

E-Squared “Lite”

Developing a FREP monitoring protocol for post-free-growing managed stands

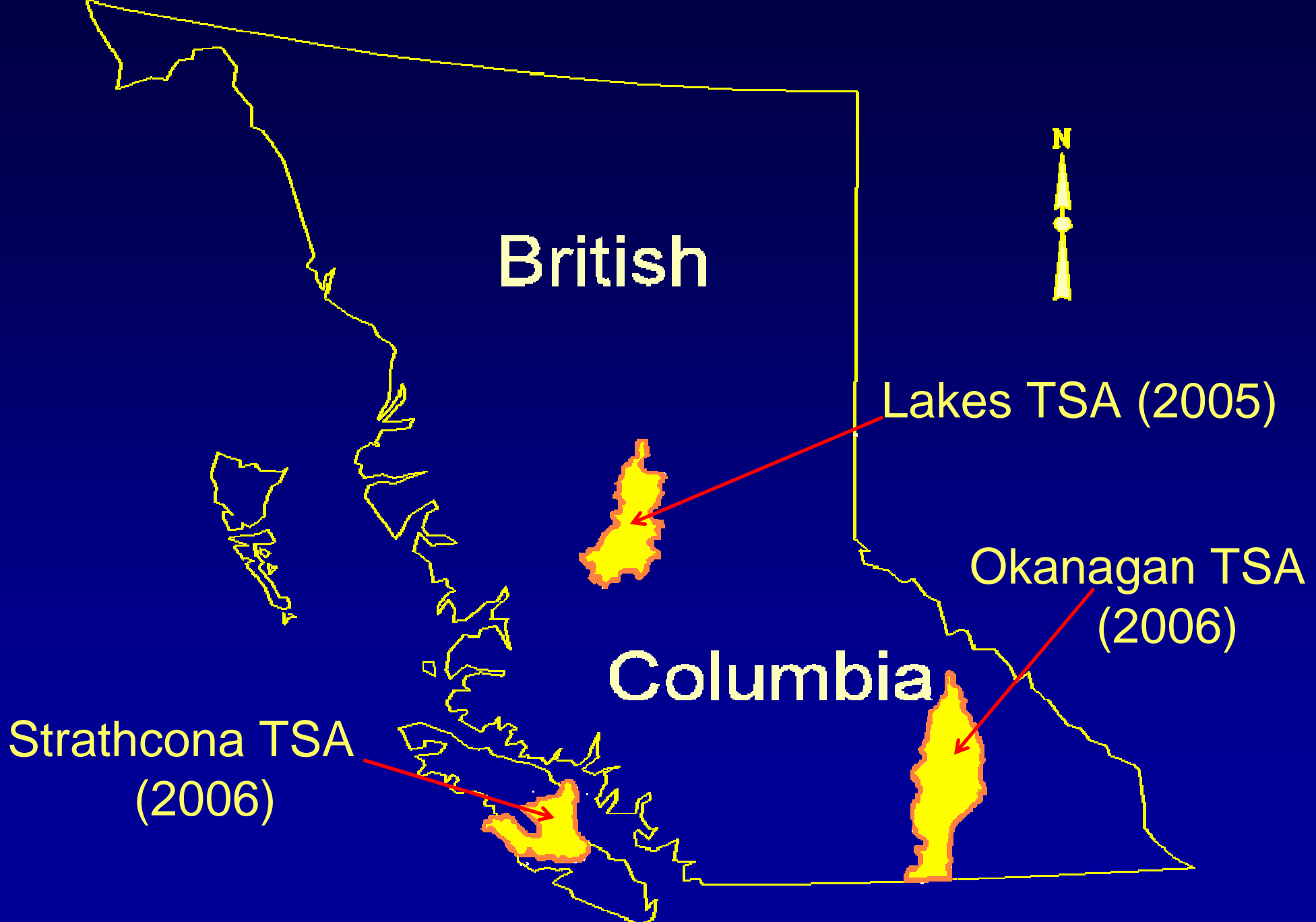
(and filling a knowledge gap in BC forest management)

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Overall Objective:

- To test if the **Free-Growing** declaration point-in-time assessment is an accurate predictor of future stand productivity and if the assumptions of stand performance are valid.
- To build an inventory of managed stands filling the gap between free-growing and VRI



British



Lakes TSA (2005)

Okanagan TSA
(2006)

Columbia

Strathcona TSA
(2006)

E-Squared Progress and Future Vision:

- Lakes TSA report **in press**
- Okanagan TSA report...1/3 complete
- Strathcona TSA report ...very preliminary
- Kootenay TSA (full scale assessment 2008)
- Headwaters TSA E-squared Lite Pilot (2008)
- **Need for Free-growing reviews to be standard part of District FREP evaluations**

E-squared Lite Pilot

- Need for inventory of managed stands to fill current information gap
- District lead E-squared lite protocol would consist of on the ground inventory data collection in managed stands
- Data would feed new inventory of managed stand conditions
- Lead to more accurate estimates of productivity and better understanding of state of managed stands

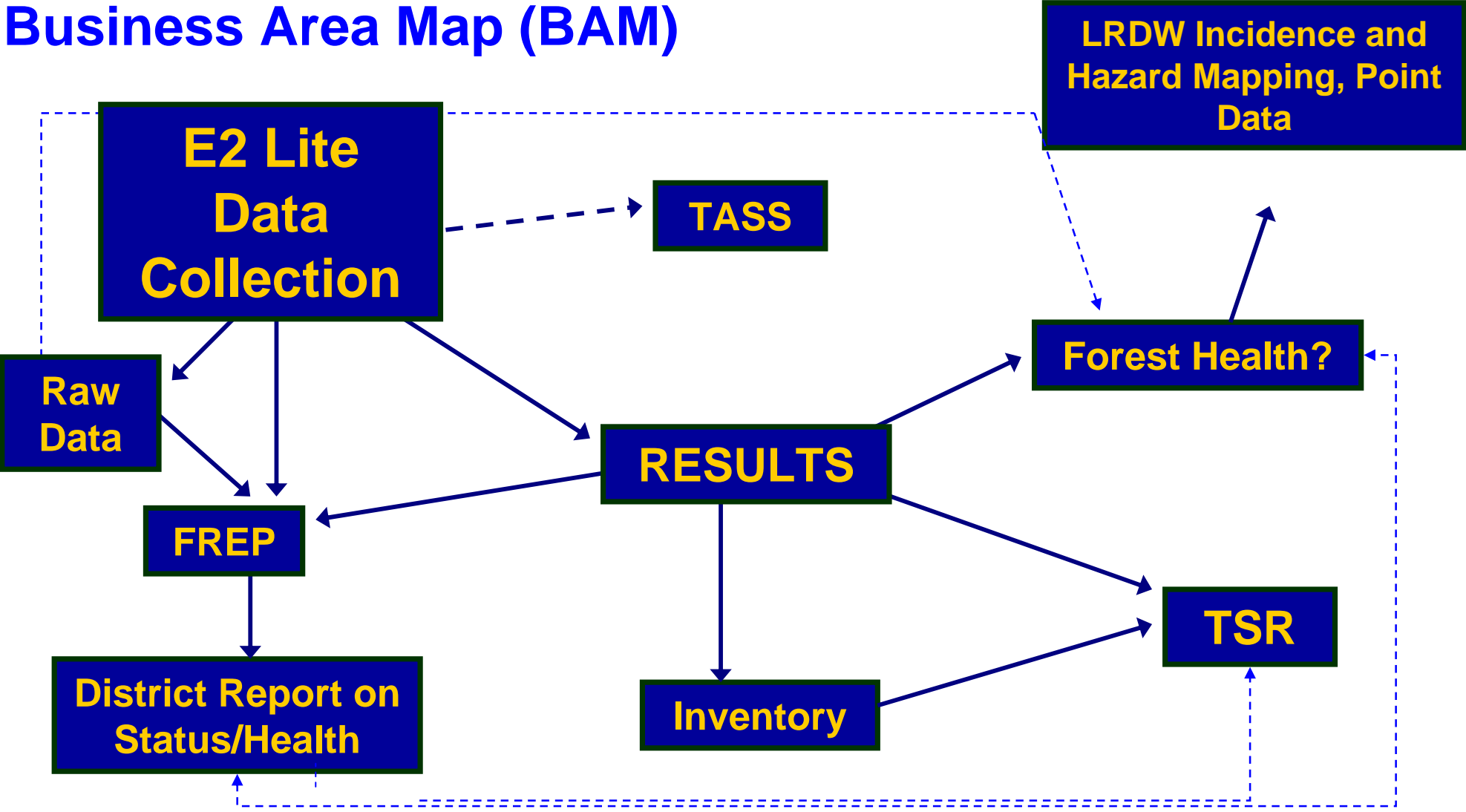
E-squared Lite Pilot

- Full scale E-squared assessments require 60 stand sample, 15 plots/stand, for total of 900 survey plots
- District lead E-squared Lite assessment clearly needs to be less onerous
- Proposing 15 stand sample with 10 plots/stand following protocol developed in full-scale E-squared projects
- Sample scheme based on one sample stand/day

E-squared Lite Pilot

- Focus on stands declared 1995-2001 as this group captures more current management practices
- Random selection of sample stands using RESULTS database to define population
- Limit sample to even aged stands, no partial cuts
- District Forest Health positions to take lead role in conducting this FREP protocol in conjunction with stewardship staff

Business Area Map (BAM)



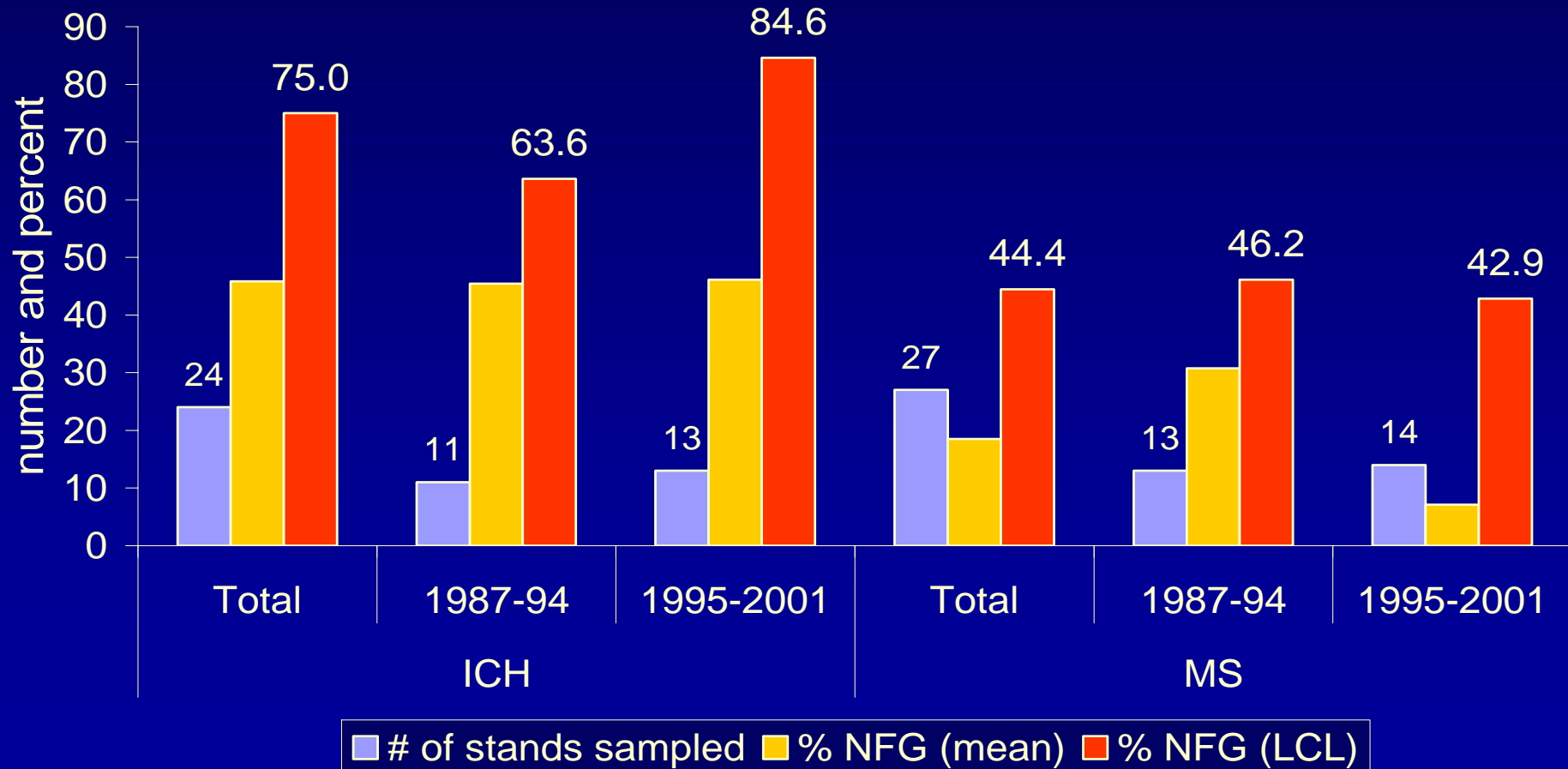
District lead E-squared Free-growing reports

Summary Report including:

- Stocking values for FG, WS, TT, at Dec and now
- Leading Inventory species at Dec and now
- Forest pest incidence at Dec and now
- Site Index at Dec and now, both GI and SIBEC

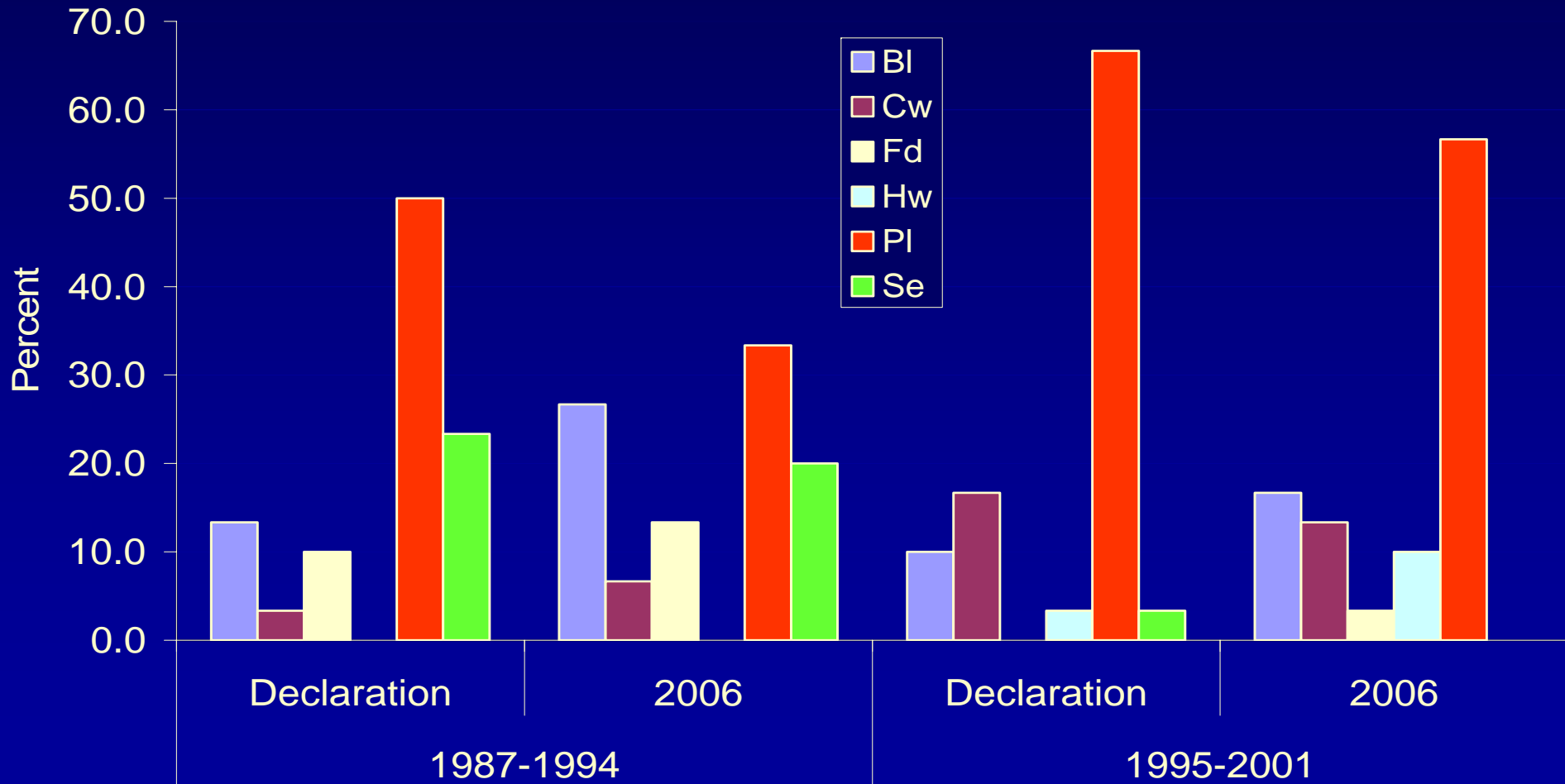
Have stocking levels changed since Free-Growing?

Percent of free-growing stands no longer passing the minimum stocking level of 700 fgsph based on the mean and the lower confidence limit decision rule by BEC zone and by declaration group; Okanagan TSA



Has leading species changed since Free-Growing declaration?

Species composition (leading species, Inventory label) of 60 randomly selected stands declared in the period 1987-1994 and from 1995-2001, both at the time of Free-growing and in 2006
Okanagan TSA



- E-squared lite protocol will build on connections between Forest Health, Silviculture, Inventory and TSR,
- Will fulfill District Forest Health monitoring role while at the same time building an inventory of managed stands, and...

Will be FUN!