



Free Growing Standards & Appendix 9 *“An Update”*

**Dave Weaver Resource Practices Branch
FFT Meeting Sept 2013**

“The Story of *US* and *THEM* Continues...”



THEM

US

Appendix 9 – *How much Broadleaf is too much?*

Appendix 9 → 13 What's the Plan?

- **The Catalyst for Change** – *the Cariboo and Newsome work*
- **Old Appendix 9 review**
- **New Appendix 13 - Project Plan** – *Timelines*
- **Teresa Newsome's Work**
- **George Harper's Work**
- **Vision for Appendix 13 - Format**
 - Manual Update, New Appendix and Cariboo Pilot, Neighbourhood Concept
- **What would you change??**



The Catalyst for Change

- Teresa Newsome's extensive long term research work in SBPS, IDF and SBS
- **Proposes ↑ Allowable At per FG Plot - mostly PI**
- Request amendments to Appendix 9 in 2013
- ***“Time to take a good look at the entire Appendix 9”***



Old Appendix 9 Review

Silviculture Survey Procedures Manual – April 1, 2013

Appendix 9: Free from brush – Free Growing Criteria - *Establishment to Free Growing Guidebook 2007 - Appendix 9*

FOREST PRACTICES CODE of BRITISH COLUMBIA Establishment to Free Growing Guidebook Prince Rupert Forest Region

Revised edition
Version 2.3

This Forest Practices Code Guidebook is presented for information only. It is not cited in regulation. The Forest and Range Practices Act and its regulations took effect on Jan. 31, 2004. This replaced the Forest Practices Code of British Columbia Act and regulations. For further information please see the [Forest and Range Practices Act](#).

May 2000
(Appendix 9 revised October 2007)



BC
Environment

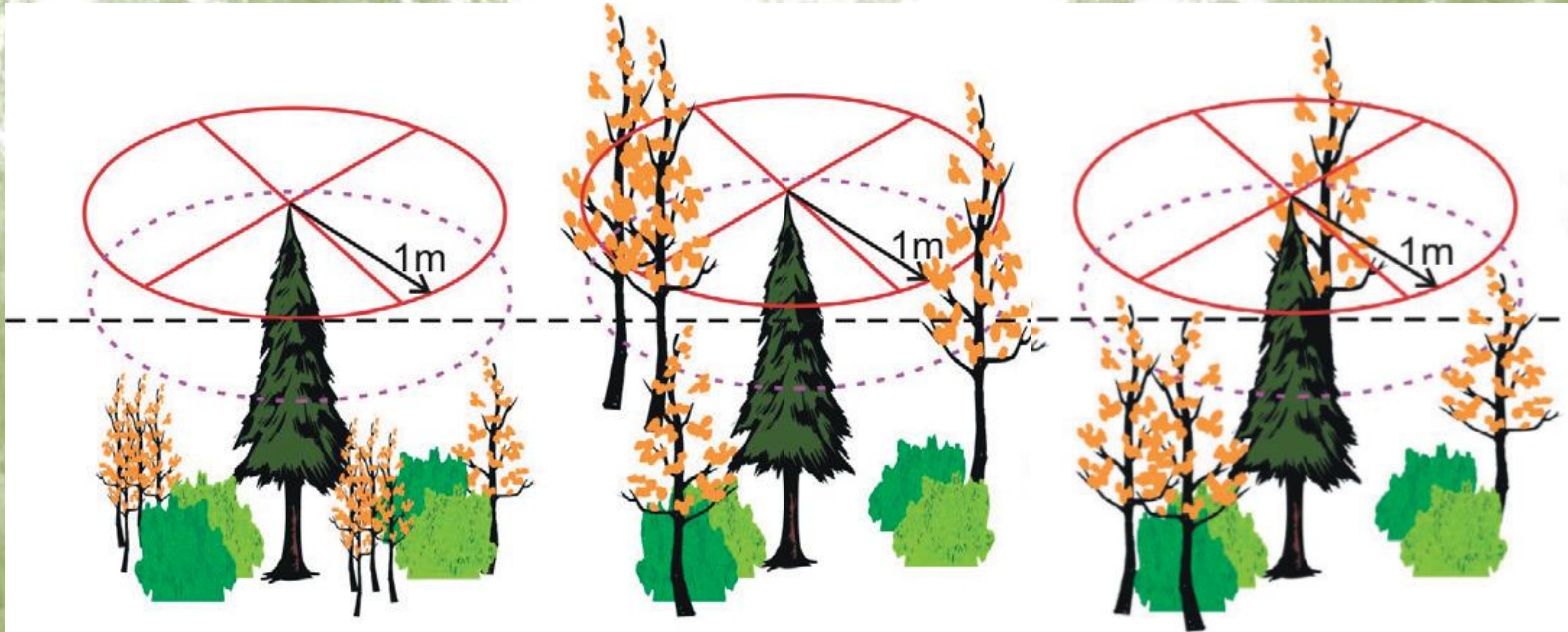


Appendix 9 – Quadrant & Potentially FG Method



Broadleaf Brush Competition

Conifer
/ Brush
Ratio



**Free
Growing**

**Not Free
Growing**

**Potentially
Free
Growing**



Allowable Amount of Broadleaf / Plot

– if a Potentially FG tree in a Plot

Crop tree species	Biogeoclimatic subzone	Site Series	Allowable countable broadleaf trees per 50 m ² plot
Pli, Py, Lw	IDF dk1, 2, 3, 4	Mesic and drier	5
	MS xv		5
	SBPS dc, mk, xc		5
	SBS dw1, 2	Subxeric and drier	5
	All other		2
Fdi, Pa, Pw	All		3
Sw, Se, Sb, Sx	BWBS mw1	01, 03, 05, 06, 07	2 At, Act, or 5 Ep
	All other		5
Fdc, Hw, Cw, Ba, Yc, Ss, Plc	CWH dm, ds, ms, xm	01	1 Dr, Ep, or 2 Vb
	CWH dm, ds, ms, xm	03	2 Dr, Ep, or 4 Vb
	CWH vm1	03	1 Dr, Ep, or 2 Vb
	CDF mm, IDF ww	01	2 Dr, Ep, or 4 Vb
	All other		0
All other	All		5

a When a survey unit contains more than one subzone or site series, use the lower countable broadleaf limit.



New Appendix 13 - Project Plan

Timelines

- | | |
|---|---|
| <ul style="list-style-type: none">• Sept 2013• Nov 2013• March 2014• Summer 2014• Fall 2014• Spring 2015 | <ul style="list-style-type: none">• Finish Field Work Newsome and Harper• Survey Licensees for Feedback• Produce 1st Cariboo Pilot• Test Pilot – Volunteer Licensees• Open Input on App. 13 Design• Final Cariboo Pilot• Final Appendix 13 |
|---|---|



Teresa Newsome's Work

- **Cariboo** – At less competitor in drier subzones
- Better to assess **1.8 m radius** for Quadrant Method
- **At can be 25% taller** in 2 Quadrants to FG

Crop tree species	Biogeoclimatic subzone	Site Series	Allowable countable broadleaf trees per 50 m ² plot
Pli, Py, Lw	2 IDF dk1, 2, 3, 4	Mesic and drier	15
	MS xv		5
	1 SBPS dc, mk, xc		- Non-deleterious
	3 SBS dw1, 2	All	5
	All other		2



George Harper's Work

- Retrospective study of Northern SBS
- Assessing resultant competition levels between post FG PI and competitive levels of At
- Assessing competition relative to Appendix 9 Criteria
- Hopefully will update Appendix 13 (criteria for these northern SBS subzones)



Vision for Appendix 13 - Format

Choices??

- **Amend Appendix 9** – one line at a time per year – adding additional complexity to an already complex/confusing document

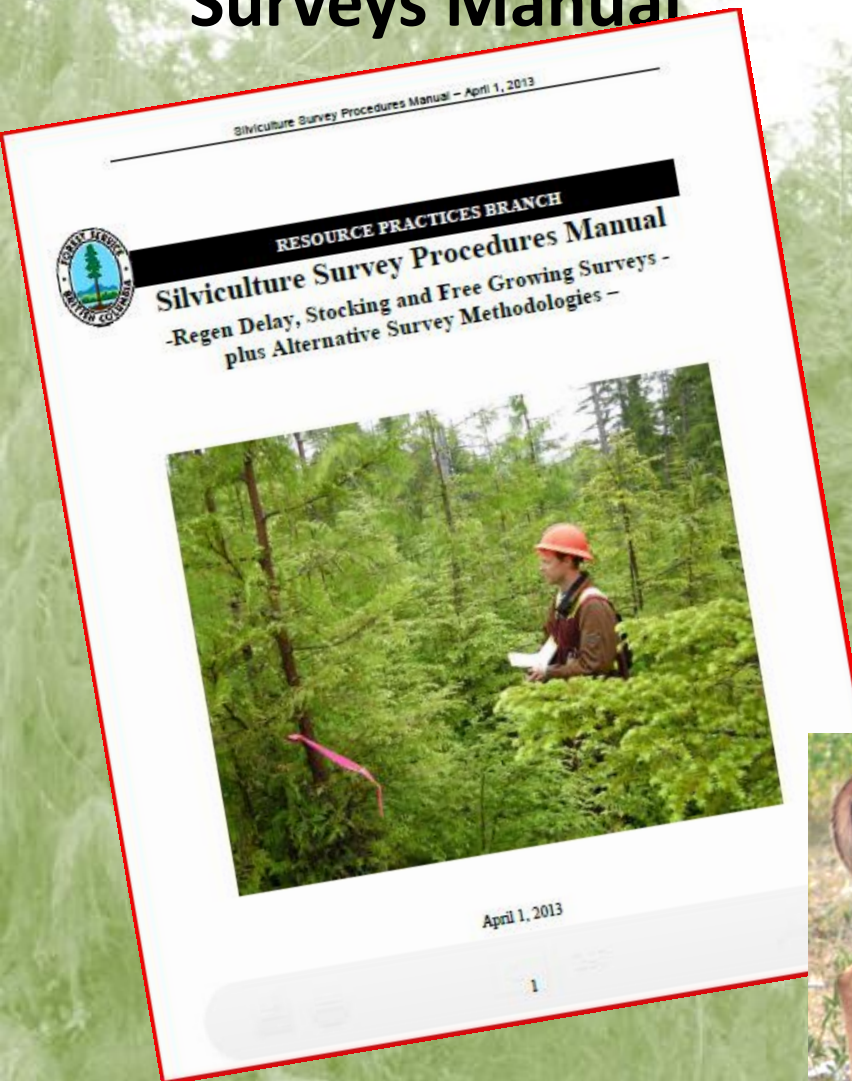
OR

- **Develop Appendix 13** – with a clearer Template for future Amendments with the Cariboo as the Pilot for changes



Appendix 13 – *Thoughts to date+/-*

- **Silviculture Surveys Manual**



- **3.4 Free Growing Surveys**

- **3.4.2 Free Criteria:**
Guidance Procedures for the Assessment of Vegetation Competition in Managed conifer Stands (link to App 13)

- **Appendix 13**

- Regional Tables by BEC



Appendix 13

Each Regional Area

“Relative to Broadleaf Competitiveness”

- TSA’s included
- Shrub & Herb Comp
- Broadleaf Comp
 - Decision Flow Chart & Table per BEC, per Species (Conifer and Broadleaf)
- Assessment Methodology

Map of Application Areas



Appendix 13

- Cariboo will be the Pilot for Format change
 - BEC – subzone specific, site series, species specific
- Probably focus on “**Neighbourhood**” concept for competition rather than “**Potentially FG**” concept



What would you change to Appendix 9??

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-
-
- Can you name the “*Big 5*”?

