	Fd Pl	Sx ^{10,13}	BI ^{10,13} Cw ^{10,13}	At ^a Ep ^b	1000	500	400	7	12	15	PI Fd Others	1.4 1.0 0.8	150
04	CwSxw – Douglas maple – Fairybells	Fd PI	BI ^{10,13} Sx	Cw ^{10,13} Lw ^{9,14,23,32}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Sx Others	2.0 1.4 0.8 1.0	150

⁹ restricted to southerly aspects 10 restricted to northerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

productive, reliable, and feasible regeneration option

¹³ restricted to upper elevations of biogeoclimatic unit

²³ restricted to trial use 32 limited by growing-season frosts

b limited in productivity, reliability and/or feasibility Continued next page

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmk2 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

	Cita savisa Primas		Conifer species		Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
05	CwSxw – Oak fern – Bunchberry	Fd ^{9,14,32} PI Sx	BI ¹³	Cw ³²	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI Fd Others	2.0 1.4 1.0	150
06	Sxw – Horsetail	PI ¹ Sx ¹	BI ¹ Fd ^{1,32}	Cw ³²	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI Fd Others	1.4 1.0 0.8	150

May 2001 ===

¹ elevated microsites are preferred

¹⁴ restricted to lower elevations of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

⁹ restricted to southerly aspects

¹³ restricted to upper elevations of biogeoclimatic unit

³² limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmw2 —	Kamloops
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Tree Species Selection and Free Growing Stocking Standard Guidelines

Continued next page
May 2001

		Conifer s	Canifer anasias		Dunadlant		cing stan		Regen		sment	Min. tı		% tree
	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species [△]		II-space MSSpa	<u> </u>	delay (yrs)	Early (yrs)	Late (yrs)	heigl (m)		over brush
01	HwCw – Falsebox – Feathermoss	Fd Lw	PI ⁵¹	BI ^{10,13} Cw Hw Pw ³¹ Py ^{9,14,23} Sx ^{10,13}	Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
01	-YS CwFd – Feathermoss	Fd Lw	Cw ^{10,13} Hw ^{10,13} Pl ⁵¹ Sx ^{10,13}	BI Pw ³¹	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
02	FdCw – Falsebox – Prince's pine	Fd Lw Pl ⁵¹		BI ^{10,13} Cw Hw Pw ³¹ Py ^{9,14,23} Sx	At ^a Ep ^a	1200	700	600	7	12	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
03	CwFd – Falsebox	Fd Lw Pl ⁵¹	Sx ^{10,13}	BI ^{10,13} Cw Hw Pw ³¹ Py ^{9,14,23}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmw2 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Broadleaf		king stan II-space		Regen delay	Asses Early	sment Late	Min. t heig		% tree		
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
04	CwHw – Oak fern – Foamflower	Cw Fd ^{9,14} Hw Lw ^{9,14} Sx	BI PI ⁵¹ Py ^{9,14,23}	Pw ³¹	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
05	CwHw – Devil's club – Lady fern	Cw ³² Sx	BI Fd ^{1,32} Hw ³² Lw ^{1,32} PI ⁵¹	Pw ³¹	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
06	CwHw – Horsetail	Cw ^{1,32} Sx ¹	BI ¹ Hw ^{1,32} PI ^{1,51}	Pw ³¹	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI, Pw Others	1.4 0.8	150
07	CwSxw – Skunk cabbage	e Cw ^{1,32} PI ^{1,51} Sx ¹	BI ¹ Hw ^{1,32}		Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI Others	1.4 0.8	150
80	Bluejoint – Glow moss	non-forested				-	-	-	-	-	-	-	-	-

¹ elevated microsites are preferred

²³ restricted to trial use

⁵¹ restricted to areas with proven PI performance

⁹ restricted to southerly aspects

³¹ risk of white pine blister rust

a productive, reliable, and feasible regeneration option

¹⁴ restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmw3 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan II-space		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	HwCw – Falsebox – Feathermoss	Fd	PI ⁵¹ Sx ^{10,13}	BI ^{10,13} CW ^{10,13} HW ^{10,13} LW ^{23,32} PW ³¹	Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
01-	YC HwCw – Feathermoss	Fd	Cw ^{10,13} Hw ^{10,13} Pl ⁵¹ Sx ^{10,13}	BI ^{10,13} Lw ^{23,32} Pw ³¹	Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
02	Fd – Juniper – Cladina	Fd Pl	Py ^{9,14,23,32}	Cw ^{10,13} Pw ³¹	Epb	1000	500	400	7	12	15	PI, Pw Fd Others	1.4 1.0 0.8	150

9 restricted to southerly aspects

10 restricted to northerly aspects

14 restricted to lower elevations of biogeoclimatic unit

13 restricted to upper elevations of biogeoclimatic unit

23 restricted to trial use

31 risk of white pine blister rust

32 limited by growing-season frosts

51 restricted to areas with proven PI performance

a productive, reliable, and feasible regeneration option

b limited in productivity, reliability and/or feasibility

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See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmw3 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species ^a	(we	ring stan II-spacer MSSpa	d/ha) †	Regen delay (yrs)	Asses Early (yrs)	sment Late (yrs)	Min. tı heigl (m)		% tree over brush
03	FdPI – Pinegrass – Feathermoss	Fd ³² PI	Cossinuary	BI ^{10,13} Cw ^{10,13} Hw Lw ^{23,32} Pw ³¹ Sx ^{10,13}	At ^{53,a} Ep ^{53,a}	1000	500	400	7	12	15	PI, Pw Lw Fd Others	1.4 1.4 1.0 0.8	150
04	CwFd – Soopolallie – Twinflower	Fd Pl ⁵¹		BI Cw ^{10,13} Hw ^{10,13} Lw ^{23,32} Pw ³¹ Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
05	CwFd – Falsebox	Fd	BI ^{10,13} Cw ^{10,13} PI ⁵¹ Sx ^{10,13}	Hw ^{10,13} Lw ^{23,32} Pw ³¹	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150

Continued next page May 2001 ____

¹⁰ restricted to northerly aspects

³¹ risk of white pine blister rust

⁵³ minor component

¹³ restricted to upper 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

²³ restricted to trial use 51 restricted to areas with proven PI performance

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHmw3 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

	Site series		Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
06	CwHw – Oak fern	Cw Fd ¹⁴ Hw Sx	BI ^{10,13} PI ⁵¹	Lw ²³ Pw ³¹	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
07	CwHw – Devil's club – Lady fern	Cw ³² Sx	BI Fd ^{1,32} Hw ³² PI ⁵¹	Lw ^{1,23,32} Pw ³¹	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
80	CwSxw – Skunk cabbage	Cw ^{1,32} Hw ^{1,32} Pl ^{1,51} Sx ¹	BI ¹	Pw ³¹	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

23 restricted to trial use

51 restricted to areas with proven PI performance

10 restricted to northerly aspects

31 risk of white pine blister rust

a productive, reliable, and feasible regeneration option

13 restricted to upper elevations of biogeoclimatic unit 14 restricted to lower elevations of biogeoclimatic unit 32 limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable

ICHvk1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species [△]	(we	king stan II-space MSSpa	d/ha) †	Regen delay	Asses Early	Late	Min. tr heigh		% tree over brush
_	Site series	Fillialy	Secondary	Ternary	sheries	гоора	тоора	wooh	(yrs)	(yrs)	(yrs)	(m)		มเนอแ
01	CwHw – Devil's club – Lady fern	Cw ³² Sx	BI ¹³ Fd ^{1,9,14,32,34} Hw ³²	Pw ³¹	Act ^a At ^{53,a} Ep ^{53,a}	1200	700	600	4	9	15	Pw Fd Others	2.0 1.4 1.0	150
02	HwCw – Falsebox – Feathermoss	Fd ⁹	BI Cw Hw Sx	L _W 9,14,23 PI ^{23,34,51} P _W ³¹	Act ^b At ^{53,a} Ep ^{53,a}	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
03	CwHw – Oak fern – Foamflower	Cw Fd ^{9,14,34} Hw Sx	BI ^{10,13}	Lw ^{9,14,23} Pw ³¹		1200	700	600	4	9	15	Pw, Lw Fd Others	2.0 1.4 1.0	150

53 minor component

31 risk of white pine blister rust 32 limited by growing-season frosts a productive, reliable, and feasible regeneration option

34 risk of snow damage

b limited in productivity, reliability and/or feasibility

51 restricted to areas with proven PI performance

Continued next page May 2001 ____

¹ elevated microsites are preferred

²³ restricted to trial use

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHvk1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. tree height	% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
04	CwHw – Oak fern Spiny wood fern	Cw Fd ^{9,14} Hw Sx	BI ¹³	Lw ^{9,14,23} Pw ³¹	Act ^a At ^{53,a} Ep ^{53,a}	1200	700	600	4	9	15	Pw, Lw 2.1 Fd 1.4 Others 1.4	1
05	CwSxw – Devil's club – Horsetail	Cw ^{1,32} Sx ¹	BI ¹ Hw ^{1,32}	Pw ^{1,31}	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	Pw 1.4 Others 0.5	
06	CwSxw – Skunk cabbage	Cw ^{1,32} Hw ^{1,32} Sx ¹	BI ¹	Pl ^{23,34,51} Pw ^{1,31}	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI 1.4 Others 0.5	

1 elevated microsites are preferred

23 restricted to trial use

51 restricted to areas with proven PI performance

9 restricted to southerly aspects

31 risk of white pine blister rust

53 minor component

13 restricted to upper elevations of biogeoclimatic unit

32 limited by growing-season frosts

a productive, reliable, and feasible regeneration option

14 restricted to lower elevations of biogeoclimatic unit

34 risk of snow damage

b limited in productivity, reliability and/or feasibility

minited in productivity, renability and/or reasibility

May 2001 ____

 $^{^{\}scriptscriptstyle \Delta}$ See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

ICHwk1 –	- Kamloops
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Tree Species Selection and Free Growing Stocking Standard Guidelines

	Conifer sp				Broadleaf		ing stan II-spaced		Regen delay	Asses Early	sment Late	Min. ti heigl		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	1	brush
01	CwHw – Oak fern	Cw Fd ^{9,14} Hw Sx	BI ^{10,13}	L _W 9,14,23,32 Pl ^{23,34,51} P _W 31	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd Others	2.0 2.0 1.4 1.0	150
02	PIHw – Velvet-leaved blueberry	Fd Pl ⁵¹		BI ^{10,13} Cw ^{10,13} Hw ^{10,13} Pw ³¹ Sx ^{10,13}		1000	500	400	7	12	15	PI, Pw Fd Others	1.4 1.0 0.8	150
03	HwCw – Step moss	Fd	Cw ^{10,13} Hw ^{10,13} Pl ^{23,34,51}	BI ^{10,13} Lw ^{9,14,23,32} Pw ³¹ Sx ^{10,13}		1200	700	600	4	9	15	PI, Lw Fd Others	2.0 1.4 1.0	150
04	HwCw – Falsebox – Feathermoss	Fd ^{9,14}	Cw Hw Sx ^{10,13}	BI ^{10,13} Lw ^{9,14,23,32} PI ^{23,34,51} Pw ³¹	Act ^b At ^a Ep ^a	1200	700	600	4	9	15	PI, Pw Lw Fd	2.0 2.0 1.4	150

Continued next page

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⁹ restricted to southerly aspects

²³ restricted to trial use

⁵¹ restricted to areas with proven PI performance

¹⁰ restricted to northerly aspects

³¹ risk of white pine blister rust

a productive, reliable, and feasible regeneration option

¹³ restricted to upper elevations of biogeoclimatic unit 14 restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

³⁴ risk of snow damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

ICHwk1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan II-spaced		Regen delay	Asses Early	sment Late	Min. t		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
05	CwHw – Devil's club – Lady fern	Cw ³² Sx	BI Fd ^{1,14,32} Hw ³² Lw ^{1,9,14,23,32}	PI ^{23,34,51} Pw ³¹	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	Others PI, Pw Lw Fd Others	1.0 2.0 2.0 1.4 1.0	150
06	CwSxw – Devil's club – Horsetail	Cw ^{1,32} Sx ¹	BI ¹ Hw ^{1,32}	PI ^{1, 23,34,51} Pw ^{1,31}	Act ^a At ^b Ep ^a	1000	500	400	4	9	15	PI, Pw Others	1.4 0.8	150
07	CwSxw – Skunk cabbage	Cw ^{1,32} Hw ^{1,32} Sx ¹	BI ¹	PI23,34,51	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI Others	1.4 0.8	150
08	Sedge – Sphagnum	non-forested				_	_	_	_	_	_	_	_	_

¹ elevated microsites are preferred

³¹ risk of white pine blister rust

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

⁹ restricted to southerly aspects 14 restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

³⁴ risk of snow damage

²³ restricted to trial use

⁵¹ restricted to areas with proven PI performance

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk1	— Kam	loops
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Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species			(we	king standards ell-spaced/ha) †		Regen delay	Assessment Early Late		Min. tree height		% tree over
_	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
01	FdPI – Pinegrass – Feathermoss	Fd ³² PI	Py ^{9,14}	Lw ^{9,14,23,32} 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 Py ^{9,14}			At ^b	600	400	400	7	12	15	PI Fd Py	1.0 0.8 0.6	125
03	Fd – Juniper – Pinegrass	Fd Pl	Py ^{9,14,23}		At ^b	600	400	400	7	12	15	PI Fd Py	1.0 0.8 0.6	125
04	Fd – Pinegrass – Yarrow	Fd Pl	Py ^{9,14}	Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI Fd Others	1.0 0.8 0.6	125

⁹ restricted to southerly aspects

Continued next page May 2001 ____

²³ restricted to trial use

productive, reliable, and feasible regeneration option

¹⁰ restricted to northerly aspects

²⁷ partial canopy cover required for successful establishment

b limited in productivity, reliability and/or feasibility

¹³ restricted to upper elevations of biogeoclimatic unit 14 restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

		Conifer species			Broadleaf	Stocking standards (well-spaced/ha) +		Regen delay	Assessment Early Late		Min. tree height		% tree over	
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
05	SxwFd – Gooseberry – Feathermoss	Fd ^{9,14,32} Sx	BI ^{10,13} PI	Lw ^{9,14,23,32}	Act ^a At ^a Ep ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.0 0.8 0.6	125
06	Sxw – Horsetail	PI ¹ Sx ¹	Fd ^{1,32}	BI ¹	Act ^a At ^b 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

¹⁴ restricted to lower elevations of biogeoclimatic unit

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

⁹ restricted to southerly aspects 10 restricted to northerly aspects

²³ restricted to trial use

³² limited by growing-season frosts

¹³ restricted to upper elevations of biogeoclimatic unit

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk1a — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 —

			Conifer species		Broadleaf	Stocking standards (well-spaced/ha) +		Regen delay	Assessment Early Late		_ Min. tree height		% tree over	
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(1	m)	brush
91	Fescue – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-	-	-	-
92	Bluebunch wheatgrass – Junegrass	non-forested				-	-	-	-	-	-	-	-	-
93	Spreading needlegrass	non-forested				-	-	-	-	-	-	-	-	-
94	At – Snowberry – Kentucky bluegrass		Fd ³²	PI	Ata	1200	700	600	4	9	15	Fd Pl	1.0 1.4	125

³² limited by growing-season frosts a productive, reliable, and feasible regeneration option

A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

IDFdk2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

		Conifer species			Broadleaf	Stocking st Broadleaf (well-spa			Regen delay	Asses Early	sment Late	Min. tree height		% tree over
	Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
01	FdPI – Pinegrass – Feathermoss	Fd ³² PI	Py ^{9,14}	Lw ^{23,32} Sx ^{10,13}	At ^a	1000	500	400	7	12	15	PI, Lw Fd Sx Py	1.0 0.8 0.6 0.6	125
02	FdPy – Bluebunch wheatgrass – Pinegrass	Fd ²⁷ Py ¹⁴			At ^b	600	400	400	7	12	15	Fd Py	0.8 0.6	125
03	FdPy – Pinegrass	Fd ²⁷ PI	Py ¹⁴		At ^b	1000	500	400	7	12	15	PI Fd Py	1.0 0.8 0.6	125
04	Fd – Feathermoss	Fd ³² PI	Py ^{9,14} Sx ^{10,13}	Lw ^{23,32}	At ^a	1200	700	600	7	12	15	PI, Lw Fd	1.4	125

9 restricted to southerly aspects

23 restricted to trial use

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

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See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk2 —	Kamloo	ops (continued)
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Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species E		Broadleaf	Stocking standards (well-spaced/ha) +		Regen delay	Asses Early	sment Late	Min. tree height		% tree over	
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
												Ру	0.8	
05	SxwFd – Dogwood – Gooseberry	Fd ³² Sx	PI	BI ^{10,13} Cw ³² Lw ^{23,32}	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	1.4 1.0 0.8	125
06	Sxw – Horsetail	PI ¹ Sx ¹	Fd ^{1,32}	BI ¹	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	PI Fd Others	1.0 0.8 0.6	125
07	CwSxw – Twinberry Soft-leaved sedge	PI ¹ Sx ¹		BI Cw ³²	Act ^a At ^a Ep ^a	1000	500	400	4	9	15	PI Others	1.0 0.6	125
08	Willow - Sedge	non-forested				_	_	_	_	_	_	_	_	_

¹ elevated microsites are preferred

¹⁰ restricted to northerly aspects

²³ restricted to trial use

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

¹³ restricted to upper elevations of biogeoclimatic unit

³² limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk3 — Kamloops

							ing stan		Regen		sment	Min. t		% tree
	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species [△]		II-spaced MSSpa		delay (yrs)	Early (yrs)	Late (yrs)	heigl (m)		over brush
01	FdPl – Pinegrass – Feathermoss	Fd ^{27,32} PI	•	Sx ^{13,28}	At ^a	1200	700	600	7	12	15 Fd Sx	PI 1.0 0.8	1.4	125
02*	Fd – Juniper – Kinnikinnick	Fd ²⁷ PI				1000	500	400	7	12	15 Fd	PI 0.8	1.0	125
03*	Fd – Juniper – Peltigera	Fd ²⁷ PI				600	400	400	7	12	15 Fd	PI 0.8	1.0	125
04	Fd – Bluebunch wheatgrass – Needlegrass	Fd ²⁷ PI			At ^b	1200	700	600	7	12	15 Fd	PI 1.0	1.4	125
05	Fd – Feathermoss – Step moss	Fd ²⁷ PI			At ^b	1200	700	600	7	12	15 Fd	PI 1.0	1.4	125
06	Fd - Pinegrass -	Fd ²⁷ PI			At^b	1200	700	600	7	12	15	PI	1.4	125

^{*} avoid logging

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Continued next page May 2001

Fd 1.0

²⁸ limited by moisture deficit

¹³ restricted to upper 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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdk3 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 ===

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. tr heigh		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
07	SxwFd – Prickly rose – Sedge	Fd ³² PI Sx			At ^a Ep ^b	1000	500	400	4	9	15 Fd Sx	PI 0.8 0.6	1.0	125
80	SxwFd – Prickly rose – Sarsaparilla	Fd ³² PI Sx			Act ^a At ^a Ep ^b	1000	500	400	4	9	15 Fd Sx	PI 0.8 0.6	1.0	125
09	Sxw – Horsetail – Glow moss	Sx ^{1,32}	Pl ¹		Acta	1000	500	400	4	9	15 Sx	PI 0.6	1.0	125

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

			Conifer speci	es	Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	FdPI – Pinegrass – Twinflower	Fd ³² Lw ³² PI	Py ^{9,14}	BI ^{10,13} Sx ^{10,13}	At ^a Ep ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.0 0.8 0.6	125
02	Bluebunch wheatgrass – Junegrass	non-forested				-	-	-	-	-	-	-	-	-
03	FdPy – Bluebunch wheatgrass – Pinegrass	Fd ²⁷ Py ¹⁴		PI	At ^b	600	400	400	7	12	15	PI Fd Py	1.0 0.8 0.6	125
04	Fd – Pinegrass – Kinnikinnick	Fd ³² Lw ³² Pl Py ^{9,14}		Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.0 0.8 0.6	125
05	FdLw - Spruce - Pinegrass	Fd ³² Lw ³² PI	Sx ^{10,13}	BI ^{10,13} Cw ³² Py ^{9,14}	At ^a Ep ^{53,a}	1200	700	600	7	12	15	PI, Lw Fd Others	1.4 1.0 0.8	125

Continued next page May 2001 ____

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFdm1 —	· Kamloop:	S (continued)
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Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 ____

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. tı heigl		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
06	SxwFd – Dogwood – Gooseberry	Fd ³² Lw ³² Sx	PI	BI Cw ³²	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	1.4 1.0 0.8	125
07	Sxw – Horsetail	PI ¹ Sx ¹	Fd ^{1,32} Lw ^{1,32}	BI ¹	Act ^a At ^a Ep ^b	1000	500	400	4	9	15	PI, Lw Fd Others	1.0 0.8 0.6	125

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFmw1 — Kamloops

						Stock	cing stan	dards	Regen	Asses	sment	Min. t	ree	% tree
	Site series	Primary	Conifer species Secondary	S Tertiary	Broadleaf species [△]		II-space MSSpa		delay (yrs)	Early (yrs)	Late (yrs)	heig (m)		over brush
01	FdCw – Falsebox – Prince's pine	Fd Lw	PI Py ^{9,14}	Cw ^{10,13} Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
01-	YC CwFd – Feathermoss	Fd Lw PI	Py ^{9,14}	Cw ^{10,13} Sx ^{10,13}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
02	FdPy – Snowberry – Bluebunch wheatgrass	Fd ²⁷ Py		PI		600	400	400	7	12	15	PI Fd Py	1.2 0.8 0.6	125
03	Fd – Penstemon – Pinegrass	Fd ²⁷ Py ^{9,14}	PI	Lw ^{10,13}	At ^b Ep ^b	600	400	400	7	12	15	PI, Lw Fd Py	1.2 0.8 0.6	125
04	Fd – Pinegrass – Feathermoss	Fd Lw PI	Py ^{9,14,16}	Cw ^{10,13} Sx ^{10,13}	At ^b Ep ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.2 0.8 0.6	125
	restricted to southerly aspe restricted to northerly aspe			stricted to southerr	n portion of b	oiogeoclir	matic					sible rege		
	restricted to upper elevation restricted to lower elevation			rtial canopy cover tablishment	required for	successfu	ıl						inued / 200	next page

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards
 MSS – minimum stocking standards
 pa – preferred and acceptable
 p – preferred

IDFmw1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. t		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
05	CwFd – Dogwood	Fd ³² Lw ³² Sx	PI	BI ^{10,13} Cw	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	1.6 1.0 0.8	125
06	Cw – Devil's club – Foamflower	Sx	Fd ^{1,32} Lw ^{1,32}	BI ^{10,13} Cw PI	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	1.6 1.0 0.8	125

a productive, reliable, and feasible regeneration option

May 2001 ===

¹ on elevated microsites

¹⁰ restricted to northerly aspects

¹³ in upper elevations of biogeoclimatic unit

³² risk of frost damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFmw2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

		Conifer specie	ıs	Broadleaf		cing stan II-space		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01 FdCw – Falsebox – Prince's pine	Fd Pl		Cw ^{10,13} Lw ^{23,32} Py ^{9,14,16,23} Sx ^{10,1}		1200	700	600	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
01-YC CwFd – Feathermoss	Fd PI		BI ^{10,13} Cw ^{10,13} Lw ^{23,32} Sx ^{10,13}	Act ^b At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
01-YS EpAt – Thimbleberry – Falsebox	Fd	PI	Lw ^{23,32} Sx ^{10,13}	At ^a Ep ^a	1200	700	600	7	12	15	PI, Lw Fd Sx	1.6 1.0 0.8	125
02 Fd – Snowberry – Bluebunch wheatgrass	Fd ²⁷	Py ^{9,14,16,23}		At ^b	600	400	400	7	12	15	PI Fd Py	1.2 0.8 0.6	125

⁹ restricted to southerly aspects

Continued next page May 2001

¹⁰ restricted to northerly aspects

¹⁶ restricted to southern portion of biogeoclimatic unit in region

¹³ restricted to upper elevations of biogeoclimatic unit
14 restricted to lower elevations of biogeoclimatic unit
15 restricted to lower elevations of biogeoclimatic unit
16 restricted to rial use
17 restricted to lower elevations of biogeoclimatic unit
18 restricted to trial use
19 restricted to lower elevations of biogeoclimatic unit
20 restricted to trial use
21 restricted to rial use establishment

³² limited by growing-season frosts

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

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFmw2 — Kamloops (continued)

			Conifer specie	s	Broadleaf		ing stan II-space		Regen delay	Asses Early	sment Late	Min. tro heigh		tree ver
	Site series	Primary	Secondary	Tertiary	$\textbf{species}^{\!\scriptscriptstyle \Delta}$	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	bru	ush
03	Fd – Pinegrass – Feathermoss	Fd ¹⁴ PI	Py ^{9,14,16}	Cw ^{10,13} Lw ^{23,32} Sx ^{10,13}	At ^b Ep ^b	1000	500	400	7	12	15	PI, Lw Fd Others	1.6 12 1.0 0.8	25
04	CwSxw – Oak fern	Fd ³² Sx	PI	BI ¹³ Cw ^{32,37} Lw ^{23,32}	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Fd Others	1.6 12 1.0 0.8	25
05*	Dogwood – Sedge	Sx ¹ Pl ¹		BI ¹ Cw ^{1,32}	Act ^a At ^b Ep ^b	400	200	200	4	9	15	PI Others	1.2 12 0.6	25

^{*} 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

¹⁶ restricted to southern portion of biogeoclimatic unit in region

²³ restricted to trial use

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

May 2001 ===

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

	Site series	Primary	Conifer specie Secondary	s	Broadleaf species [△]	(we	ing stan II-spaced MSSpa	i/ha) +	Regen delay (yrs)	Asses Early (yrs)	sment Late (yrs)	Min. tı heigl (m)	ht	% tree over brush
)1	FdCw – Hazelnut	Fd	PI Py ^{7,16}	Cw Lw ^{16,23}	·	600	400	400	4	9	15	Sx PI Fd, Lw Cw, Py	3.0 2.0 1.5	150
)2	FdPI – Peltigera	PI		BI ^{10,13} Cw ^{10,13} Fd Lw ²³ Sx ^{10,13}		1200	700	600	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
03	Fd – Falsebox – Feathermoss	Fd	PI Py ^{7,16}	Lw ²³ Sx ^{10,13}		1200	700	600	7	12	15	PI, Lw Fd Sx, Py	1.6 1.0 0.8	125
)4	Fd – Douglas maple – Fairybells	Fd	Py ¹⁶	Cw Lw ^{16,23} PI		600	400	400	7	12	15	PI Fd Cw, Py	1.2 0.8 0.6	125
	restricted to nutrient-mediur restricted to northerly aspec			restricted to souther	rn portion of	biogeocli	matic	-						
	restricted to upper elevations			restricted to trial us	e							Cont	inued	next p

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFww — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 ===

			Conifer species		Broadleaf		ring stan		Regen delay	Asses Early	sment Late	Min. tı heigl		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
05	CwFd – Vine maple	Cw Fd		Sx ^{15,35}		1000	500	400	7	12	15	PI, Lw Fd Others	1.6 1.0 0.8	125
06	Cw – Devil's club – Lady fern	Cw Fd Sx ^{13,15,35}	Bg ¹⁶			1200	700	600	4	9	15	PI, Lw Fd Others	1.6 1.0 0.8	125
07	CwSxw – Skunk cabbage	Cw ¹⁶	Sx ^{1,13,15,35}			400	200	200	4	9	15	PI Others	1.2	125

¹ elevated microsites are preferred

¹⁵ restricted to northern portion of biogeoclimatic unit in region 13 restricted to upper elevations of biogeoclimatic unit

¹⁶ restricted to southern portion of biogeoclimatic unit in region

³⁵ risk of weevil damage

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFxh1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

							ing stan		Regen		sment		. tree	% tree
	Site series	Primary	Conifer species Secondary	Tertiary	Broadleaf species [△]		II-spaced MSSpa	<u>, , , , , , , , , , , , , , , , , , , </u>	delay (yrs)	Early (yrs)	Late (yrs)		ight m)	over brush
01	FdPy – Pinegrass	Fd ²⁷ Py	Lw ^{1,10,13,32}		Atb	1000	500	400	7	12	15	All	0.6	125
02*	FdPy – Bluebunch wheatgrass – Balsamroot	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
03	FdPy – Bluebunch wheatgrass – Pinegrass	Ру	Fd ²⁷			600	400	400	7	12	15	All	0.6	125
04	FdPy – Snowbrush – Pinegrass	Ру	Fd ²⁷			600	400	400	7	12	15	All	0.6	125
05	FdPy – Pinegrass – Idaho fescue	Ру	Fd ²⁷			600	400	400	7	12	15	AII	0.6	125

^{*} avoid logging

¹ elevated microsites are preferred

¹⁰ restricted to northerly aspects

¹³ restricted to upper elevations of biogeoclimatic unit

²⁷ partial canopy cover required for successful establishment

³² limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFxh1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer specie	s	Broadleaf		king stan II-space		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	$\textbf{species}^{\!\scriptscriptstyle \Delta}$	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
06	FdPy – Spirea – Feathermoss	Fd ²⁷ Py	Lw ^{1,10,13,32}		Atb	1000	500	400	7	12	15	All	0.6	125
07	FdPy – Snowberry – Spirea	Fd Py	Lw ^{1,10,13,32}	Cw ³⁷	At ^b	1000	500	400	7	12	15	All	0.6	125
80	SxwFd – Douglas maple – Dogwood	Fd ^{1,32} Sx	PI ¹	Cw ³⁷ Lw ^{1,10,13,33} Py ^{1,32}	² Act ^a At ^a Ep ^a	1200	700	600	4	9	15	PI, Lw Others	1.0 0.8	125
09	Willow - Sedge	non-forested				_	_	_	_	_	_	_	_	_

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¹ elevated microsites are preferred

²⁷ partial canopy cover required for successful establishment

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

¹⁰ restricted to northerly aspects

¹³ restricted to upper elevations of biogeoclimatic unit 32 limited by growing-season frosts

³⁷ risk of heart rots

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFxh1a — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree
	Site series	Primary	Secondary	Tertiary	species△	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
91	Fescue – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-	-	-	-
92	Big sage – Bluebunch wheatgrass – Balsamroo	non-forested t				-	-	-	-	-	-	-	-	-
93	Bluebunch wheatgrass – Balsamroot	non-forested				-	-	-	-	-	-	-	-	-
94	Big sage – Bluebunch wheatgrass – Idaho fescue	non-forested				-	-	-	-	-	-	-	-	-

Continued next page

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFxh1a — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 —

						Stock	cing stan	dards	Regen	Asses	sment	Min. tı	ee	% tree
			Conifer species		Broadleaf	(we	II-space	d/ha) †	delay	Early	Late	heigl	ıt	over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
95	Big sage – Kentucky bluegrass	non-forested				-	-	-	-	-	-	-	-	-
96	Kentucky bluegrass – Stiff needlegrass	non-forested				-	-	-	-	-	-	-	-	-
97	Prairie rose – Idaho fescue	non-forested				-	-	-	-	-	-	-	-	-
98	At – Snowberry – Kentucky bluegrass		Fd ³² Py ³²		Ata	1200	700	600	4	9	15	Fd Py	0.8 0.6	125

³² limited by growing-season frosts a productive, reliable, and feasible regeneration option

A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

IDFxh2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan		Regen delay	Asses Early	sment Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	1	brush
01	FdPy – Pinegrass – Feathermoss	Fd ²⁷ Py			Atb	1000	500	400	7	12	15	AII	0.6	125
02	FdPy – Bluebunch wheatgrass – Rough fescu	Py ²⁷ ue	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
03	FdPy – Bluebunch wheatgrass – Balsamroot	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
04	FdPy – Bluebunch wheatgrass – Pinegrass	Ру	Fd ²⁷			600	400	400	7	12	15	All	0.6	125
05	FdPy - Pinegrass	Fd ²⁷ Py				1000	500	400	7	12	15	All	0.6	125
06	Fd – Feathermoss	Fd Py			Atb	1200	700	600	7	12	15	All	0.6	125
07	CwFd – Dogwood	Fd ³²	Py ³² Sx	Cw ³²	Act ^a At ^a Ep ^a	1200	700	600	4	9	15	All	0.6	125
80	Sxw – Horsetail	Sx ¹	Fd ^{1,32} Pl ^{1,23}		Act ^a At ^a Ep ^a	1000	500	400	4	9	15	PI Others	0.8 0.6	125

¹ elevated microsites are preferred

³² limited by growing-season frosts

²³ restricted to trial use

a productive, reliable, and feasible regeneration option

²⁷ partial canopy cover required for successful establishment

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

IDFxh2a — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 —

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. tı heigh		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
91	Fescue – Bluebunch wheatgrass	non-forested				-	-	-	-	-	-	-	-	-
92	Bluebunch wheatgrass – Needle-and-thread gra	non-forested ass				-	-	-	-	-	-	-	-	-
93	Big sage – Kentucky bluegrass	non-forested				-	-	-	-	-	-	-	-	-
94	Balsam root – Kentucky bluegrass	non-forested				-	-	-	-	-	-	-	-	
95	At – Snowberry – Kentucky bluegrass		Fd ³² Py ³²		At ^a	1200	700	600	4	9	15	All	8.0	125

³² limited by growing-season frosts a productive, reliable, and feasible regeneration option

A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

IDFxw —	Kam	loops
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Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. t heig		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	Fd – Juniper – Bluebunch wheatgrass	Fd ²⁷ Py				1200	700	600	7	12	15	Fd, Py	0.8	125
02*	FdPy – 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 – Balsamroo	Fd ^{27,28} Py ²⁸ t				600	400	400	7	12	15	Fd, Py	0.6	125
05	Fd – Feathermoss	Fd^{27}				1200	700	600	7	12	15	Fd	0.8	125
06	Sxw – Water birch	Fd Sx				1000	500	400	4	9	15	Fd, Sx	0.6	125
07	Sxw – Prickly rose – Coltsfoot	Fd ³² Sx				1000	500	400	4	9	15	Fd, Sx	0.6	125

^{*} avoid logging

²⁸ limited by moisture deficit

²⁷ partial canopy cover required for successful establishment

³² limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSdc1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

						Stock	cing stan	dards	Regen	Asses	sment	Min. t	ree	% tree
			Conifer specie	s	Broadleaf	(we	II-space	d/ha) †	delay	Early	Late	heig	ht	over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
01	Sxw – Wintergreen – Feathermoss	PI Sx	BI ^{10,13} Fd ^{9,14,32}		At ^a	1200	700	600	7	12	15	PI Others	1.4 0.8	125
02	FdPl – Juniper	PI	Fd ⁹	BI ^{10,13} Pa ^{9,13,17} Sx ^{10,13}		1000	500	400	7	12	15	PI Others	1.0 0.6	125
03	PI – Spirea – Pinegrass	PI	Fd ^{9,14,32}	BI ^{10,13} Pa ^{9,13,17} Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI Others	1.0 0.6	125
04	Sxw - Gooseberry	PI Sx	BI ¹³ Fd ^{9,14,32}		Act ^a At ^a	1200	700	600	4	9	15	PI Others	1.4 0.8	125
05	Sedge – Glow moss	non-forested				_	_	_	_	_	_	_	_	_

May 2001 ===

⁹ restricted to southerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

¹⁰ restricted to northerly aspects

¹⁷ restricted to western portion of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

¹³ restricted to upper elevations of biogeoclimatic unit

in region

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSdm1 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		cing stan II-spaced		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	Sxw – Falsebox – Feathermoss	PI Sx	BI Fd ^{9,14,32} Lw ^{9,14,32}		Ata	1200	700	600	7	12	15	PI, Lw Others	1.4 0.8	125
02	Fd – Big sage – Pinegrass	Fd PI	Lw		At ^b	600	400	400	7	12	15	PI, Lw Fd	1.0 0.6	125
03	PI – Grouseberry – Cladonia	PI	Fd ³² Lw ³²	BI ^{10,13} Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI, Lw Others	1.0 0.6	125
04	PI – Pinegrass – Kinnikinnick	Fd ^{14,32} Lw ^{14,32} PI		BI ^{10,13} Sx ^{10,13}	At ^b	1200	700	600	7	12	15	PI, Lw Others	1.4 0.8	125
05	Sxw – Trapper's tea – Grouseberry	PI	BI ^{10,13} Fd ^{9,14,32} Lw ^{9,14,32} Sx		At ^{53,a}	1200	700	600	4	9	15	PI, Lw Others	1.4 0.8	125

Continued next page May 2001

⁹ restricted to southerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

¹⁰ restricted to northerly aspects

³² limited by growing-season frosts

b limited in productivity, reliability and/or feasibility

¹³ restricted to upper elevations of biogeoclimatic unit

⁵³ minor component

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSdm1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

May 2001 ===

			Conifer species		Broadleaf		ing stan		Regen delay	Asses Early	sment Late	Min. tı heigh		% tree over
	Site series	Primary	Secondary	Tertiary	species [△]	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
06	Sxw – Gooseberry	PI Sx	BI Fd ^{9,14,32} Lw ^{9,14,32}		Act ^a At ^a	1200	700	600	4	9	15	PI, Lw Others	1.4 0.8	125
07	Sxw – Trapper's tea Horsetail	PI ¹ Sx ¹	BI ¹			1000	500	400	4	9	15	PI Others	1.0 0.6	125
08	Willow - Sedge	non-forested				_	_	-	_	-	_	_	_	_

¹ elevated microsites are preferred

⁹ restricted to southerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

³² limited by growing-season frosts

a productive, reliable, and feasible regeneration option

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSdm2 — Kamloops

						Stock	cing stan	dards	Regen	Asses	sment	Min. t	ree	% tree
			Conifer specie	S	Broadleaf	(we	II-space	d/ha) +	delay	Early	Late	heig	ht	over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
01	Sxw – Falsebox – Feathermoss	PI Sx	BI ^{10,13} Fd ^{9,14,32}	Lw ^{14,23,32}	Ata	1200	700	600	7	12	15	PI, Lw Others	1.4 0.8	125
02*	Juniper – Pinegrass	non-forested				-	-	-	-	-	-	-	-	-
03	PI – Juniper – Grouseberry	Fd ^{9,14} PI		BI ^{10,13} Sx ^{10,13}	At ^b	1000	500	400	7	12	15	PI Others	1.0 0.6	125
04	PI – Grouseberry – Pinegrass	PI	Fd ^{9,14,32} Sx ^{10,13}	BI ^{10,13} Lw ^{14,23,32}	At ^a	1200	700	600	7	12	15	PI, Lw Others	1.4 0.8	125
05	Sxw - Gooseberry - Grouseberry	PI Sx	BI Fd ^{9,14,32}	Cw ³² Lw ^{14,23,32}	Act ^a At ^a	1200	700	600	4	9	15	PI, Lw Others	1.4 0.8	125
06	Sxw – Gooseberry – Devil's club	PI Sx	BI Fd ^{9,14,32}	Lw ^{14,23,32}	Act ^a At ^a	1200	700	600	4	9	15	PI, Lw Others	1.4 0.8	125
07	Sxw – Horsetail – Leafy moss	PI Sx	ВІ		Act ^a At ^b	1000	500	400	4	9	15	PI Others	1.0 0.6	125

^{*} avoid logging

¹⁴ restricted to lower elevations of biogeoclimatic unit

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

⁹ restricted to southerly aspects

²³ restricted to trial use

¹⁰ restricted to northerly aspects
13 restricted to upper elevations of biogeoclimatic unit

³² limited by growing-season frosts

May 2001

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSxk — Kamloops

			Conifer species		Broadleaf		ing stan II-spaced		Regen delay	Asses Early	sment Late	Min. t heigl		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	1	brush
01	PI – Pinegrass – Lupine	PI	Fd ^{9,14,32} Sx ^{10,13}	BI ^{10,13}	Ata	1200	700	600	7	12	15	PI Others	1.4 0.8	125
02	Fd – Juniper – Grouseberry	PI	Fd ^{9,14}			1000	500	400	7	12	15	PI Others	1.0 0.6	125
03	Bluebunch wheatgrass - Junegrass	non-forested				-	-	-	-	-	-	-	-	-
04	Big sage – Pinegrass	non-forested				-	-	-	-	-	-	-	-	-
05	FdPI – Pinegrass – Arnica	PI	Fd ^{9,14}	BI ^{10,13} Sx ^{10,13}		1000	500	400	7	12	15	PI Others	1.0 0.6	125
06	PI – Falsebox – Lupine	PI	BI ^{10,13} Fd ^{9,14,32} Sx ^{10,13}	Lw ^{9,14,23}	At ^a	1200	700	600	7	12	15	PI, Lw Others	1.4 0.8	125

⁹ restricted to southerly aspects

¹⁰ restricted to northerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

²³ restricted to trial use

¹³ restricted to upper elevations of biogeoclimatic unit 32 limited by growing-season frosts

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See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

MSxk — Kamloops (continued)

			Conifer species		Broadleaf		ring stan II-spacer		Regen delay	Asses Early	sment Late	Min. t heig		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
07	Sxw – Trapper's tea Grouseberry	PI	BI ^{10,13} Fd ^{1,9,14,32} Sx			1200	700	600	4	9	15	PI Others	1.4 0.8	125
80	Sxw – Gooseberry – Grouseberry	PI Sx	BI Fd ^{9,14,32}		Act ^a At ^a	1200	700	600	4	9	15	PI Others	1.4 0.8	125
09	Sxw – Horsetail – Leafy moss	PI ¹ Sx ¹	BI ¹		Act ^a At ^b	1000	500	400	4	9	15	PI Others	1.0 0.6	125

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

May 2001

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

PPxh1 — Kamloops

			Conifer species		Broadleaf		ing stan II-spaced		Regen delay	Asses Early	sment Late	Min. hei		% tree over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(n	n)	brush
01	Py – Bluebunch wheatgrass – Idaho fesc	Py ²⁷ ue	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
02*	Py - Red three-awn	Py ²⁷	Fd^{27}			400	200	200	7	12	15	All	0.6	125
03	Big sage – Bluebunch wheatgrass – Balsamroo	non-forested t				-	-	-	-	-	-	-	-	-
04	Py – Bluebunch wheatgrass – Cheatgrass	Py ²⁷	Fd^{27}			400	200	200	7	12	15	All	0.6	125

^{*} avoid logging
27 partial canopy cover required for successful establishment

A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

PPxh1 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

						Stock	cing stan	dards	Regen	Asses	sment	Min.	tree	% tree
			Conifer species		Broadleaf	(we	II-space	d/ha) +	delay	Early	Late	heig	jht	over
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m	1)	brush
05	Py – Bluebunch wheatgrass – Rough fes	Py ²⁷ scue	Fd ²⁷			400	200	200	7	12	15	AII	0.6	125
06	FdPy – Snowberry – Pinegrass	Fd ²⁷ Py			At ^b Ep ^b	600	400	400	7	12	15	AII	0.6	125
07	FdPy – Snowberry – Spirea	Fd Py				1000	500	400	7	12	15	All	0.6	125
80	Fd – Water birch – Douglas maple	Fd ¹	Py ^{1,32} Sx ¹	PI ^{1,12,23}	Act ^a At ^b Ep ^b	1000	500	400	4	9	15	All	0.6	125

¹ elevated microsites are preferred 12 suitable on cold air drainage sites

²⁷ partial canopy cover required for successful establishment

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

²³ restricted to trial use

³² limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

PPxh2 — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ding stan		Regen delay	Asses Early	sment Late		tree ght	% tree
	Site series	Primary	Secondary	Tertiary	$\textbf{species}^{\scriptscriptstyle{\Delta}}$	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(r	n)	brush
01	Py – Bluebunch wheatgrass – Fescue	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
02*	FdPy – Bluebunch wheatgrass – Selaginella	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
03	Py – Bluebunch wheatgrass	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125
04	Py – Big sage – Bluebunch wheatgrass	Py ²⁷	Fd ²⁷			400	200	200	7	12	15	All	0.6	125

* avoid logging 27 partial canopy cover required for successful establishment

Continued next page

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A See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines

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

PPxh2 — Kamloops (continued)

Tree Species Selection and Free Growing Stocking Standard Guidelines

			Conifer species		Broadleaf		ing stan		Regen delay	Asses	sment Late	Min. tree	% tree
	Site series	Primary	Secondary	Tertiary	species [△]		MSSpa	<u> </u>	(yrs)	(yrs)	(yrs)	(m)	brush
05	Big sage – Bluebunch wheatgrass (– Fescue)	non-forested				-	-	-	-	-	-	-	
06	FdPy – Snowberry – Saskatoon	Fd ²⁷ Py				600	400	400	7	12	15	AII 0	.6 125
07	Act – Water birch	PI ^{1,23} Sx ¹	Fd ¹ Py ¹		Act ^a At ^a Ep ^b	1000	500	400	4	9	15	AII 0	.6 125

¹ elevated microsites are preferred

a productive, reliable, and feasible regeneration option

²³ restricted to trial use

²⁷ partial canopy cover required for successful establishment

b limited in productivity, reliability and/or feasibility

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

SBSmm — Kamloops

Tree Species Selection and Free Growing Stocking Standard Guidelines

	Cido acuico	Duimour	Conifer species	Tautian	Broadleaf	(we	ing stan	i/ha) †	Regen	Early	Late	Min. t		% tree
	Site series	Primary	Secondary	Tertiary	species∆	гоора	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)		brush
01	Sxw – Falsebox – Knight's plume	PI Sx	BI ^{10,13} Fd ^{9,14,32}	Lw ^{14,23,32}	Act ^b At ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 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 Fd Others	1.4 1.0 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 Fd Others	1.4 1.0 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 Fd Others	1.4 1.0 0.8	150

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⁹ restricted to southerly aspects

¹⁴ restricted to lower elevations of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

¹⁰ restricted to northerly aspects

²³ restricted to trial use

b limited in productivity, reliability and/or feasibility

¹³ restricted to upper elevations of biogeoclimatic unit

³² limited by growing-season frosts

See Interior Broadleaf guidelines on page 109 for stocking standard and free growing guidelines
 TSS – target stocking standards MSS – minimum stocking standards pa – preferred and acceptable p – preferred

SBSmm — Kamloops (continued)

			Conifer species		Broadleaf		cing stan		Regen delay	Asses Early	sment Late	Min. t heig		% tree
	Site series	Primary	Secondary	Tertiary	species∆	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m))	brush
05	Sxw – Soopolallie – Falsebox	PI	BI ^{10,13} Fd ^{9,14,32} Sx	Lw ^{14,23,32}	At ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 1.0	150
06	Sxw – Huckleberry – Falsebox	PI Sx	BI ^{10,13} Fd ^{9,14,32}	Lw ^{14,23,32}	At ^a	1200	700	600	7	12	15	PI, Lw Fd Others	2.0 1.4 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 Fd Others	2.0 1.4 1.0	150
80	Sxw – Horsetail	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

¹⁴ restricted to lower elevations of biogeoclimatic unit

a productive, reliable, and feasible regeneration option

⁹ restricted to southerly aspects

²³ restricted to trial use

b limited in productivity, reliability and/or feasibility

¹⁰ restricted to northerly aspects

³² limited by growing-season frosts

¹³ restricted to upper elevations of biogeoclimatic unit

May 2001

See Interior Broadleaf guidelines on page 109 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		stocking sta		Regen delay	_ Asses Early	sment Late	Min. inter-tree distance	% tree
(stems/ha)	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
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**

			cking standa well-spaced		Regen delay	Asses Early	sment Late	Min. inter-tree distance	% tree over
Tree species	Product	TSSpa	MSSpa	MSSp	(yrs)	(yrs)	(yrs)	(m)	brush
Red alder [‡] and bigleaf maple	Sawlogs Pulp	1200 1500	700 1200	600 1000	3 3	5 5	8 8	2 2	150 150
Coastal black cottonwood (for pulp)	Sawlogs Pulp	700 900	400 600	400 500	3	5 5	8 8	2 2	150 150

May 2000 ====

reached 12 to 16 m in height.

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

Target from even-aged standards			king stand -spaced/h		Target from even-aged standards			king stand -spaced/h	
(stems/ha)	Layer**	TSSpa	MSSpa	MSSp	(stems/ha)	Layer**	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 20	

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