

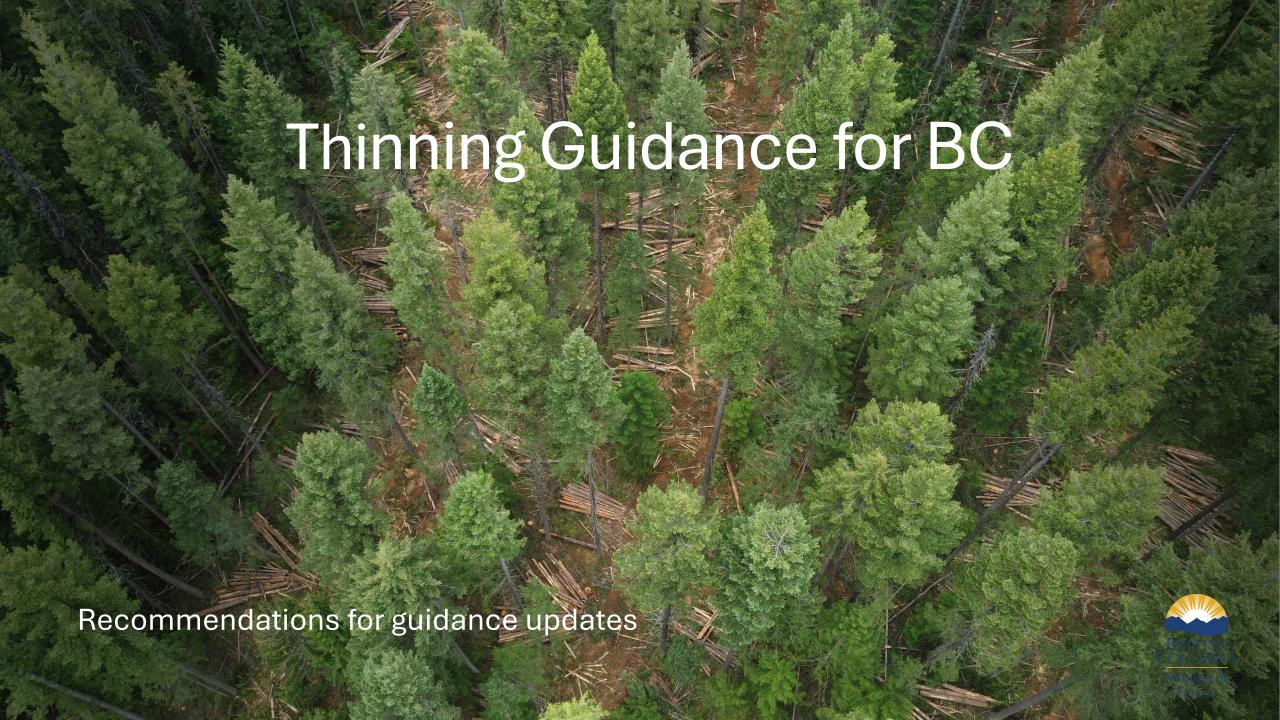
Practical guidelines for a woodlot audience and continuous improvement of provincial

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Northern Silviculture Committee; February 19, 2025









Field monitoring 2024

- 9 blocks (8+1)
- Central interior
- SBS moist or wet subzones

Data collected

- 71 full measure, 65 count
- 200 m², 10m x 20m
- Included trail and thinning zone

Post-thinning trends

- SI >22
- Top height 18-22m, mean ht >15m
- QMDBH >19cm
- Retained BA >20m²/ha
- Total density 500-800sph



What is thinning?



A type of partial harvest or stand tending, but not all partial cutting is thinning.

The removal of individual trees from a stand to maintain or improve the health of remaining trees.

It's commercial when material is removed or utilized.



Thinning goals

Improve stand condition

Enhance economic value

Maintain overstorey site occupancy

Promote innovation

Enhance fibre utilization Support ecosystem resilience

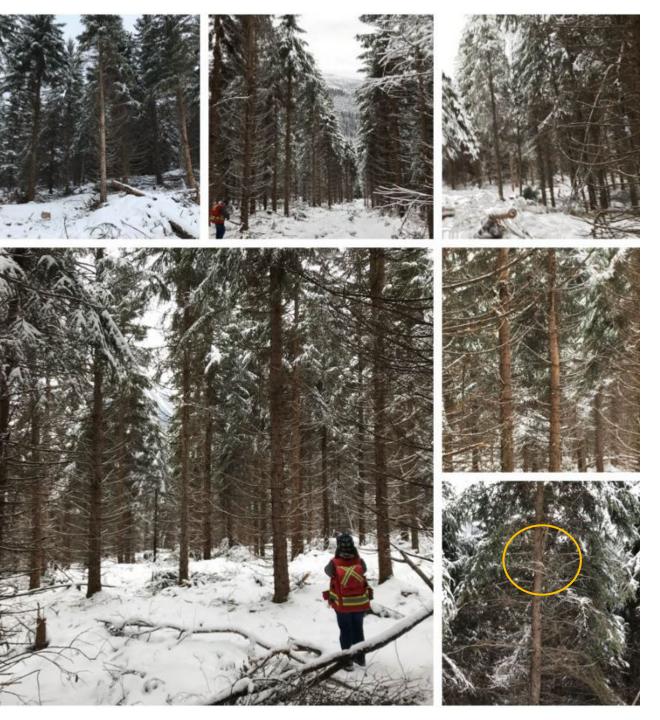
Support forested ecosystem resilience





• Pre vs Post-thinning similar stands near Terrace: Post-thinning densities are lower than desired for timber, but ecosystem resilience is improved.

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Improve stand condition

Pre vs post-thinning near McBride: thinned out the poor form spruce.



Prescription & rationale development

Collect stand data to 7.5cm dbh and a 5cm top.

Species, heights, diameters, BA, % live crown, forks, insects or disease Review the diagrams in Appendix 2 for stands that may benefit from thinning and the modelled volume impacts of proposed removal amount

Legislation/Policy/FSP direction

Maintenance/recruitment of desirable attributes

Document the rationale



Operations

Prioritize removal of dead, damaged, and diseased trees.

Minimize impacts to the **soil,**roots and below-ground

Cor
distril

Consider chains or rubber tires, brush mats or shutting down in wet weather.

ecosystem.

Leave broadleaves or rare species standing when they are not being utilized.

Consider stratifying/excluding mappable patches from the net area to be reforested.

Retain >50% of the stand's basal area. For many stands this will be a heavy thinning, and it may be susceptible multiple damage agents.

Consider continuity and distribution of **surface fuels** left on site.

Slash may require management as part of a wildfire hazard reduction objective.

FPInnovations Operational
Manual for Commercial
Thinning in British Columbia
(2021): This is a good source of
additional information.



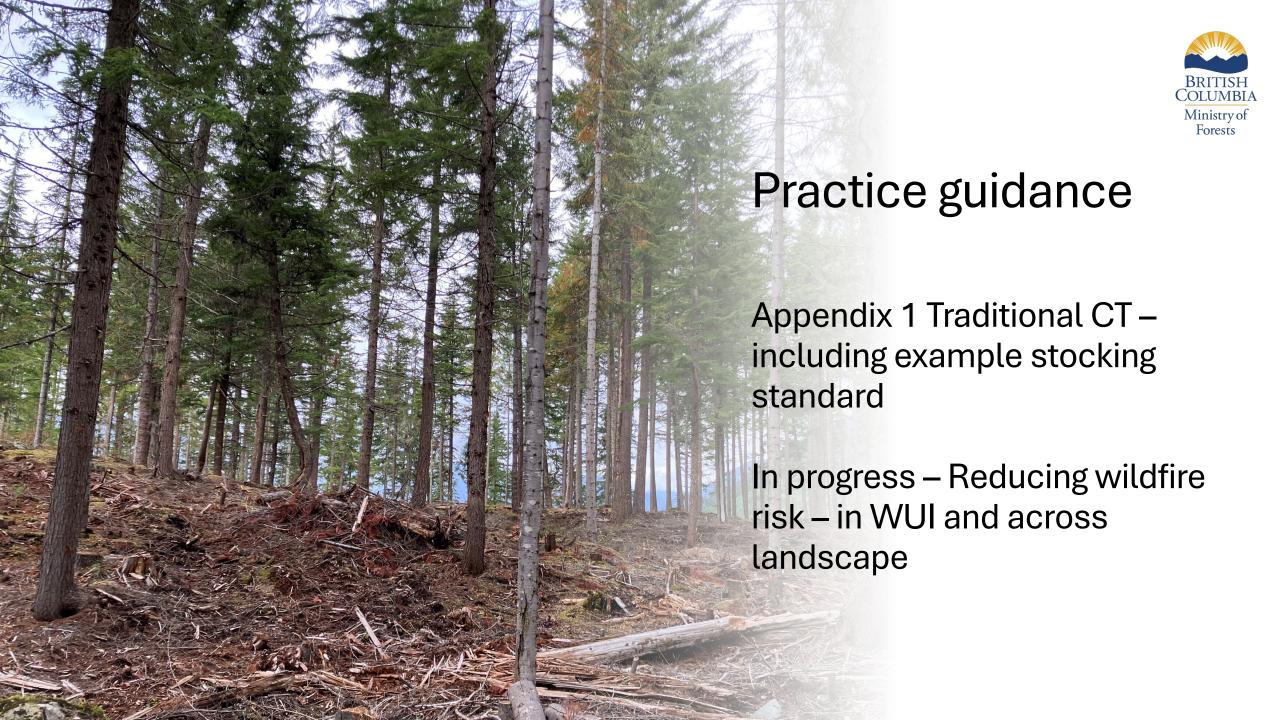
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Post-thinning data collection

The professional must collect enough post-thinning data to confirm that the:

- principles were followed, (e.g. pre-thinning basal area, species and condition),
- stocking standard was achieved, (e.g. post-thinning basal area or density and species), and
- thinning harvest activity and updated forest cover label was reported to the Minister (via RESULTS).





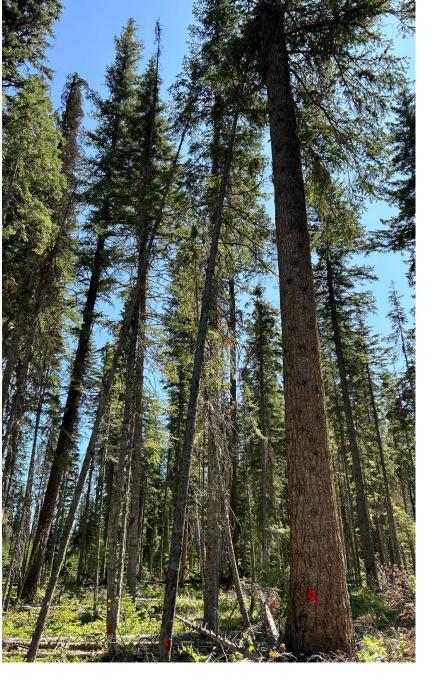
Questions/ comments



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What went well?

- Very little stem damage
- Retention levels high and a diversity of species
- Stable stands no significant windthrow
- Small amounts of slash mostly confined to trails
- Animal use observed







Opportunities for improvement

- Stem quality (Pli especially)
- Thinning thru whole stand (not just trails)
- Trail width









Opportunities for improvement

- Reporting to RESULTS after thinning
- Post-thinning Survey methodology
- Monitoring methodology





