New Mexico Statewide Assessment and Strategy for Forest Resources

July 8, 2009

Stakeholder Steering Committee

Introductions

Agenda

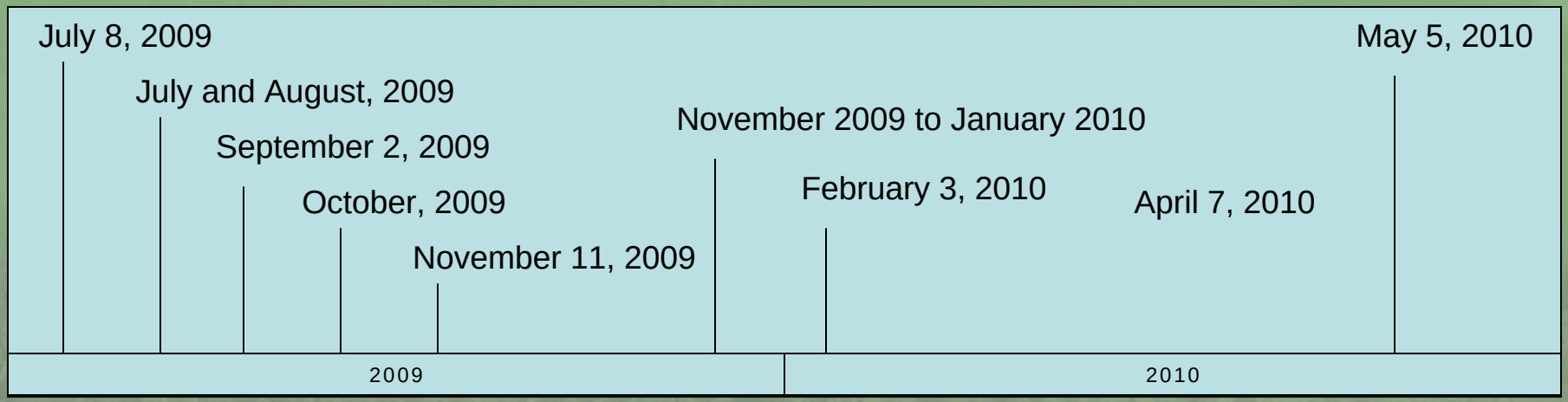
- 9:00 – 9:23: Introductory Session
- 9:23 – 10:30: Session 1
- 10:30 – 10:40: Break
- 10:40 – 11:45: Session 2
- 11:45 – 11:55: Next Steps

Welcome from the State Forester

NM Forest and Watershed Health Plan

- Mary

National Requirements and the NM Timeline



- July 8, 2009 – First Stakeholder Steering Committee (SSC) meeting
  - Identify members of technical sub-groups
- July and August, 2009 – Garner input from technical sub-groups on thematic models
- September 2, 2009 – Implementation team will work to finalize all thematic models
- October 14, 2009 – Second SSC meeting
  - One full day to *collaboratively prioritize thematic models* using a nominal group technique
- November 11, 2009 – Results of prioritization to be distributed to SSC
- November 2009 to January 2010 – Implementation team to draft the **Statewide Strategy Plan** and the **Statewide Response Plan**
- February 3, 2010 – Third SSC meeting to review draft plans and provide input
- April 7, 2010 – Final SSC meeting to review final plans, maps, and to receive data DVDs
- May 5, 2010 – Plans, maps and data are complete

National Requirements and the NM Timeline

State Forest Resource Assessments:

- ensure resources are being focused on **high priority areas** with the greatest opportunity to achieve meaningful outcomes
- collaboratively with the U.S. Forest Service and other key partners
- develop a comprehensive state forest resource assessment
- provide a comprehensive analysis of the forest-related **conditions, trends and opportunities** in each state

National Requirements and the NM Timeline

At a minimum, state forest resource assessments will:

- Describe forest conditions across **all ownerships**
- Identify forest related **benefits and services**
- Highlight issues and **trends of concern** and opportunities for action
- Delineate **high priority forest landscapes**
- Outline broad strategies for addressing the national themes along with critical issues and landscapes identified through the assessment

National Requirements and the NM Timeline

At a minimum, State Response Plans will:

- Describe how the state proposes to **invest** both competitive and non-competitive federal funding to address **national** and **regional** priorities as well as those identified in this assessment
- Outline a **specific timeline** for project/program implementation
- Provide a **detailed budget** including opportunities to **leverage non-federal resources**
- Identify partner/stakeholder involvement
- Identify strategies for **monitoring outcomes** and revising action as needed

New Mexico Forest Resource Assessment

Data Atlas Presentation

Lara Wood Miller – The Nature Conservancy - July 8, 2009

Farm Bill Requirements

State forest resource assessments will be ***geospatially based*** and make use of the best **existing data**. States are encouraged to identify critical **information gaps** as part of their assessment process so that this information can be acquired as opportunities arise.

1. ***Fish & Wildlife Habitat***
2. ***Water Quality & Supply***
3. ***Forest Fragmentation***
4. ***Wildfire Risk***
5. ***Forest Health Risk***
6. ***Development Risk***
7. ***Green Infrastructure***
8. ***Economic Potential***

State Strategy & Response Plan

Objective – Strategy & Response Plan	Data Layers
Conserve Working Forests • Identify, conserve and manage high priority forest ecosystems • Urbanization, fragmentation, loss of forestland • Enhance forest resource market opportunities	Fragmentation Development Risk Green Infrastructure Economic Potential
Protect Forests from Harm • Minimize potential and reduce impact of wildfire • Identify and manage threats to forest health	Forest Health Wildfire Risk
Enhance Public Benefits from Tree and Forests • Protect and enhance water quality and priority watersheds • Conserve fish and wildlife habitat	Fish & Wildlife Habitat Water Quality & Supply

Weighted Overlay Analysis

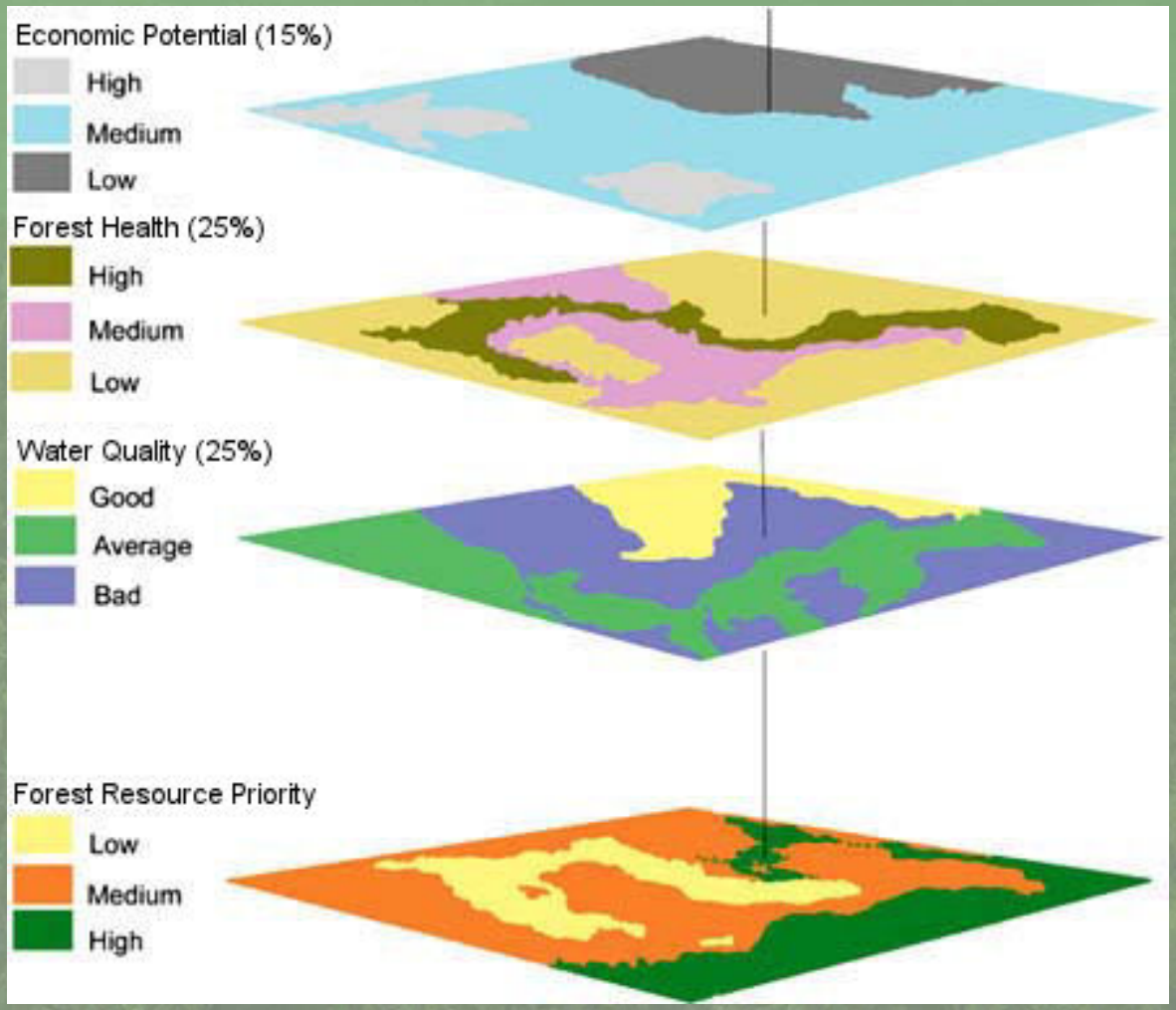
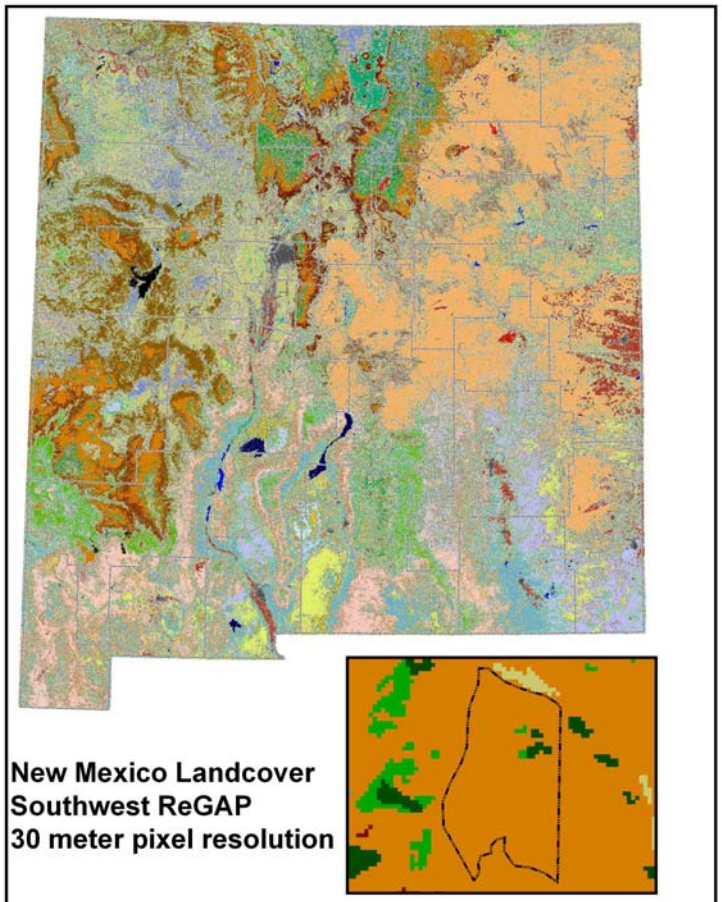


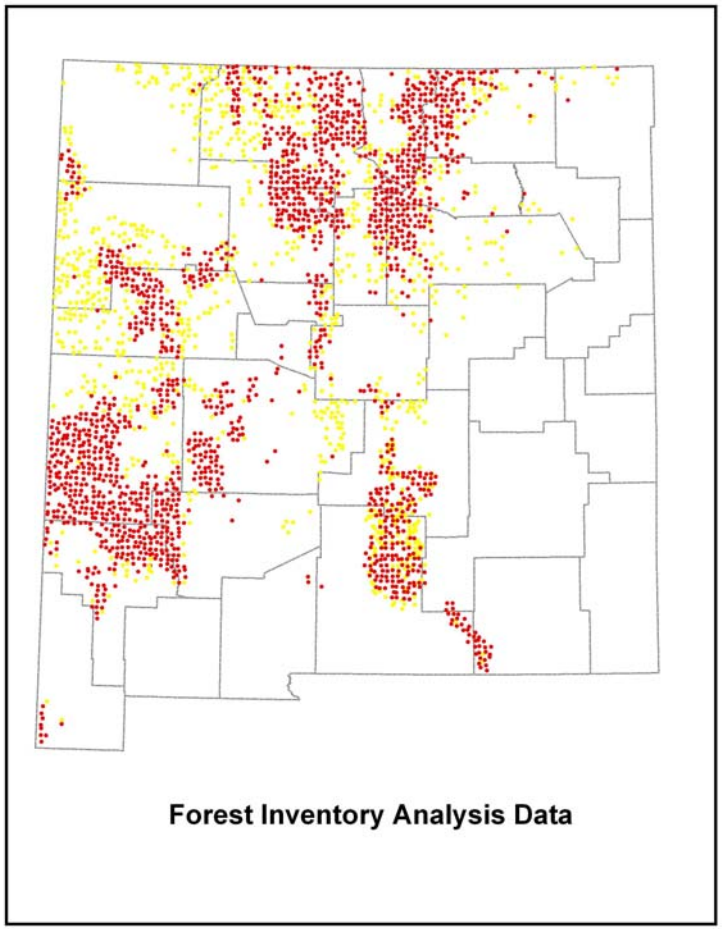
Image source: UN Food and Agriculture Organization **www.fao.org/docrep/006/y4816e/y4816e0g.htm**

Geospatial Analysis Issues

Scale



Data Availability



Data Atlas Format

- Description of Thematic Layer
- Description of Model
- Description of Model Factors
  - Function, Criteria, Justification, Data Description, Data Source
- Model Result
- Data Considered but Not Used
- Technical Team
- Citations

Fish & Wildlife Habitat

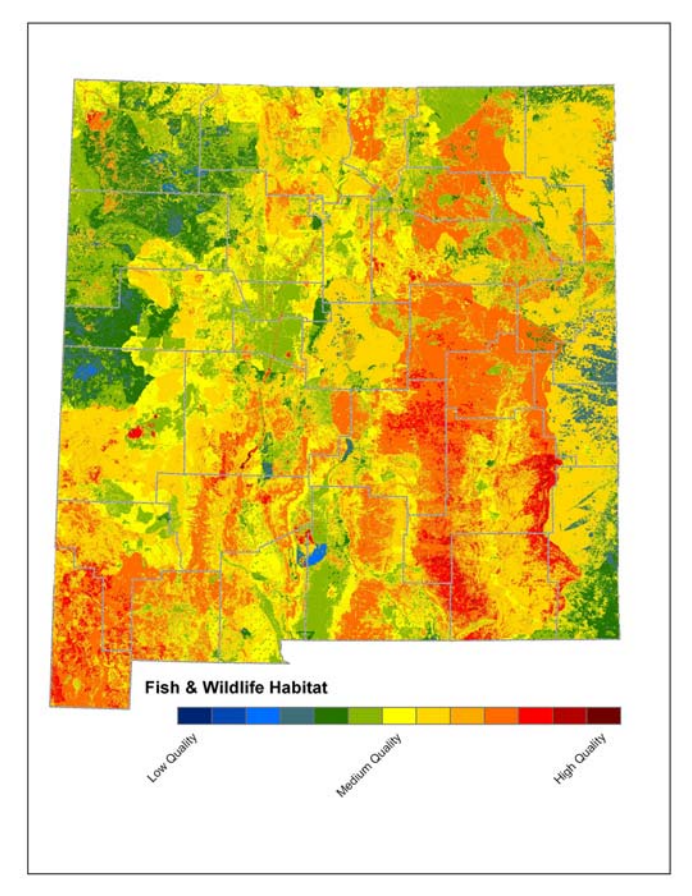
Fish & Wildlife Habitat: This data layer identifies areas that provide habitat for fish and wildlife species, including, but not limited to, threatened and endangered species.

Model Factors

1. T&E Species Habitat
2. Forested Species Habitat
3. TNC Fish Atlas
4. Forest Patch Size
5. TNC Conservation Areas
6. CWCS Key Areas

Result

Statewide data layer where higher values indicate priority fish & wildlife habitat



Water Quality & Supply

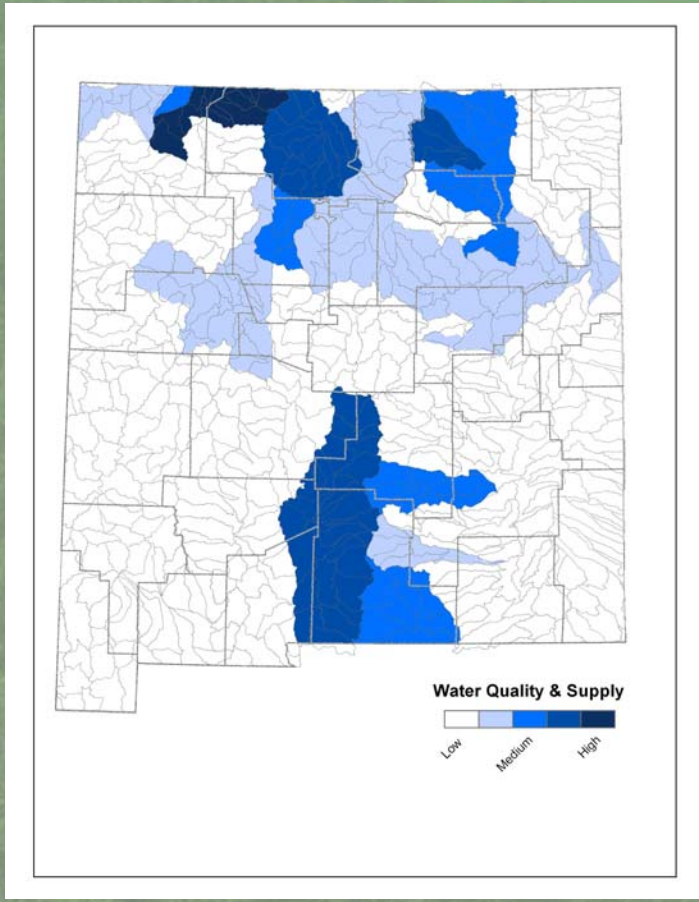
Water Quality & Supply: This data layer identifies watersheds important for supplying clean and adequate water supply along with potential risks to supplying clean water.

Model Factors

1. Public Drinking Supply
2. Impaired Waters
3. Impervious Surfaces
4. Erosion Risk

Result

Statewide data layer where higher values indicate areas with public drinking supply sources along with higher risk.



Forest Fragmentation

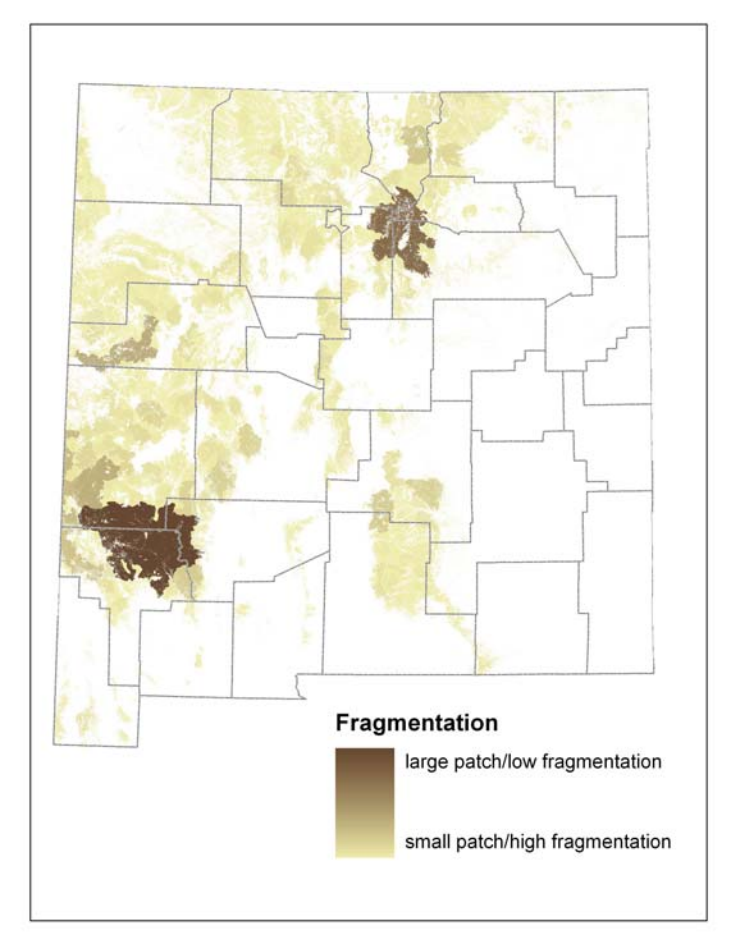
Forest Fragmentation: This data layer identifies extent of fragmentation of forest and woodlands.

Model Factors

1. Patch Size
2. Distance to Roads

Result

Statewide data layer where higher values indicate larger more ecologically and economically viable patches



Wildfire Risk

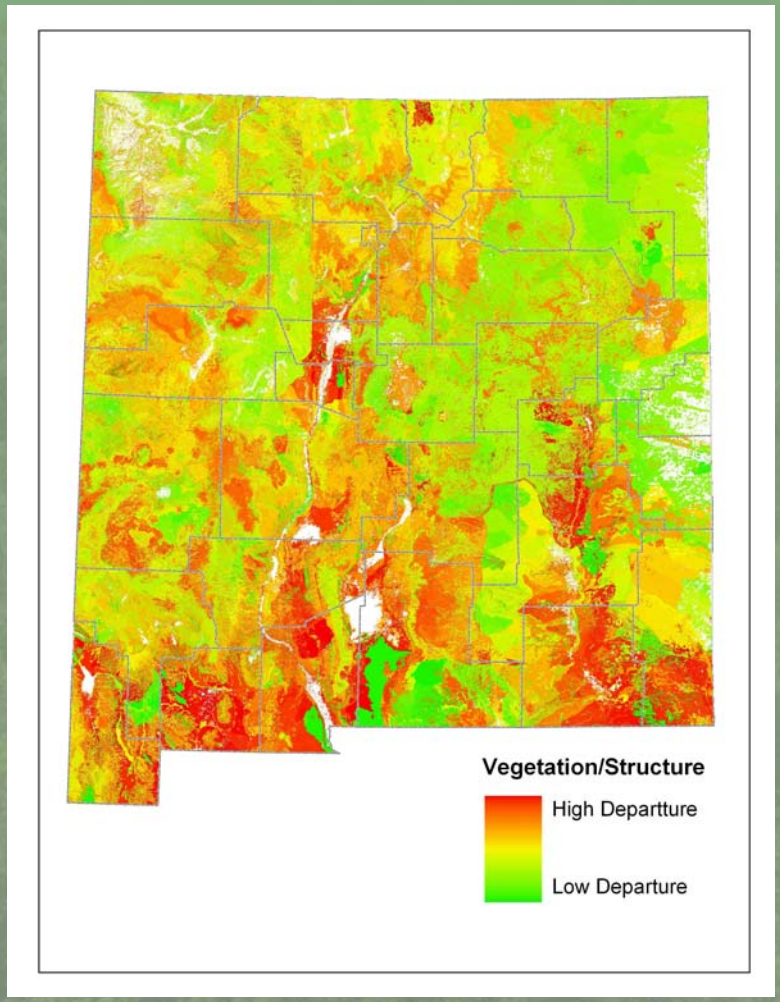
Wildfire Risk: This data layer identifies areas with a relatively high risk of wildfire.

Model Factors

1. Rate of Spread
2. Flame Length
3. Crown Fire Potential
4. Fire Occurrence
5. Community Capacity
6. Wildland Urban Interface
7. Fire Regime Condition Class

Result

Statewide data layer where higher values indicate areas with greatest wildfire risk.



Forest Health

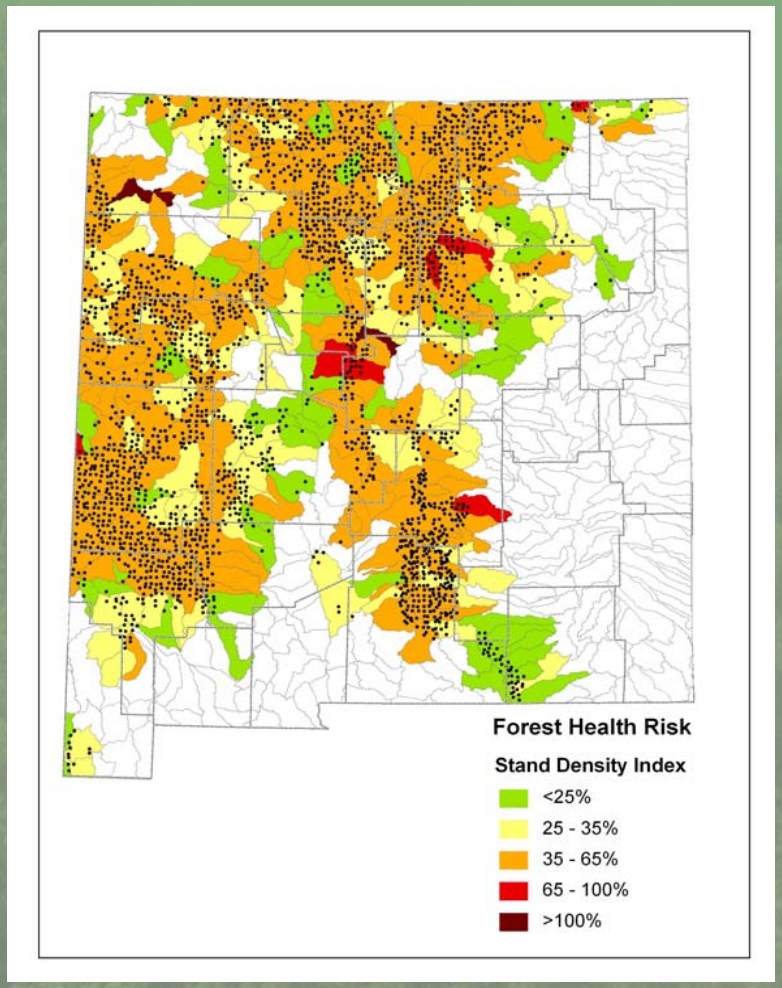
Forest Health: This data layer identifies areas that make a forest area more susceptible to insect and disease outbreaks.

Model Factors

1. Stand Density
2. Drought Stress
3. Insect & Disease (98-08)

Result

Statewide data layer where higher values indicate areas most susceptible to insect and disease.



Development Risk

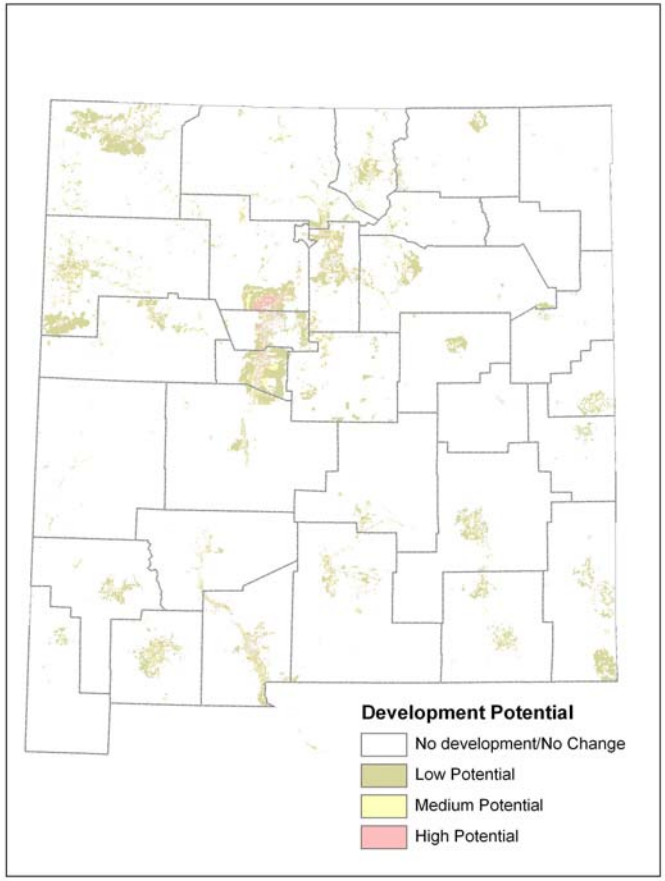
Development Risk: This data layer emphasizes areas that are projected to experience increased housing development in the next 30 years.

Model Factors

1. Forest on the Edge 2000 and 2030 development data

Result

Statewide data layer where values are categorized into classes representing type of anticipated development change.



Data Atlas Presentation

Green Infrastructure

"Helps identify and prioritize conservation opportunities and plan development in ways that optimize the use of land to meet the needs of people and nature"

Green Infrastructure: Linking landscapes and communities. Island Press. 2006

Economic Potential

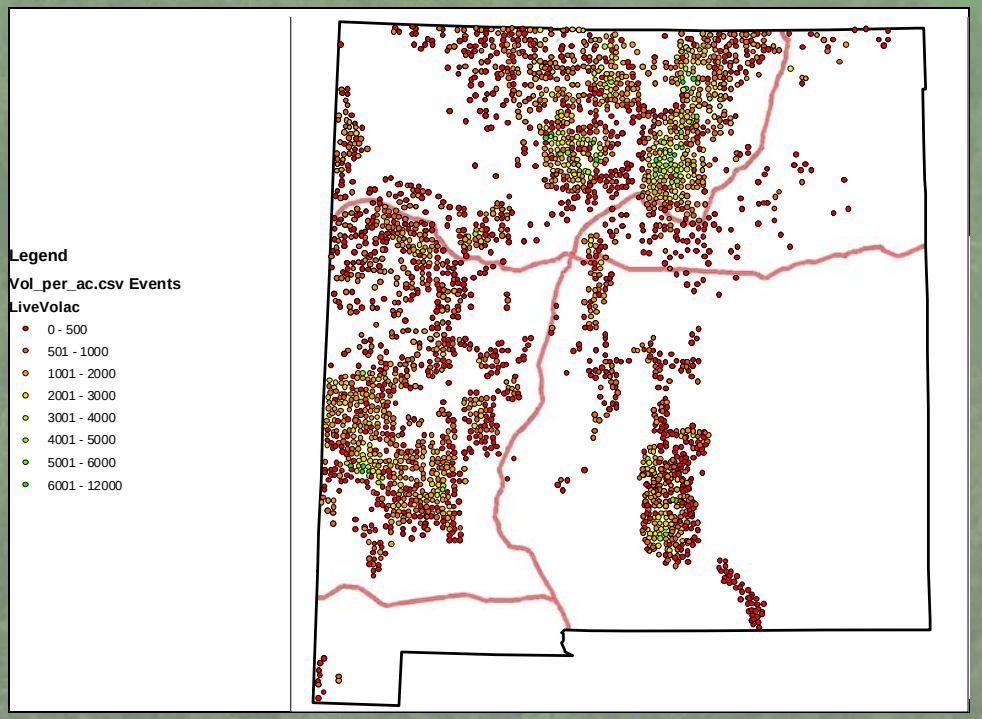
Economic Potential from Forests: This data layer assesses the potential for wood products across two general categories; sawtimber and smaller products (biomass, poles, fuelwood, latillas).

Model Factors

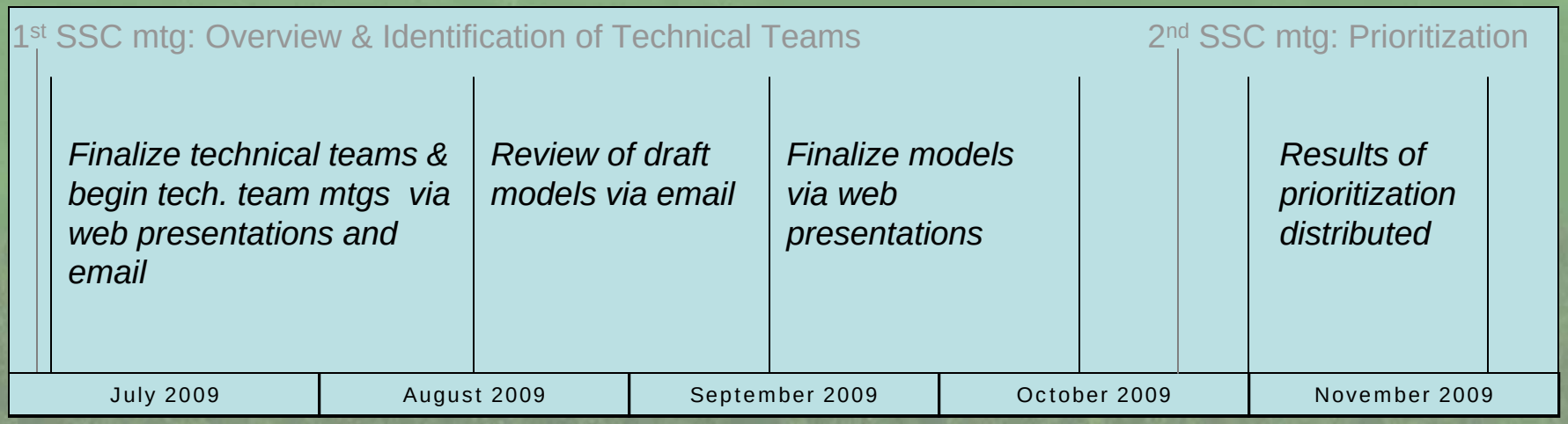
1. Standing live volume by size class (Forest Inventory Analysis, FIA)
2. Distance to use - forest operators and wood processors (NMFWRI) and transportation geodatabase (RGIS)
3. Slope (NED)

Result

Statewide data layer with values categorized into two wood product classes representing economic potential in each category.



Technical Teams & Timeline



2 web presentations (initial & final review)

2 – 4 data atlas review via email

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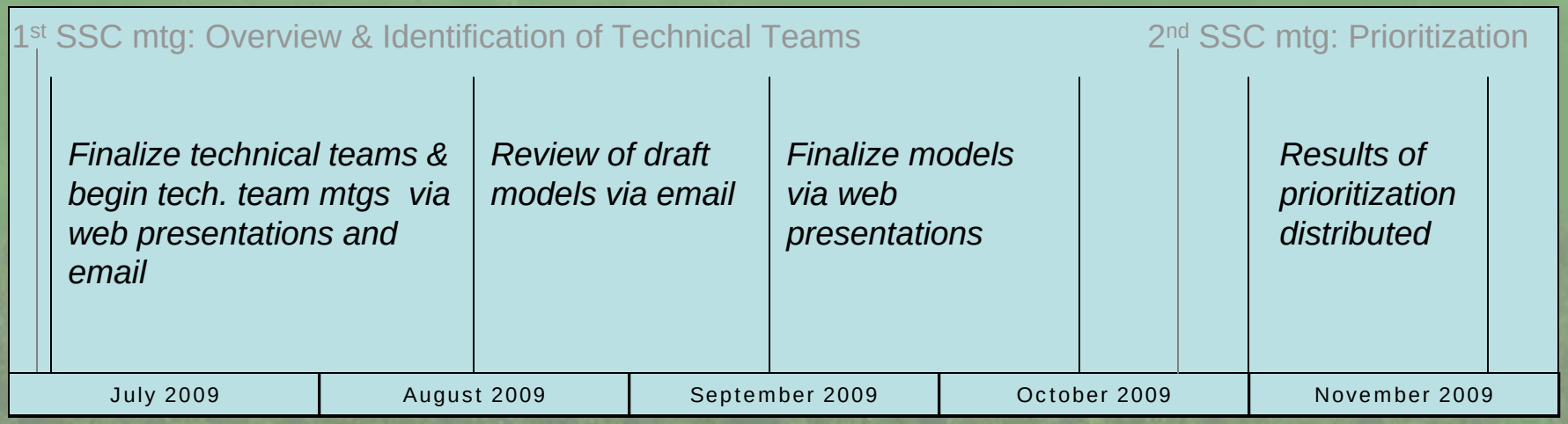
15 – 20 hours total

Break – 10 Minutes

Technical Teams & Timeline



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15 – 20 hours total

Discussion of Data Atlas

- Are we using the best available data sources?
  - If not, what are some other data sources to consider?
- What are the data gaps?
  - How can they be addressed?
- Are the models, and their proposed inputs, appropriate?
- Will this suite of statewide models, and their collaborative prioritization, be useful to you as a land manager when complete in 2010?

Preparation for October Prioritization

Sign up for a Technical Sub-Group

- See charts around the room

Questionnaire

- Please fill out the questionnaire in your folder
  - Extra questionnaires are available
  - Questionnaires will be posted on the portal

Next Steps

Review:

- Goals
- Timeline
  - What is happening between now and the October meeting?