

Slave Lake Pulp Corporation

2000 Detailed Forest Management Plan

H.3.3.3 Required Analysis - Two Pass

Table H-10: Run Control Parameters – Two Pass

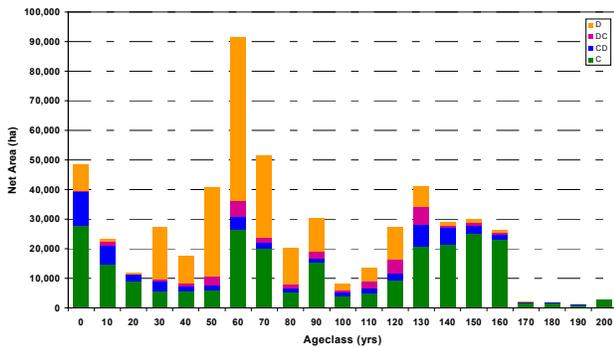
| <u>CONSTRAINT</u> | <u>SIMULATION PARAMETER</u> |
|--|--|
| FMU | FMA (S1S, S2S, S6S) + S1, S6, S2 |
| Planning horizon | 160 years |
| Targeted average harvest age at the end of the planning horizon: | 80+/-5 |
| Minimum harvest age: | 1) Conifer 70 Years 2) Deciduous 50 Years |
| Landbase | Single 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 |
| Regeneration transition: | DFMP Team Transition |
| Introduce harvest plans: | No |
| Spatial stand adjacency: | Yes – 70 m adjacency applied across anthropogenic features |
| Adjacency: Time horizon: | 50 Years |
| Adjacency: Green-up: | 15 Conifer / 10 Deciduous |
| Adjacency: Accumulate adjacent stands: | Yes (Maximum 300 ha) |
| Modulation | Applied |
| Operating unit sequencing: | Not applied |
| Number of compartments open simultaneously: | Not applied |

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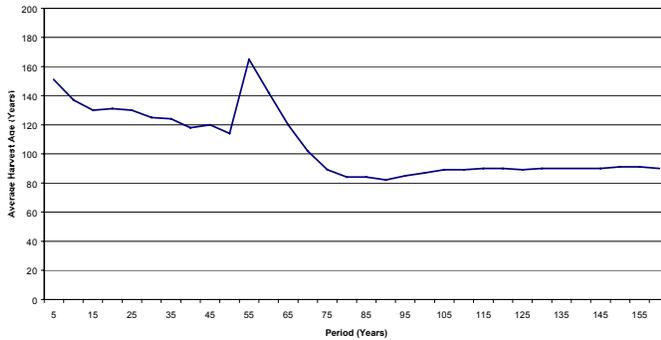
Table H-11: TSA Results – Two Pass

| Conifer Harvest Level (m ³ /yr – 15/10 utilization standard) | Deciduous Harvest Level (m ³ /yr – 15/10 utilization standard) |
|--|--|
| 549,000 | 501,599 |

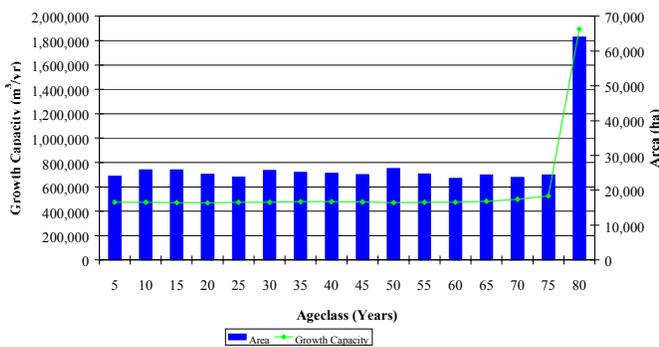
Initial Age Class Distribution



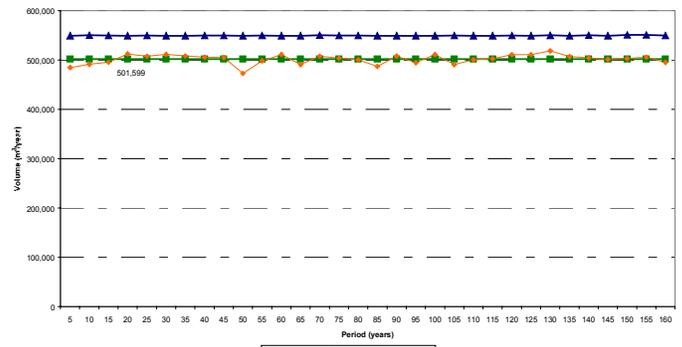
Average Harvest Age



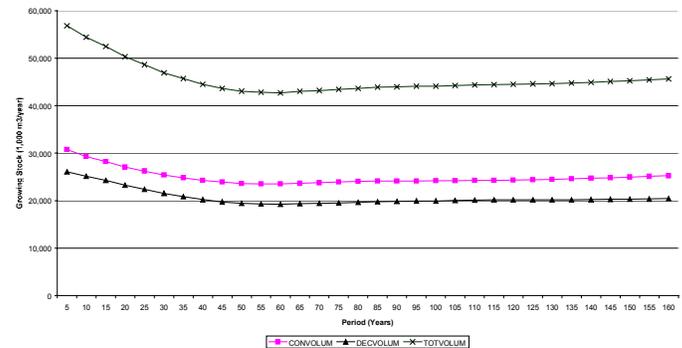
Forest Structure After 160 Years



Harvest Flow Summary



Growing Stock



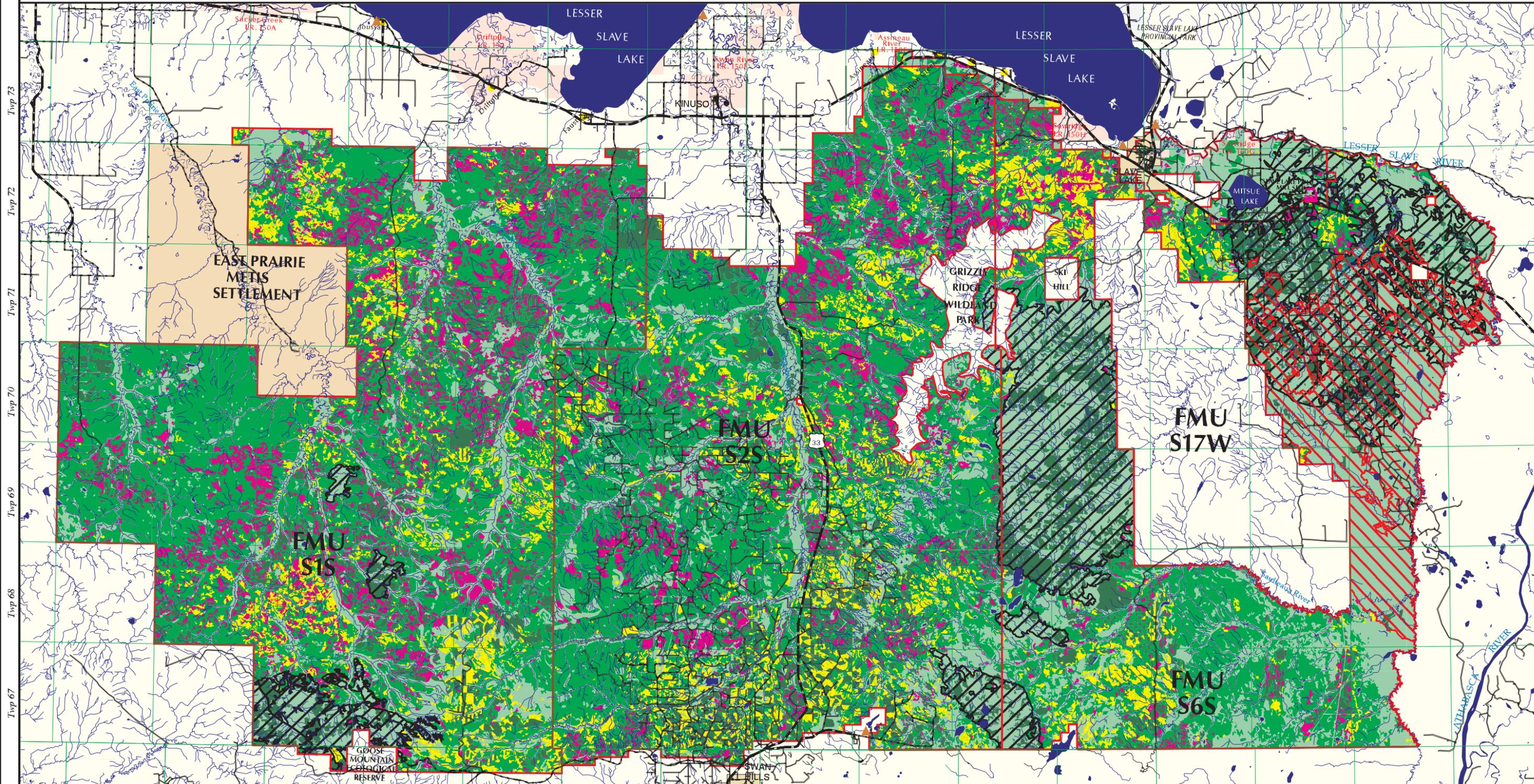
Graph Descriptions

- 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.



TWO-PASS 20 YEAR HARVEST SEQUENCE

Scale = 1:375 000



PLANIMETRIC LEGEND

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

STANDS SCHEDULED FOR HARVEST

- Years 1- 10
- Years 11 - 20



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H.3.3.4 Required Analysis - Two Pass for One Rotation, Step Up/Down to LRSYA

Table H-12: Run Control Parameters – Two Pass With Step Up to LRSYA

| <u>CONSTRAINT</u> | <u>SIMULATION PARAMETER</u> |
|--|--|
| 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 two pass for 1 rotation then step up to LRSYA |
| 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: | No |
| Spatial stand adjacency: | Yes – 70 m adjacency applied across anthropogenic features |
| Adjacency: Time horizon: | 50 Years |
| Adjacency: Green-up: | 15 Conifer / 10 Deciduous |
| Adjacency: Accumulate adjacent stands: | Yes (Maximum 300 ha) |
| Modulation | Applied |
| Operating unit sequencing: | Not applied |
| Number of compartments open simultaneously: | Not applied |

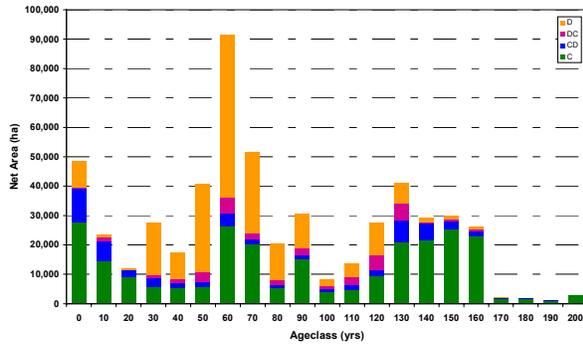
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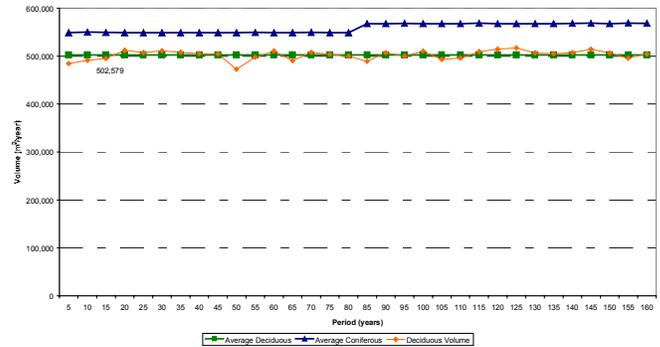
Table H-13: TSA Results – Two Pass With Step Down to LRSYA

| Conifer Harvest Level (m ³ /yr – 15/10 utilization standard) | Deciduous Harvest Level (m ³ /yr – 15/10 utilization standard) |
|--|--|
| 549,000 (yr. 1-80) step up to fully stocked LRSYA 567,787 (yr. 81-160) | 502,579 |

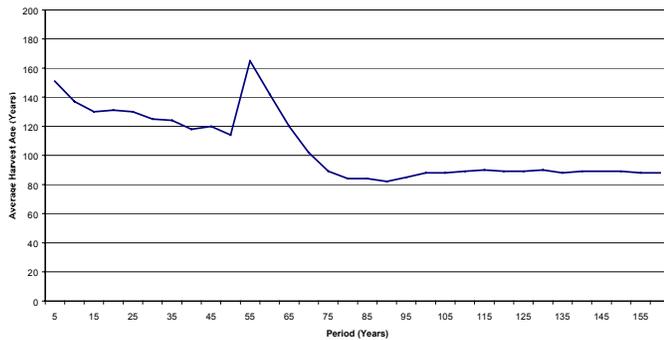
Initial Age Class Distribution



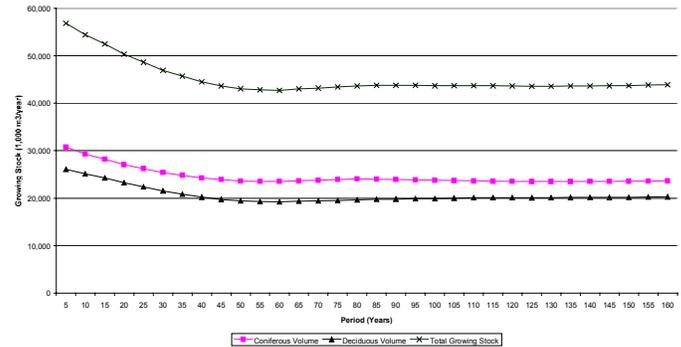
Harvest Flow Summary



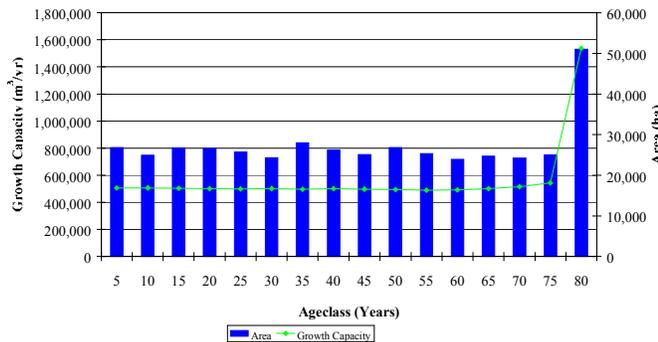
Average Harvest Age



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.

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H.3.3.5 Single Pass with Harvest Constraint

Table H-14: Run Control Parameters – Single Pass with Harvest Constraint

| <u>CONSTRAINT</u> | <u>SIMULATION PARAMETER</u> |
|--|--|
| 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 |
| 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 |