Enhancing Silviculture Policy in Ontario

Silviculture Symposium March 21, 2017 Thunder Bay, Ontario



- Introduction
 - How did we get here?
 - Where are we now?
 - Where are we going?
 - How will we get there?





How did we get here?

- Auditor General of Ontario -
 - "To better ensure that the province's Crown forests are successfully regenerated after harvesting ... ";
 - "To ensure that the Silviculture
 Effectiveness Monitoring (SEM) program
 adequately assesses the effectiveness of
 industry-reported renewal efforts ... "





How did we get here?

- <u>S</u>ilviculture <u>Enhancement</u> <u>Initiative</u>
 - Review of silviculture program (2012)
 - Questionnaire to practitioners (2013)
 - Discussion paper including
 - opportunities for improvement (2014)
 - Planning and Monitoring Team (2014)
 - Decision Notice ER # 012-0913 (2016)





Where are we now?

- Forest Management Planning Manual
- Forest Operations and Silviculture Manual
 - Associated policies
- Forest Information Manual
 - Technical specifications





- New manual implementation July 2017
- Phase-in according to provisions in new manual and the planning cycle of the forest





Opportunities for improvement • Regeneration Standards

How do I want the stand to grow?

• Assessment of regeneration status

✤ Is the stand developing as expected?

- Past silvicultural results
 - What is growing in the forest?
- Reconciliation to targets
 - Am I on the right track?





Regeneration Standards • A regeneration standard is a

measureable goal that provides

an early indication that a stand

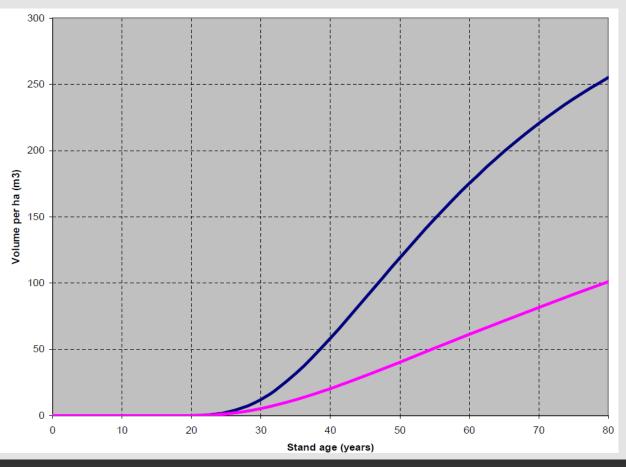
will develop as predicted in the

forest management plan.



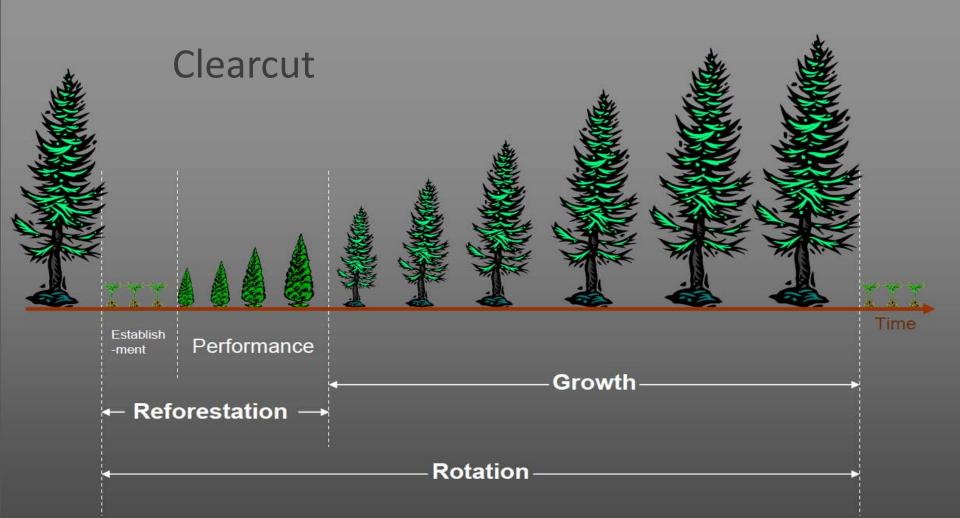


Regeneration Standards

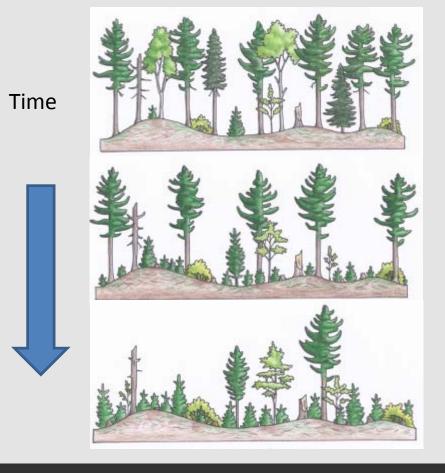








Shelterwood

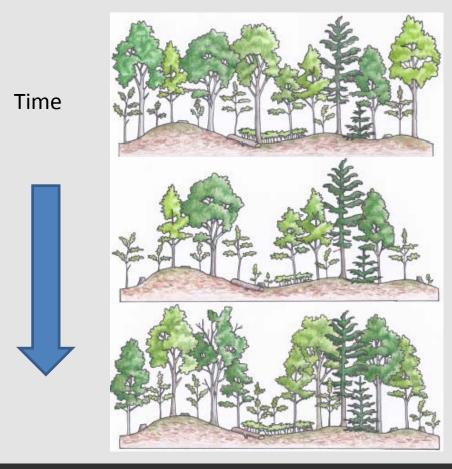


Establishment

Performance



Selection



Establishment

Performance





Assessment of Regeneration Status

- Replacing free-to-grow with establishment and performance
- Regeneration assessments determine the status of regeneration in relation to targets described in the regeneration standard





Assessment of Regeneration Status

- All harvested stands measured for establishment
- Information will meet a predetermined standard for accuracy and precision
- MNRF will validate information before it gets included in an annual report





Assessment of Regeneration Status

- A sample of the silvicultural stratum will be measured for performance
- Forest managers will provide a measure of quality assurance



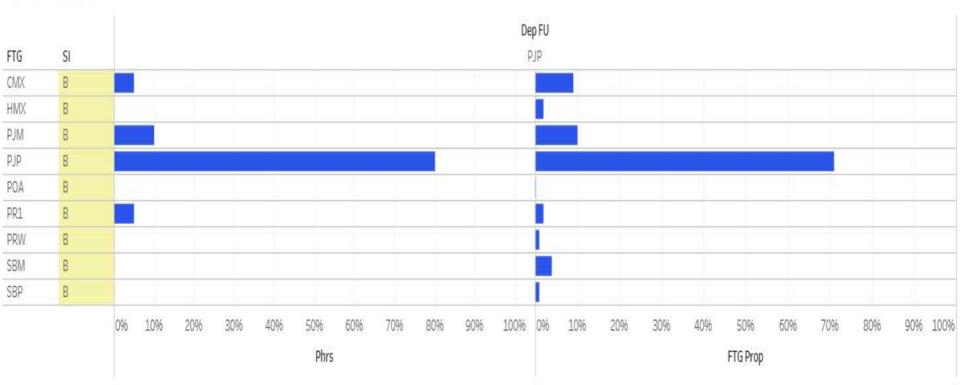


Past Silvicultural Results

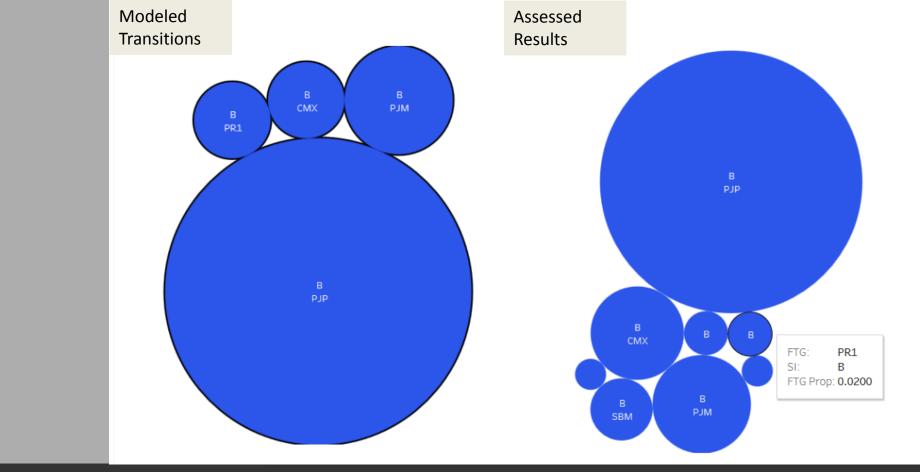
- Reported silviculture results will directly inform silviculture inputs.
- Adjustments to treatments that lead to change to the inputs will be documented. Monitor the treatment to ensure that it happens.



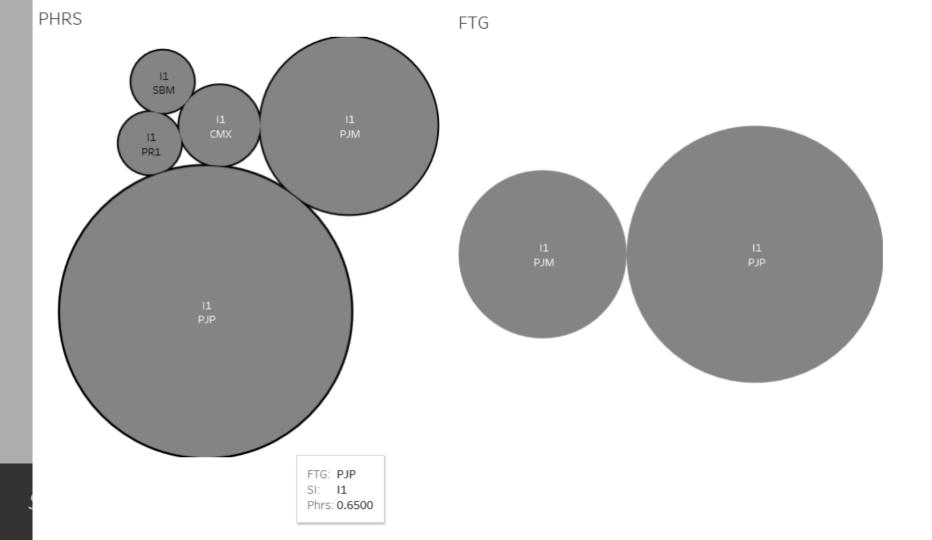
FTG vs. Planned













Reconciliation to targets

- Reconcile the progress of actual regeneration to the silvicultural targets in the FMP in enhanced annual reports.
- Results-based rather than process based reporting.





Reconciliation to targets

- Leads to better decision making in development of annual work schedules and future plans.
- Enhanced annual reports beginning with 2017/18





Implementation

- Three MNRF task teams have been established to develop policy and procedures described in the decision notice.
- These requirements will be implemented along with FMPM2017.





Discussion

