Beginning with HABITAT

An Approach to Conserving Maine's Natural Space for Plants, Animals, and People

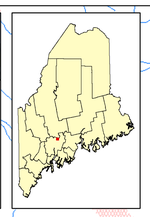
www.beginningwithhabitat.org

Primary Map 2

High Value Plant & Animal Habitats

City of Waterville

This map is non-regulatory and is intended for planning purposes only



Descriptions of Labeled High Value Plant and Animal Habitats

No.	Feature Name	Status	No.	Feature Name	Status
1	Garber's Sedge	SC	4	Rare Plant	T
2	Long-leaved Bluet	SC	5	Upland Sandpiper	T
3	Narrow-leaf Arrowhead	SC	6	Yellow Lampmussel	T

COLOR CODES:
Rare Plant
Rare Animal Location/Habitat
Rare or Exemplary Natural Community
Essential Habitat

STATE STATUS:
E = Endangered
T = Threatened
PE = Possibly Extirpated
SC = Special Concern
E(B) = Endangered Breeding Population

LEGEND

The data presented here represent the best available information provided through Beginning with Habitat coalition partners at the time of map drafting. Map users should consult with the Beginning with Habitat program to verify that data illustrated on this map is still current prior to utilizing it for planning decisions. Habitat features illustrated on this map are based on limited field surveys, aerial photo interpretation, and computer modeling. Many areas have not been completely surveyed, so it is possible that features may be present that are not mapped. Habitat data sets are updated continuously. Not all habitats described below may occur in the area shown in this map. Also, please note that some of these habitats are regulated by the State of Maine through the Maine Endangered Species Act (Essential Habitats and threatened and endangered species occurrences) and Natural Resource Protection Act (Significant Wildlife Habitat). This map is intended for planning purposes only and should not be considered a comprehensive inventory of plant and animal occurrences. **We recommend consultation with MDIF&W Regional Biologists or MNAP Ecologists if activities are proposed that may affect at risk species, habitats, or natural communities depicted on this map.** Visit http://www.beginningwithhabitat.org/contacts/index.html for MDIFW or MNAP contact information.

Organized Township Boundary

Unorganized Township- Beginning with Habitat does not provide data for unorganized townships

Developed- Impervious surfaces such as buildings and roads

Streams and Brooks

Ocean, Lakes, Ponds, and Rivers

Rare, Threatened, or Endangered Wildlife

Known rare, threatened, or endangered species occurrence and/or the associated habitats based on species sightings.

Consult with an MDIFW regional biologist to determine the relative importance and conservation needs of the specific location and supporting habitat. For more information regarding individual species visit our website, http://www.maine.gov/ifw/wildlife/species/endangered_species/state_list.htm, for species specific fact sheets.

Rare or Exemplary Plants and Natural Communities

Rare Plant Locations

Known rare, threatened, or endangered plant occurrences are based on field observations. Consult with a Maine Natural Areas Program (MNAP) Ecologist to determine conservation needs of particular species. For more information regarding rare plants, the complete list of tracked species and fact sheets for those species can be found at: http://www.maine.gov/doc/nrimc/mnap/features/plantlist.htm.

Rare or Exemplary Natural Community Locations

The MNAP has classified and distinguished 98 different natural community types that collectively cover the state's landscape. These include such habitats as floodplain forests, coastal bogs, alpine summits, and many others. Each type is assigned a rarity rank of 1 (rare) through 5 (common). Mapped rare natural communities or ecosystems, or exemplary examples of common natural communities or ecosystems, are based on field surveys and aerial photo interpretation. Consult with an MNAP Ecologist to determine conservation needs of particular communities or ecosystems.

Essential Wildlife Habitats

Bald Eagle Nest Sites *or*
Roseate Tern Nesting Area *or*
Piping PloverLeast Tern Nesting, Feeding, & Brood-Rearing Area

Maine's Department of Inland Fisheries & Wildlife (MDIFW, www.state.me.us/ifw) maps areas currently or historically providing habitat essential to the conservation of endangered or threatened species as directed by the Maine Endangered Species Act (12 MRSA, Chapter 925, Subchapter 3, Sections 12804 and 12806) and regulations (MDIFW Rules, Chapter 8.05). Identification of Essential Habitat areas is based on species observations and confirmed habitat use.

Once an area becomes designated as Essential Habitat, the Maine Endangered Species Act requires that no state agency or municipal government shall permit, license, fund, or carry out projects that would significantly alter the habitat or violate protection guidelines adopted for the habitat. If a project occurs partly or wholly within an Essential Habitat, it must be evaluated by MDIFW before state and/or municipal permits can be approved or project activities can take place.

The Federal Endangered Species Act requires actions authorized, funded, or carried out by federal agencies be reviewed by the U. S. Fish and Wildlife Service. If your project occurs near an occurrence of the Atlantic salmon, bald eagle, roseate tern, piping plover, Canada lynx, New England Cottontail, Fubish's lousewort, or small-whorled pagonia contact the Maine Field Office, USFWS, 1168 Main St., Old Town, ME 04468.

Significant Wildlife Habitats

Deer Wintering Area

Forested area used by deer to avoid deep snow/cold (non-forested wetlands, non-stocked clearcuts, and deciduous- or larch-dominated stands less than 10-acres in size may be included within the habitat polygon as drawn).

Inland Waterfowl/Wading Bird

Freshwater breeding, migration/staging, and wintering habitats for inland waterfowl or breeding, feeding, loafing, migration, or roosting habitats for inland wading birds.

Seabird Nesting Island

An island, ledge, or portion thereof in tidal waters with documented, nesting seabirds or suitable nesting habitat for endangered seabirds.

Shorebird Areas

Coastal staging areas that provide feeding habitat like tidal mud flats or roosting habitat like gravel bars or sand spits for migrating shorebirds

Tidal Waterfowl/Wading Bird

Breeding, migrating/staging, or wintering areas for coastal waterfowl or breeding, feeding, loafing, migrating, or roosting areas for coastal wading birds. Tidal Waterfowl/Wading Bird habitats include aquatic beds, eelgrass, emergent wetlands, mudflats, seaweed communities, and reefs.

Significant Vernal Pools

A pool depression used for breeding by amphibians and other indicator species and that portion of the critical terrestrial habitat within 250 ft of the spring or fall high water mark. A vernal pool must have the following characteristics: natural origin, non-permanent hydroperiod, lack permanently flowing inlet or outlet, and lack predatory fish.

Maine's Natural Resources Protection Act (NRPA, 1988) administered by the Maine Department of Environmental Protection (MDEP; http://www.maine.gov/dep/blwq/docstand/nrpapage.htm) is intended to prevent further degradation and loss of natural resources in the state including the above Significant Wildlife Habitats that have been mapped by MDIFW. DEP has regulated activities in, on, or over these habitats to the extent these habitats were located within another protected natural resource, such as a freshwater or coastal wetland, since September 17, 2005. DEP has regulated activities in, on, or over these habitats, located outside other protected natural resources, to the extent they meet criteria adopted in rule since June 8, 2006 (38 MRSA 480-B(10)).

Atlantic Salmon Spawning/Rearing Habitat

Atlantic Salmon Rearing Habitat

Atlantic Salmon Spawning Habitat

Atlantic Salmon Limited Spawning Habitat

Mapped by Atlantic Salmon Commission (ASC) and US Fish & Wildlife Service (USFWS) from field surveys on selected Penobscot and Kennebec River tributaries and the Dennys, Ducktrap, East Machias, Machias, Pleasant, Narraguagus, and Sheepscot Rivers.

High Value Habitat for Priority Trust Species

These feature categories depict the highest value habitat as predicted by the U.S. Fish and Wildlife Service (USFWS) Gulf of Maine Program's Habitat Suitability Model.

This data layer portrays the highest value habitat from the Gulf of Maine Watershed Habitat Analysis, a habitat suitability model developed by the (USFWS) Gulf of Maine Coastal Program. The analysis evaluated existing field data and scientific literature for 91 species of fish, wildlife, and plants important to USFWS in the Gulf of Maine watershed and ranked the landscape based on potential habitat for each species. This theme shows only the most important habitat (top 25%) for all species combined and excludes areas less than 5 acres. For more information please see Map 8 "Valuable Habitats for USFWS Priority Trust Species." For more information about the Gulf of Maine Watershed Habitat Analysis please visit: http://www.fws.gov/northeast/gulfofmaine.

Data Sources

DATA SOURCE INFORMATION
(note: italicized file names can be downloaded from Maine Office of GIS)
TOWNSHIP BOUNDARIES
Maine Office of GIS (2006); *metwp24*
ROADS
Maine Office of GIS, Maine Department of Transportation (2005); *medotpub*
HYDROLOGY
Maine Office of GIS, U.S. Geological Survey (2004); *hyd24*
DEVELOPED
Maine Office of GIS, Maine Department of Environmental Protection (contact agency for this multiple agency collaboration) (2005); *imperv*
ESSENTIAL & SIGNIFICANT WILDLIFE HABITATS
Maine Office of GIS, Maine Department of Inland Fisheries & Wildlife; *eheagle, ehplvtrn, ehrtern, sni*
RARE NATURAL COMMUNITIES & PLANTS
Maine Natural Areas Program
ATLANTIC SALMON HABITAT
Maine Office of GIS, Maine Atlantic Salmon Commission, U.S. Fish & Wildlife Service (2006); *ashab3*
HIGH VALUE HABITAT FOR PRIORITY TRUST SPECIES
Maine Office of GIS, U.S. Fish & Wildlife Service; *forest91, fresh91, grass91, saline91*

DATA SOURCE CONTACT INFORMATION
Maine Office of GIS- http://apollo.ogis.state.me.us/catalog
Maine Natural Areas Program- http://www.maine.gov/doc/nrimc/mnap/
Maine Department of Inland Fisheries & Wildlife- http://www.maine.gov/ifw/
U.S. Fish & Wildlife Service- Gulf of Maine Program- http://gulfofmaine.fws.gov
Maine Atlantic Salmon Commission- http://www.maine.gov/asc/
Maine Department of Transportation- http://www.maine.gov/mdot/

DIGITAL DATA REQUEST
To request digital data for a town or organization, please visit our website.
http://www.beginningwithhabitat.org/the_maps/gis_data_request.html

State of Maine

Maine Coastal Program

The Nature Conservancy
SAVING THE LAST GREAT PLACES ON EARTH

Maine Audubon

Maine Coast Heritage Trust
A Statewide Land Conservation Organization

Additional Funding:

MaineDOT

5,000 2,500 0 0.5 1 Miles
Feet
Meters 1,000 500 0 0.5 1 Kilometers

1:24,000 Scale
Universal Transverse Mercator (UTM) Projection
North American Datum (NAD) 1983

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