

IRM Planning Project

Inventory Strategy

Group 3

FRST 242

Presented to: Bill Beese, R.P.F., Ken Dodd, R.P.F.

1. List of Resource Value Information

1.1 Timber

- Identify productive and non-productive areas
- Confirm site index numbers on supplied map
- Identify the structural stage of each stand
- Confirm the volume, density and quality of timber in each stand

1.2 Streams and Wetlands

- Confirm classification of streams (fish streams downstream)
- Identify sensitive areas and no work zones
- Identify wetlands and sensitive soils around streams

1.3 Wildlife and Biodiversity

- Identify red and blue listed species in the area
- Identify areas with heavy browsing
- Protect stream biodiversity with buffers
- Identify wildlife trees
- Look for signs of animal habitat

1.4 Recreation and Visuals

- Identify hiking and biking trails
- Identify primary viewpoints (rock bluffs, waterfalls, natural openings)
- Ensure cutblocks are considering visual effect
- Identify quad trails (hang signs when working)
- Note disc golf courses
- Identify and map danger trees and/or hazardous areas

1.5 First Nations

- Identify CMT's
- Identify berry picking areas/ salal cutting/ devils club/ salmonberry
- Identify potential spiritual areas
- Consult local first nation band

1.6 Forest Health

- Look for pathological/entomological indicator to determine serious issues
- Expected: Root rot/ mistletoe/ bark beetle

1.7 Sources of Information

- Supplied map of Management Area
- Ortho photos
- Supplied inventory
- Woodlot License Plan
- Field Guide to Vancouver Island Forest Region (Red Book)

- The Saanich to Qualicum SMZ, Mount Benson SMZ, Mount Benson EFZ, FRPA, VILUP
- Google Earth, Classroom maps of the Woodlot
- Plant ID books
- Forestry Handbook
- Previous logging plan, site plan maps
- Road classification document for the woodlot
- GIS woodlot database

2. Methodology for Sampling, Analysis and Summary of Data

2.1 Sampling

Groups of 2 will do line transects across the management area at predetermined bearings. All of the above information will be collected at each plot along the transect. Plots will be located within each timber type unit using a visual check to ensure the plot is representative of the timber unit on the map (exceptions can be made using judgment in the field, keeping in mind that each timber unit must be at least 1.5ha in size). The transects will be performed in a zig-zag pattern across the management area, resulting in two passes per crew. The group member who is not in a transect crew will be mapping and classifying roads in the area on the first field day. On the second field day he will be adding additional plots in areas that the transects may have overlooked and gathering information about trails. A GPS will be used by each transect group to record plot coordinates.

Plots will be completed using ocular assessment ensuring they are representative of the timber type area.

The following information will be taken on each topic at each plot.

A) Timber:

- Volume/ha, stems/ha
- Species composition and % cover (including shrubs, herbs and mosses)
- Quality remarks

B) Soils

- Texture, cfc%, LFH thickness and type

C) Site Series

- Determine site series of plot area

D) For sections 1.3 – 1.6 make note of values when encountered

E) General Information

- UTM Coordinates, Names and Date, Plot and transect number

2.2 Analysis and Summary

All of the gathered field data will be pooled and shared between group members to be utilized for each portion of the IRM plan. The GIS program and information will be utilized for much of our analysis and producing maps.

IRM Project Timeline

February 3rd – Field work, 10:30 – 4:30pm

February 7th - Group Meeting, 1:00 - 1:45pm

February 10th – Field work, 9:00 – 3:00pm


February 14th - Group Meeting, 1:00 - 1:45pm

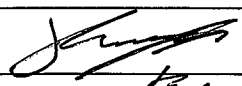
February 17th – Field work, 10:30 – 3:00pm


- Instructor meeting, 3:30 – 4:30pm

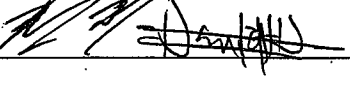
February 21st - Group Meeting, 1:00 - 1:45pm

Crew Signatures:









Responsibilities:*

David: **Field work:** Road Classification, Transect line 4, any unfinished work

Write-up: First nation's description of features, potential forest health issues

Mapping: First nations use, cedar area,

Darren: **Field work:** Transect line 2, Transect Line 4, any unfinished work

Write-up: Description of site series and soil types, describe sensitive ecosystems

Mapping: Timber topic, forest health

Chris: **Field work:** Transect line 1, Walk through areas not hit by transect line, any unfinished work

Write-up: Location of adjacent parks, Visual quality objectives, Description of road classes

Mapping: Recreational trails, visual landscape polygons,

Zach: **Field work:** Transect line 2, Transect line3, any unfinished work

Write-up: Field recce procedures, data, volume, note of timber, typical harvesting equipment


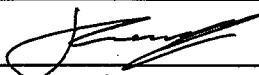

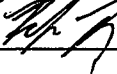
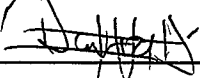
Mapping: Timber topic, sensitive ecosystems and soils

Rob: **Field work:** Transect line 1, Transect line 3, any unfinished work

Write-up: Red and blue listed species, WL trees/snags per hectare, classification description and users of water

Mapping: Wildlife features, streams lakes and wetlands,

Crew Signatures:

	Chris Leitao
	Darren Kelly
	Zach Fisher
	Rob Harder
	David Dompereh

* Duties of each individual subject to change