



Ministry of Forests, Lands
and Natural Resource Operations



Forests For Tomorrow

Species and sowing

Provincial Meeting
September 12, 2012
Allan Powelson



All 2013 Ministry funded seedling requests should be entered and approved in SPAR by the following dates:

Wednesday, August 15, 2012	seedling requests for Coastal TSOs
Wednesday, September 12, 2012	all 'early sow' species and stocktypes
Wednesday, October 10, 2012	any other species and stocktypes

Strongly encourage the use of Plantwizard to assist in Sowing and planting planning



- Target of 20 Million seedlings for planting in 2014/15
 - Must take into consideration sowing of summer stock in 2013 (historically 1.5 million)
 - FFT is striving to be a leader in species and density management



Species management and density targets

Objectives of the FFT management of tree species composition

Species mixtures will be planted,

- Where appropriate, and to the degree reasonable:
 - areas will be planted with a mixture of desirable species; and
 - on sites with more than one "preferred" species, more than one preferred species (and, where practicable, all of the preferred species) will be planted.

Species management decisions will be informed by forest-level analysis.

- FFT species management will be informed by analyses of the long-term, forest-level impact of species choices, where these analyses are available.

Cumulative impacts, and impacts at the landscape scale, will be considered.

- Where appropriate, and to the degree practical, FFT will work to improve watershed and landscape composition.
- Where young stand composition is known to deviate from natural composition (as a result of past management), FFT treatments will help to re-establish natural composition.

Density management will optimize productivity, future product value, and resiliency of the forest at a stand and landscape level.



FFT Species and Density Indicators

1. Percent of area planted with more than one tree species
2. Opening area weighted mean dominant species percent in the inventory label at establishment, regeneration delay, and free growing.
3. Percent of area in a management unit planted with a single species
4. Percent of area post-treatment stand composition that is single species
5. Average opening well-spaced density at establishment, regeneration delay, and free growing.

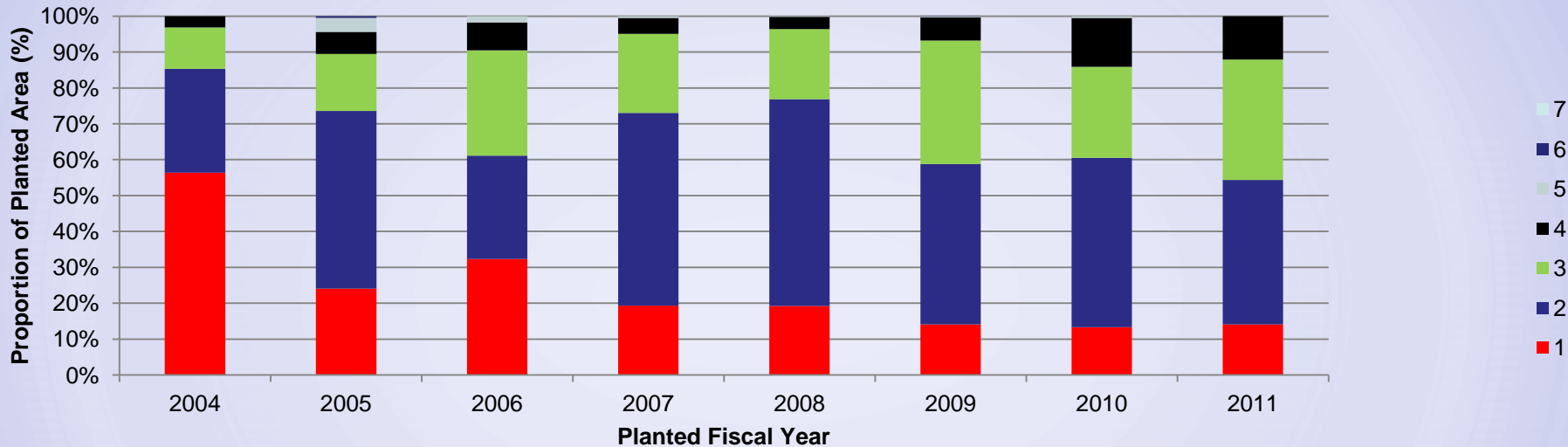
Species and Density Targets

- 80 % of the area planted within a management unit, where funded by FFT, should have 2 or more species in the silviculture label at the time of establishment
- In ecosystems with more than one preferred species, where practicable, no one species should comprise more than 70% of the composition of the inventory label of an opening area at establishment, regeneration delay, and at free growing
- Establishment and regeneration delay density management target well spaced stocking 6 of, at least, 1200 sph (interior) and 900 sph (coast) for non-lodgepole pine dominated stands and, at least, 2000 sph for lodgepole pine dominated stands (i.e. > 50 % of the species mix is lodgepole pine) at free growing declaration.
- Professional decisions to deviate from the objective will be recognized in those situations where it is ecologically appropriate (i.e. forest health- rusts, frost, weevil, root rot, the site being a complex of more than 1 site series, etc).

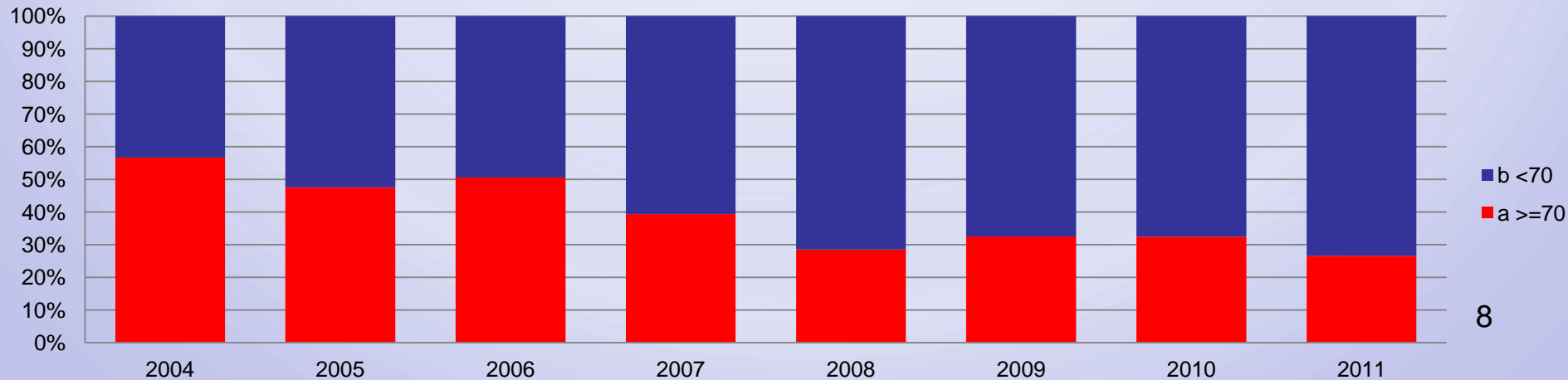
Other guidance to consider

- Assisted migration guidance
 - covers the assisted movement of species into biogeoclimatic zones/subzones where they are not currently considered as preferred or acceptable in response to anticipated climate change
- FFT use of White Pine guidance
 - where feasible and ecologically appropriate to do so white pine blister rust resistant western white pine seedlings will be incorporated into the planting mixture for FFT funded reforestation activities
- Fibre plantations in BC
 - Develop new wood product opportunities, such as bioenergy and other wood-based fibre based products, from a limited land base

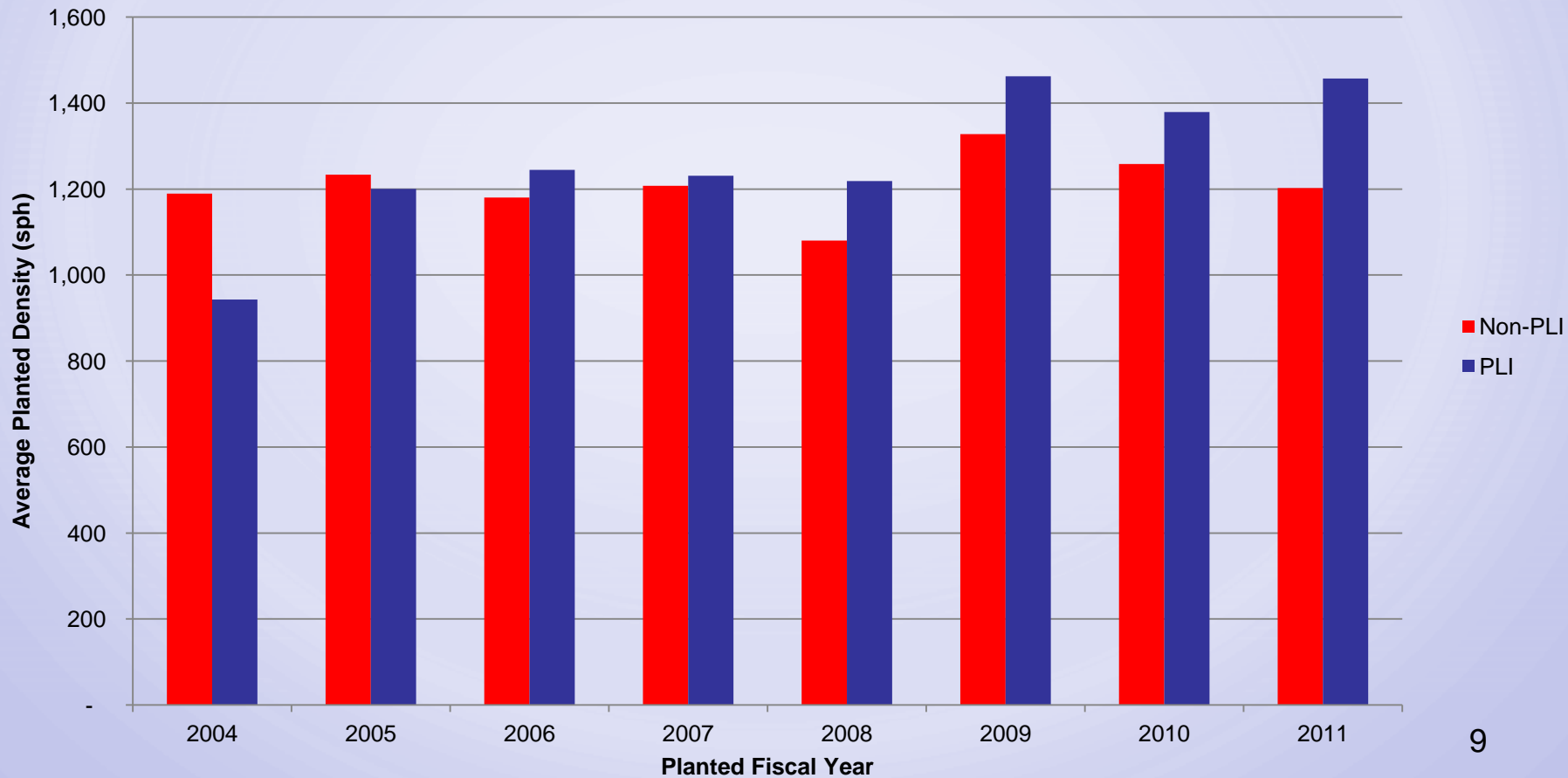
Number of Species Planted



Planted Area with $\geq 70\%$ one species



Average Planted Densities by PLI and non-PLI Leading



How to mix?

- intimate, mini-mono, meso-mono, ?
- Different rotation lengths, future harvest opportunities, ?
- ???????
- George Harper undertaking project to assist in developing some guidance on this.

