

TFL 55

2005 Operability Report

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Operability Report

1.0 Purpose

The purpose of the operability mapping is to define the gross operable timber landbase for TFL 55 to:

- Redefine operability based on criteria that reflects the short term to mid-term operability potential of the productive landbase.
- Provide a operable landbase to be used in the timber supply analysis for management plan 4.

As part of TFL 55 timber supply analysis, a re-assessment of the existing (1999) operability line was conducted this summer. The objective was to accurately define the gross operable landbase for the TFL.

2.0 Operability Classes

The operability classes have been classified as either Operable conventional or Inoperable.

Operable conventional reflects the area and terrain LP currently considers operable. Harvest methods include ground based or cable (grapple or tower) systems. No helicopter or long line systems were included in this classification.

Inoperable areas are areas that have or can grow merchantable size timber but due to low volumes, species composition, or inaccessibility are not currently economical to log using the above noted conventional harvest systems.

3.0 Methodology

The methodology for preparing the operability classification included the approach set out below:

1 – The first step in this process began using a GIS process to identify suitable timber types near the operability line. These polygons were overlaid with the ortho photo's and potential areas were highlighted.

2. – A helicopter overview flight of the highlighted areas was conducted to further refine or reject the possible areas.

3 – The helicopter-adjusted areas were overlain again on ortho-photos and transferred to air-photos for interpretation.

4 – An experienced local layout/engineering consultant was retained to field verify the areas. The decision to reject or retain the polygon was based upon;

- Access potential
- Species composition
- Harvest system (ground-based, grapple and highlead cable)

An operable area was defined as an area that can produce a merchantable stand of timber that is physically accessible at a feasible cost. Hemlock leading stands as well as area requiring a helicopter logging systems were rejected. A summary report was produced for each unit.

Summary

The new operability line is illustrated in Map 3, 2005 Operability Map at 1: 275,000 scale. Hardcopy maps at 1:75,000 are also available.

The following tables summarize the results of the operable area additions to TFL 55.

Table 1 Area Summary of 2005 Additional Operable Hectares

	(ha)
1. Total identified by helicopter	2796
2. Field verified	1779
3. Area above 1999 operability line existing field layout or CP	257
4. Total additional area to THLB (2 + 3)	2036

Table 2 Landbase Summary

Landbase Classification	MP 3 Area	MP4 Area	Difference
Total Landbase	92,700	92,744	44
Ownership	-	38	38
Total TFL	92,700	92,706	6
Non-productive, Non-forest	47,300	36,801	(10,499)
Roads	858	802	(56)
Productive Landbase	44,542	55,103	10,561
Non-commercial	5	-	(5)
Alpine Tundra	40	-	(40)
Inoperable	22,551	30,244	8,326
Operable Landbase	21,946	24,859	2,913
Terrain	551	698	147
Riparian Reserves	433	810	387
Low Site	121	127	6
Deciduous	164	85	(79)
Non-merchantable	508	421	(87)
NSR	555	87	(468)
Wildlife Tree Patches	386	290	(96)
Timber Harvesting Landbase	19,228	22,341	3,113

* The Timber Harvest Landbase has increased by 3113ha, which includes new operability mapping, changes in timber inventory classification (VRI) and updated net downs.

Table 3- Age class by Volume Distribution of 2005 additional Operable Hectares

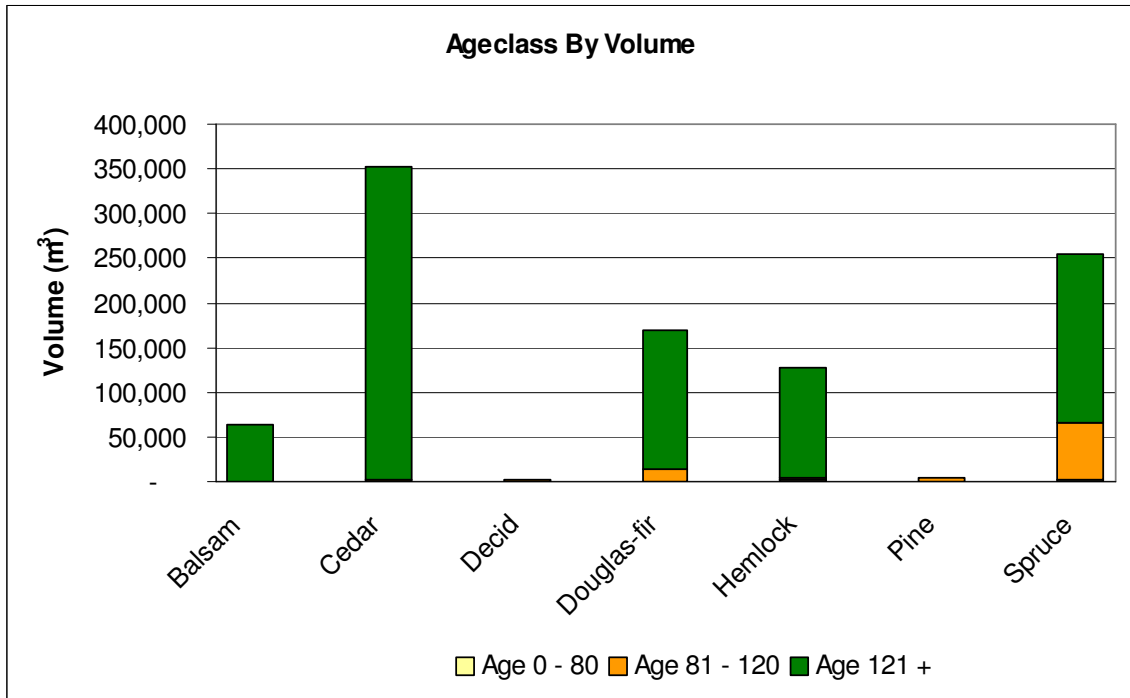
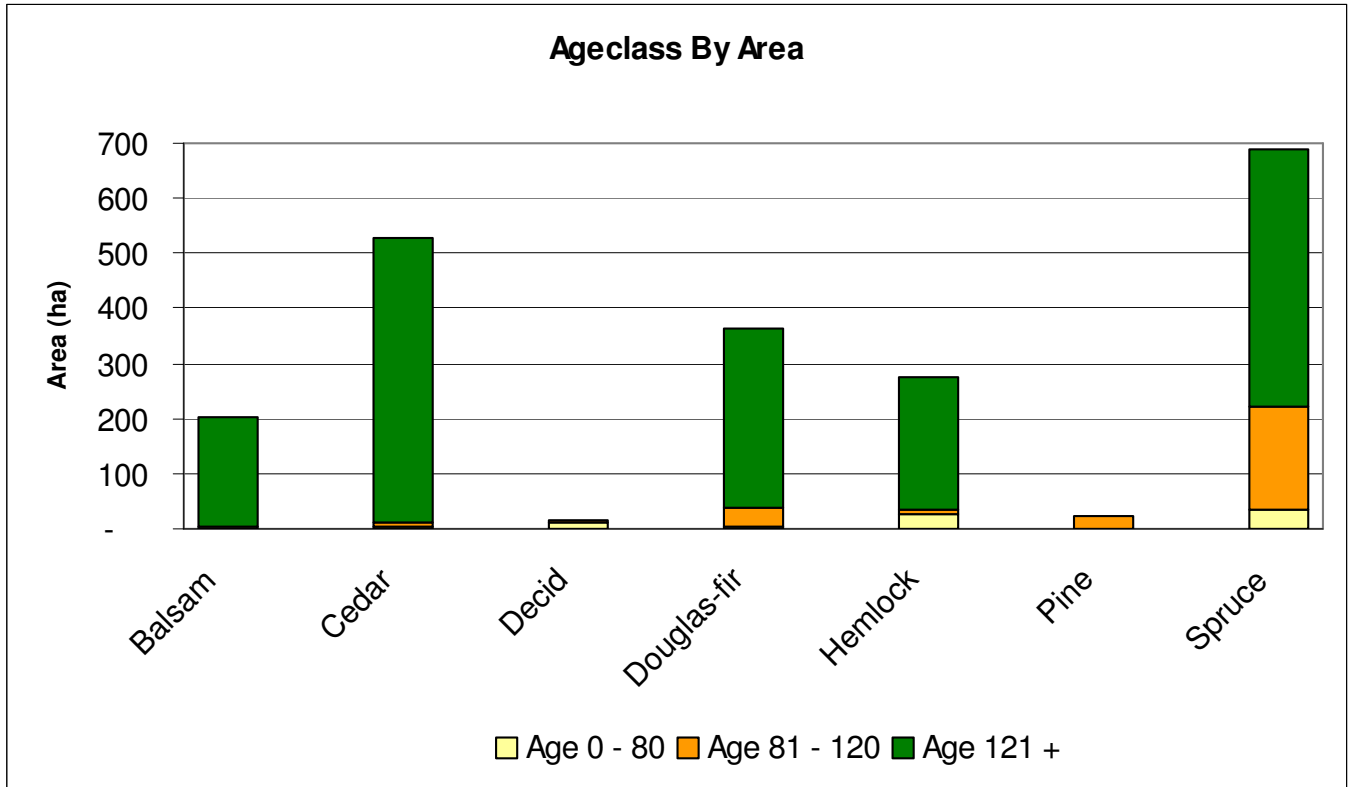
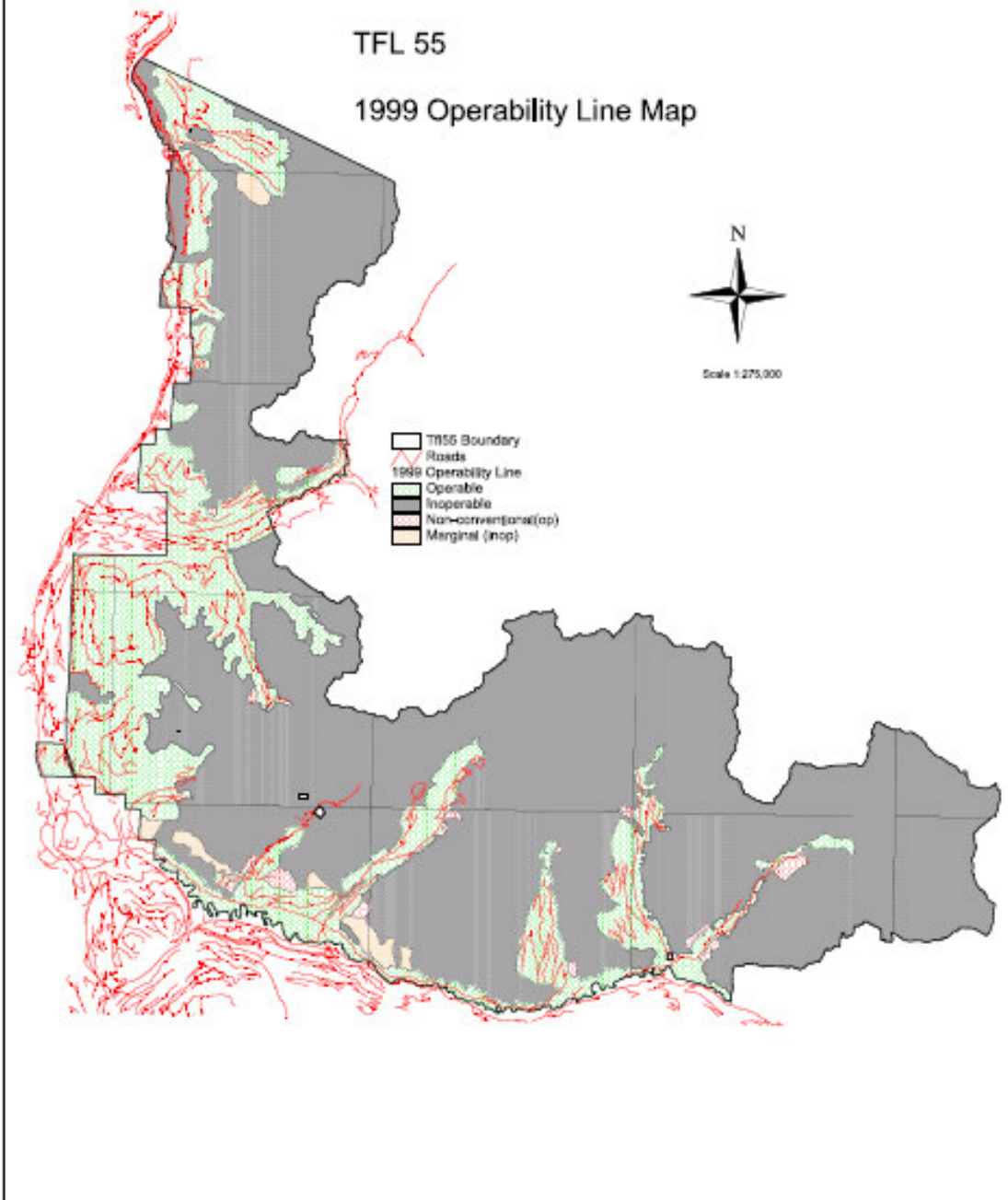


Table 4 – Age class by Area Distribution of 2005 additional Operable Hectares



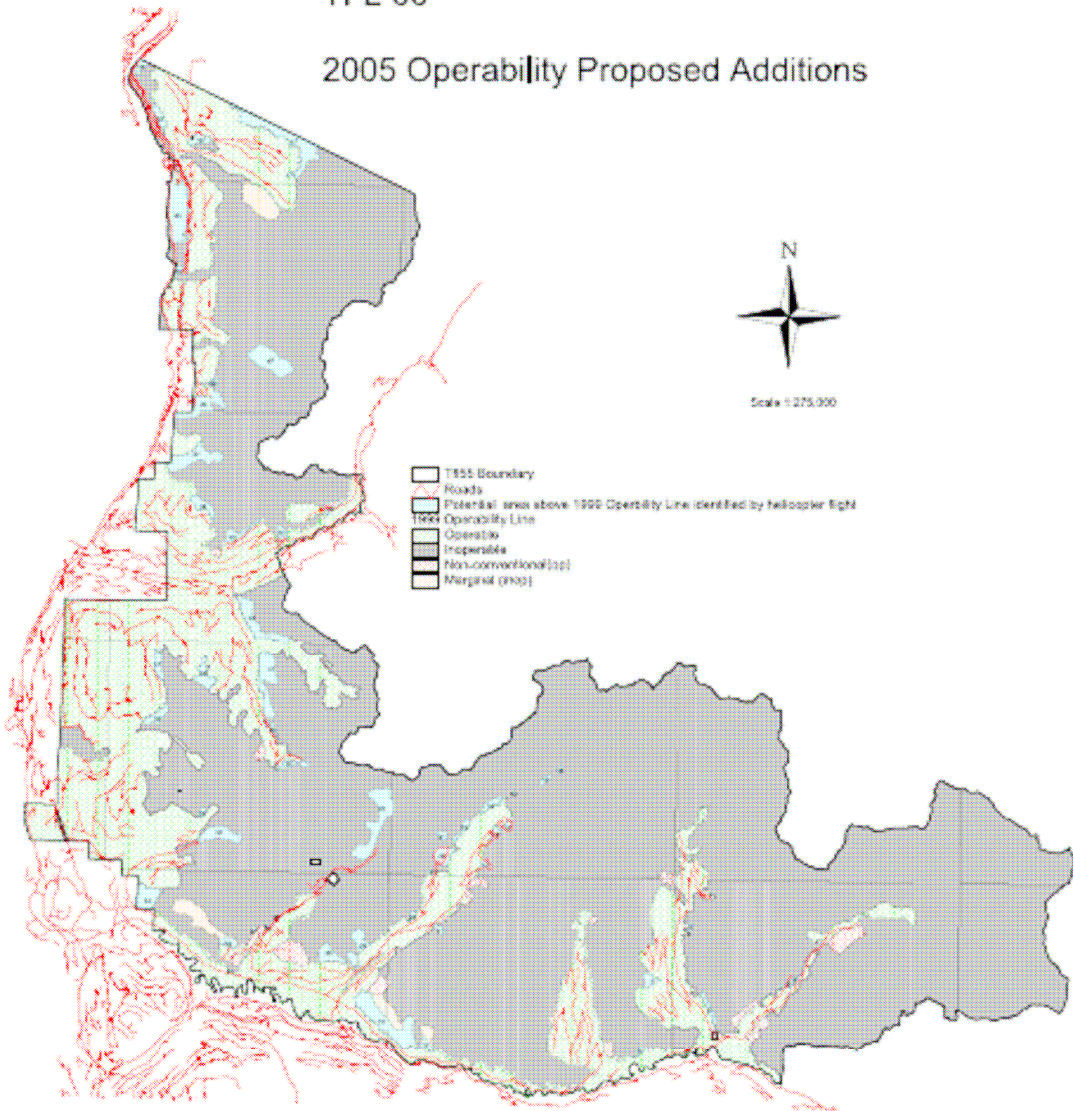
TFL 55

1999 Operability Line Map



TFL 55










2005 Operability Proposed Additions



TFL 55 2005 Operability Project



Scale 1:275,000

-  TFL Boundary
-  Roads
-  Field Verified Area
-  Potential area above 1900 Operability Line identified by helicopter flight
-  Operability Line
-  Operable
-  Probable
-  Non-comprehensibility
-  Marginal (map)

