Foothills Model Forest
Geographic Information Systems (GIS)

Annual General Meeting
November 21-22\textsuperscript{nd}
Edmonton, AB

Debbie Mucha, GIS Coordinator
Today’s Agenda

• Introduction
• Phase III Goals
• Accomplishments
• A Map for the Future...
• Questions
Introduction

GIS

- Civil Engineering
- GPS
- Photogrammetry
- Cartography
- Mathematics
- Computer Science
- Geography
- Remote Sensing
- Surveying
- Cartography
- Geography
- Computer Science
- Mathematics
- Surveying
- Remote Sensing
- GIS
Introduction - GIS Program

• Currently 3 GIS Staff until spring ‘07
• GIS Coordinator also the LLI Coordinator until spring ’07
• The demand for GIS support is growing!
Phase III Goals - FtMF

1. Demonstrate sustainable forest management

2. Develop & implement mechanisms that result in a wider understanding and application of accrued knowledge and technology for forest management

3. Deliver communications and outreach programs that improve understanding of, and support for, sustainable forest management

4. Support and influence policy that improves the practice of sustainable forest management
Phase III Goals - GIS

Early Phase III

- Support for on-going FtMF projects
- Contribute to the FtMF core objectives of providing knowledge, demonstration, technology transfer, communications and policy support to its partners and beyond
Phase III Goals - GIS

- Phase III - disseminate technology, tools and knowledge to partners and beyond
  - Workshops & training
  - GIS communications and outreach
  - FtMF GIS Working Group – data model
  - Progression towards more innovative data models such as Geodatabase technology
  - Database development
Phase III - Collaborative Data Management...

🌟 GIS Working group
  - FMA GIS Users, SRD
  - Spatial data model template for vegetation

🌟 Existing, workable models
  - FGYA, Crossing Association
  - Common data capture protocol, structure and database

🌟 Fisheries, Aboriginal TCS, stream classification
  - Common structure
Phase III Focus

- Primary role is GIS & data management support for most FtMF projects
  - GIS team designs and develops data management systems to efficiently store research data
  - GIS and data management are core technologies in the ongoing success of these projects
Phase III Goals - GIS

Current Program Support:

• Natural Disturbance
• Fish and Watershed
• Stream Crossing
• Caribou Landscape Management Association (CLMA)
• Forestry Growth and Yield
• Local Level Indicators (LLI) *Coordinating Program
• Grizzly Bear
• Traditional Cultural Study
• Jasper National Park
GIS Accomplishments

☆ Workshops that disseminate technology, tools and knowledge to partners and beyond

☆ FtMF GIS Working Group – vegetation model using geodatabase technology

☆ Fish & Watershed Database

☆ Metadata for data holdings
GIS Accomplishments

- Beta ArcIMS internet mapping site
- CLMA half-time position
- Traditional Cultural Study Spatial Database
- FGYA Database
- Communicating GIS through events such as GIS Day
## Foothills Model Forest-Fish and Aquatics database

### Location Search

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### Data Entry

- Fish Surveys
- Crossings
- Habitat
- Lake Assessments
A Map for the Future...

★ Promote and implement improved data management within FtMF and with partners
  – Key to good research, monitoring, and reporting on sustainability

★ A focus on internet mapping for delivery of common information
A Map for the Future...
A Map for the Future...

- Facilitate more effective data management and integration across differing scales and jurisdictions.
- Networking with partners, improved data collaboration
Questions?

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