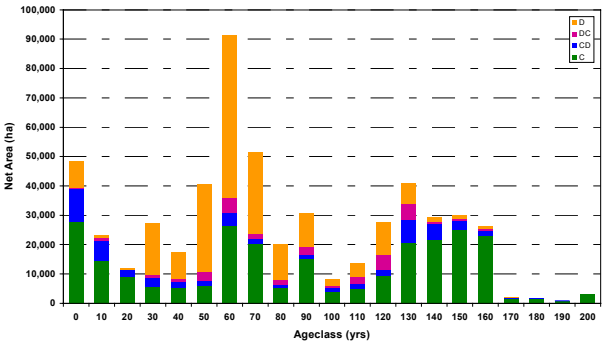
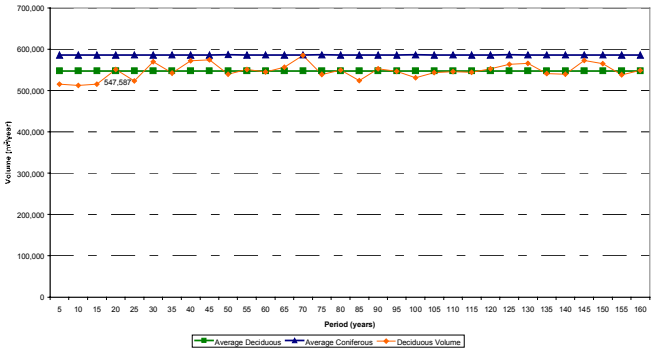
Table H-15: TSA Results – Single Pass with Harvest Constraint

Conifer Harvest Level (m^3/yr – 15/10 utilization standard)	Deciduous Harvest Level (m^3/yr – 15/10 utilization standard)
586,000	547,587

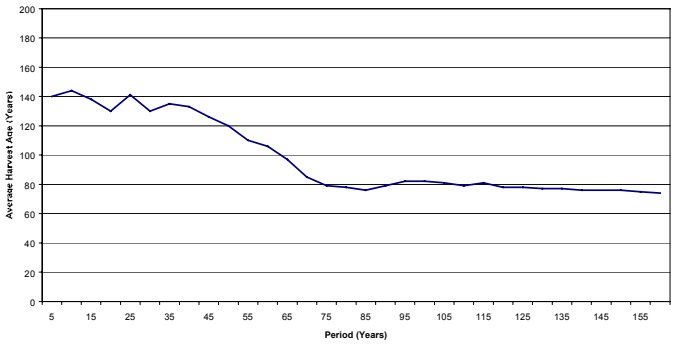
Initial Age Class Distribution



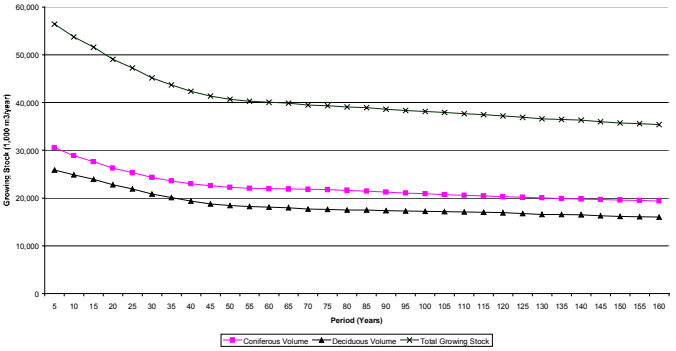
Harvest Flow Summary



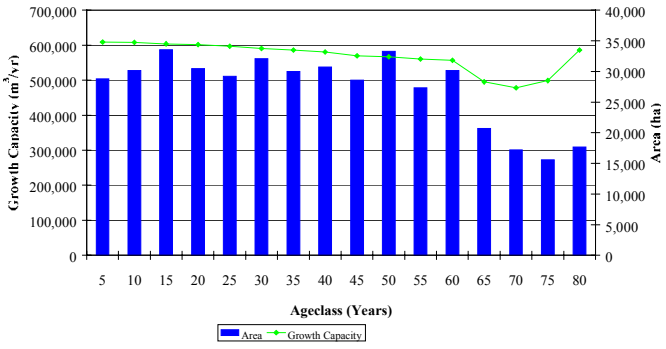
Average Harvest Age



Growing Stock



Forest Structure After 160 Years



Graph Descriptions

Initial age class distribution: Current net area in each ten-year age class, by cover group.

Harvest flow summary: Illustrates the scheduled coniferous and deciduous harvest volume by five-year period over the planning horizon.

Average harvest age: Summary of the area-weighted average age of all stands scheduled for harvest in each five-year period, over the planning horizon.

Growing stock: Summary of total, conifer and deciduous merchantable volume on the net landbase, by five-year period, over the planning horizon.

Forest structure after 160 years: Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.

H.3.3.6 Single Pass with Harvest Constraint and Stand Density Management (SDM)

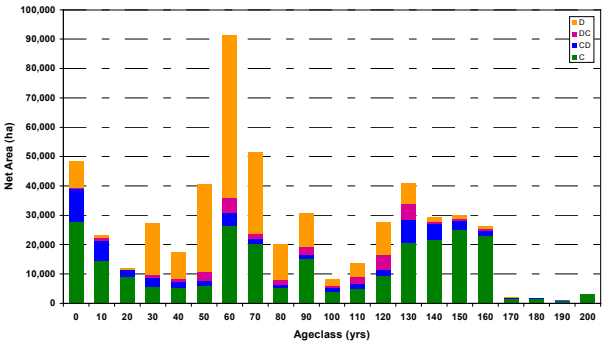
Table H-16: Run Control Parameters – Single Pass with Harvest Constraint and SDM

CONSTRAINT	SIMULATION PARAMETER
FMU	FMA (S1S, S2S, S6S) + S1, S6, S2
Planning horizon	160 years
Targeted average harvest age at the end of the planning horizon:	80+/-5
Minimum harvest age:	1) Conifer 70 Years 2) Deciduous 50 Years
Landbase	Single Landbase
Sorting rules:	1) Oldest First 2) Modulate deciduous flow 3) Maximize conifer harvest
Harvest flow constraint:	Dual Even flow
Yield curve sets:	Nonlinear plot based - 15/10 utilization
Cull deductions:	Applied – 2% Conifer (1.5% conifer in S6S + S6), 10% deciduous
Yield curves:	Net yield curves with Stand Density Management
Regeneration transition:	Stand Density Management
Introduce harvest plans:	Yes
Spatial stand adjacency:	Not applied
Adjacency: Time horizon:	Not applied
Adjacency: Green-up:	Not applied
Adjacency: Accumulate adjacent stands:	Not applied
Modulation	Applied
Operating unit sequencing:	Not applied
Number of compartments open simultaneously:	Not applied

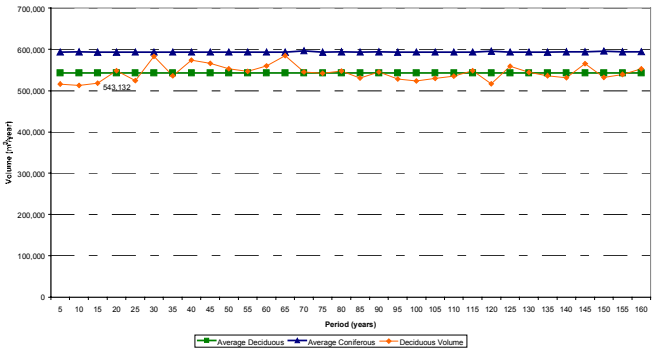
Table H-17: TSA Results – Single Pass with Harvest Constraint and SDM

Conifer Harvest Level (m^3/yr – 15/10 utilization standard)	Deciduous Harvest Level (m^3/yr – 15/10 utilization standard)
593,500	543,132

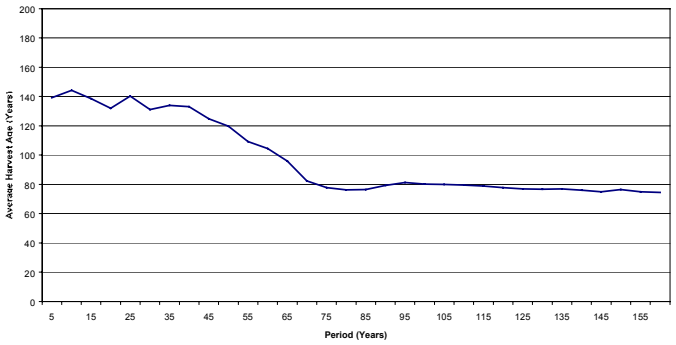
Initial Age Class Distribution



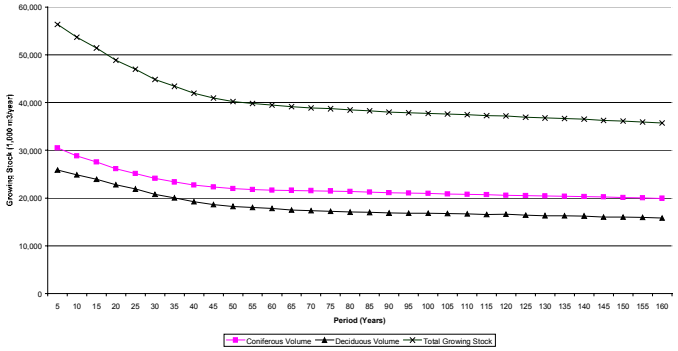
Harvest Flow Summary



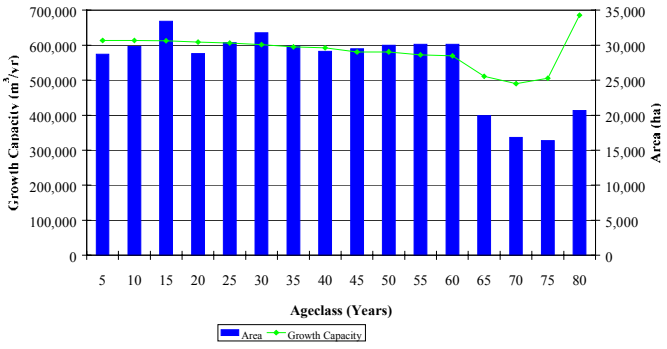
Average Harvest Age



Growing Stock



Forest Structure After 160 Years



Graph Descriptions

Initial age class distribution: Current net area in each ten-year age class, by cover group.

Harvest flow summary: Illustrates the scheduled coniferous and deciduous harvest volume by five-year period over the planning horizon.

Average harvest age: Summary of the area-weighted average age of all stands scheduled for harvest in each five-year period, over the planning horizon.

Growing stock: Summary of total, conifer and deciduous merchantable volume on the net landbase, by five-year period, over the planning horizon.

Forest structure after 160 years: Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.

H.3.3.7 Single Pass with Harvest Constraint, Stand Density Management and Carry-Over

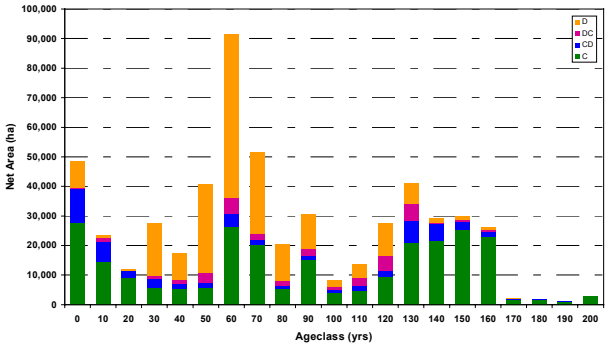
Table H-18: Run Control Parameters – Single Pass with Harvest Constraint, Stand Density Management and Carry-Over

CONSTRAINT	SIMULATION PARAMETER
FMU	FMA (S1S, S2, S2S, S6, S6S)
Planning horizon	160 years
Targeted average harvest age at the end of the planning horizon:	80+/- 5
Minimum harvest age:	1) Conifer 70 Years 2) Deciduous 50 Years
Landbase	Single Landbase
Sorting rules:	1) Oldest First 2) Modulate deciduous flow 3) Maximize conifer harvest
Harvest flow constraint:	Dual Even flow with carry over in conifer
Yield curve sets:	Nonlinear plot based - 15/10 utilization
Cull deductions:	Applied – 2% Conifer (1.5% conifer in S6S + S6), 10% deciduous
Yield curves:	Net yield curves with Stand Density Management
Regeneration transition:	Stand Density Management
Introduce harvest plans:	Yes
Spatial stand adjacency:	Not applied
Adjacency: Time horizon:	Not applied
Adjacency: Green-up:	Not applied
Adjacency: Accumulate adjacent stands:	Not applied
Modulation	Applied
Operating unit sequencing:	Not applied
Number of compartments open simultaneously:	Not applied

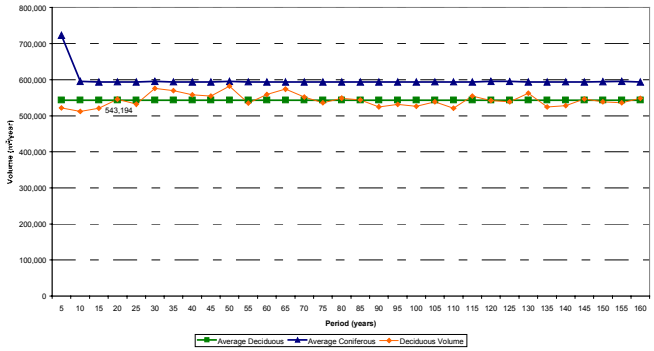
Table H-19: TSA Results – Single Pass with Harvest Constraint, Stand Density Management and Carry-Over

Conifer Harvest Level (m^3/yr – 15/10 utilization standard)	Deciduous Harvest Level (m^3/yr – 15/10 utilization standard)
722,000 (yr. 1-5) step down to 593,500 (yr. 6-160)	543,194

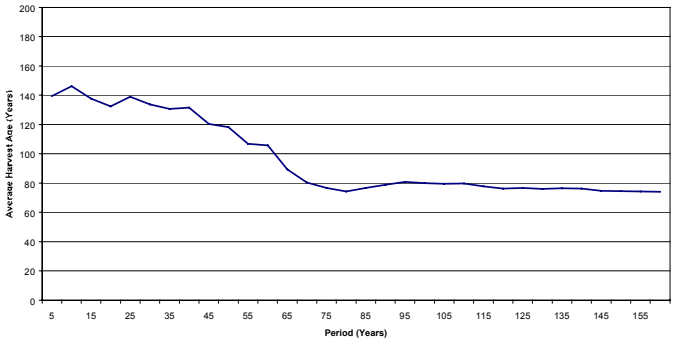
Initial Age Class Distribution



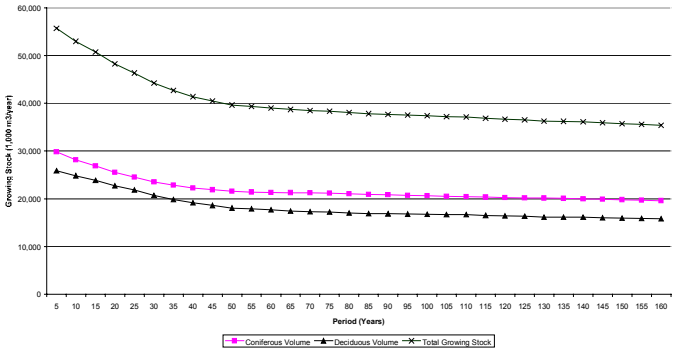
Harvest Flow Summary



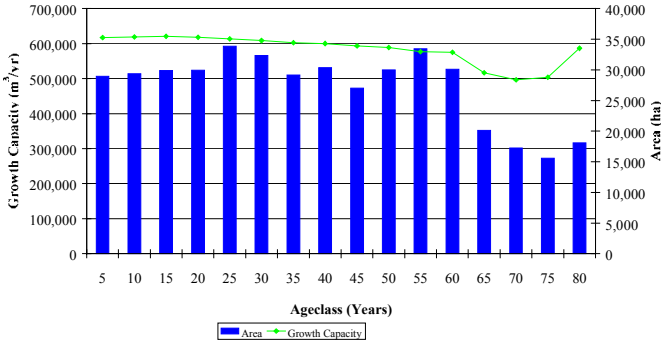
Average Harvest Age



Growing Stock



Forest Structure After 160 Years



Graph Descriptions

Initial age class distribution: Current net area in each ten-year age class, by cover group.

Harvest flow summary: Illustrates the scheduled coniferous and deciduous harvest volume by five-year period over the planning horizon.

Average harvest age: Summary of the area-weighted average age of all stands scheduled for harvest in each five-year period, over the planning horizon.

Growing stock: Summary of total, conifer and deciduous merchantable volume on the net landbase, by five-year period, over the planning horizon.

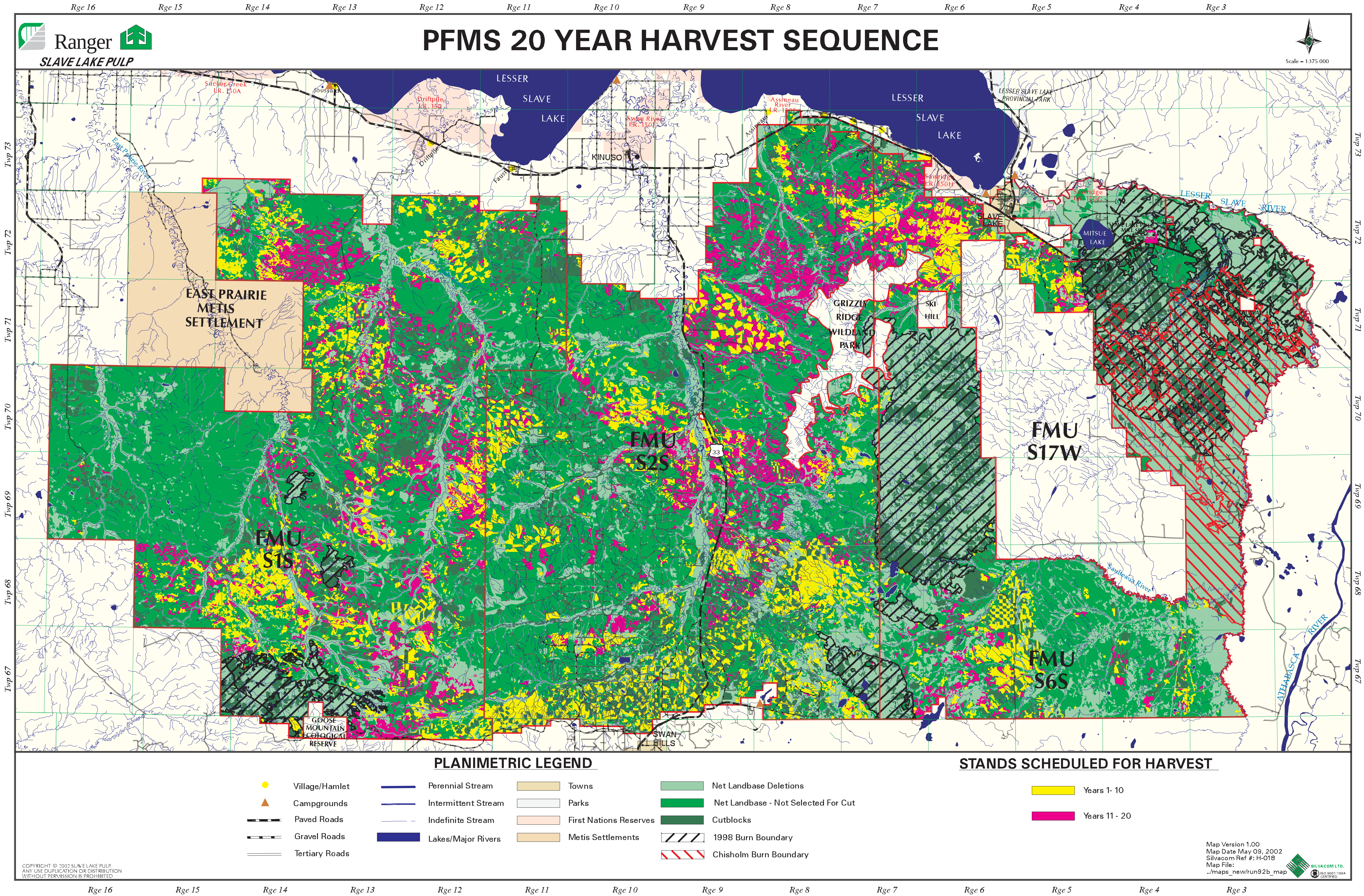
Forest structure after 160 years: Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.

Ranger

SLAVE LAKE PULP

PFMS 20 YEAR HARVEST SEQUENCE

Scale = 1:375 000



PLANIMETRIC LEGEND

- Village/Hamlet
- Campgrounds
- Paved Roads
- Gravel Roads
- Tertiary Roads
- Perennial Stream
- Intermittent Stream
- Indefinite Stream
- Lakes/Major Rivers
- Towns
- Parks
- First Nations Reserves
- Metis Settlements
- Net Landbase Deletions
- Net Landbase - Not Selected For Cut
- Cutblocks
- 1998 Burn Boundary
- Chisholm Burn Boundary

STANDS SCHEDULED FOR HARVEST

- Years 1- 10
- Years 11 - 20

Map Version 1.00
Map Date May 09, 2002
Silvacom Ref #: H-018
Map File:
../maps_new/run92b_map

SILVACOM LTD.

H.3.3.8 Single Pass with Harvest Constraints, SDM and Carry-Over for 10 Years Then Step Down to Two Pass (Risk Analysis)

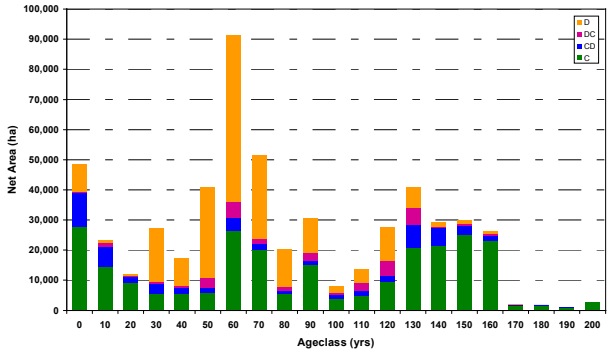
Table H-20: Run Control Parameters – Single Pass with Harvest Constraints, SDM and Carry-Over for 10 Years Then Step Down to Two Pass

CONSTRAINT	SIMULATION PARAMETER
FMU	FMA (S1S, S2S, S6S) + S1, S6, S2
Planning horizon	160 years
Targeted average harvest age at the end of the planning horizon:	80+/-5
Minimum harvest age:	1) Conifer 70 Years 2) Deciduous 50 Years
Landbase	Single Landbase
Sorting rules:	1) Oldest First 2) Modulate deciduous flow 3) Maximize conifer harvest
Harvest flow constraint:	Dual Even flow with carry over in conifer
Yield curve sets:	Nonlinear plot based - 15/10 utilization
Cull deductions:	Applied – 2% Conifer (1.5% conifer in S6S + S6), 10% deciduous
Yield curves:	Net yield curves
Regeneration transition:	DFMP Team Transition
Introduce harvest plans:	Yes
Spatial stand adjacency:	Yes
Adjacency: Time horizon:	50 Years
Adjacency: Green-up:	15 Conifer / 10 Deciduous
Adjacency: Accumulate adjacent stands:	Yes (Maximum 300 ha) after initial 10 years of harvest
Modulation	Applied
Operating unit sequencing:	Not applied
Number of compartments open simultaneously:	Not applied

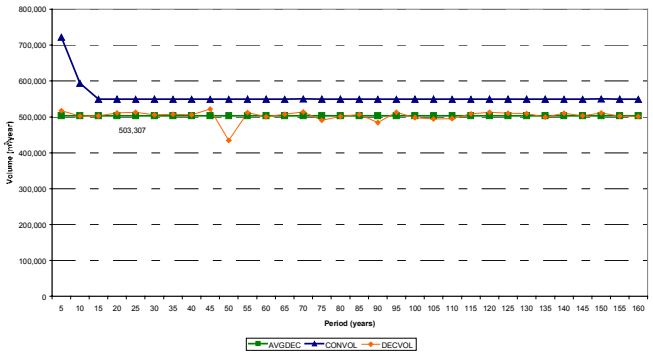
Table H-21: TSA Results – Single Pass with Harvest Constraints, SDM and Carry-Over for 10 Years Then Step Down to Two Pass

Conifer Harvest Level (m^3/yr – 15/10 utilization standard)	Deciduous Harvest Level (m^3/yr – 15/10 utilization standard)
722,000 (yr. 1-5) step down to 593,500 (yr. 6-10) step down to 549,000 (yr. 11-160)	503,307

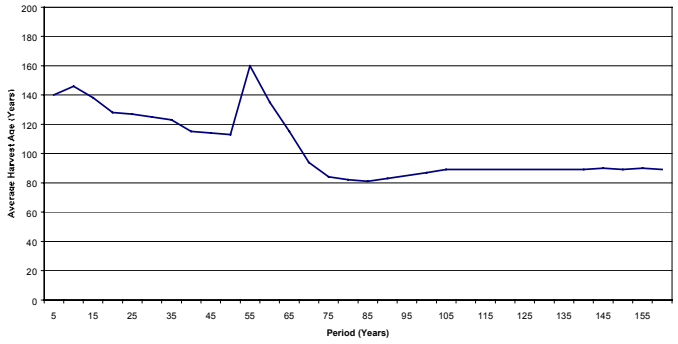
Initial Age Class Distribution



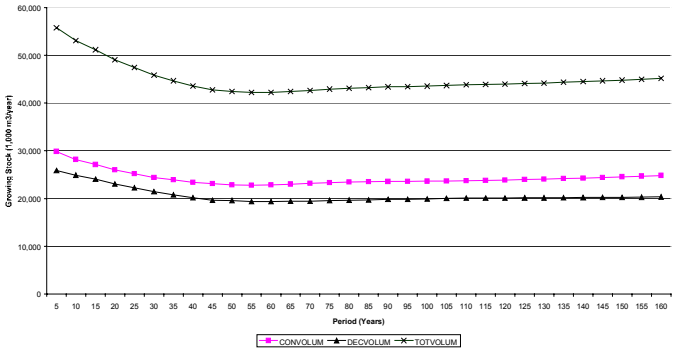
Harvest Flow Summary



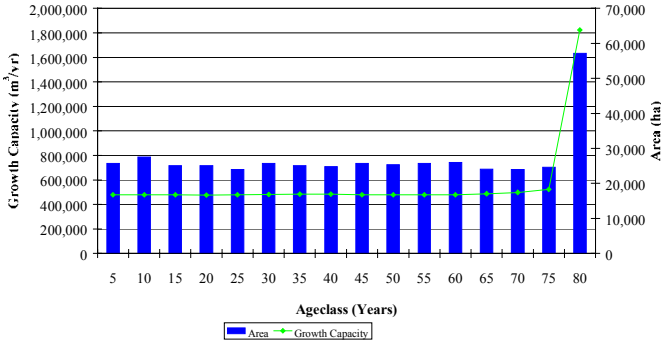
Average Harvest Age



Growing Stock



Forest Structure After 160 Years



Graph Descriptions

Initial age class distribution: Current net area in each ten-year age class, by cover group.

Harvest flow summary: Illustrates the scheduled coniferous and deciduous harvest volume by five-year period over the planning horizon.

Average harvest age: Summary of the area-weighted average age of all stands scheduled for harvest in each five-year period, over the planning horizon.

Growing stock: Summary of total, conifer and deciduous merchantable volume on the net landbase, by five-year period, over the planning horizon.

Forest structure after 160 years: Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.

H.3.3.9 Single Pass with Harvest Constraints and SDM for 10 Years then Step Down to Single Pass (Risk Analysis)

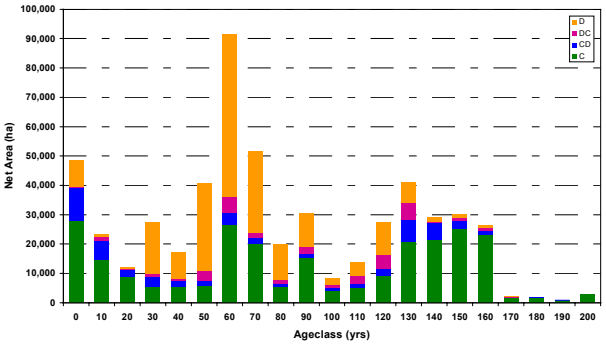
Table H-22: Run Control Parameters – Single Pass with Harvest Constraints and SDM for 10 Years then Step Down to Single Pass

CONSTRAINT	SIMULATION PARAMETER
FMU	FMA (S1S, S2S, S6S) + S1, S6, S2
Planning horizon	160 years
Targeted average harvest age at the end of the planning horizon:	80+/-5
Minimum harvest age:	1) Conifer 70 Years 2) Deciduous 50 Years
Landbase	Single Landbase
Sorting rules:	1) Oldest First 2) Modulate deciduous flow 3) Maximize conifer harvest
Harvest flow constraint:	Dual Even flow with SDM Drop to Single Pass Level
Yield curve sets:	Nonlinear plot based - 15/10 utilization
Cull deductions:	Applied – 2% Conifer (1.5% conifer in S6S + S6), 10% deciduous
Yield curves:	Net yield curves
Regeneration transition:	DFMP Team Transition
Introduce harvest plans:	Yes
Spatial stand adjacency:	Not applied
Adjacency: Time horizon:	Not applied
Adjacency: Green-up:	Not applied
Adjacency: Accumulate adjacent stands:	Not applied
Modulation	Applied
Operating unit sequencing:	Not applied
Number of compartments open simultaneously:	Not applied

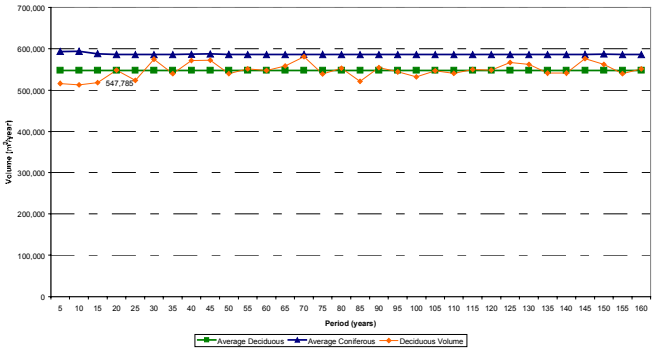
Table H-23: TSA Results – Single Pass with Harvest Constraints and SDM for 10 Years then Step Down to Single Pass

Conifer Harvest Level (m^3/yr – 15/10 utilization standard)	Deciduous Harvest Level (m^3/yr – 15/10 utilization standard)
593,500 (yr. 1-10) step down to 586,000 (yr. 11-160)	547,785

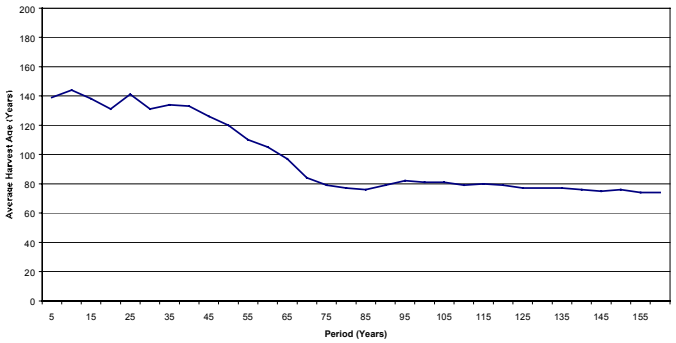
Initial Age Class Distribution



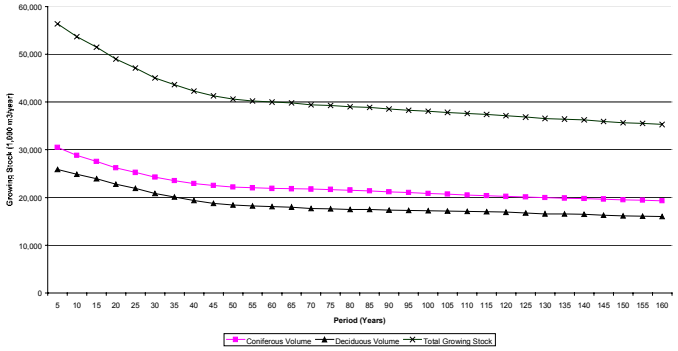
Harvest Flow Summary



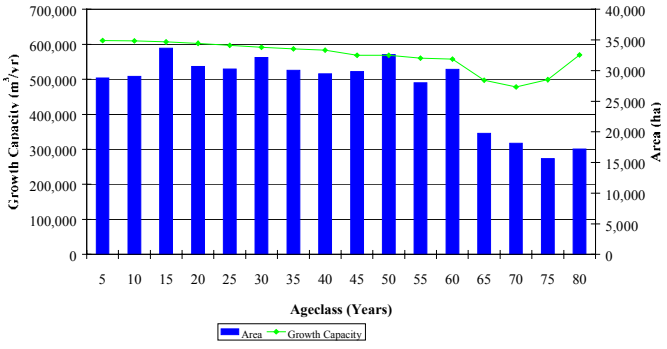
Average Harvest Age



Growing Stock



Forest Structure After 160 Years



Graph Descriptions

Initial age class distribution: Current net area in each ten-year age class, by cover group.

Harvest flow summary: Illustrates the scheduled coniferous and deciduous harvest volume by five-year period over the planning horizon.

Average harvest age: Summary of the area-weighted average age of all stands scheduled for harvest in each five-year period, over the planning horizon.

Growing stock: Summary of total, conifer and deciduous merchantable volume on the net landbase, by five-year period, over the planning horizon.

Forest structure after 160 years: Projected structure of the net landbase after 160 years. The age class distribution (bars) and harvest age volume (growth capacity – line symbol) associated with each age class are presented.