

FMOS Dataset Description

Dataset Name:

FLG9_1.0

Prepared by:

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Description:

The FLG datasets were developed using the FLG (Forest Landscape Generator) Tool. The Tool is available for download on the FMOS Site (<http://ifmlab.for.unb.ca/fmos/tools/>) and is described in Paradis, G., Richards, E.W. FLG: A Forest Landscape Generator. CORS-SCRO Bulletin 35[3]. 2001. Canadian Operational Research Society. 7-1-0002. The the spatial characteristics of the datasets were used in Gunn E.A., Richards E.W. Solving the adjacency problem with stand-centred constraints, Can. J. For. Res. **35**: 832–842 (2005). Age class scenarios were assigned and yield curves were derived from the NBCL5 forest management plan.

Area:

Total Area: 10,000 hectares

Forested Area: 10,000 hectares

Polygons:

Total: 850

<=1 hectare: 68

Directory Structure:

- 📁 FLG9_1.0.zip
 - 📁 calc
 - 📄 adjacency.csv
 - 📄 piecesize.csv
 - 📄 yield.csv

-  shp
 -  area.dbf
 -  area.prj
 -  area.sbn
 -  area.sbx
 -  area.shp
 -  area.shx
-  volume
 -  VolumeCase1.csv
 -  VolumeCase2.csv
 -  VolumeCase3.csv
 -  VolumeCase4.csv
 -  VolumeCase5.csv

File Descriptions:

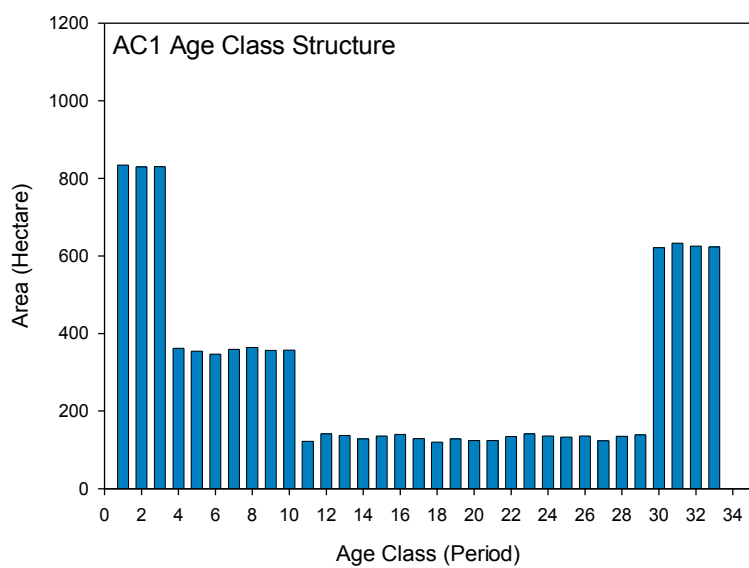
nbcl5.shp

Attribute table metadata

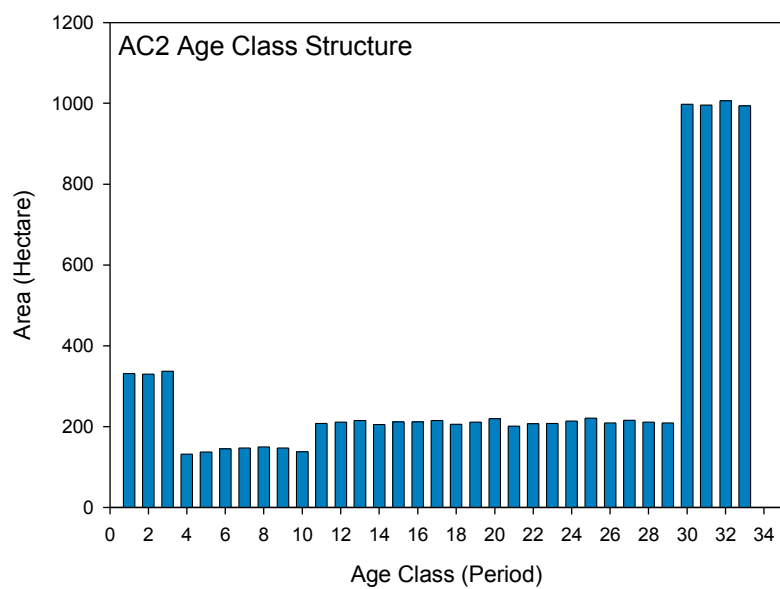
- Stand_ID
 - Unique identifier for each polygon
- STRATA

STRATA	Yield Description
S3	{Balsam Fir Option 1(Space Softwood)}
S4	{Balsam Fir Option 2(Space SW or MW)}
S5	{Eastern Cedar High Crown Closure}
S6	{Hardwood Intol/Spruce High Crown Closure (combo of HWIF & HWIS)}
S7	{Hardwood, Mixture of Intolerant and Tolerant Hardwood}
S8	{Planted White Pine}

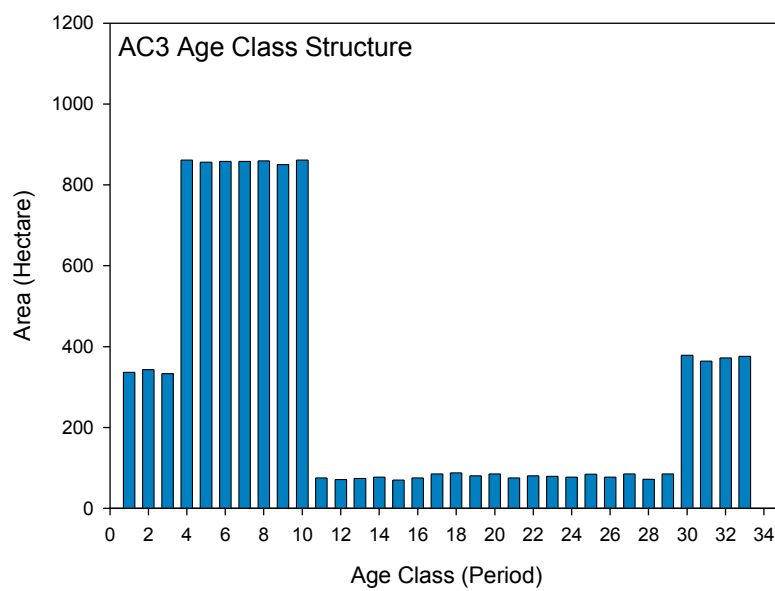
- AC1



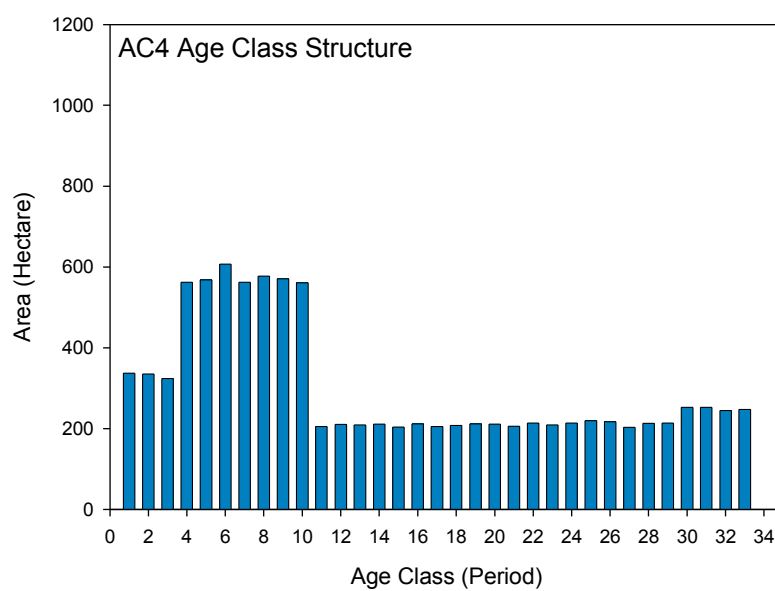
- AC2



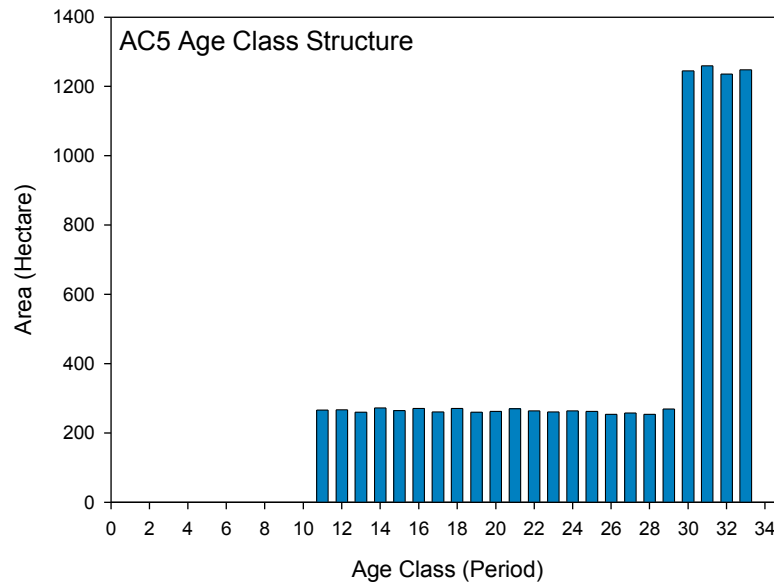
- AC3



- AC4



- AC5



- AREA
 - Stand Area in Hectares

adjacency.csv

Stand adjacency list using 10m search tolerance

- Stand_ID
 - Unique stand identifier from the shapefile
- Stand_adj
 - ID number of stands who are adjacent to Stand_ID

piecesize.csv

Piecesize information outputted from Management Plan

- STRATA
- Name – Yield Component
 - SPZ – Softwood
 - HPZ – Hardwood
- AC
 - Yield Age

- Value
 - Piece size in m²

yield.csv

Yield information outputted from management plan

- STRATA
- Name – Yield Component
 - HWLOG – Hardwood Log
 - HWFIB – Hardwood Fibre
 - SWLOG – Softwood Log
 - SWFIB – Softwood Fibre
- AC – Yield age
- Yield – Merchantable yield in m²
-

VolumeCase_XXX_.csv

25 year projection of operable stand volume under each age class scenario.

- Stand_ID
 - Unique stand identifier
- Period
 - Time in the projection in 5 year intervals.
 - Period 0 – present volume
 - Period 1 – 5 years projection
- Product
 - HWLOG – Hardwood Log
 - HWFIB – Hardwood Fibre
 - SWLOG – Softwood Log
 - SWFIB – Softwood Fibre
- Volume
 - Calculated merchantable stand volume
 - Strata yield @ stand age (m³/ha.) X stand area (ha.)

Version History:

Version 1.0 – January 30, 2006

Initial publication.