

What is conservation planning?

- The identification of lands with important natural resource values
- Development of protection and management strategies for priority lands
 - Conservation acquisition and natural resource management
 - Private ownership with regulatory protections
 - Private ownership with management agreements

What are important natural resource values?

- Water supply lands
 - Watersheds of surface supplies
 - Lands overlying stratified drift aquifers
- Flood storage areas
 - Wetlands
 - Floodplains
- Shorelands and riparian areas
- Highly productive agricultural soils
- Productive forest lands
- Important wildlife habitat
- Mineral deposits
- Scenic viewsheds

Who does conservation planning?

- **Federal agencies**
 - **US Forest Service**
 - **US Fish & Wildlife Service**
 - **Natural Resource Conservation Service**
 - **Army Corps of Engineers**

Who does conservation planning?

- Federal natural resource agencies
- **State natural resource agencies**

Maine

- **Maine Bureau of Parks and Lands**
- **Maine Forest Service**
- **Maine Department of Inland Fisheries and Wildlife**

New Hampshire

- **NH Division of Forests and Lands**
- **NH Division of Parks**
- **NH Fish and Game Department**
- **NH Water Resources Board**

Vermont

- **Vermont Department of Fish and Wildlife**
- **Vermont Department of Forests, Parks, and Recreation**
- **Vermont Department of Environmental Conservation**

Who does conservation planning?

- Federal agencies
- State agencies
- **Municipal government**
 - **Conservation Commissions**
 - **Town Forest Committees**
 - **Open Space Committees**

Who does conservation planning?

- Federal agencies
- State agencies
- Municipal government
- National and Statewide non-profit organizations
 - Trust for Public Lands
 - The Nature Conservancy
 - The Conservation Fund
 - Forest Society of Maine
 - Maine Audubon Society
 - Maine Farmland Trust
 - Society for the Protection of New Hampshire Forests
 - Audubon Society of New Hampshire
 - Audubon Vermont
 - Vermont Land Trust

Who does conservation planning?

- Federal agencies
- State agencies
- Municipal government
- Non-profit organizations
- Local land trusts
 - Lower Kennebec Regional Land Trust
 - Mahoosuc Land Trust
 - Maine Wilderness Watershed Trust
 - Sebasticook River Watershed Association
 - Five Rivers Land Trust
 - Lakes Region Conservation Trust
 - Mondadnock Conservancy
 - Piscataquog River Watershed Association
 - Jericho Underhill Land Trust
 - Lake Champlain Land Trust
 - Middlebury Area Land Trust
 - Passumpsic Valley Land Trust

Who does conservation planning?

- Federal agencies
- State agencies
- Municipal government
- Non-profit organizations
- Local land trusts
- **Coalitions and partnerships**
 - **Mount Agamenticus to the Sea Conservation Initiative**
 - **Quabbin to Cardigan Conservation Collaborative**
 - **Great Bay Partnership**
 - **Vermont Housing and Conservation Board**

How does one plan for wildlife habitat and mobility?

- **Identify core habitat areas**
- **Identify linkages between core habitat areas**

Core habitat areas

- Provide daily needs for food, water, shelter
 - Consistent throughout the year for some species (e.g., hairy woodpecker, red squirrel)
 - Differ by season for some species (e.g., black bear, moose, wood frog, migratory birds)

Landscape linkages

- Difficult to document
- Exist at many different scales
 - Amphibians moving between upland habitat and breeding pools (<2000 ft)
 - Turtles moving from wetlands to upland egg-laying sites (<10 mi)
 - Otters moving between watersheds (20-30 mi)
 - Bears moving from spring seeps to summer berry patches to fall mast stands to winter den sites (15 mi radius)
 - Birds migrating between North American breeding areas and tropical wintering areas (thousands of miles)

Tools for locating landscape linkages

- Direct observation
- Tracking
- Radio-telemetry
- Computer modeling
 - Map land cover
 - Assign resistance values
 - Conduct least cost path analysis

Opportunities for Collaborative Planning

- Identify and prioritize intersections between wildlife travel linkages and transportation network
- Use straight line diagrams to document sensitive areas
- Develop strategies for minimizing conflict between moving animals and moving vehicles
- Improve dangerous situations during scheduled repairs and reconstructions