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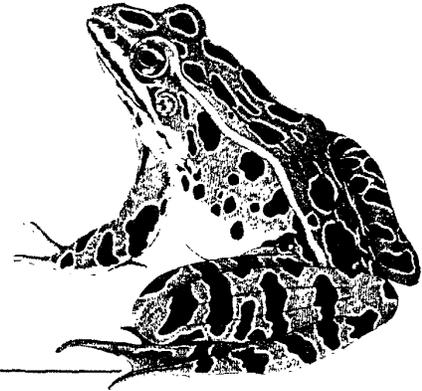
**Northeastern Forest
Experiment Station**

General Technical
Report NE-108

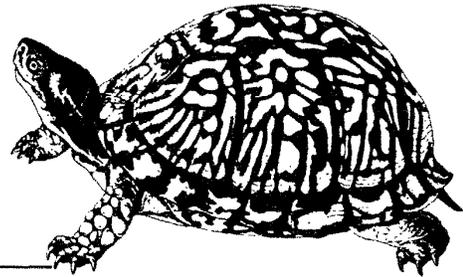


New England Wildlife: Habitat, Natural History, and Distribution

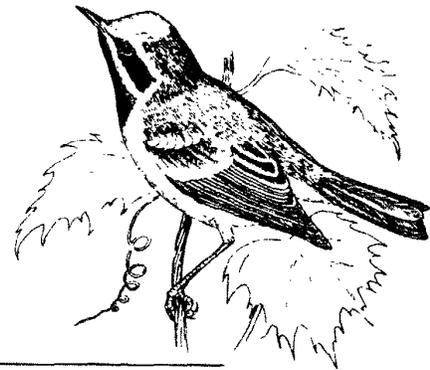
Richard M. DeGraaf
Deborah D. Rudis



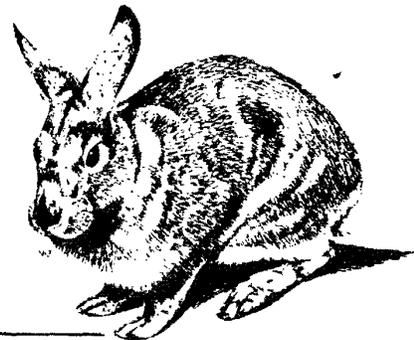
Amphibians



Reptiles



Birds



Mammals

ABSTRACT

Describes natural history profiles of New England wildlife species and their associations with forested and nonforested habitats. Provides a data base that will enable forest managers or wildlife biologists to describe the species or groups to be found in a given habitat.

THE AUTHORS

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Special Status Designations

Many wildlife species or subspecies in New England are protected by state or federal legislation, by hunting regulations, or have been noted by private conservation groups as species deserving special consideration due to their relative scarcity. Because of the variety of regulations and legislation that exists for different species within the six-state region, we have not attempted to define or list any of these special status categories. Instead, we have listed all the species or subspecies that have a special status designation, and we have indicated the applicable state (not necessarily included in state

regulations). These categories have been determined by either a private group or a state agency and include such designations as state endangered, threatened, or rare.

If interested in further information regarding a species' status in a particular state, the user should contact the state agency with jurisdiction over wildlife, the Natural Heritage Program of The Nature Conservancy in that state, or the Audubon Society chapter, and so on. Species that are covered by state hunting laws are not included in this list.

AMPHIBIANS

	ME	NH	VT	MA	RI	CT
Mudpuppy, <i>Necturus m. maculosus</i>			*	*	*	*
Marbled Salamander, <i>Ambystoma opacum</i>		*		*	*	*
Jefferson Salamander, <i>Ambystoma jeffersonianum</i>		*	*	*		*
Silvery Salamander, <i>Ambystoma platineum</i>			*			
Blue-spotted Salamander, <i>Ambystoma laterale</i>	*	*	*	*		*
Tremblay's Salamander, <i>Ambystoma tremblayi</i>	*		*			
Slimy Salamander, <i>Plethodon g. glutinosus</i>			*	*		*
Northern Spring Salamander, <i>Gyrinophilus p. porphyriticus</i>	*	*	*	*		*
Eastern Spadefoot, <i>Scaphiopus h. holbrookii</i>				*	*	*
Fowler's Toad, <i>Bufo woodhousii fowleri</i>	*	*				
Mink Frog, <i>Rana septentrionalis</i>	*	*	*			

REPTILES

	ME	NH	VT	MA	RI	CT
Stinkpot, <i>Sternotherus odoratus</i>			*			
Spotted Turtle, <i>Clemmys guttata</i>	*	*	*	*	*	*
Bog Turtle, <i>Clemmys muhlenbergii</i>			*	*		*
Wood Turtle, <i>Clemmys insculpta</i>	*	*	*	*	*	*
Eastern Box Turtle, <i>Terrapene c. carolina</i>	*	*		*	*	*
Map Turtle, <i>Graptemys geographica</i>			*			
Plymouth Redbelly Turtle, <i>Pseudemys rubriventris bangsi</i>				*		
Blanding's Turtle, <i>Emydoidea blandingii</i>	*	*		*		*
Eastern Spiny Softshell, <i>Trionyx s. spiniferus</i>			*			
Five-lined Skink, <i>Eumeces fasciatus</i>			*	*		*
Eastern Hognose Snake, <i>Heterodon platyrhinos</i>		*			*	*
Eastern Worm Snake, <i>Carphophis a. amoenus</i>	*			*	*	*
Eastern Smooth Green Snake, <i>Opheodrys v. vernalis</i>					*	
Black Rat Snake, <i>Elaphe o. obsoleta</i>		*	*	*	*	*
Northern Copperhead, <i>Agkistrodon contortrix mokeson</i>				*	*	
Timber Rattlesnake, <i>Crotalus horridus</i>		*	*	*	*	*

BIRDS

	ME	NH	VT	MA	RI	CT
Common Loon, <i>Gavia immer</i>	*	*	*	*		*
Pied-billed Grebe, <i>Podilymbus podiceps</i>	*	*	*	*	*	*
American Bittern, <i>Botaurus lentiginosus</i>	*	*	*	*	*	*
Least Bittern, <i>Ixobrychus exilis</i>	*	*	*	*	*	*
Black-crowned Night-heron, <i>Nycticorax nycticorax</i>	*		*	*	*	*
Yellow-crowned Night-heron, <i>Nycticorax violaceus</i>						*
Glossy Ibis, <i>Plegadis falcinellus</i>	*	*		*	*	*
Hooded Merganser, <i>Lophodytes cucullatus</i>						*
Common Merganser, <i>Mergus merganser</i>						*
Red-breasted Merganser, <i>Mergus serrator</i>			*			
Osprey, <i>Pandion haliaetus</i>	*	*	*	*	*	*
Bald Eagle, <i>Haliaeetus leucocephalus</i>	*	*		*		
Northern Harrier, <i>Circus cyaneus</i>	*	*	*	*		
Sharp-shinned Hawk, <i>Accipiter striatus</i>				*	*	*
Cooper's Hawk, <i>Accipiter cooperii</i>	*	*	*	*	*	*

BIRDS

ME NH VT MA RI CT

Northern Goshawk, <i>Accipiter gentilis</i>					*	
Red-shouldered Hawk, <i>Buteo lineatus</i>	*	*	*	*	*	*
Golden Eagle, <i>Aquila chrysaetos</i>	*					*
Merlin, <i>Falco columbarius</i>	*	*				
Peregrine Falcon, <i>Falco peregrinus</i>	*	*	*	*		*
Spruce Grouse, <i>Dendragapus canadensis</i>			*			
King Rail, <i>Rallus elegans</i>		*		*	*	*
Sora, <i>Porzana carolina</i>		*	*			
Common Moorhen, <i>Gallinula chloropus</i>	*	*	*	*	*	
American Coot, <i>Fulica americana</i>			*	*		
Piping Plover, <i>Charadrius melodus</i>	*			*	*	*
Upland Sandpiper, <i>Bartramia longicauda</i>	*	*	*	*	*	*
Black Tern, <i>Chlidonias niger</i>	*	*	*			
Common Barn-Owl, <i>Tyto alba</i>	*	*	*	*	*	*
Long-eared Owl, <i>Asio otus</i>		*	*	*	*	*
Short-eared Owl, <i>Asio flammeus</i>	*	*	*	*		
Whip-poor-will, <i>Caprimulgus vociferus</i>		*				
Red-headed Woodpecker, <i>Melanerpes erythrocephalus</i>	*	*	*	*	*	
Three-toed Woodpecker, <i>Picoides tridactylus</i>	*	*	*			
Black-backed Woodpecker, <i>Picoides arcticus</i>		*	*			
Olive-sided Flycatcher, <i>Contopus borealis</i>				*		*
Acadian Flycatcher, <i>Empidonax virescens</i>				*	*	
Horned Lark, <i>Eremophila alpestris</i>						*
Cliff Swallow, <i>Hirundo pyrrhonota</i>					*	
Purple Martin, <i>Progne subis</i>		*		*		*
Gray Jay, <i>Perisoreus canadensis</i>		*	*			
Carolina Wren, <i>Thryothorus ludovicianus</i>			*			
Winter Wren, <i>Troglodytes troglodytes</i>					*	
Sedge Wren, <i>Cistothorus platensis</i>	*	*	*	*	*	*
Golden-crowned Kinglet, <i>Regulus satrapa</i>						*
Eastern Bluebird, <i>Sialia sialis</i>		*				*
Gray-cheeked Thrush, <i>Catharus minimus</i>				*		
Loggerhead Shrike, <i>Lanius ludovicianus</i>	*	*	*	*		*
Golden-winged Warbler, <i>Vermivora chrysoptera</i>	*	*	*	*		*
Northern Parula, <i>Parula americana</i>				*		*
Magnolia Warbler, <i>Dendroica magnolia</i>					*	
Yellow-rumped Warbler, <i>Dendroica coronata</i>					*	
Pine Warbler, <i>Dendroica pinus</i>		*				
Cerulean Warbler, <i>Dendroica cerulea</i>			*			
Kentucky Warbler, <i>Oporornis formosus</i>						*
Wilson's Warbler, <i>Wilsonia pusilla</i>			*			
Yellow-breasted Chat, <i>Icteria virens</i>			*		*	
Vesper Sparrow, <i>Poocetes gramineus</i>				*		
Savannah Sparrow, <i>Passerculus sandwichensis</i>					*	
Grasshopper Sparrow, <i>Ammodramus savannarum</i>	*	*	*	*	*	*
Henslow's Sparrow, <i>Ammodramus henslowii</i>		*	*	*		*
White-throated Sparrow, <i>Zonotrichia albicollis</i>				*		
Orchard Oriole, <i>Icterus spurius</i>	*	*				
Pine Grosbeak, <i>Pinicola enucleator</i>	*					
Evening Grosbeak, <i>Coccothraustes vespertinus</i>					*	

MAMMALS

	ME	NH	VT	MA	RI	CT
Water Shrew, <i>Sorex palustris</i>				*	*	*
Smoky Shrew, <i>Sorex fumeus</i>					*	
Long-tailed or Rock Shrew, <i>Sorex dispar</i>		*	*	*		
Least Shrew, <i>Cryptotis parva</i>						*
Indiana Myotis, <i>Myotis sodalis</i>	*	*	*	*		*
Small-footed Myotis, <i>Myotis leibii</i>						
New England Cottontail, <i>Sylvilagus transitionalis</i>					*	
Northern Flying Squirrel, <i>Glaucomys sabrinus</i>						*
Deer Mouse, <i>Peromyscus maniculatus</i>						*
Rock Vole, <i>Microtus chrotorrhinus</i>		*	*			
Southern Bog Lemming, <i>Synaptomys cooperi</i>		*		*	*	*
Northern Bog Lemming, <i>Synaptomys borealis</i>	*	*				
Woodland Jumping Mouse, <i>Napaeozapus insignis</i>					*	
Porcupine, <i>Erethizon dorsatum</i>		*	*			
Black Bear, <i>Ursus americanus</i>						*
Marten, <i>Martes americana</i>		*	*			*
Fisher, <i>Martes pennanti</i>						*
Eastern Cougar or Mountain Lion, <i>Felis concolor cougar</i>						
Lynx, <i>Felis lynx</i>	*	*	*			
Bobcat, <i>Felis rufus</i>					*	

Coastal and Migrant Species

Species	Season	Habitat
Coastal		
Northern Diamondback Terrapin <i>Malaclemys t. terrapin</i>	permanent resident	coastal marshes
Red-throated Loon <i>Gavia stellata</i>	winter	coastal bays
Horned Grebe <i>Podiceps auritus</i>	winter	coastal bays
Red-necked Grebe <i>Podiceps grisegena</i>	winter	coastal bays
Leach's Storm-Petrel <i>Oceanodroma leucorhoa</i>	breeding	coastal rocks
Great Cormorant <i>Phalacrocorax carbo</i>	permanent resident	coastal rocks
Double-crested Cormorant <i>Phalacrocorax auritus</i>	breeding	coastal rocks
Great Egret <i>Casmerodius albus</i>	breeding	coastal marsh

Species	Season	Habitat
Snowy Egret <i>Egretta thula</i>	breeding	coastal marsh
Little Blue Heron <i>Egretta caerulea</i>	breeding	coastal marsh— persistent emergent vegetation
Tricolored Heron <i>Egretta tricolor</i>	breeding	coastal marsh
Cattle Egret* <i>Bubulcus ibis</i>	breeding	coastal marsh
Snow Goose <i>Chen caerulescens</i>	winter	coastal bays, estuaries
Brant <i>Branta bernicla</i>	winter	coastal bays
Redhead* <i>Aythya americana</i>	winter	coastal bays
Greater Scaup <i>Aythya marila</i>	winter	coastal bays, estuaries
Lesser Scaup <i>Aythya affinis</i>	winter	coastal bays, estuaries
Common Eider <i>Somateria mollissima</i>	breeding and winter	coastal bays, ocean
King Eider <i>Somateria spectabilis</i>	winter	coastal bays, ocean
Harlequin Duck <i>Histrionicus histrionicus</i>	winter	coastal bays
Oldsquaw <i>Clangula hyemalis</i>	winter	coastal bays, ocean
Black Scoter <i>Melanitta nigra</i>	winter	coastal bays, ocean
Surf Scoter <i>Melanitta perspicillata</i>	winter	coastal bays, ocean
White-winged Scoter <i>Melanitta fusca</i>	winter	coastal bays, ocean
Barrow's Goldeneye <i>Bucephala islandica</i>	winter	coastal bays, ocean
Ruddy Duck <i>Oxyura jamaicensis</i>	breeding (rare)	coastal marshes, bays winter

*Found inland on rare occasions.

Species	Season	Habitat
Clapper Rail <i>Rallus longirostris</i>	permanent resident	coastal marsh
Black-bellied Plover <i>Pluvialis squatarola</i>	winter	coastal mud flat
<i>Charadrius melodus</i>	breeding	coastal beach
American Oystercatcher <i>Haematopus palliatus</i>	breeding	coastal beach, rocks
Willet <i>Catoptrophorus semipalmatus</i>	breeding	coastal beach
Whimbrel <i>Numenius phaeopus</i>	migrant	coastal mud flat
Hudsonian Godwit <i>Limosa haemastica</i>	migrant	coastal mud flat
Marbled Godwit <i>Limosa fedoa</i>	migrant	coastal mud flat
Ruddy Turnstone <i>Arenaria interpres</i>	winter	coastal mud flat
Red Knot <i>Calidris canutus</i>	winter	coastal mud flat
Semipalmated Sandpiper <i>Calidris pusilla</i>	migrant	coastal mud flat
White-rumped Sandpiper <i>Calidris fuscicollis</i>	migrant	coastal marsh, mud flat
Baird's Sandpiper <i>Calidris bairdii</i>	migrant	coastal marsh, mud flat
Pectoral Sandpiper <i>Calidris melanotos</i>	migrant	coastal marsh, mud flat
Purple Sandpiper <i>Calidris maritima</i>	winter	coastal rocks
Dunlin <i>Calidris alpina</i>	winter	coastal beach
Stilt Sandpiper <i>Calidris himantopus</i>	migrant	coastal marsh, mud flat
Short-billed Dowitcher <i>Limnodromus griseus</i>	migrant	coastal marsh, mud flat
Red-necked Phalarope <i>Phalaropus lobatus</i>	migrant	coastal marsh, estuary, ocean

* Threatened in New England (Federal Register 50 (238): 50726-50734).

Species	Season	Habitat
Snowy Egret <i>Egretta thula</i>	breeding	coastal marsh
Little Blue Heron <i>Egretta caerulea</i>	breeding	coastal marsh— persistent emergent vegetation
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Cattle Egret* <i>Bubulcus ibis</i>	breeding	coastal marsh
Snow Goose <i>Chen caerulescens</i>	winter	coastal bays, estuaries
Brant <i>Branta bernicla</i>	winter	coastal bays
Redhead* <i>Aythya americana</i>	winter	coastal bays
Greater Scaup <i>Aythya marila</i>	winter	coastal bays, estuaries
Lesser Scaup <i>Aythya affinis</i>	winter	coastal bays, estuaries
Common Eider <i>Somateria mollissima</i>	breeding and winter	coastal bays, ocean
King Eider <i>Somateria spectabilis</i>	winter	coastal bays, ocean
Harlequin Duck <i>Histrionicus histrionicus</i>	winter	coastal bays
Oldsquaw <i>Clangula hyemalis</i>	winter	coastal bays, ocean
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Surf Scoter <i>Melanitta perspicillata</i>	winter	coastal bays, ocean
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American Oystercatcher <i>Haematopus palliatus</i>	breeding	coastal beach, rocks
Willet <i>Catoptrophorus semipalmatus</i>	breeding	coastal beach
Whimbrel <i>Numenius phaeopus</i>	migrant	coastal mud flat
Hudsonian Godwit <i>Limosa haemastica</i>	migrant	coastal mud flat
Marbled Godwit <i>Limosa fedoa</i>	migrant	coastal mud flat
Ruddy Turnstone <i>Arenaria interpres</i>	winter	coastal mud flat
Red Knot <i>Calidris canutus</i>	winter	coastal mud flat
Semipalmated Sandpiper <i>Calidris pusilla</i>	migrant	coastal mud flat
White-rumped Sandpiper <i>Calidris fuscicollis</i>	migrant	coastal marsh, mud flat
Baird's Sandpiper <i>Calidris bairdii</i>	migrant	coastal marsh, mud flat
Pectoral Sandpiper <i>Calidris melanotos</i>	migrant	coastal marsh, mud flat
Purple Sandpiper <i>Calidris maritima</i>	winter	coastal rocks
Dunlin <i>Calidris alpina</i>	winter	coastal beach
Stilt Sandpiper <i>Calidris himantopus</i>	migrant	coastal marsh, mud flat
Short-billed Dowitcher <i>Limnodromus griseus</i>	migrant	coastal marsh, mud flat
Red-necked Phalarope <i>Phalaropus lobatus</i>	migrant	coastal marsh, estuary, ocean

* Threatened in New England (Federal Register 50 (238): 50726-50734).

Species	Season	Habitat
Red Phalarope <i>Phalaropus fulicaria</i>	migrant	coastal marsh, estuary, ocean
Laughing gull <i>Larus atricilla</i>	breeding	coast
Bonaparte's Gull <i>Larus philadelphia</i>	winter	coast
Iceland Gull <i>Larus glaucoides</i>	winter	coast
Glaucous Gull <i>Larus hyperboreus</i>	winter	coast
Roseate Tern <i>Sterna dougallii</i>	breeding	coastal beach
Arctic Tern <i>Sterna paradisaea</i>	breeding	coastal beach
Least Tern <i>Sterna antillarum</i>	breeding	coastal beach
Black Skimmer <i>Rynchops niger</i>	breeding	coastal beach
Razorbill <i>Alca torda</i>	breeding and winter	coastal rocks
Black Guillemot <i>Cepphus grylle</i>	breeding and winter	coastal rocks
Atlantic Puffin <i>Fratercula arctica</i>	breeding and winter	coastal rocks
Dickcissel <i>Spiza americana</i>	breeding, permanent resident	coastal marsh
Sharp-tailed Sparrow <i>Ammodramus caudacutus</i>	breeding, coastal marsh permanent resident	coastal marsh
Seaside Sparrow <i>Ammodramus maritimus</i>	permanent resident	coastal marsh
Migrants		
Greater Yellowlegs <i>Tringa melanoleuca</i>	migrant spring fall	fresh and coastal marshes coastal marsh
Lesser Yellowlegs <i>Tringa flavipes</i>	migrant spring fall	fresh and coastal marshes coastal marsh

Species	Season	Habitat
Solitary Sandpiper <i>Tringa solitaria</i>	migrant	fresh marsh
Sanderling <i>Calidris alba</i>	winter	ocean beach
Least Sandpiper <i>Calidris minutilla</i>	migrant	marshes, mud flats
Water Pipit <i>Anthus spinoletta</i>	migrant	plowed fields
Orange-crowned Warbler <i>Vermivora celata</i>	migrant	woodlands
White-crowned Sparrow <i>Zonotrichia leucophrys</i>	migrant	field edges
Other		
Black-tailed Jackrabbit <i>Lepus californicus</i>		Introduced on Nantucket Island, Massachusetts

Guild Designations for Inland Wildlife of New England

C — Carnivore O — Omnivore P — Piscivore F — Frugivore
 I — Insectivore H — Herbivore G — Granivore

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Mudpuppy	C : Water Ambusher	Water	C : Water Ambusher
Marbled Salamander	I : Ground Gleaner	Water	
Jefferson Salamander	I : Ground Gleaner	Water	
Silvery Salamander	I : Ground Gleaner	Water	
Blue-spotted Salamander	I : Ground Gleaner	Water	
Tremblay's Salamander	I : Ground Gleaner	Water	
Spotted Salamander	I : Ground Gleaner	Water	
Red-spotted Newt	I : Water Gleaner	Water	I : Water Gleaner
Northern Dusky Salamander	I : Water Gleaner	Riparian Subsurface	I : Water Gleaner
Mountain Dusky Salamander	I : Ground Gleaner	Terrestrial Subsurface	
Redback Salamander	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Slimy Salamander	I : Ground Gleaner	Terrestrial Subsurface	
Four-toed Salamander	I : Ground Gleaner	Riparian Ground	
Northern Spring Salamander	I : Water Gleaner	Water	I : Water Gleaner
Northern Two-lined Salamander	I : Water Gleaner	Water	I : Water Gleaner
Eastern Spadefoot	I : Ground Ambusher	Water	
Eastern American Toad	I : Ground Ambusher	Water	
Fowler's Toad	I : Ground Ambusher	Water	
Northern Spring Peeper	I : Riparian Ambusher	Water	
Gray Treefrog	I : Bark Ambusher	Water	
Bullfrog	C : Water Ambusher	Water	
Green Frog	C : Riparian Ambusher	Water	
Mink Frog	I : Water Ambusher	Water	
Wood Frog	I : Ground Ambusher	Water	
Northern Leopard Frog	I : Riparian Ambusher	Water	
Pickerel Frog	I : Riparian Ambusher	Water	
Common Snapping Turtle	O : Bottom Forager	Riparian Subsurface	O : Bottom Forager
Stinkpot	C : Bottom Forager	Riparian Subsurface	
Spottled Turtle	O : Bottom Forager	Riparian Subsurface	
Bog Turtle	O : Riparian Forager	Riparian Ground	
Wood Turtle	O : Ground Forager	Terrestrial Subsurface	
Eastern Box Turtle	O : Ground Forager	Terrestrial Subsurface	
Map Turtle	O : Bottom Forager	Terrestrial Subsurface	
Red-eared Slider	O : Bottom Forager	Terrestrial Subsurface	
Plymouth Redbelly Turtle	H : Water Grazer	Riparian Subsurface	
Eastern Painted Turtle	O : Bottom Forager	Terrestrial Subsurface	
Midland Painted Turtle	O : Bottom Forager	Riparian Subsurface	O : Bottom Forager
Blanding's Turtle	O : Bottom Forager	Riparian Subsurface	
Eastern Spiny Softshell	I : Water Ambusher	Riparian Subsurface	
Five-lined Skink	I : Ground Ambusher	Terrestrial Subsurface	
Northern Water Snake	C : Water Ambusher	Riparian Subsurface	
Northern Brown Snake	I : Ground Ambusher	Terrestrial Subsurface	
Northern Redbelly Snake	I : Ground Ambusher	Terrestrial Subsurface	
Eastern Garter Snake	C : Ground Ambusher	Terrestrial Subsurface	
Maritime Garter Snake	I : Ground Ambusher	Terrestrial Subsurface	
Eastern Ribbon Snake	C : Ground Ambusher	Riparian Subsurface	
Northern Ribbon Snake	C : Water Ambusher	Riparian Subsurface	
Eastern Hognose Snake	C : Ground Ambusher	Terrestrial Subsurface	
Northern Ringneck Snake	C : Ground Ambusher	Terrestrial Subsurface	
Eastern Worm Snake	I : Ground Gleaner	Terrestrial Subsurface	
Northern Black Racer	C : Ground Ambusher	Terrestrial Subsurface	
Eastern Smooth Green Snake	I : Ground Ambusher	Terrestrial Subsurface	
Black Rat Snake	C : Ground Ambusher	Terrestrial Subsurface	
Eastern Milk Snake	C : Ground Ambusher	Terrestrial Subsurface	
Northern Copperhead	C : Ground Ambusher	Terrestrial Subsurface	

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Timber Rattlesnake	C : Ground Ambusher	Terrestrial Subsurface	
Common Loon	P : Water Diver	Riparian Subsurface	P : Ocean Diver
Pied-billed Grebe	O : Bottom Forager	Water	O : Bottom Forager
American Bittern	C : Water Ambusher	Riparian Ground	
Least Bittern	C : Water Ambusher	Riparian Herb-Shrub	
Great Blue Heron	C : Water Ambusher	Riparian Twig-Branch	
Green-backed Heron	C : Water Ambusher	Riparian Shrub	
Black-crowned Night-Heron	C : Water Ambusher	Riparian Twig-Branch	C : Water Ambusher
Yellow-crowned Night-Heron	C : Water Ambusher	Riparian Twig-Branch	
Glossy Ibis	O : Riparian Prober	Riparian Ground	
Mute Swan	H : Water Grazer	Riparian Ground	H : Water Grazer
Canada Goose	H : Ground Grazer	Riparian Ground	H : Ground Grazer
Wood Duck	G : Water Forager	Riparian Tree Cavity	
Green-winged Teal	H : Water Grazer	Riparian Ground	H : Water Grazer
American Black Duck	O : Water Forager	Riparian Ground	O : Water Forager
Mallard	G : Water Forager	Riparian Ground	O : Water Forager
Norther Pintail	O : Water Forager		
Blue-winged Teal	O : Water Forager	Riparian Ground	
Northern Shoveler	O : Water Forager	Riparian Ground	O : Water Forager
Gadwall	H : Water Grazer	Riparian Ground	H : Water Grazer
American Widgeon	H : Water Grazer	Riparian Ground	H : Water Grazer
Canvasback			O : Ocean Bottom Forager
Ring-necked Duck	O : Bottom Forager	Riparian Ground	H : Bottom Forager
Common Goldeneye	O : Bottom Forager	Riparian Tree Cavity	O : Bottom Forager
Bufflehead	O : Bottom Forager	Riparian Tree Cavity	O : Bottom Forager
Hooded Merganser	P : Water Diver	Riparian Tree Cavity	P : Water Diver
Common Merganser	P : Water Diver	Riparian Tree Cavity	P : Water Diver
Red-breasted Merganser	P : Water Diver	Riparian Ground	P : Ocean Diver
Turkey Vulture	C : Ground Scavenger	Ground-Herb	C : Ground Scavenger
Osprey	P : Water Foot-Plunger	Tree Branch	
Bald Eagle	P : Water Foot-Plunger	Tree Branch	C : Ground Scavenger
Northern Harrier	C : Ground Pouncer	Riparian Ground	C : Ground Pouncer
Sharp-shinned Hawk	C : Air Hawker	Tree-Branch	C : Air Hawker
Cooper's Hawk	C : Air Hawker	Tree-Branch	C : Air Hawker
Northern Goshawk	C : Air Hawker	Tree-Branch	C : Air Hawker
Red-shouldered Hawk	C : Ground Pouncer	Tree-Branch	C : Ground Pouncer
Broad-winged Hawk	C : Ground Pouncer	Tree-Branch	
Red-tailed Hawk	C : Ground Pouncer	Tree-Branch	
Rough-legged Hawk			C : Ground Pouncer
Golden Eagle	C : Ground Pouncer	Cliff	C : Ground Pouncer
American Kestrel	C : Ground Pouncer	Tree-Branch	C : Ground Pouncer
Merlin	C : Air Hawker	Tree-Branch	C : Air Hawker
Peregrine Falcon	C : Air Hawker	Cliff	
Gray Partridge	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Ring-necked Pheasant	O : Ground Gleaner	Ground-Herb	O : Ground Gleaner
Spruce Grouse	O : Ground Gleaner	Ground-Herb	H : Upper Canopy Forager
Ruffed Grouse	O : Ground Gleaner	Ground-Herb	H : Upper Canopy Forager
Wild Turkey	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Bobwhite	O : Ground Gleaner	Ground Herb	O : Ground Gleaner
King Rail	I : Coastal Prober	Riparian Ground	O : Coastal Prober
Virginia Rail	O : Riparian Gleaner	Riparian Ground	O : Riparian Gleaner
Sora	O : Riparian Gleaner	Riparian Ground	
Common Moorhen	O : Riparian Gleaner	Riparian Ground	
American Coot	O : Bottom Forager	Riparian Ground	H : Bottom Forager
Killdeer	I : Ground Gleaner	Ground-Herb	I : Ground Gleaner
Spotted Sandpiper	O : Riparian Gleaner	Ground-Herb	

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Upland Sandpiper	I : Ground Gleaner	Ground-Herb	
Common Snipe	I : Water Gleaner	Riparian Ground	I : Water Gleaner
American Woodcock	I : Ground Prober	Ground-Herb	
Ringed-billed Gull			
Herring Gull	C : Coastal Scavenger	Beach-Rock-Dune	C : Coastal Scavenger
Great Black-backed Gull	C : Coastal Scavenger	Beach-Rock-Dune	C : Coastal Scavenger
Common Tern	P : Water Plunger	Beach-Rock-Dune	
Black Tern	I : Water Gleaner	Ground-Herb	
Rock Dove	O : Ground Gleaner	Buildings	O : Ground Gleaner
Mourning Dove	G : Ground Gleaner	Tree-Branch	G : Ground Gleaner
Black-billed Cuckoo	I : Lower Canopy Gleaner	Tree-Branch	
Yellow-billed Cuckoo	I : Lower Canopy Gleaner	Tree-Branch	
Common Barn-Owl	C : Ground Pouncer	Buildings	C : Ground Pouncer
Eastern Screech-Owl	C : Ground Pouncer	Tree Cavity-Crevise	C : Ground Pouncer
Great Horned Owl	C : Ground Pouncer	Tree-Branch	C : Ground Pouncer
Snowy Owl			
Northern Hawk-Owl			
Barred Owl	C : Ground Pouncer		C : Ground Pouncer
Great Gray Owl			C : Ground Pouncer
Long-eared Owl	C : Ground Pouncer	Tree-Branch	C : Ground Pouncer
Short-eared Owl	C : Ground Pouncer	Beach-Rock-Dune	C : Ground Pouncer
Boreal Owl			C : Ground Pouncer
Northern Saw-whet Owl	C : Ground Pouncer	Tree Cavity-Crevise	C : Ground Pouncer
Common Nighthawk	I : Air Screener	Ground-Herb	
Whip-poor-will	I : Air Screener	Ground-Herb	
Chimney Swift	I : Air Screener	Buildings	
Ruby-throated Hummingbird	O : Floral Hover-Gleaner	Tree-Branch	
Belted Kingfisher	P : Water Plunger	Riparian Subsurface	P : Water Plunger
Red-headed Woodpecker	I : Bark Gleaner	Tree Cavity-Crevise	I : Bark Gleaner
Red-bellied Woodpecker	I : Bark Gleaner	Tree Cavity-Crevise	I : Bark Gleaner
Yellow-bellied Sapsucker	O : Bark Excavator	Tree Cavity-Crevise	I : Bark Gleaner
Downy Woodpecker	I : Bark Gleaner	Tree Cavity-Crevise	I : Bark Gleaner
Hairy Woodpecker	I : Bark Gleaner	Tree Cavity-Crevise	I : Bark Gleaner
Three-toed Woodpecker	I : Bark Scaler	Tree Cavity-Crevise	I : Bark Scaler
Black-backed Woodpecker	I : Bark Scaler	Tree Cavity-Crevise	I : Bark Scaler
Northern Flicker	I : Ground Gleaner	Tree Cavity-Crevise	O : Ground Gleaner
Pileated Woodpecker	I : Bark Excavator	Tree Cavity-Crevise	I : Bark Excavator
Olive-sided Flycatcher	I : Air Sallier	Tree Branch	
Eastern Wood Pewee	I : Air Sallier	Tree Branch	
Yellow-bellied Flycatcher	I : Air Sallier	Ground-Herb	
Acadian Flycatcher	I : Air Sallier	Tree-Twig	
Alder Flycatcher	I : Air Sallier	Shrub	
Willow Flycatcher	I : Air Sallier	Shrub	
Least Flycatcher	I : Air Sallier	Tree-Branch	
Eastern Phoebe	I : Air Sallier	Buildings	
Great Crested Flycatcher	I : Air Sallier	Tree Cavity-Crevise	
Eastern Kingbird	I : Air Sallier	Tree-Twig	
Horned Lark	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Purple Martin	I : Air Screener	Buildings	
Tree Swallow	I : Air Screener	Tree Cavity-Crevise	
Northern Rough-winged Swallow	I : Air Screener	Terrestrial Subsurface	
Bank Swallow	I : Air Screener	Terrestrial Subsurface	
Cliff Swallow	I : Air Screener	Buildings	
Barn Swallow	I : Air Screener	Buildings	
Gray Jay	O : Upper Canopy Gleaner	Tree-Branch	O : Upper Canopy Gleaner
Blue Jay	O : Ground Gleaner	Tree-Branch	O : Ground Gleaner
American Crow	O : Ground Gleaner	Tree-Branch	O : Ground Gleaner
Fish Crow	O : Ground Gleaner	Riparian Twig-Branch	O : Ground Gleaner

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Common Raven	C : Ground Scavenger	Cliff	C : Ground Scavenger
Black-capped Chickadee	I : Lower Canopy Gleaner	Tree Cavity-Crevice	O : Lower Canopy Gleaner
Boreal Chickadee	I : Lower Canopy Gleaner	Tree Cavity-Crevice	I : Lower Canopy Gleaner
Tufted Titmouse	I : Lower Canopy Gleaner	Tree Cavity-Crevice	O : Lower Canopy Gleaner
Red-breasted Nuthatch	I : Bark Gleaner	Tree Cavity-Crevice	I : Bark Gleaner
White-breasted Nuthatch	I : Bark Gleaner	Tree-Cavity-Crevice	I : Bark Gleaner
Brown Creeper	I : Bark Gleaner	Tree Cavity-Crevice	I : Bark Gleaner
Carolina Wren	I : Lower Canopy Gleaner	Tree Cavity-Crevice	I : Lower Canopy Gleaner
House Wren	I : Lower Canopy Gleaner	Tree Cavity-Crevice	
Winter Wren	I : Ground Gleaner	Tree Cavity-Crevice	I : Ground Gleaner
Sedge Wren	I : Ground Gleaner	Riparian Ground	
Marsh Wren	I : Ground Gleaner	Riparian Ground	
Golden-crowned Kinglet	I : Lower Canopy Gleaner	Tree-Twig	I : Lower Canopy Gleaner
Ruby-crowned Kinglet	I : Lower Canopy Gleaner	Tree-Twig	I : Lower Canopy Gleaner
Blue-gray Gnatcatcher	I : Upper Canopy Gleaner	Tree-Branch	
Eastern Bluebird	O : Ground Gleaner	Tree Cavity-Crevice	O : Ground Gleaner
Veery	O : Ground Gleaner	Ground-Herb	
Gray-cheeked Thrush	I : Ground Gleaner	Tree-Branch	
Swainson's Thrush	I : Ground Gleaner	Tree-Twig	
Hermit Thrush	I : Ground Gleaner	Ground-Herb	O : Ground Gleaner
Wood Thrush	O : Ground Gleaner	Tree-Branch	
American Robin	O : Ground Gleaner	Tree-Branch	O : Ground Gleaner
Gray Catbird	O : Ground Gleaner	Shrub	
Northern Mockingbird	O : Ground Gleaner	Shrub	F : Lower Canopy Gleaner
Brown Thrasher	O Ground Gleaner	Shrub	O : Ground Gleaner
Bohemian Waxwing			
Cedar Waxwing	F : Upper Canopy Gleaner	Tree-Twig	F : Upper Canopy Gleaner
Northern Shrike			C : Ground Pouncer
Loggerhead Shrike	C : Ground Pouncer	Tree-Twig	C : Ground Pouncer
European Starling	O : Ground Gleaner	Buildings	O : Ground Gleaner
White-eyed Vireo	I : Lower Canopy Gleaner	Tree-Twig	
Solitary Vireo	I : Upper Canopy Gleaner	Tree-Twig	
Yellow-throated Vireo	I : Upper Canopy Gleaner	Tree-Twig	
Warbling Vireo	I : Upper Canopy Gleaner	Tree-Twig	
Philadelphia Vireo	I : Upper Canopy Gleaner	Tree-Twig	
Red-eyed Vireo	I : Upper Canopy Gleaner	Tree-Twig	
Blue-winged Warbler	I : Lower Canopy Gleaner	Ground-Herb	
Golden-winged Warbler	I : Lower Canopy Gleaner	Ground-Herb	
Tennessee Warbler	I : Upper Canopy Gleaner	Ground-Herb	
Nashville Warbler	I : Lower Canopy Gleaner	Ground-Herb	
Northern Parula	I : Upper Canopy Gleaner	Tree-Branch	
Yellow Warbler	I : Lower Canopy Gleaner	Shrub	
Chestnut-sided Warbler	I : Lower Canopy Gleaner	Shrub	
Magnolia Warbler	I : Lower Canopy Gleaner	Tree-Branch	
Cape May Warbler	I : Upper Canopy Gleaner	Tree-Twig	
Black-throated Blue Warbler	I : Lower Canopy Gleaner	Shrub	
Yellow-rumped Warbler	I : Lower Canopy Gleaner	Tree-Branch	O : Lower Canopy Gleaner
Black-throated Green Warbler	I : Upper Canopy Gleaner	Tree-Branch	
Blackburnian Warbler	I : Upper Canopy Gleaner	Tree-Branch	
Pine Warbler	I : Bark Gleaner	Tree-Branch	
Prairie Warbler	I : Lower Canopy Gleaner	Shrub	

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Palm Warbler	I : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Bay-breasted Warbler	I : Lower Canopy Gleaner	Tree-Branch	
Blackpoll Warbler	I : Lower Canopy Gleaner	Tree-Branch	
Cerulean Warbler	I : Upper Canopy Gleaner	Tree-Branch	
Black-and-white Warbler	I : Bark Gleaner	Ground-Herb	
American Redstart	I : Lower Canopy Gleaner	Tree-Twig	
Prothonotary Warbler	I : Ground Gleaner	Tree-Cavity-Crevise	
Worm-eating Warbler	I : Ground Gleaner	Ground-Herb	
Ovenbird	I : Ground Gleaner	Ground-Herb	
Northern Waterthrush	I : Riparian Gleaner	Riparian Subsurface	
Louisiana Waterthrush	I : Riparian Gleaner	Riparian Subsurface	
Mourning Warbler	I : Ground Gleaner	Ground-Herb	
Common Yellowthroat	I : Lower Canopy Gleaner	Ground-Herb	
Hooded Warbler	I : Lower Canopy Gleaner	Shrub	
Wilson's Warbler	I : Lower Canopy Gleaner	Riparian Ground	
Canada Warbler	I : Lower Canopy Gleaner	Riparian Ground	
Yellow-breasted Chat	O : Lower Canopy Gleaner	Shrub	
Scarlet Tanager	I : Upper Canopy Gleaner	Tree-Twig	
Northern Cardinal	O : Ground Gleaner	Shrub	G : Ground Gleaner
Rose-breasted Grosbeak	O : Lower Canopy Gleaner	Tree-Twig	
Indigo Bunting	I : Lower Canopy Gleaner	Ground-Herb	
Rufous-sided Towhee	O : Ground Gleaner	Ground Herb	
American Tree Sparrow			G : Ground Gleaner
Chipping Sparrow	O : Ground Gleaner	Shrub	
Field Sparrow	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Vesper Sparrow	O : Ground Gleaner	Ground-Herb	
Savannah Sparrow	O : Ground Gleaner	Ground-Herb	O : Ground Gleaner
Grasshopper Sparrow	O : Ground Gleaner	Ground-Herb	
Henslow's Sparrow	O : Ground Gleaner	Ground-Herb	
Fox Sparrow			G : Ground Gleaner
Song Sparrow	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Lincoln's Sparrow	O : Ground Gleaner	Ground-Herb	
Swamp Sparrow	I : Ground Gleaner	Riparian Ground	G : Ground Gleaner
White-throated Sparrow	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Dark-eyed Junco	O : Ground Gleaner	Ground-Herb	G : Ground Gleaner
Lapland Longspur			G : Ground Gleaner
Snow Bunting			G : Ground Gleaner
Bobolink	O : Ground Gleaner	Ground-Herb	
Red-winged Blackbird	O : Ground Gleaner	Shrub	G : Ground Gleaner
Eastern Meadowlark	I : Ground Gleaner	Ground-Herb	O : Ground Gleaner
Rusty Blackbird	O : Ground Gleaner	Tree-Twig	O : Ground Gleaner
Common Grackle	O : Ground Gleaner	Tree-Branch	O : Ground Gleaner
Brown-headed Cowbird	O : Ground Gleaner	Nest Parasite	G : Ground Gleaner
Orchard Oriole	I : Upper Canopy Gleaner	Tree-Branch	
Northern Oriole	O : Upper Canopy Gleaner	Tree-Twig	
Pine Grosbeak	G : Upper Canopy Gleaner	Tree-Twig	G : Ground Gleaner
Purple Finch	G : Upper Canopy Gleaner	Tree-Branch	G : Ground Gleaner
House Finch	O : Ground Gleaner	Tree-Twig	G : Ground Gleaner
Red Crossbill	G : Upper Canopy Gleaner	Tree-Twig	G : Upper Canopy Gleaner
White-winged Crossbill	G : Upper Canopy Gleaner	Tree-Branch	G : Upper Canopy Gleaner
Common Redpoll			G : Ground Gleaner
Hoary Redpoll			G : Ground Gleaner
Pine Siskin	O : Ground Gleaner	Tree-Branch	G : Ground Gleaner
American Goldfinch	O : Ground Gleaner	Shrub	G : Ground Gleaner
Evening Grosbeak	G : Ground Gleaner	Tree-Twig	G : Ground Gleaner
House Sparrow	G : Ground Gleaner	Buildings	G : Ground Gleaner

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Virginia Opossum	O : Ground Forager	Tree Cavity-Crevice	O : Ground Forager
Masked Shrew	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Water Shrew	I : Water Gleaner	Riparian Subsurface	I : Water Gleaner
Smoky Shrew	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Long-tailed Shrew	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Pygmy Shrew	I : Ground Gleaner	Riparian Subsurface	I : Ground Gleaner
Short-tailed Shrew	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Least Shrew	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Hairy-tailed Mole	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Eastern Mole	I : Ground Gleaner	Terrestrial Subsurface	I : Ground Gleaner
Star-nosed Mole	I : Water Gleaner	Riparian Subsurface	I : Water Gleaner
Little Brown Myotis	I : Air Hawker	Buildings	
Keen's Myotis	I : Air Hawker	Tree Cavity-Crevice	
Indiana Myotis	I : Air Hawker	Tree Cavity-Crevice	
Small-footed Myotis	I : Air Hawker	Buildings	
Silver-haired Bat	I : Air Hawker	Tree Twig	
Eastern Pipistrelle	I : Air Hawker	Cave-Crevice	
Big Brown Bat	I : Air Hawker	Buildings	
Red Bat	I : Air Hawker	Tree Twig	
Hoary Bat	I : Air Hawker	Tree Twig	
Eastern Cottontail	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser
New England Cottontail	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser
Snowshoe Hare	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser
European Hare	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser
Eastern Chipmunk	G : Ground Forager	Terrestrial Subsurface	
Woodchuck	H : Ground Grazer	Terrestrial Subsurface	
Gray Squirrel	G : Ground Forager	Tree Cavity-Crevice	G : Ground Forager
Red Squirrel	G : Upper Canopy Forager	Tree Cavity-Crevice	G : Ground Forager
Southern Flying Squirrel	G : Ground Forager	Tree Cavity-Crevice	G : Ground Forager
Northern Flying Squirrel	G : Ground Forager	Tree Cavity-Crevice	G : Ground Forager
Beaver	H : Water Grazer	Riparian Subsurface	H : Upper Canopy Browser
Deer Mouse	O : Ground Forager	Terrestrial Subsurface	G : Ground Forager
White-footed Mouse	O : Ground Forager	Terrestrial Subsurface	G : Ground Forager
Southern Red-backed Vole	H : Ground Grazer	Terrestrial Subsurface	H : Ground Forager
Meadow Vole	H : Ground Grazer	Terrestrial Subsurface	H : Ground Forager
Rock Vole	H : Ground Grazer	Terrestrial Subsurface	H : Ground Forager
Woodland Vole	H : Ground Grazer	Terrestrial Subsurface	H : Bark-Lower Canopy Browser
Muskrat	H : Water Grazer	Riparian Subsurface	H : Water Grazer
Southern Bog Lemming	H : Ground Grazer	Ground-Herb	H : Ground Forager
Northern Bog Lemming	H : Ground Grazer	Ground-Herb	H : Ground Forager
Norway Rat	O : Ground Forager	Terrestrial Subsurface	O : Ground Forager
House Mouse	O : Ground Forager	Buildings	O : Ground Forager
Meadow Jumping Mouse	O : Ground Forager	Ground-Herb	
Woodland Jumping Mouse	O : Ground Forager	Ground-Herb	
Porcupine	H : Upper Canopy Browser	Terrestrial Subsurface	H : Upper Canopy Browser
Coyote	O : Ground Forager	Terrestrial Subsurface	O : Ground Scavenger
Red Fox	O : Ground Forager	Terrestrial Subsurface	O : Ground Forager
Gray Fox	O : Ground Forager	Ground-Herb	O : Ground Forager
Black Bear	O : Ground Forager	Cave-Crevice	
Raccoon	O : Ground Forager	Tree Cavity-Crevice	H : Ground Forager
Marten	C : Upper Canopy Pursuer	Tree Cavity-Crevice	H : Upper Canopy Pursuer

Common Name	Summer Foraging	Breeding Substrate	Winter Foraging
Fisher	C : Upper Canopy Pursuer	Tree Cavity-Crevice	H : Upper Canopy Pursuer
Ermine	C : Ground Pursuer	Ground-Herb	C : Ground Pursuer
Long-tailed Weasel	C : Ground Pursuer	Terrestrial Subsurface	C : Ground Pursuer
Mink	P : Water Diver	Riparian Subsurface	P : Water Diver
Striped Skunk	O : Ground Forager	Terrestrial Subsurface	O : Ground Forager
River Otter	P : Water Diver	Riparian Subsurface	P : Water Diver
Mountain Lion	C : Ground Stalker	Ground-Herb	C : Ground Stalker
Lynx	C : Ground Stalker	Ground-Herb	C : Ground Stalker
Bobcat	C : Ground Stalker	Cave-Crevice	C : Ground Stalker
White-tailed Deer	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser
Moose	H : Ground Grazer	Ground-Herb	H : Bark-Lower Canopy Browser