

# "Beginning with Habitat" when managing private lands

Andrew Johnson – Beginning with Habitat Landowner Outreach Biologist



### IFW's New Landowner Outreach Biologist

Contact me!

Andrew B Johnson (207) 441-8125 Andrew.B.Johnson@maine.gov



### Keep using your existing biologist contacts

MAINE NATURAL AREAS PROGRAM (207)287-8044 or maine.nap@maine.gov

	_		
Forester. Landowner:		Lo	t Name:
Date Received. Town:		Co	unty: Oxford MDIFW Region: A
PLANT, ANIMAL, AND HABITATS		mented to at the site? NO	Contact the following biologist to discuss conservation considerations
Plants: rare, threatened and/or endangered If yes, see attached summary table.			
Natural Communities: rare and/or exemplary If yes, see attached summary table.			
Animals: rare, threatened, or endangered If yes, see attached summary table.			MDIFW Assistant Regional Wildlife Biologist Cory Stearns, 287-5759
Mapped Essential Wildlife Habitats: Roseate tern Piping plover and Least tern		$\boxtimes$	
Mapped Significant Wildlife Habitats: Deer wintering area Inland waterfowl and wading bird habitat Tidal waterfowl and wading bird habitat Significant vernal pool Shorebird feeding/roosting area			MDIFW Assistant Regional Wildlife Biologist Cory Stearns, 287-5759
Wild brook trout habitat	Yes ⊠	Unknown	MDIFW Assistant Regional Fisheries Biologist Brian Lewis, 287-5760
Atlantic Salmon: Salmon critical habitat	Yes	No X	

#### Forest Management Plan Review



### Keep using your existing biologist contacts

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#### Forest Management Plan Review



## IFW's New Landowner Outreach Biologist

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- Contact me to fill in the gaps

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### www.BeginningWithHabitat.org

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> An approach to conserving Maine's natural landscape for plants, animals and people.



Local strategies for conservation

#### Upcoming Beginning with Habitat Presentations

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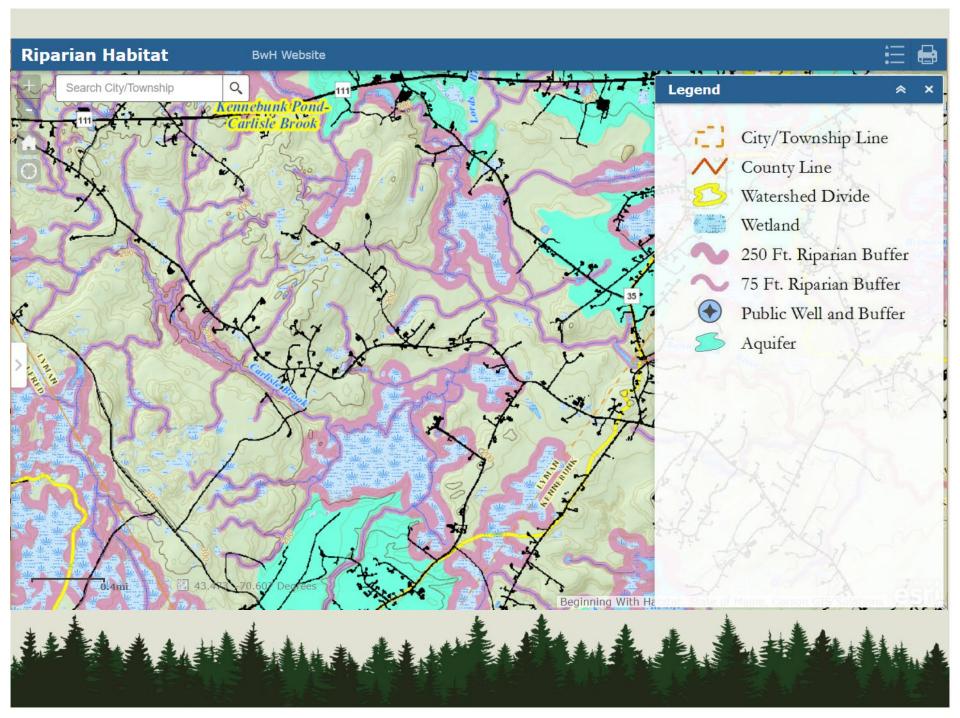


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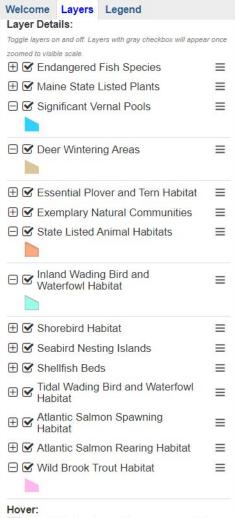
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For comments or more information on Beginning with Habitat products and services, please send e-mail to maine.bwh@maine.gov

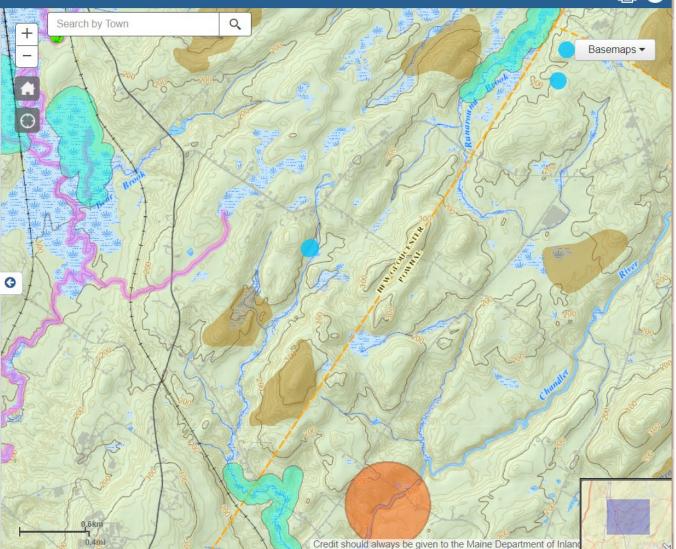
Or contact us by mail or phone at:







Check this box to enable your mouse to hover



# DISCONTINUED: MNAP – Maine Data Checker



Maine.gov Agencies   Online Servi	ices   Help   Q Search Maine, gov G Select Language V
ALERT: Stay up to c	date on <u>Maine's COVID-19 Response</u>
DEPARTMENT OF	Contact Us   Get Email/SMS Updates   News   Online Services   Sitemap
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<u>DACF Home</u> $\rightarrow$ <u>Bureaus &amp; Programs</u> $\rightarrow$	<u>Maine Natural Areas Program</u> $\rightarrow$ <u>Maps, Data, and Technical Assistance</u> $\rightarrow$ Forest Management Plan Review
About MNAP	Maine Natural Areas Program
Focus Areas	
Communities, Plants and Animals	Forest Management Plan Review
Maps, Data, and Technical Assistance	Forest Management Plans are typically submitted by licensed foresters on behalf of their clients. MNAP reviews Forest Management Plans to determine if rare, threatened, or
Forest Management Plan Review	endangered species or sensitive habitats are present. Management recommendations are made where appropriate.
Forestry Technical Assistance	You can request a Forest Management Plan review by sending a map showing the property location via email ( <u>maine.nap@maine.gov</u> ), regular mail (177 State House Station,
Information Requests	Augusta, ME, 04333-0093), or FAX (207-287-7548).
Site Review	The Maine Data Checker is currently not functioning due to technical difficulties. The lowing announcement went out to forester list-serves and to foresters we have corresponded with in the past few years:
Outreach	
Beginning with Habitat	We hope that the Maine Data Checker has been a useful tool in developing your forest management plans. Technology evolves rapidly, including the settings on your web browser and on your computers, and many of you have experienced issues using the Data Checker. It seems there have been recent updates to Internet Explorer and Firefox
Ecological Reserves	that have caused more users to have problems using the Data Checker (Data Checker has never worked in Chrome or Safari). Unfortunately the coding behind the Data Checker is old, and we are unable to update it to make it usable in current web browsers. In addition to changing frequently, technology is expensive.
	We are exploring options for a new tool that will perform the same function, which is to answer the single question: Is there a natural resource feature present or near your lot? This tool needs to produce a map for the user, maintain user confidentiality to other users, allow us to know who is using the tool, and keep the data hidden. We will keep you posted, but it is likely to be a while before such a tool is available.
	In the meantime, please submit requests for review for your lot to <u>maine.nap@maine.gov</u> . The Maine Natural Areas Program works with Maine Department of Inland Fisheries and Wildlife to provide you with the most up-to-date information for any natural resource features that may be on or near your lot, and to provide management recommendations should any be present. You will receive a letter, checklist, and map with the response. Requests should include a map of the property, and these can be sent in an email ( <u>maine.nap@maine.gov</u> ), via FAX (287-7548), or via regular mail (MNAP, 177 SHS, Augusta, ME 04333). If you would like the landowner name on the response, please include that with your request.
	Thank you for your patience.
	See also <u>Forestry Technical Assistance</u> .
	Contact us if you have questions.



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### Local strategies for conservation

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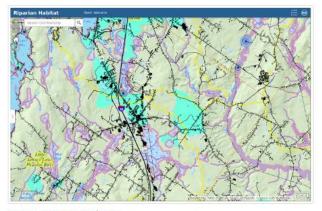
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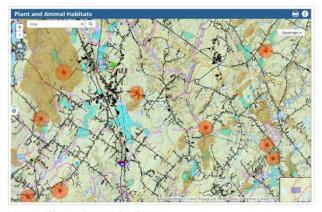
For comments or more information on Beginning with Habitat products and services, please send e-mail to maine.bwh@maine.gov

### Map Viewers



#### Map 1- Riparian Habitats

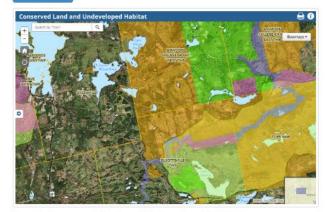
Beginning with Habitat Map 1 depicts major surface water features and drainage areas, associated shoreline habitats and riparian zones, and aquifers and wells that supply public drinking water.



#### Map 2- Plant and Animal Habitats

Beginning with Habitat Map 2 depicts known rare, threatened, or endangered plant and animal occurrences, as well as "Significant Wildlife Habitat," "Essential Wildlife Habitat," and other important wildlife habitats.



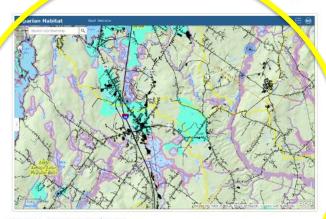


Map 3- Conserved Land and Undeveloped Habitat Beginning with Habitat Map 3 depicts the State of Maine's conserved lands database

#### Open Viewer

#### **Beginning With Habitat**

### Map Viewers



#### Map 1- Riparian Habitats

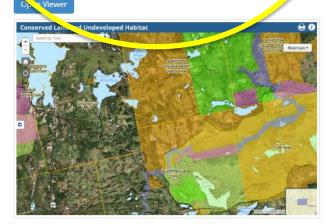
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#### **Riparian Habitat**

#### BwH Website

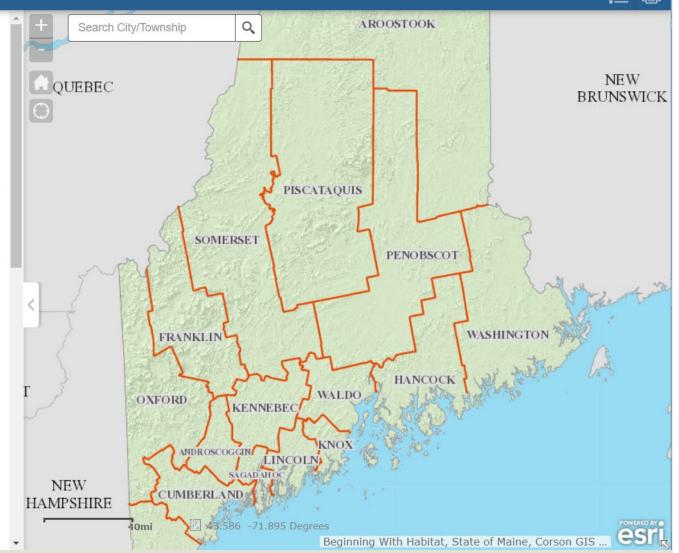


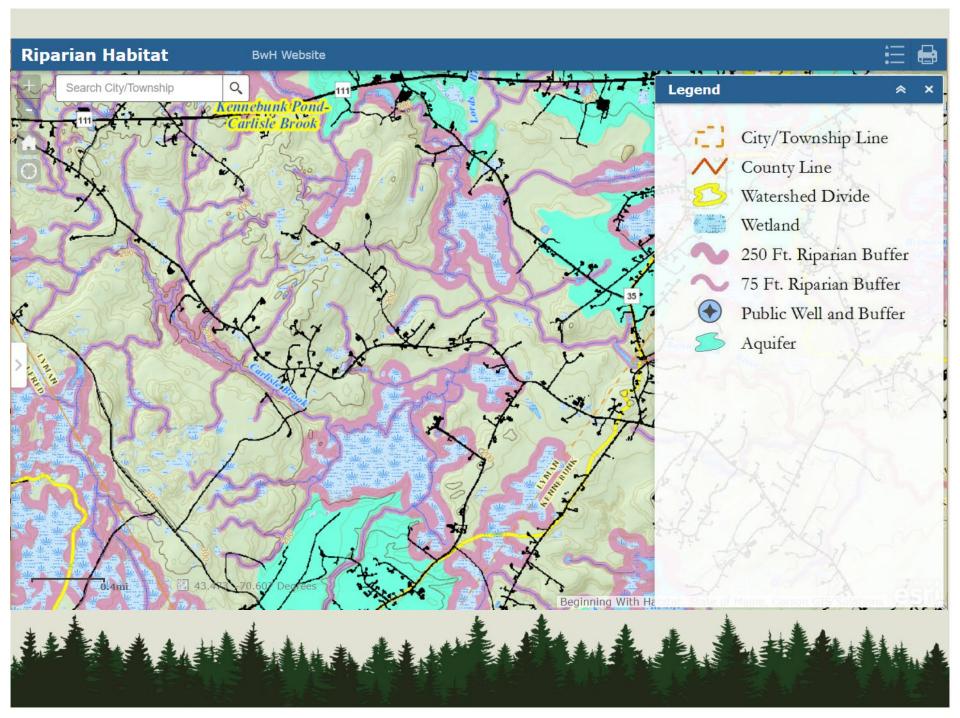
Water Resources and Riparian Habitats

This map viewer is an on-line adaptation of the <u>Beginning</u> <u>with Habitat Map 1</u>. It depicts major surface water features and drainage areas, associated shoreline habitats and riparian zones, and aquifers and wells that supply public drinking water. Maps generated with this tool should be used only as preliminary planning references to identify and illustrate the natural hydrologic connections between surface water features. Protecting riparian habitats protects water quality, maintains habitat connections, and safeguards important economic resources, including recreational and commercial fisheries.

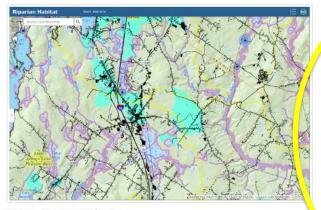
#### Data Components:

- Drainage basins. Identified by a Hydrologic Unit Code—or "HUC"—a watershed defines an area of land that catches and directs precipitation and surface water into a particular river, lake, bay, etc.
   Watersheds are "nested," with the largest HUC 6 river watersheds on this map encompassing their smaller HUC 8 drainages, within which are smaller HUC 10 subwatersheds, and so on. This map defines watersheds down to the HUC 12 level.
- Lakes, ponds, rivers, and coastal waters from the National Hydrography Dataset (NHD).





### Map Viewers



#### Map 1- Riparian Habitats

Beginning with Habitat Map 1 depicts major surface water features and drainage areas, associated shoreline habitats and riparian zones, and aquifers and wells that supply public drinking water.

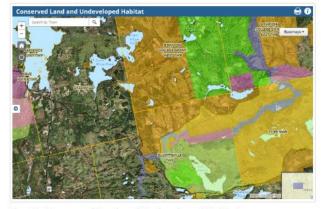


#### Map 2- Plant and Animal Habitats

Beginning with Habitat Map 2 depicts known rare, threatened, or endangered plant and animal occurrences, as well as "Significant Wildlife Habitat," "Essential Wildlife Ha, itat," and other important wildlife habitats.



#### Open Viewer



Map 3- Conserved Land and Undeveloped Habitat Beginning with Habitat Map 3 depicts the State of Maine's conserved lands database

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Welcome Layers Legend

# Beginning with HABITAT

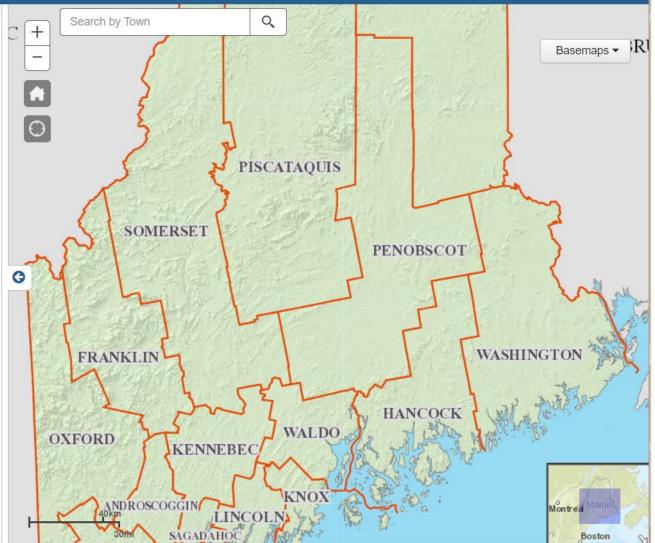
#### High Value Plant and Animal Habitats

This map viewer is an on-line adaptation of the Beginning with Habitat Map 2. It depicts known rare, threatened, or endangered plant and animal occurrences, as well as "Significant Wildlife Habitat," "Essential Wildlife Habitat," and other important wildlife habitats. Maps generated with this tool should be used only as preliminary planning references to identify and illustrate locations of mapped occurrences and habitats. Habitat data sets are updated continuously as more accurate and current data becomes available. However, as many areas have not been completely surveyed, features may be present that are not yet mapped, and the boundaries of some depicted features may need to be revised. Local knowledge is critical in providing accurate data. If errors are noted in the current depiction of resources, please contact our office: www.BeginningWithHabitat.org

Data Components:

 State Listed Animals (ETSC). Wildlife species whose conservation status is listed as Endangered,
 Threatened, or of Special Concern. Data is based on recent observations and is presented with a generalized buffer.

• Rare Plants Known rare threatened or endangered



Welcome Layers Legend

### Beginning with HABITAT

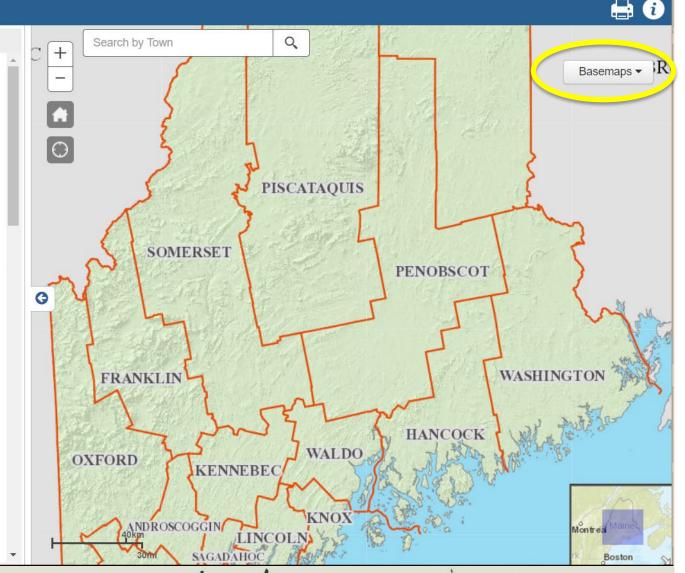
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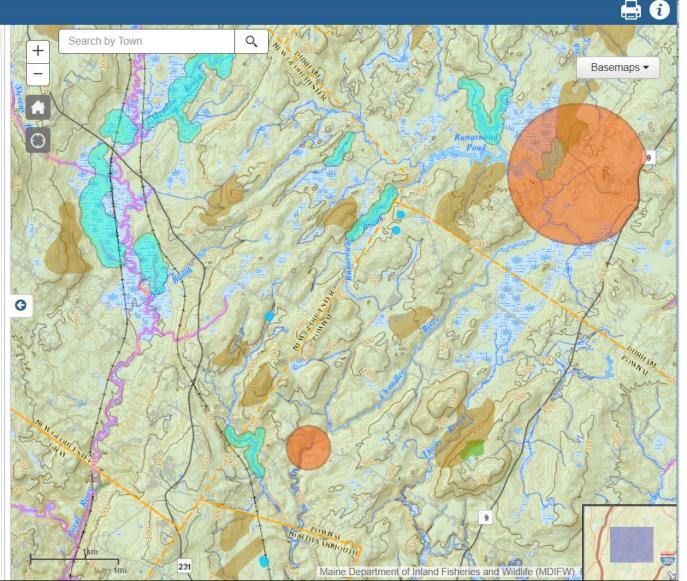
. Rare Plants. Known rare, threatened, or endancered



#### Welcome Layers Legend

#### Legend:

- State Listed Animal Habitats 1
- Deer Wintering Areas 25
- Inland Wading Bird and Waterfowl Habitat B
- Tidal Wading Bird and Waterfowl Habitat 5
- Essential Plover and Tern Habitat 25
- B Shorebird Habitat
- 5 Seabird Nesting Islands
- Significant Vernal Pools
- **Rare Plant Locations**
- Natural Communities 1
- Shellfish Beds B
- Endangered Fish Species •
- 25 Wild Brook Trout Habitat
- ~ Atlantic Salmon Spawning Habitat
- ∼ Atlantic Salmon Rearing Habitat



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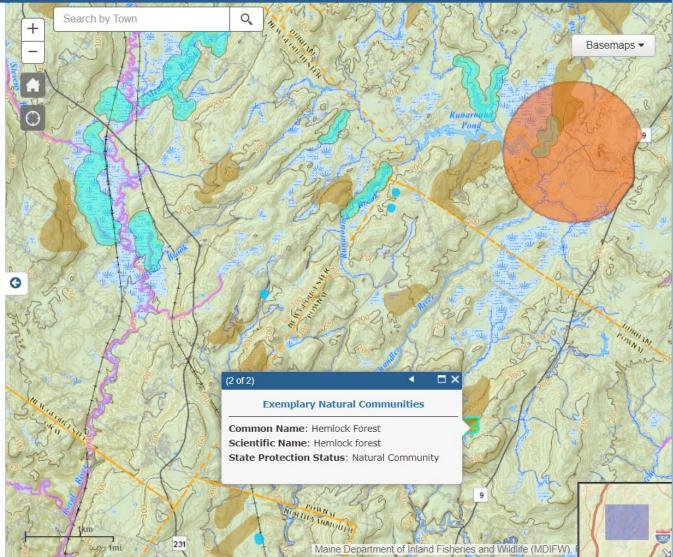


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#### Welcome Layers Legend

#### Legend:

- State Listed Animal Habitats
- Deer Wintering Areas
- Inland Wading Bird and Waterfowl Habitat
- Tidal Wading Bird and Waterfowl Habitat
- Essential Plover and Tern Habitat
- Shorebird Habitat
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- Matural Communities
- Shellfish Beds
- Endangered Fish Species
- Wild Brook Trout Habitat
- Number Atlantic Salmon Spawning Habitat
- ✓ Atlantic Salmon Rearing Habitat

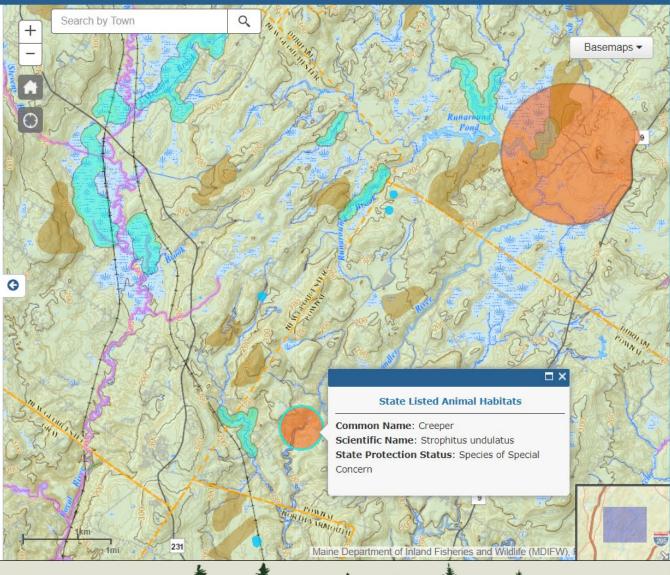


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#### Welcome Layers Legend

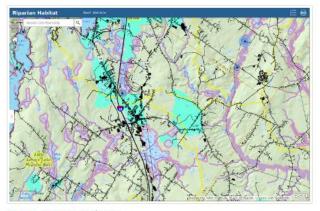
#### Legend:

- Distate Listed Animal Habitats
- 🃁 Deer Wintering Areas
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### Map Viewers



Map 1- Riparian Habitats

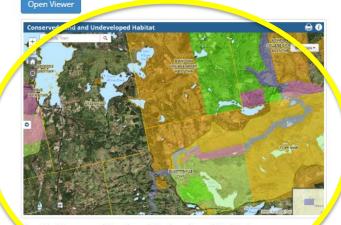
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1ap 3- Conserved Land and Undeveloped Habitat Begin, ing with Habitat Map 3 depicts the State of Maine's conserved lands

# Begin ting with Habitat Map 3 depicts the State of Maine's conserved lands a trabase

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Beginning with HABITAT

Welcome Layers Legend

Conserved Lands and Undeveloped Habitat Blocks

This map viewer is an on-line adaptation of the Beginning with Habitat Map 3. It depicts the State of Maine's conserved lands database including lands in federal, state, and nonprofit ownership. Some privately owned conservation lands may not be represented. For the most accurate and current information about land ownership, consult with the local assessor and/or other local land management agencies. If public access potential to any of the properties displayed here is uncertain, landowners should be contacted first to determine if permission is necessary. If errors are noted in the current depiction of resources, please contact our office: www.BeginningWithHabitat.org

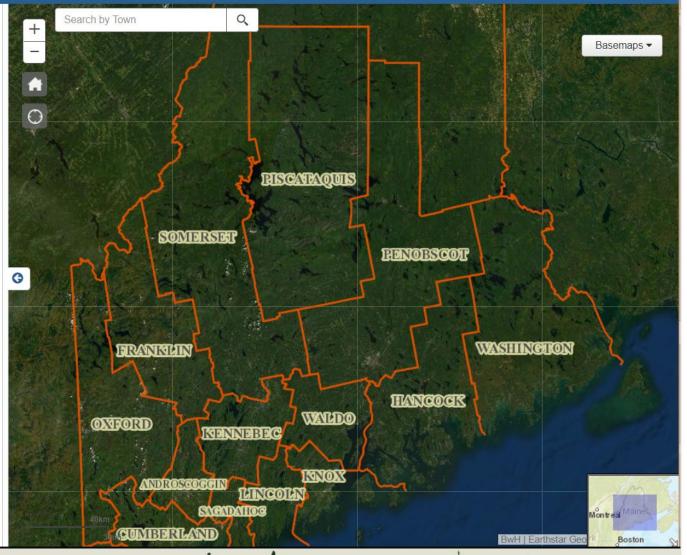
Ownership Types:

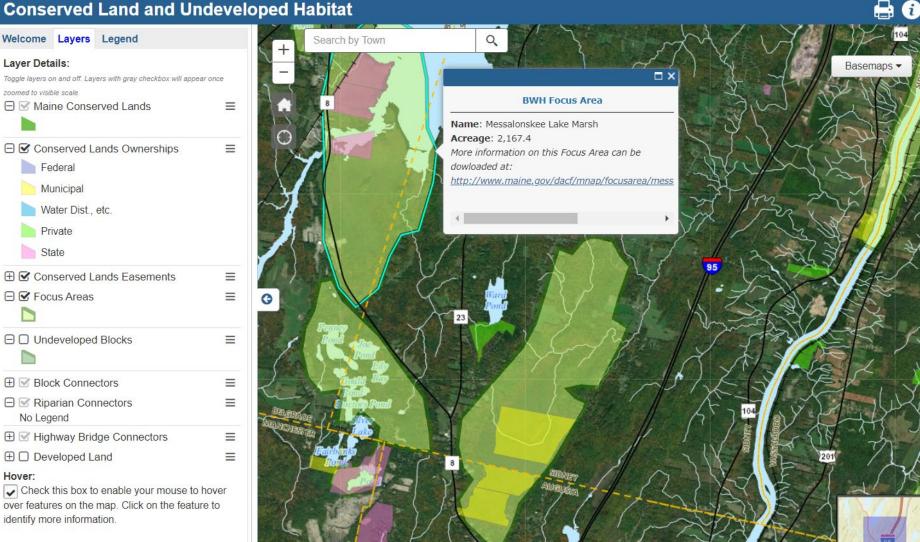
• Federal: National parks, forests, and wildlife refuges.

 State: Wildlife Management Areas and other properties managed by the Department of Inland Fisheries and Wildlife, state parks, and parcels managed by the Bureau of Parks & Lands.

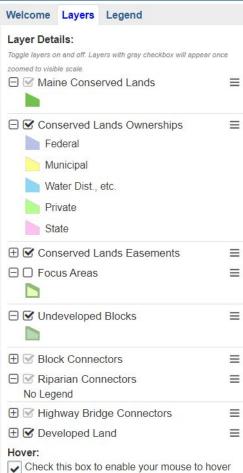
 Municipal: Town parks, water district properties, community forests, etc.

 Private Conservation: Properties owned and managed by private (usually nonprofit) organizations such as The Nature Conservancy, Maine Coast Heritage Trust; Trust for Public Land, and local land trusts

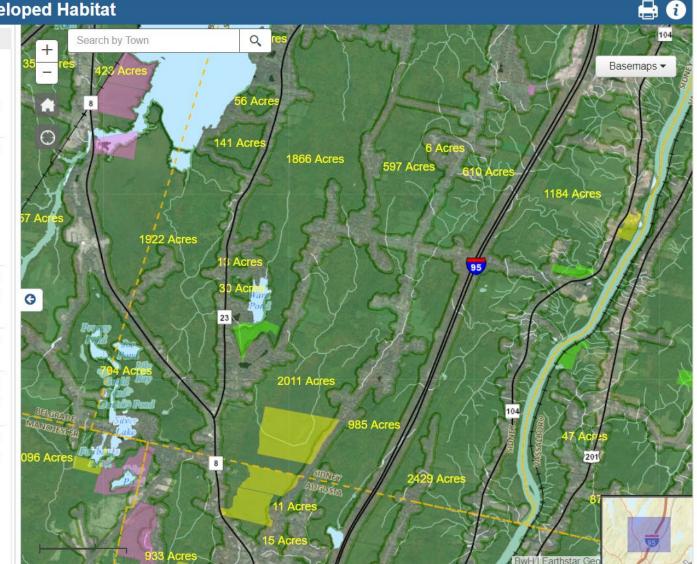




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over features on the map. Click on the feature to identify more information.



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#### Welcome Layers Legend

blocks greater than 100 acres. The threat of habitat fragmentation and animal mortality corresponds to traffic volume.



#### Yellow lines and arrows

represent habitat road crossings with daily traffic volumes less than 2000 vehicles per day.



Red lines and arrows represent habitat road crossings with daily traffic volumes greater than 2000 vehicles per day.

**Riparian Connectors:** Likely crossing locations for wetland dependent species moving between waterways and wetlands divided by roads.



Blue lines and arrows represent riparian road crossings with daily traffic volumes less than 2000 vehicles per day.

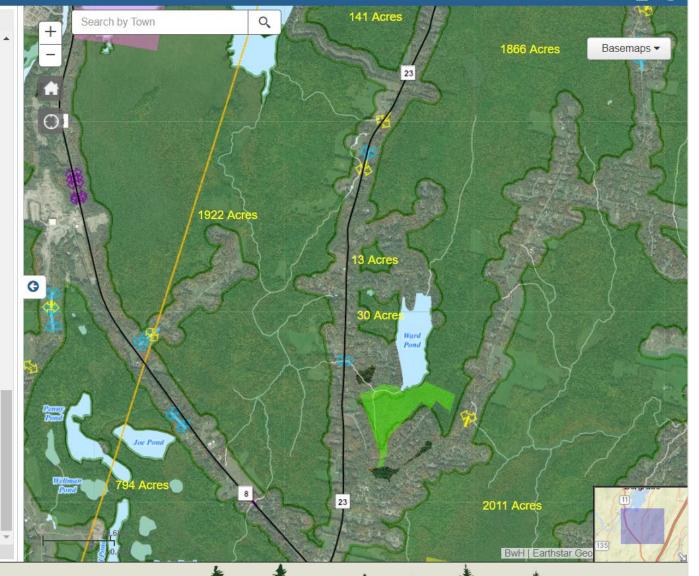


Purple lines and arrows represent riparian road crossings with daily traffic volumes greater than 2000 vehicles per day.



Highway Bridge Connectors: Bridges along I-95 and I-295 that span riparian habitat connecting adjacent but separated habitat

blocks. These are locations where species are likely to take advantage of infrastructure to move between habitat blocks.



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## Additional Content: Rare Plant Fact Sheets



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About MNAP		Main	e Nati	ural Are	as Pro	gram					
Focus Areas						0					
Communities, Plants and Animals		Main	e Rare	e Plant I	List an	d Rare	Plant Fact Shee	ets			
Natural Communities ar Ecosystems	nd						-	n a dagger (†) have had recer Maine. The printable PDF incl		-	
Rare Plants		changes.	The spread	dsheet (Excel)	has two wo	orksheets: th	e 2015 list and a list of name	e changes.		-	
Invasive Plants		Download	dable/Printa	able Versions:	2015 Tracki	ng List - PD	F version   2015 Tracking Lis	st - Excel version			
Ecological Inventory and Monitoring	d	Search:								Show 1	00 🗸 entries
Rare Animals				Scientific Nam	e		Commor	Name 🔶	State Rank	Global Rank	State Status
State and Global Rarity Ranks		<u>Acalyph</u>	<u>a virginica</u> *				Three-seeded mercury		<u>SH</u>	<u>G5</u>	PE
Survey Forms		<u>Adiantu</u>	m aleuticum				Aleutian maidenhair fern		<u>S1</u>	<u>G5?</u>	E
Maps, Data, and Technica Assistance	al	<u>Adlumia</u>	fungosa				Allegheny vine		<u>S1</u>	<u>G4</u>	E
Ecological Reserves		<u>Agalinis</u>	maritima				Saltmarsh false-foxglove		<u>S3</u>	<u>G5</u>	<u>SC</u>
		<u>Agalinis</u>	neoscotica				Nova Scotia false-foxglove		<u>S1</u>	<u>G4</u>	I
		<u>Agalinis</u>	<u>purpurea</u>				Large-purple false-foxglove		<u>S1</u>	<u>G5</u>	E
		<u>Agrostis</u>	<u>mertensii</u>				Boreal bentgrass		<u>S2</u>	<u>G5</u>	I
		<u>Aletris fa</u>	arinosa *				Unicorn root		<u>SX</u>	<u>G5</u>	PE
		Allium c	anadense				Wild garlic		S2	G5	SC

## Additional Content: Natural Community Fact Sheets



department of Agriculture, Con	servation a	nd For	estry		505050	the first	Contact Us   Get En	nail/SMS U	Jpdates   News   On	line Services   Sitemap
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DACF Home → Bureaus & Program	<u>is</u> → <u>Maine Natural Areas</u>	Program → Cor	mmunities, Pla	nts, and A	<u>nimals</u> → <u>Na</u>	tural Communitie	s and Ecosystems → Natu	ral Comm	unity Fact Sheets	
About MNAP	Maine Natu	ıral Area	s Progr	am						
Focus Areas			0							
Communities, Plants and Animals	Natural Community Fact Sheets									
Natural Communities and Ecosystems	Click on column head	ders to sort the	table.							
Natural Community Fact	Search:								Sh	ow 100 🗸 entries
Sheets		Scientific	Name				Common Name	\$	State Rank 🍦	Global Rank 🔶
Natural Community Key	Acidic Cliff - Gorge					Acidic Cliff			<u>S4</u>	GNR
Ecosystems in Maine	Alder Floodplain					Alder Floodplain			S4	GNR*
Rare Plants	i					1				
Invasive Plants	Alder Shrub Thicket					Alder Thicket			<u>S5</u>	<u>G4G5</u>
Ecological Inventory and Monitoring	Alpine Cliff					Alpine Cliff			<u>S1</u>	GNR
Rare Animals	Aspen - Birch Woodl	and/Forest Com	<u>plex</u>			Early Succession	al Forest		<u>S5</u>	<u>G5</u>
State and Global Rarity Ranks	Atlantic White Cedar	Bog				Atlantic White Ce	edar Bog		<u>S1</u>	<u>G3G4</u>
Survey Forms	Atlantic White Cedar	<u>Swamp</u>				Atlantic White Ce	edar Swamp		<u>S2</u>	<u>G3G5</u>
Maps, Data, and Technical	Balsam Poplar Flood	plain Forest				<u>Balsam Poplar F</u>	loodplain Forest		<u>S2</u>	GNR
Assistance	Beach Strand					Coastal Beach			<u>S4</u>	<u>G4G5</u>
Ecological Reserves	Beech - Birch - Mapl	e Forest				Northern Hardwo	ods Forest		<u>S5</u>	<u>G3G5</u>
	Bilberry - Mountain H	leath Alpine Sno	wbank			Alpine Snowbank	2		<u>S1</u>	<u>G2G3</u>
	Birch - Oak Talus Wo	odland				Birch - Oak Rock	y Woodland		<u>S3</u>	<u>G3G5</u>

### Additional Content: BwH - Focus Area Descriptions



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DACF Home → Bureaus & Program	$\underline{ms} \rightarrow \underline{Maine Natural Areas}$	s Program → Focus Areas -	→ Focus Area	Descriptions						
About MNAP	Maine Natı	ıral Areas Prog	gram							
Focus Areas			5							
Communities, Plants and Animals Focus Areas Descriptions Beginning with										
Maps, Data, and Technical Assistance	Maps, Data, and Technical We are in the process of building text only web pages and updating our focus area descriptions. If you									
Ecological Reserves	Click on column hea	ders to sort the table.				-				
						Service and a service service of the	States - States - States			
	Search:						Show 100 🗸	entries		
	County	÷		Focus Area			PDF Link	$\stackrel{\wedge}{\nabla}$		
	Hancock	Acadia East and Wes	t			PDF-3 MB	PDF-3 MB			
	Penobscot	Alder Stream				<u>PDF-3.1 MB</u>				
	Piscataquis	Alder Stream				PDF-3.1 M	B			
	Androscoggin	Androscoggin Lake				PDF-2 MB				
	Kennebec Androscoggin Lake PDF-2 MB									
	Knox	Appleton Bog - Petting	gill Swamp - \	Witcher Swamp		PDF-2.5 M	B			
	Waldo	Appleton Bog - Petting	gill Swamp - \	Witcher Swamp		PDF-2.5 M	B			
	Aroostook	Aroostook River - Was	shburn to Pre	sque Isle		PDF-2.651	MB			
	Somerset Attean Pond - Moose River PDF-1.4 MB									
	Lineards	Dependence Diver				DDE 774 V	(2)			



## Additional Content: Endangered and Threatened Species

Endangered and Threatened Mammals

Rare, Threatened, and Endangered Reptiles and Amphibians

Rare, Threatened, & Endangered Invertebrates

Living with Wildlife

Environmental Review

Lands

Reports & Publications

Support Wildlife

Fish and Wildlife in Captivity

Citizen Science Projects

#### Maine's Endangered Species

October 15, 2015

#### Birds

- <u>American Pipit (PDF)</u> (Anthus rubescens) (breeding population only) (<u>species plan</u>)
- Black-crowned Night Heron
  (*Nycticorax nycticorax*)
- Black Tern (PDF) (Chlidonias niger)
- <u>Golden Eagle (PDF)</u> (Aquila chrysaetos) (<u>species plan</u>)
- <u>Grasshopper Sparrow (PDF)</u> (Ammodramus savannarum)
- Least Bittern (Ixobrychus exilis)
- Least Tern (PDF) (Sterna antillarum) (species plan)
- <u>Peregrine Falcon (PDF)</u> (*Falco peregrinus*) (breeding population only)
- <u>Piping Plover (PDF)</u> (Charadrius melodus) (<u>species plan</u>)\*\*
- <u>Roseate Tern (PDF)</u> (*Sterna dougallii*) (<u>species plan</u>)\*
- <u>Sedge Wren (PDF)</u> (Cistothorus platensis)

#### Maine's Threatened Species

October 15, 2015

#### Birds

- <u>Arctic Tern (PDF)</u> (Sterna paradisaea) (<u>species plan</u>)
- <u>Atlantic Puffin (PDF)</u> (Fratercula arctica) (species plan)
- Barrow's Goldeneye (*Bucephala islandica*) (<u>species plan</u>)
- Common Gallinule (Gallinula chloropus)
- Great Cormorant (*Phalacrocorax carbo*) (Breeding population only)
- <u>Harlequin Duck (PDF)</u> (Histrionicus histrionicus) (<u>species plan</u>)
- <u>Razorbill (PDF)</u> (Alca torda) (species plan)
- Short-eared Owl (Asio flammeus) (Breeding population only)
- <u>Upland Sandpiper (PDF)</u> (Bartramia longicauda) (<u>species plan</u>)`

#### Fish

 <u>Swamp Darter (PDF)</u> (Etheostoma fusiforme)

#### Invertebrates

Fish



### My Questions for You

- What habitat management resources could you use?
- Current barriers to habitat management?
- How can I help?

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#### Beginning with Habitat

www.beginningwithhabitat.org

**Rare Plants** 

https://www.maine.gov/dacf/mnap/features/rare\_plants/index.htm

Natural Communities

https://www.maine.gov/dacf/mnap/features/community.htm

Focus Areas

https://www.maine.gov/dacf/mnap/focusarea/index.htm

Threatened and Endangered Wildlife

https://www.maine.gov/ifw/fish-wildlife/wildlife/endangered-threatened-species/listedspecies.html

