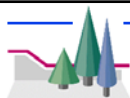


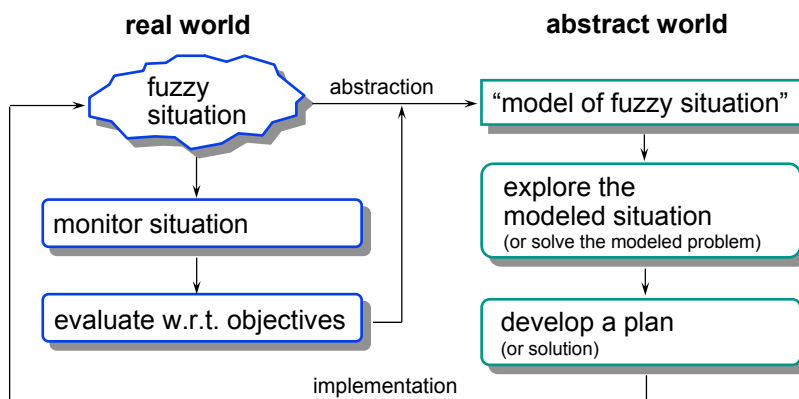
Timber Supply Analysis for DFAM Licensees

Mechanics of Timber Supply Modeling

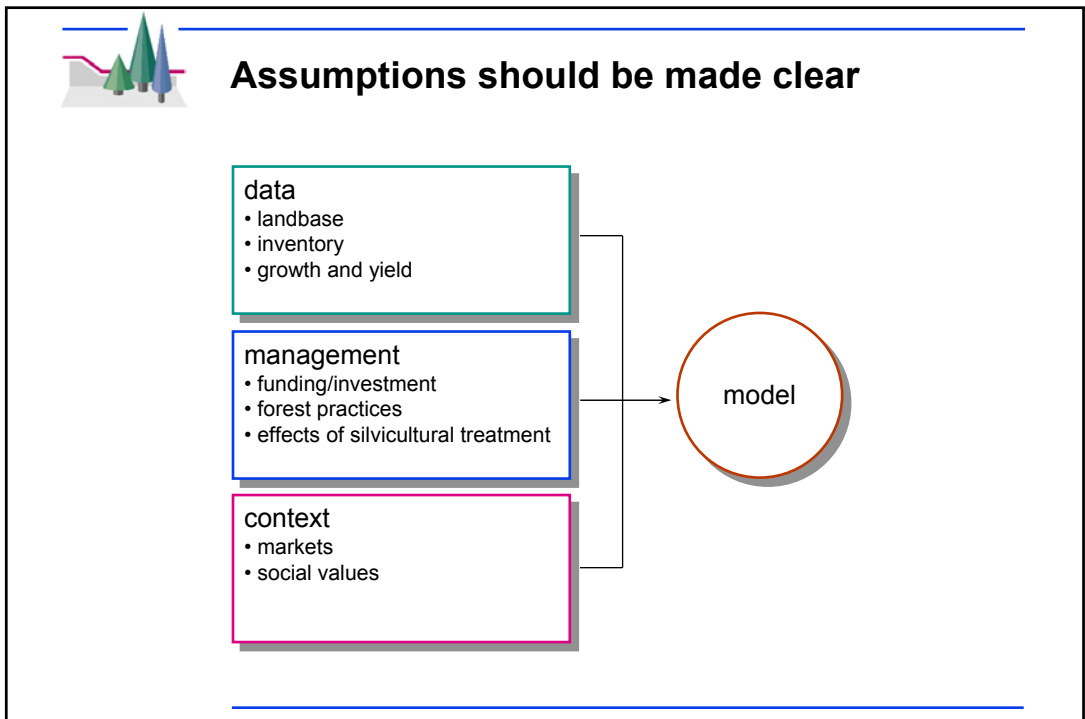
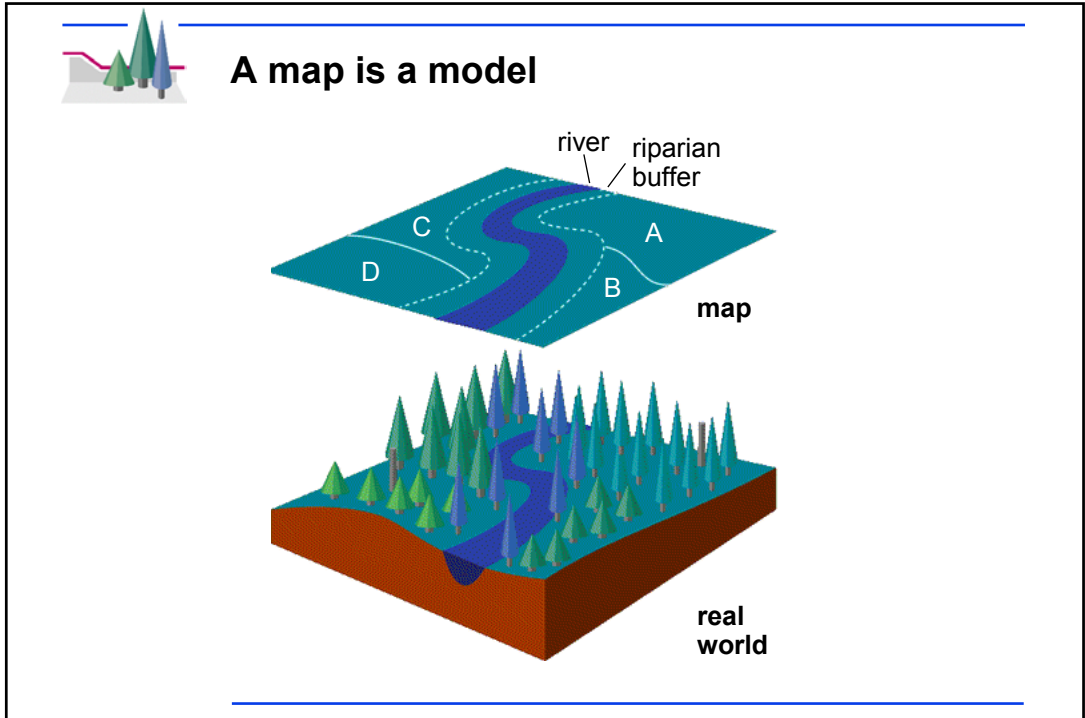
Reference: Technical Workshop Course Notes, Section 3, 4

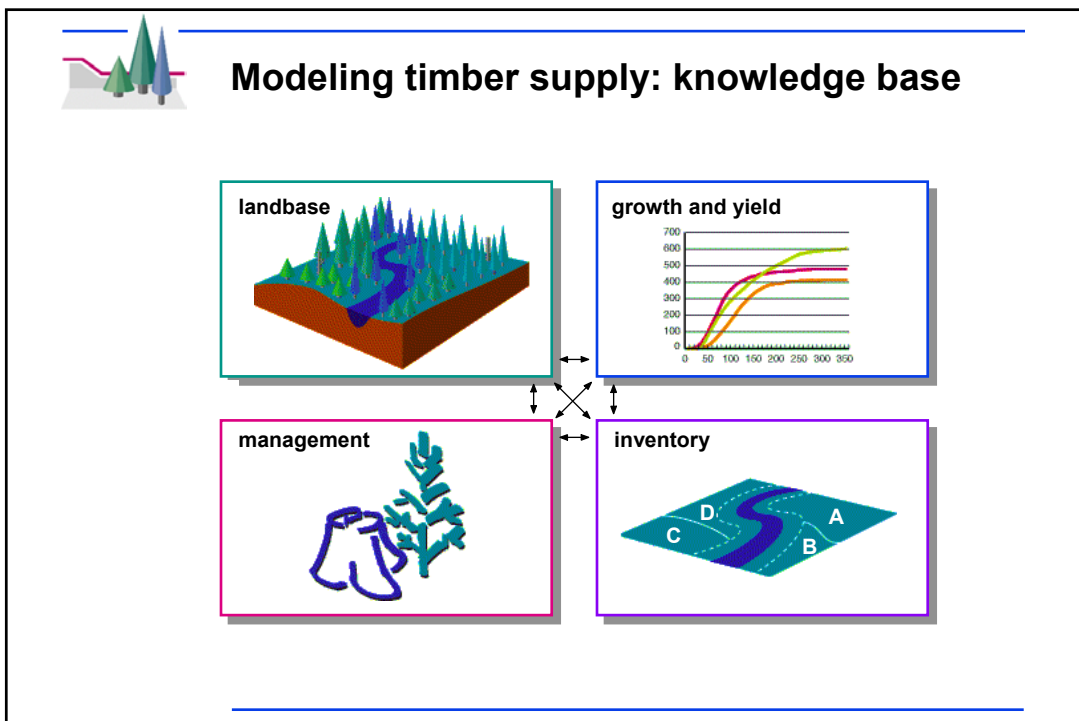
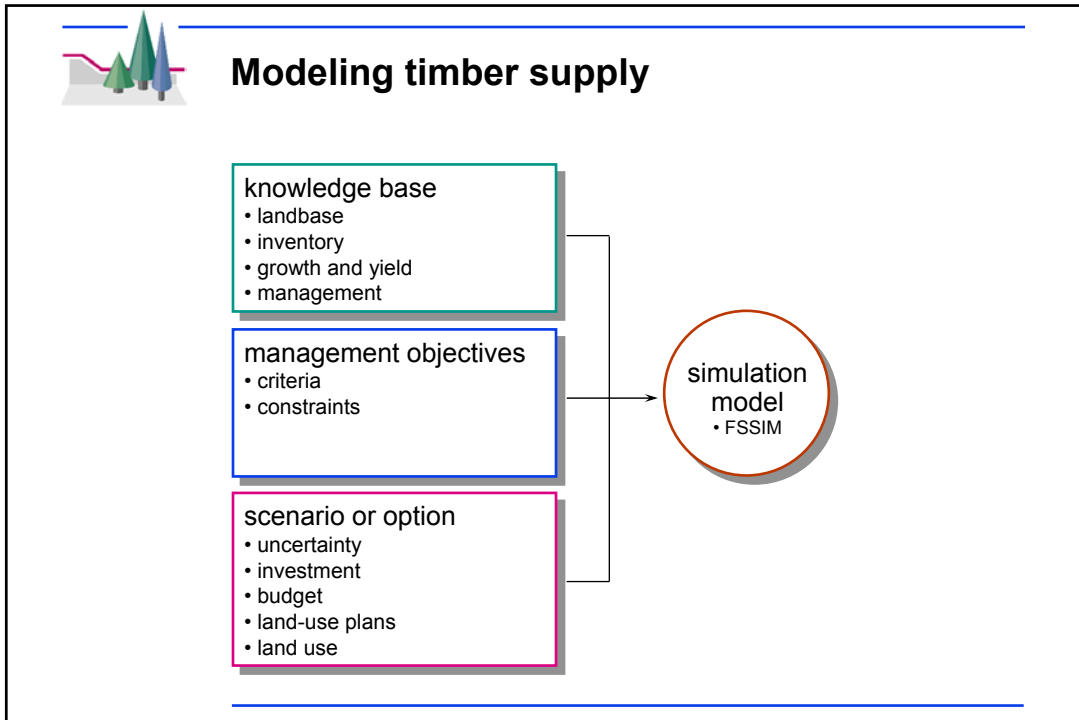


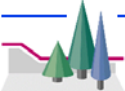
A model is an abstraction



Adapted from Walker 1986, Baskerville 1995





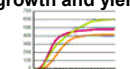


Modeling timber supply: landbase


landbase

- inoperable areas
- environmentally sensitive areas
- untreated not satisfactorily restocked areas
- untreated problem forest types (unmerchantable)
- existing and future roads and landings
- specific areas (e.g., riparian zones, old-growth areas)
- timber licence reversions

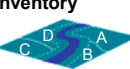
growth and yield




management



inventory



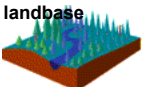


Modeling timber supply: growth and yield


growth and yield

- yield table including decay, waste, and breakage
- volume exclusions (e.g., deciduous)
- utilization levels

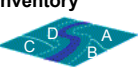
landbase

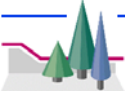


management



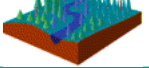
inventory



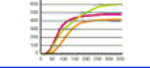


Modeling timber supply: inventory


landbase



growth and yield

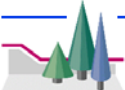


management



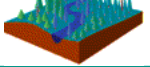
inventory aggregation

- species
- site index
- age
- BEC unit
- other values

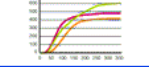


Modeling timber supply: management

landbase




growth and yield

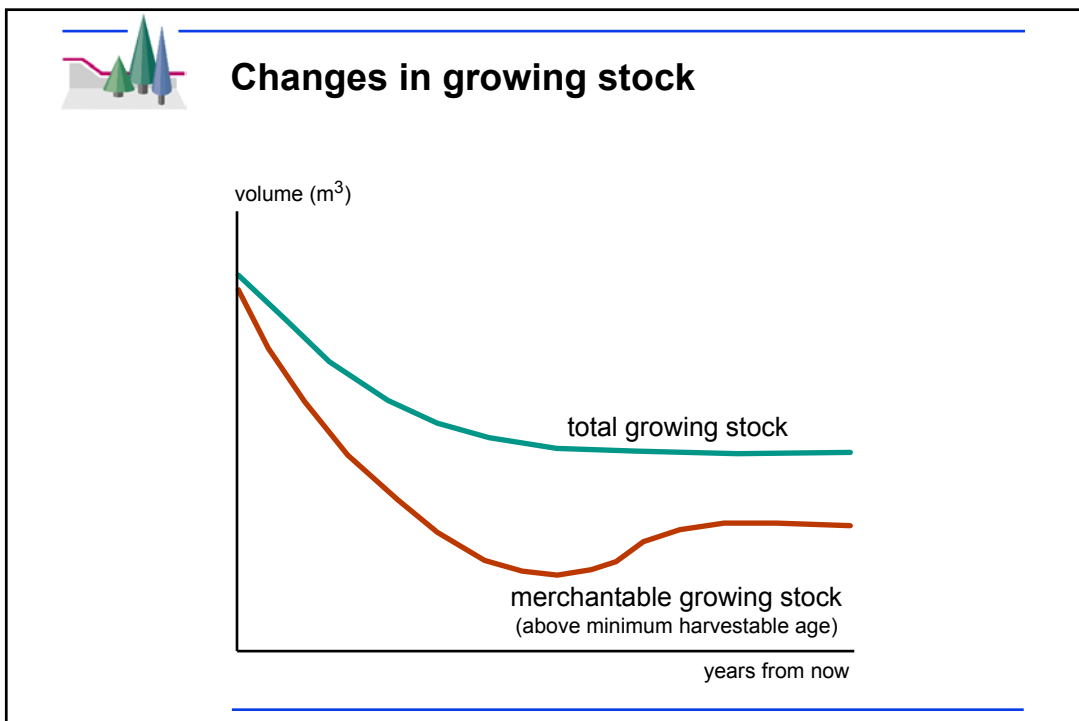
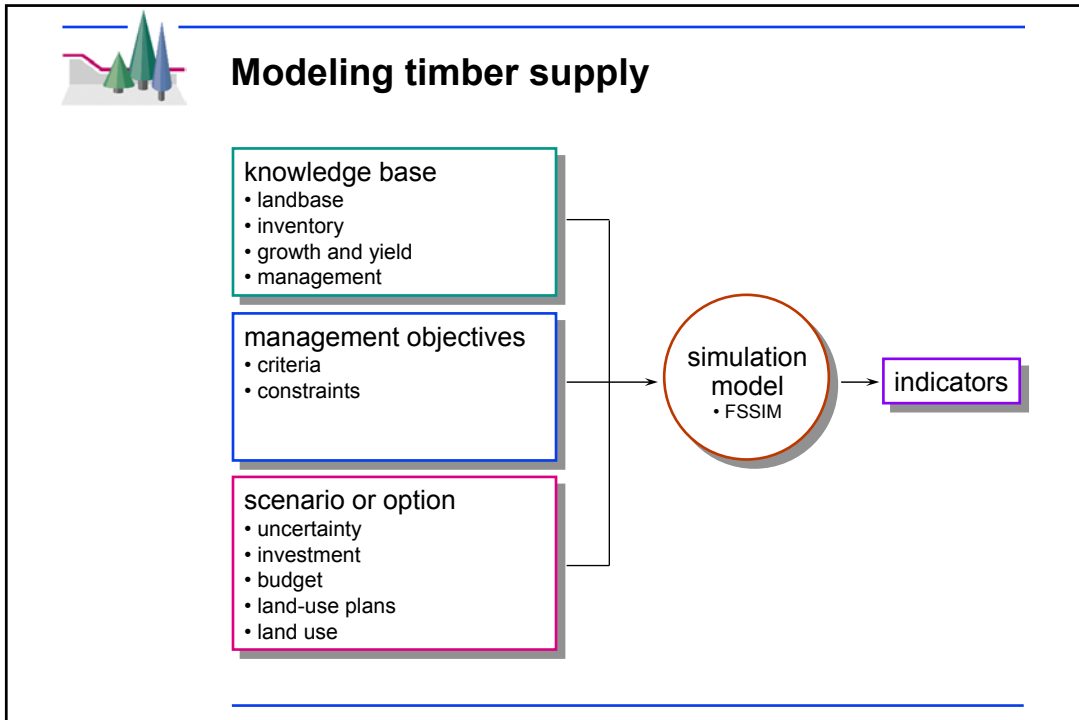


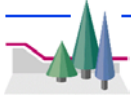
management

- regeneration strategy
- plantation history
- silvicultural treatments
- harvest profile (species mix)
- minimum harvest ages
- forest cover requirements (wildlife, biodiversity, visual)
- unsalvaged losses
- rehabilitation of problem forest types
- rehabilitation of not satisfactorily restocked areas

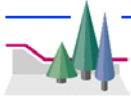
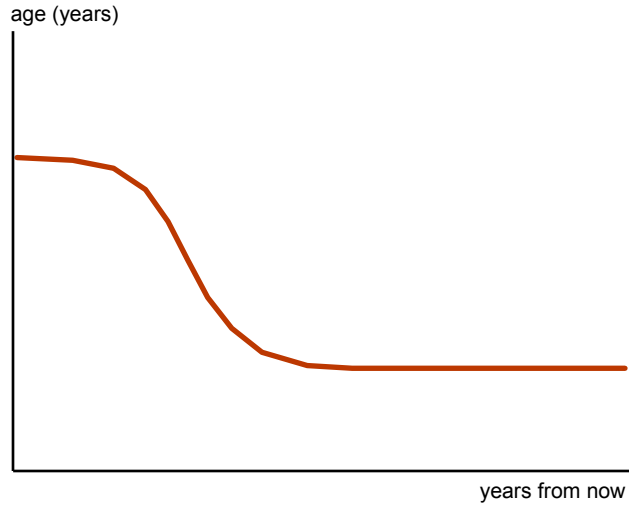
inventory



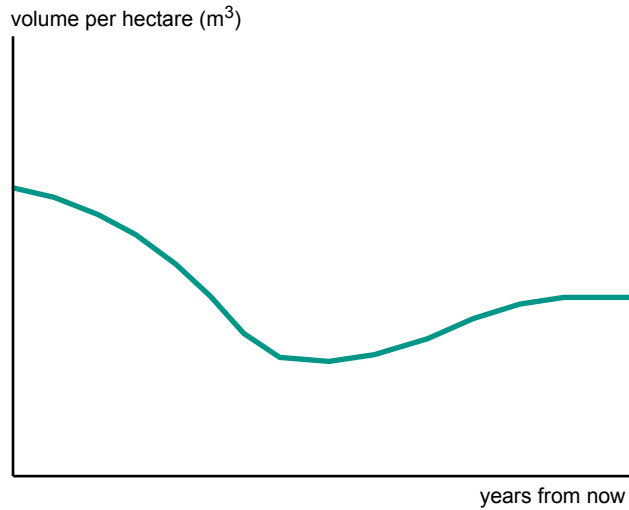


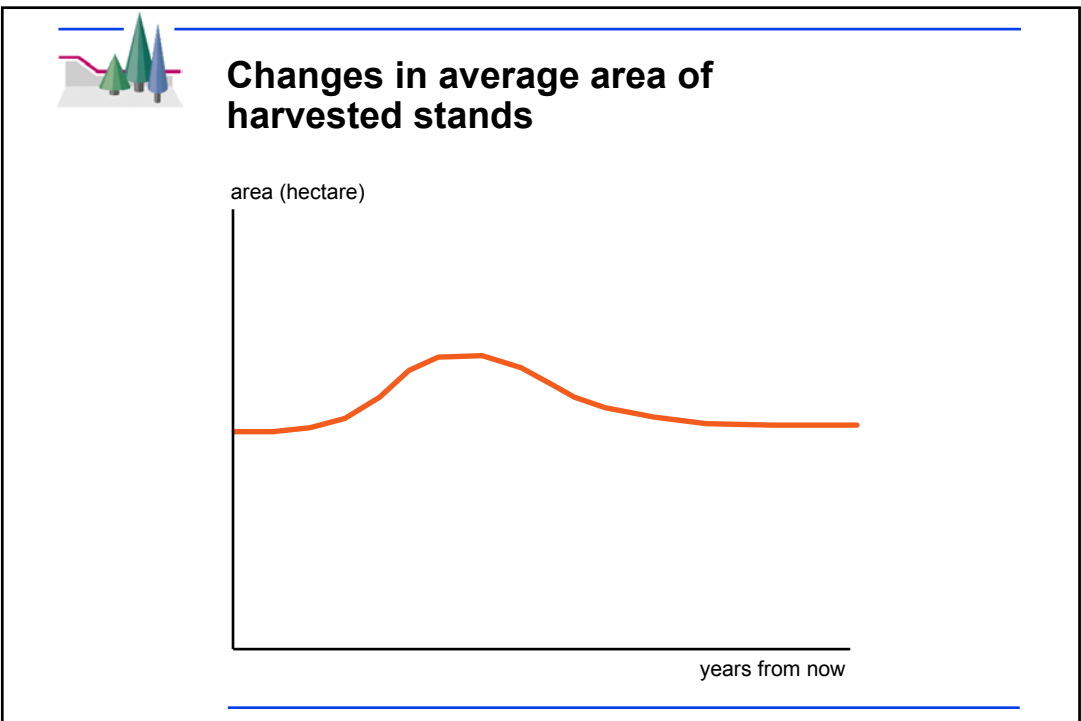
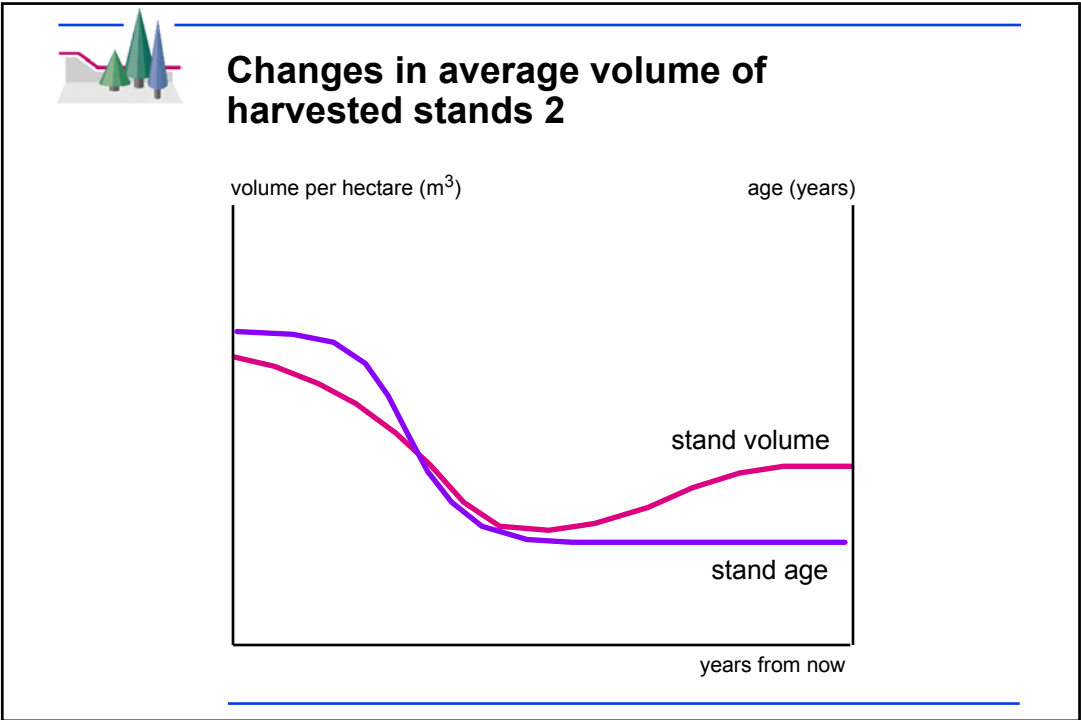


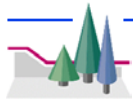
Changes in average age of harvested stands



Changes in average volume of harvested stands 1

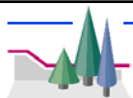






Steps in timber supply analysis to support AAC determination

1. Categorize the landbase
2. Assign management zones
3. Aggregate stands
4. Project growth and yield
5. Identify management activities and requirements
6. Model the timber supply base case
7. Run sensitivity analyses



Working with the timber supply analyst

- Know “current management”
- Know the issues
- Know how issues are being dealt with *on the ground*
- Help analyst understand the issues and the practices
- Start early in the process, collect needed information