



Timberline
Natural Resource Group

Timber Supply Impacts of Mountain Pine Beetle (MPB) in British Columbia, Canada

Western Forest Economists

May 8th, 2007

Frequently asked questions

- How long will the uplift last?
- What will be left over afterwards?
- What can we do?



Overview

- BC in a nutshell
- MPB in a nutshell
- Timber Supply in



BC in a nutshell

- 92% crown land
- Timber Supply Areas
 - volume based tenures
 - Multiple licensees
 - AAC set by Chief forester and apportioned by Regional Manager
- Tree farm licenses
 - Area based tenure
 - One licensee
 - Uplift goes to licensee
- Licensee harvesting stands have silviculture obligation



Forests for Tomorrow (FFT)

FFT objectives are to improve future timber supply and address risk to other forest values through the reestablishment of young forests on land that would otherwise remain under productive

Long term annual budget of \$53.9 million

Mountain Pine Beetle

- Forest Health Overview
 - Description
 - Classification
- MPB Projections:
 - Description
 - Severity maps 2006 - 2015
- Modelling timber impact:
 - MPB analysis assumptions



Forest Health Overview

- General strategic level survey
- Fixed wing aircraft traveling at 70-80 knots from 1,500 – 3,000 ft
- 1:100,000 imagery
- Forest health – not specific to MPB



FHO Severity Classification



Light



Moderate



Severe

MoFR MPB Projections

- Projected and calibrated to Forest Health Overview since 1999
- Raster based stochastic modelling in SELES
- Two 400X400 grids for each year:
 - % pine affected by MPB
 - % of stand that is pine

Natural versus Managed

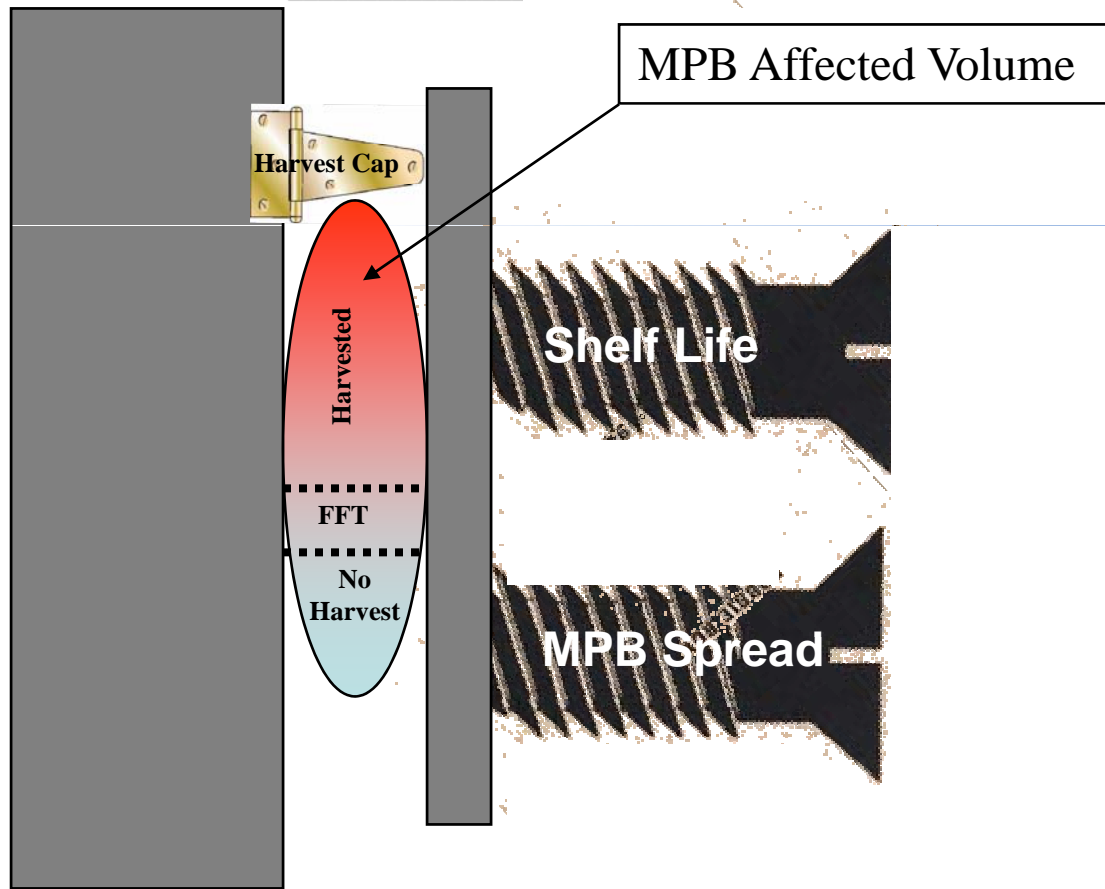
- Two growth and yield models used in timber supply review for BC
 - TIPSYP for managed and VDYP for natural
 - Harvested or treated stands are modelled as managed
- Harvested stands are considered managed
- Unharvested heavily infested stands are killed off and modelled as natural with 15 year regen delay

Shelf Life

- Wood quality - Recent research shows a 2 year shelf life for saw logs
- How long can licensees afford to harvest these stands?
 - Depends on products, market conditions, regulations *etc*

How long will the uplift last?

Salvage years



MPB Affected Volume

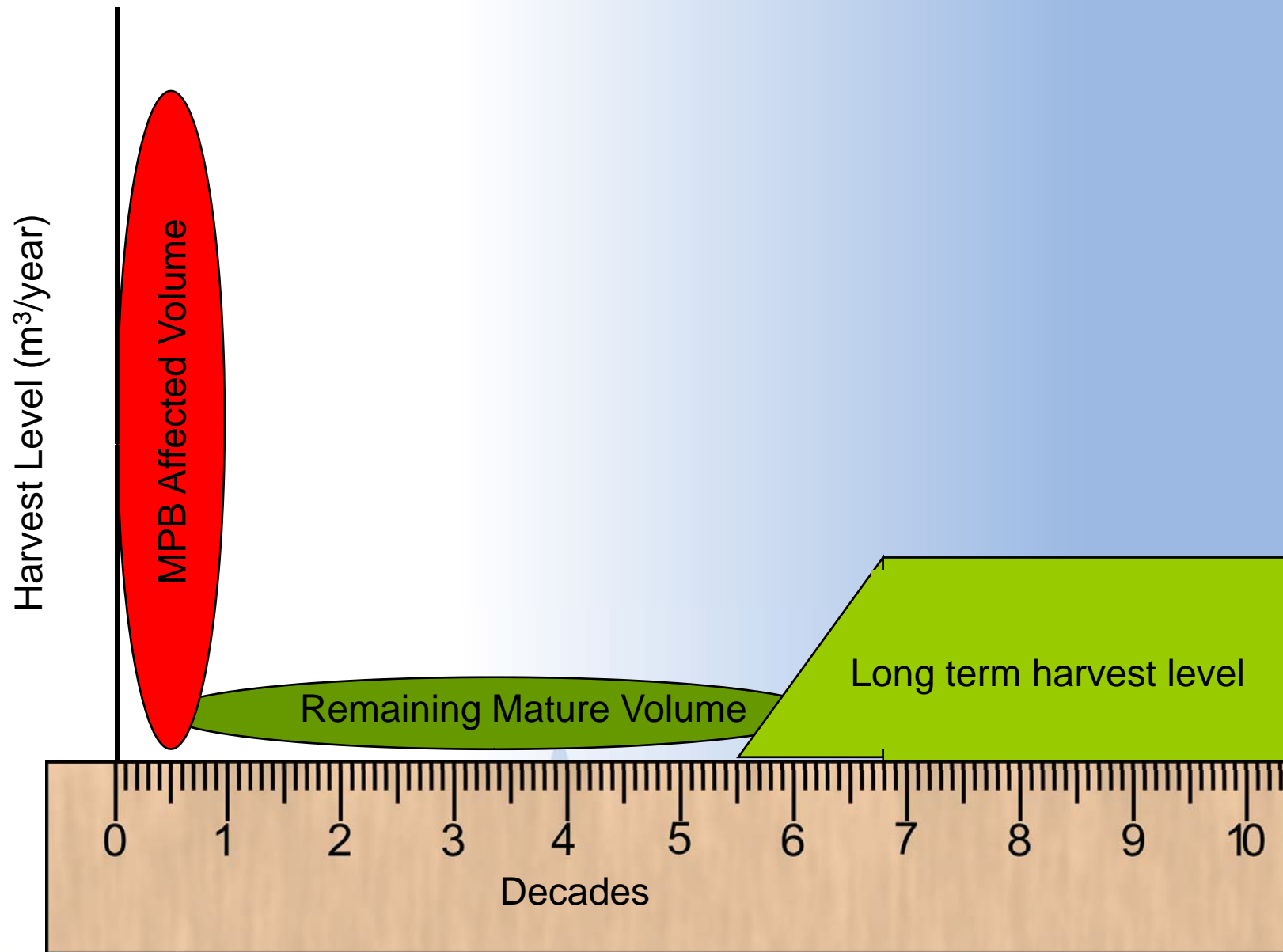
Harvest Cap

Harvested
FFT
No Harvest

Shelf Life

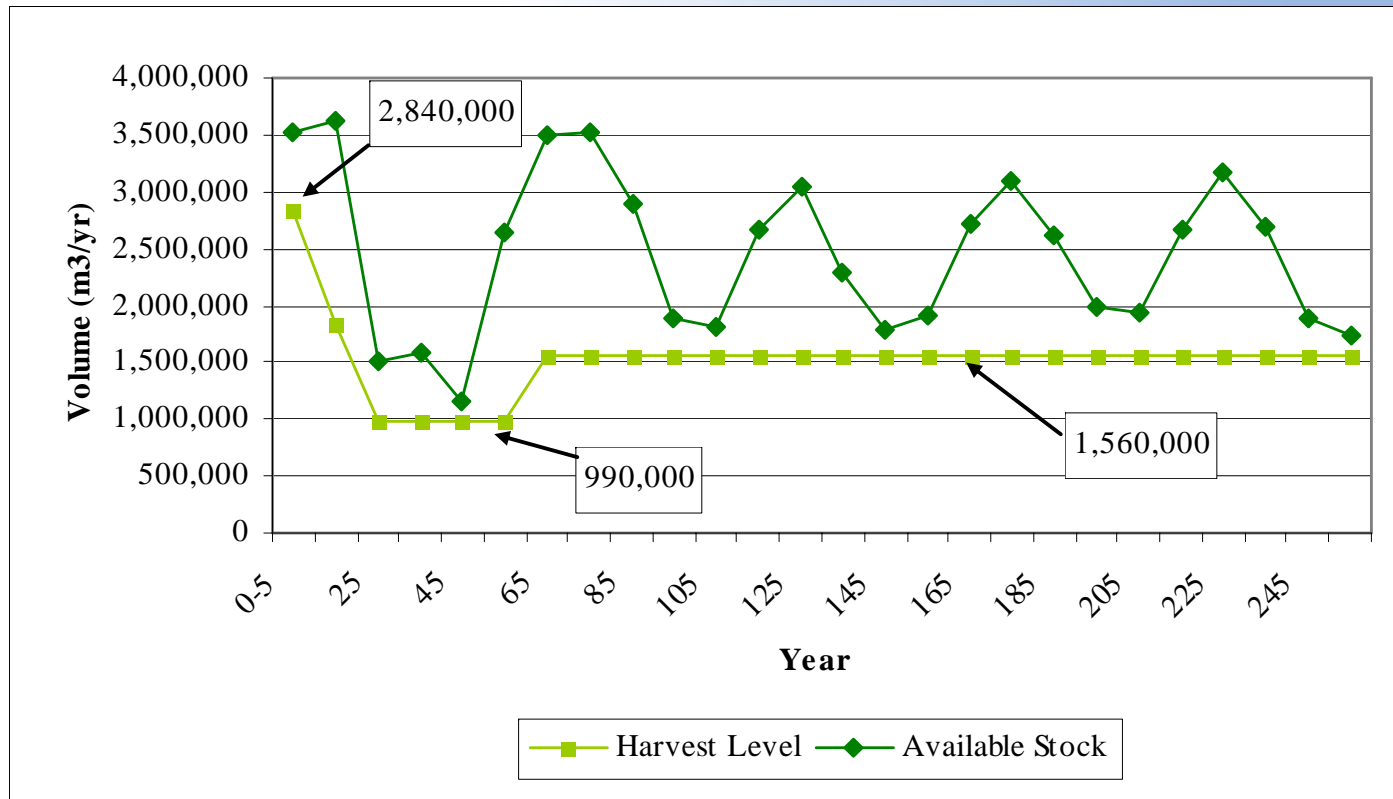
MPB Spread

What will be left afterwards?

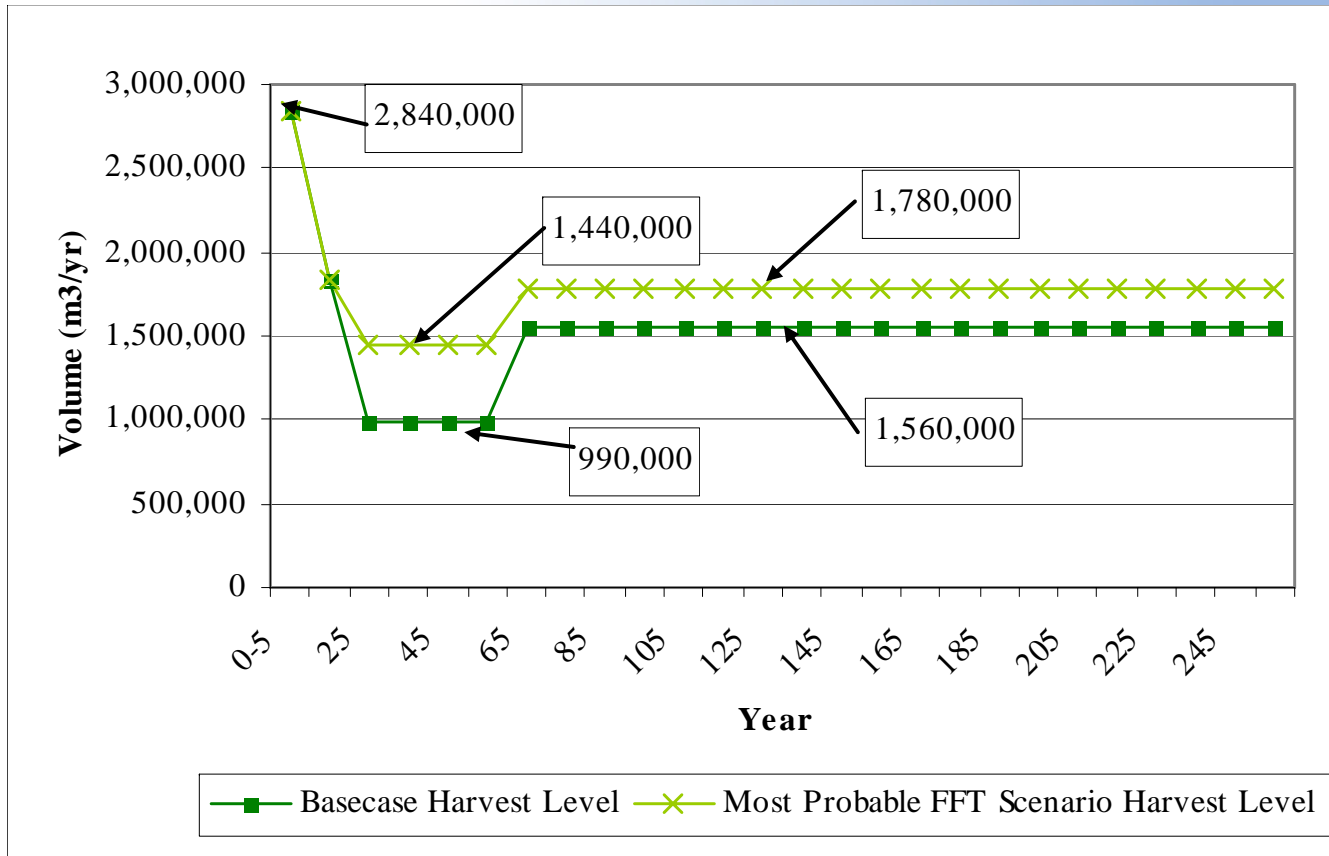


What can we do about it?

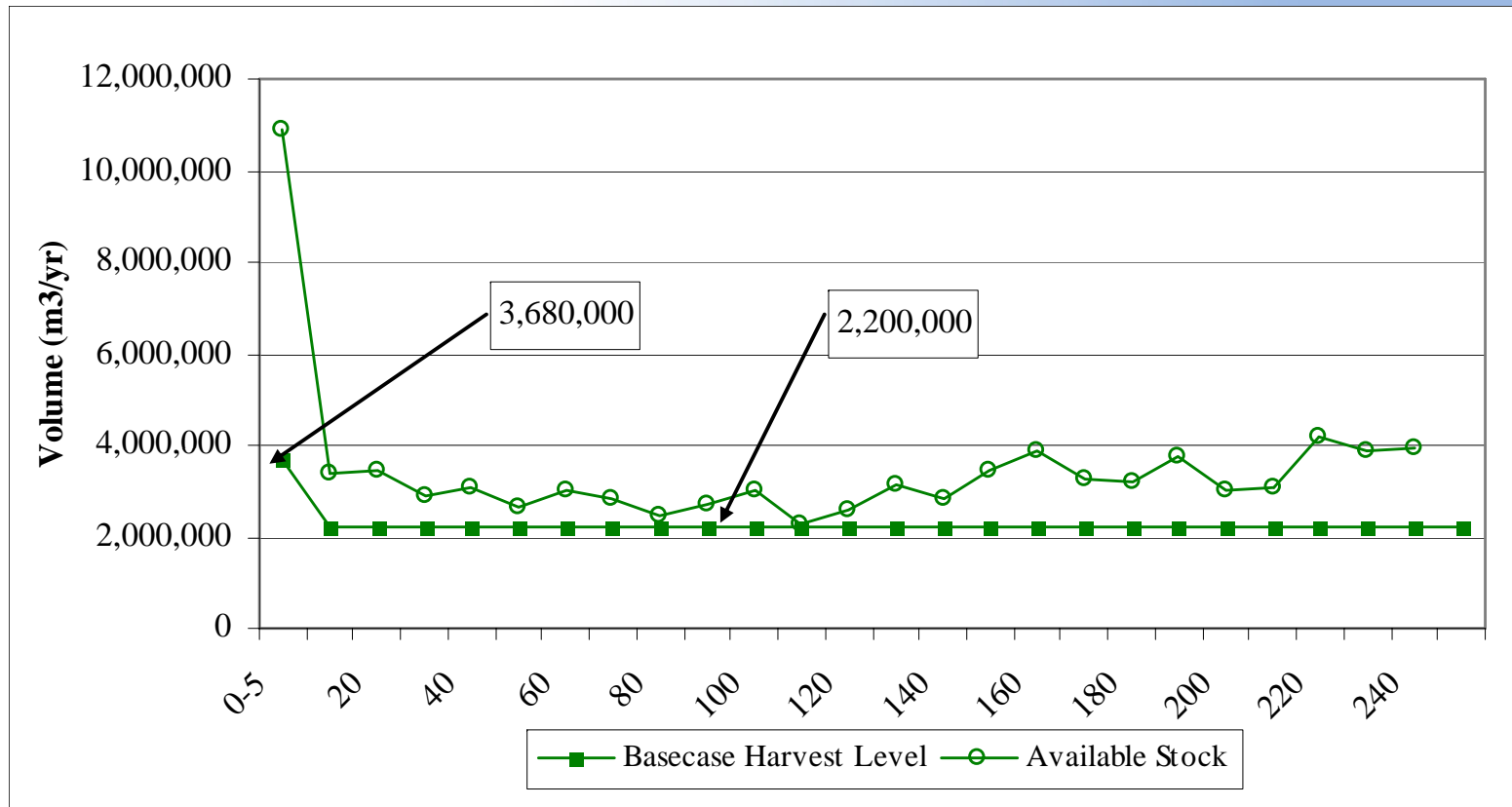
Sample Timber Supply



Opportunity to make a difference



Different Story



Thank You

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