

Appendix D: Species Lists

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Great Lakes Fish Species
 Gravel Island NWR
 Gravel Island and Green Bay NWRs
 Harbor Island NWR
 Huron NWR
 Michigan Islands NWR

(National Wildlife Refuge = NWR, Refuge)

Great Lakes Fish Species

Common Name	Scientific Name	Present/Absent			Regional/State Status
		Lake Michigan	Lake Huron	Lake Superior	
					R3-Conservation Priority in Region 3 E- Federal Endangered T-Federal Threatened SE-State Endangered ST-State Threatened SSC-State Special Concern
Acipenseridae					
Lake sturgeon	<i>Acipenser fulvescens</i>	x	x	x	R3 (rare/declining, recreational/economic value, tribal trust), SSC (WI), ST (MI)
Amiidae					
Bowfin	<i>Amia calva</i>	x	x		
Catostomidae					
White sucker	<i>Catostomus commersoni</i>	x	x	x	
Longnose sucker	<i>Catostomus catostomus</i>	x	x	x	
Centrarchidae					
Rockbass	<i>Ambloplites rupestris</i>	x	x	x	
Smallmouth bass	<i>Micropterus dolomieu</i>	x	x	x	
Pumpkinseed	<i>Lepomis gibbosus</i>	x	x	x	
Clupeidae					
Gizzard shad #	<i>Dorosoma cepedianum</i>	x	x	x	
Alewife #	<i>Alosa pseudoharengus</i>	x	x		
Cyprinidae					
Carp #	<i>Cyprinus Carpio</i>	x	x	x	
Esocidae					
Northern pike	<i>Esox Lucieus</i>	x	x	x	
Muskellunge	<i>Esox masquinongy</i>	x	x	x	
Gadidae					
Burbot	<i>Lota lota</i>	x	x	x	
Gobiidae					
Round goby #	<i>Neogobius melanostomus</i>	x	x	x	R3 (nuisance)
Moronidae					
White bass	<i>Morone chrysops</i>	x	x		
Osmeridae					
Rainbow smelt #	<i>Osmerus mordax</i>	x	x	x	
Percichthyidae					
White perch #	<i>Morone americana</i>	x	x	x	

Common Name	Scientific Name	Present/Absent			Regional/State Status
Percidae					
Yellow perch	<i>Perca flavescens</i>	x	x	x	R3 (rare/declining, recreational/economic value)
Walleye	<i>Stizostedion vitreum</i>	x	x	x	R3 (recreational/economic value, tribal trust)
Eurasian ruffe #	<i>Gymnocephalus cernuus</i>		x	x	R3 (nuisance)
Petromyzontidae					
Sea lamprey #	<i>Petromyzon marinus</i>	x	x	x	R3 (nuisance)
Salmonidae					
Brook trout	<i>Salvelinus fontinalis</i>	x	x	x	R3 (rare/declining, recreational/economic value, tribal trust)
Brown trout #	<i>Salmo trutta</i>	x	x	x	
Lake trout	<i>Salvelinus namaycush</i>	x	x	x	R3 (rare/declining, recreational/economic value, tribal trust)
Rainbow trout #	<i>Oncorhynchus mykiss</i>	x	x	x	
Lake whitefish	<i>Coregonus clupeaformis</i>	x	x	x	R3 (Recreational/economic value, tribal trust)
Round whitefish	<i>Prosopium cylindraceum</i>	x	x	x	
Lake herring	<i>Coregonus artedii</i>	x	x	x	ST (MI)
Shortjaw cisco	<i>Coregonus zenithicus</i>	x	x	x	R3 (rare/declining), SSC (WI), ST (MI)
Kiyi	<i>Coregonus kiyi</i>	x		x	R3 (rare/declining), SSC(WI,MI)
Chinook salmon #	<i>Oncorhynchus tshawytscha</i>	x	x	x	R3 (recreational/economic value)
Coho salmon #	<i>Oncorhynchus kisutch</i>	x	x	x	R3 (recreational/economic value)
Pink salmon #	<i>Oncorhynchus gorbuscha</i>			x	
Bloater	<i>Coregonus hoyi</i>	x	x	x	
Sciaenidae					
Freshwater drum	<i>Aplodinotus grunniens</i>	x	x	x	

Denotes introduced species

Note: Not every species found in the lakes is included

Gravel Island NWR

Bird Species

Species	Scientific Name	Habitat	Spring	Summer	Fall
Loons					
Common Loon	(<i>Gavia immer</i>)	OW	(u)	o	(u)
Grebes					
Pied-billed Grebe	(<i>Podilymbus podiceps</i>)	OW	(u)	o	(u)
Pelicans					
American White Pelican	(<i>Pelecanus erythrorhynchos</i>)	OW/RS	(u)	o	(u)
Cormorants					
Double-crested Cormorant *	(<i>Phalacrocorax auritus</i>)	OW/RS/MF	a	a	a
Hérons and Bitterns					
Great Blue Heron*	(<i>Ardea herodias</i>)	RS/MF	c	c	c
Black-crowned Night-Heron*	(<i>Nycticorax nycticorax</i>)	RS/MF	u	u	u
Great Egret*	(<i>Ardea alba</i>)	RS/MF	u	u	u
Swans, Geese, and Ducks					
Canada Goose*	(<i>Branta canadensis</i>)	OW/RS	a	c	a
Tundra Swan	(<i>Cygnus columbianus</i>)	OW	u		u
Mute Swan*	(<i>Cygnus olor</i>)	OW/RS	c	c	c
Gadwall	(<i>Anas strepera</i>)	OW	(u)		(u)
American Wigeon	(<i>Anas americana</i>)	OW	(u)		(u)
American Black Duck*	(<i>Anas rubripes</i>)	OW/RS	u	u	u
Mallard Duck*	(<i>Anas platyrhynchos</i>)	OW/RS	c	c	c
Blue-winged Teal	(<i>Anas discors</i>)	OW	(u)		(u)
Northern Pintail	(<i>Anas acuta</i>)	OW	u		u
Green-winged Teal	(<i>Anas crecca</i>)	OW	(u)		(u)
Redhead	(<i>Aythya americana</i>)	OW	(u)		(u)
Greater Scaup	(<i>Aythya marila</i>)	OW	(u)		(u)
Lesser Scaup	(<i>Aythya affinis</i>)	OW	(u)		(u)
Bufflehead	(<i>Bucephala albeola</i>)	OW	(u)	(u)	(u)
Common Goldeneye	(<i>Bucephala clangula</i>)	OW	c	c	c
Long-tailed Duck	(<i>Clangula hyemalis</i>)	OW	(c)		(c)
Hooded Merganser	(<i>Lophodytes cucullatus</i>)	OW	(u)		(u)
Common Merganser	(<i>Mergus merganser</i>)	OW	(u)	(u)	o
Red-breasted Merganser*	(<i>Mergus serrator</i>)	OW/RS	c	c	c
Hawks and Eagles					
Bald Eagle	(<i>Haliaeetus leucocephalus</i>)	OW/RS/MF	u	u	u
Sharp-shinned Hawk	(<i>Accipiter striatus</i>)	FE	u	u	u
Red-shouldered Hawk	(<i>Buteo lineatus</i>)	MF	r	r	r
Red-tailed Hawk	(<i>Buteo jamaicensis</i>)	FE/GF/MF	c	c	c
Broad-winged Hawk	(<i>Buteo platypterus</i>)		(a)	u	(a)
Falcons					
Peregrine Falcon	(<i>Falco peregrinus</i>)		r	r	r
Merlin	(<i>Falco columbarius</i>)	MF	r		
Rails and Coots					
American Coot	(<i>Fulica americana</i>)	OW	(u)		(u)
Shorebirds					
Black-bellied Plover	(<i>Pluvialis squatarola</i>)	RS	(u)		(r)
Piping Plover	(<i>Charadrius melodus</i>)	RS/SB	(u)		(r)
Semipalmated Plover	(<i>Charadrius semipalmatus</i>)	SB	(u)		(r)
Killdeer*	(<i>Charadrius vociferus</i>)	RS	c	c	c
Greater Yellowlegs	(<i>Tringa melanoleuca</i>)	RS	(u)	(u)	(u)
Lesser Yellowlegs	(<i>Tringa flavipes</i>)	RS	(u)	(u)	(u)
Whimbrel	(<i>Numenius phaeopus</i>)	SB		(r)	
Upland Sandpiper	(<i>Bartramia longicauda</i>)	GM		(r)	
Least Sandpiper	(<i>Calidris minutilla</i>)	SB	(u)		(r)
Pectoral Sandpiper	(<i>Calidris acuminata</i>)	RS	(u)		(r)
Dunlin	(<i>Calidris alpina</i>)	SB	(u)	(u)	(u)
Red Knot	(<i>Calidris canutus</i>)	RS/SB	(r)		
Sanderling	(<i>Calidris alba</i>)	SB	(u)	(u)	(u)
Ruddy Turnstone	(<i>Arenaria interpres</i>)	RS	(u)		
Gulls and Terns					

Species	Scientific Name	Habitat	Spring	Summer	Fall
Bonaparte's Gull	<i>(Larus philadelphia)</i>	SB/RS	(c)		(u)
Ring-billed Gull*	<i>(Larus delawarensis)</i>	SB/RS	c	c	c
Herring Gull*	<i>(Larus argentatus)</i>	RS/SB	a	a	c
Great Black-backed Gull*	<i>(Larus marinus)</i>	RS	o	o	
Common Tern	<i>(Sterna hirundo)</i>	OW/RS	(u)	u	(u)
Caspian Tern*	<i>(Sterna caspia)</i>	OW/RS	c	c	(u)
Kingfishers					
Belted Kingfisher	<i>(Ceryle alcyon)</i>	RS/FE	c	c	c
Jays, Magpies, and Crows					
American Crow	<i>(Corvus brachyrhynchos)</i>	MF	a	a	a
Common Raven	<i>(Corvus corax)</i>	MF	c	c	c
Larks					
Horned Lark	<i>(Eremophila alpestris)</i>	GM	u		
Swallows					
Cliff Swallow	<i>(Petrochelidon pyrrhonota)</i>	SB/RS	c	c	c
Wagtails and Pipits					
Water Pipit	<i>(Anthus spinoletta)</i>	RS			(r)
Sparrows					
Savannah Sparrow	<i>(Passerculus sandwichensis)</i>	GM	c	c	u
Blackbirds					
Red-winged Blackbird*	<i>(Agelaius phoeniceus)</i>	GM/W	c	c	c
Common Grackle	<i>(Quiscalus quiscula)</i>	FE	c	c	c

* Denotes species nesting on the refuge

Abundance Code	Decode
a	abundant
c	common
o	occasional
r	rare
u	uncommon
()	during migration
Habitat Code	Decode
MF	Mixed Coniferous/Hardwood Forest
FE	Forest Edge
W	Wetlands/Ephemeral Ponds
GM	Grassy Meadow
SB	Sandy Beach/Dunes
RS	Rocky Shoreline
OW	Open Water/Off-shore Islands

Season	Dates
Spring	April-mid-June
Summer	mid-June- August
Fall	September-November
Winter	December-March

Gravel Island and Green Bay NWRs

Wildlife Species of Management Concern to Gravel Island and Green Bay NWRs

Species	Scientific Name	Refuge Status	Regional/State Status
			R3-Conservation Priority in Region 3 E-Federal Endangered T-Federal Threatened SE-State Endangered ST-State Threatened SSC-State Special Concern
Mammals			
White-tailed deer	<i>Odocoileus virginianus</i>	Recreation/Economic/Abundant	
Birds			
Common Loon	<i>Gavia immer</i>	Uncommon	R3
American White Pelican	<i>Pelecanus erythrorhynchos</i>	Uncommon	SSC
Double-crested Cormorant	<i>Phalacrocorax auratus</i>	Abundant	R3 (nuisance)
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	Uncommon	R3, SSC
Great Egret	<i>Ardea alba</i>	Uncommon	ST
Canada Goose	<i>Branta canadensis</i>	Recreational/Economic/Common	R3
Wood Duck	<i>Aix sponsa</i>	Recreational/Economic/Uncommon	R3
Mallard	<i>Anas platyrhynchos</i>	Recreational/Economic/Common	R3
American Black Duck	<i>Anas rubripes</i>	Recreational/Economic/Uncommon	R3, SSC
Blue-winged Teal	<i>Anas discors</i>	Recreational/Economic/Uncommon	R3
Northern Pintail	<i>Anas acuta</i>	Recreational/Economic/Uncommon	R3, SSC
Redhead	<i>Aythya americana</i>	Recreational/Economic/Uncommon	SSC
Lesser Scaup	<i>Aythya affinis</i>	Recreational/Economic/Uncommon	R3
Common Goldeneye	<i>Bucephala clangula</i>	Recreational/Economic/Common	SSC
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Common	R3, SSC
Red-shouldered Hawk	<i>Buteo lineatus</i>	Rare	R3, ST
Peregrine Falcon	<i>Falco peregrinus</i>	Rare	R3, SE
Piping Plover	<i>Charadrius melodus</i>	Rare	E, R3, SE
Greater Yellowlegs	<i>Tringa melanoleuca</i>	Uncommon	R3
Whimbrel	<i>Numenius phaeopus</i>	Rare	R3, SSC
Upland Sandpiper	<i>Bartramia longicauda</i>	Rare	R3, SSC
American Woodcock	<i>Scolopax minor</i>	Recreational/Economic/Common	R3
Short-billed Dowitcher	<i>Limnodromus griseus</i>	Uncommon	R3
Bonaparte's Gull	<i>Larus philadelphia</i>	Common	SSC
Great Black-backed Gull	<i>Larus marinus</i>	Rare	SSC
Common Tern	<i>Sterna hirundo</i>	Rare	R3, SE
Caspian Tern	<i>Sterna caspia</i>	Common	SE
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Uncommon	R3
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	Uncommon	SSC
Northern Flicker	<i>Colaptes auratus</i>	Common	R3
Sedge Wren	<i>Cistothorus platensis</i>	Uncommon	R3
Swainson's Thrush	<i>Catharus ustulatus</i>	Uncommon	SSC
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	Uncommon	R3
Cape May Warbler	<i>Dendroica tigrina</i>	Uncommon	SSC
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	Uncommon	R3, SSC
Reptiles			
Northern ringneck snake	<i>Diadophis puntatus edwarsi</i>	Uncommon	SSC
Plants			
Dwarf lake iris	<i>Iris lacustris</i>	Uncommon	T, R3, ST
Dune goldenrod	<i>Solidago simplex var. gillmanii</i>	Uncommon	ST
Climbing fumitory	<i>Adlumia fungosa</i>	Uncommon	SSC
One-flowered cancer root	<i>Orobanche uniflora</i>	Uncommon	SSC
White camas	<i>Zigadenus elegans var. glaucus</i>	Uncommon	SSC

Canada yew	<i>Taxus canadensis</i>	Uncommon	SSC
Tufted hairgrass	<i>Deschampsia cespitosa</i>	Uncommon	SSC
Variegated horsetail	<i>Equisetum variegatum</i>	Uncommon	SSC
American sea rocket	<i>Cakile lacustris</i>	Uncommon	SSC

Vegetation by Island

Gravel Island NWR

Gravel Island Vegetation

Scientific Name	Genus	Species	Common Name	Family
<i>Malva neglecta</i>	Malva	neglecta	common mallow	Malvaceae
<i>Polygonum lapathifolium</i>	Polygonum	lapathifolium	nodding smartweed, curly-top knotweed, pale smartweed	Polygonaceae
<i>Potentilla norvegica</i>	Potentilla	norvegica	rough cinquefoil	Rosaceae
<i>Solanum dulcamara</i>	Solanum	dulcamara	bittersweet nightshade	Solanaceae
<i>Argentina anserina</i>	Argentina	anserina	silverweed	Rosaceae
<i>Erysimum cheiranthoides</i>	Erysimum	cheiranthoides	wormseed-mustard	Brassicaceae
<i>Sedum acre</i>	Sedum	acre	golden carpet, gold moss stonecrop	Crassulaceae
<i>Amaranthus sp.</i>	Amaranthus	sp.	amaranth	Amaranthaceae
<i>Cirsium vulgare</i>	Cirsium	vulgare	bull thistle	Asteraceae
<i>Populus deltoides</i>	Populus	deltoides	eastern cottonwood	Salicaceae
<i>Solidago canadensis</i>	Solidago	canadensis	Canada goldenrod	Asteraceae
<i>Achillea millefolium</i>	Achillea	millefolium	yarrow	Asteraceae
<i>Euthamia graminifolia</i>	Euthamia	graminifolia	flat-topped goldenrod	Asteraceae
<i>Cakile lacustris</i>	Cakile	lacustris	sea-rocket	Brassicaceae
<i>Eupatorium perfoliatum</i>	Eupatorium	perfoliatum	boneset	Asteraceae
<i>Lycopus americanus</i>	Lycopus	americanus	common water-horehound	Lamiaceae
<i>Portulaca oleracea</i>	Portulaca	oleracea	purslane	Portulacaceae
<i>Polygonum persicaria</i>	Polygonum	persicaria	lady's thumb	Polygonaceae
<i>Salix exigua</i>	Salix	exigua	sandbar willow	Salicaceae
<i>Senecio vulgaris</i>	Senecio	vulgaris	common groundsel	Asteraceae

Spider Island Vegetation

Scientific Name	Genus	Species	Common Name	Family
<i>Malva neglecta</i>	Malva	neglecta	common mallow	Malvaceae
<i>Nepeta cataria</i>	Nepeta	cataria	catnip	Lamiaceae
<i>Polygonum lapathifolium</i>	Polygonum	lapathifolium	nodding smartweed, curly-top knotweed, pale smartweed	Polygonaceae
<i>Potentilla norvegica</i>	Potentilla	norvegica	rough cinquefoil	Rosaceae
<i>Solanum dulcamara</i>	Solanum	dulcamara	bittersweet nightshade	Solanaceae
<i>Urtica dioica</i>	Urtica	dioica	stinging nettle	Urticaceae
<i>Argentina anserina</i>	Argentina	anserina	silverweed	Rosaceae
<i>Erysimum cheiranthoides</i>	Erysimum	cheiranthoides	wormseed-mustard	Brassicaceae
<i>Sedum acre</i>	Sedum	acre	golden carpet, gold moss stonecrop	Crassulaceae
<i>Veronica anallis-aquatica</i>	Veronica	anallis-aquatica	water speedwell	Scrophulariaceae
<i>Silene vulgaris</i>	Silene	vulgaris	bladder campion	Caryophyllaceae
<i>Amaranthus sp.</i>	Amaranthus	sp.	amaranth	Amaranthaceae
<i>Aster sp.</i>	Aster	sp.	aster	Asteraceae
<i>Conyza canadensis</i>	Conyza	canadensis	horseweed	Asteraceae
<i>Polygonum sp.</i>	Polygonum	sp.	polygonum	Polygonaceae
<i>Sisymbrium altissimum</i>	Sisymbrium	altissimum	tumble mustard	Brassicaceae

Green Bay NWR

Hog Island Vegetation

Scientific Name	Genus	Species	Common Name	Family
<i>Betula papyrifera</i>	Betula	papyrifera	white birch, paper birch	Betulaceae
<i>Cirsium vulgare</i>	Cirsium	vulgare	bull thistle	Asteraceae
<i>Cornus stolonifera</i>	Cornus	stolonifera	red-osier dogwood	Cornaceae
<i>Malva neglecta</i>	Malva	neglecta	common mallow	Malvaceae
<i>Nepeta cataria</i>	Nepeta	cataria	catnip	Lamiaceae
<i>Polygonum lapathifolium</i>	Polygonum	lapathifolium	nodding smartweed, curly-top knotweed, pale smartweed	Polygonaceae
<i>Potentilla norvegica</i>	Potentilla	norvegica	rough cinquefoil	Rosaceae
<i>Prunus virginiana</i>	Prunus	virginiana	chokecherry	Rosaceae
<i>Sambucus racemosa</i>	Sambucus	racemosa	red-berryed elder	Caprifoliaceae
<i>Solanum dulcamara</i>	Solanum	dulcamara	bittersweet nightshade	Solanaceae
<i>Urtica dioica</i>	Urtica	dioica	stinging nettle	Urticaceae
<i>Epilobium ciliatum</i>	Epilobium	ciliatum	willow-herb	Onagraceae
<i>Impatiens capensis</i>	Impatiens	capensis	touch-me-not, jewelweed	Balsaminaceae
<i>Populus deltoides</i>	Populus	deltoides	eastern cottonwood	Salicaceae
<i>Rubus sp.</i>	Rubus	sp.	red raspberry	Rosaceae
<i>Argentina anserina</i>	Argentina	anserina	silverweed	Rosaceae
<i>Aster pilosus</i>	Aster	pilosus	Pringle's frost aster	Asteraceae
<i>Geranium robertianum</i>	Geranium	robertianum	herb-robert	Geraniaceae
<i>Melilotus alba</i>	Melilotus	alba	white sweet-clover	Leguminosae
<i>Populus tremuloides</i>	Populus	tremuloides	quaking aspen	Salicaceae
<i>Silene latifolia</i>	Silene	latifolia	white campion, evening lychnis	Caryophyllaceae
<i>Solidago canadensis</i>	Solidago	canadensis	Canada goldenrod	Asteraceae
<i>Abies balsamea</i>	Abies	balsamea	balsam fir	Pinaceae
<i>Achillea millefolium</i>	Achillea	millefolium	yarrow	Asteraceae
<i>Artemisia sp.</i>	Artemisia	sp.	wormwood	Asteraceae
<i>Aster puniceus</i>	Aster	puniceus	purple-stemmed aster	Asteraceae
<i>Berteroa incana</i>	Berteroa	incana	hoary-alyssum	Brassicaceae
<i>Campanula rotundifolia</i>	Campanula	rotundifolia	harebell	Campanulaceae
<i>Celastrus scandens</i>	Celastrus	scandens	American bittersweet	Celastraceae
<i>Cirsium arvense</i>	Cirsium	arvense	Canada thistle	Asteraceae
<i>Elymus canadensis</i>	Elymus	canadensis	Canada wildrye	Poaceae
<i>Erysimum cheiranthoides</i>	Erysimum	cheiranthoides	wormseed-mustard	Brassicaceae
<i>Erigeron sp.</i>	Erigeron	sp.	fleabane	Asteraceae
<i>Euthamia graminifolia</i>	Euthamia	graminifolia	flat-topped goldenrod	Asteraceae
<i>Leonurus cardiaca</i>	Leonurus	cardiaca	motherwort	Lamiaceae
<i>Leucanthemum vulgare</i>	Leucanthemum	vulgare	ox-eye daisy	Asteraceae
<i>Lythrum salicaria</i>	Lythrum	salicaria	purple loosestrife	Lythrumaceae
<i>Matricaria discoidea</i>	Matricaria	discoidea	pineapple-weed	Asteraceae
<i>Polygonum cilinode</i>	Polygonum	cilinode	fringed bindweed	Polygonaceae
<i>Ribes americanum</i>	Ribes	americanum	American black currant	Grossulariaceae
<i>Salix bebbiana</i>	Salix	bebbiana	beaked willow	Salicaceae
<i>Salix lucida</i>	Salix	lucida	shining willow	Salicaceae
<i>Sedum acre</i>	Sedum	acre	golden carpet, gold moss stonecrop	Crassulaceae
<i>Taxus canadensis</i>	Taxus	canadensis	Canada yew	Taxaceae
<i>Veronica anallis-aquatica</i>	Veronica	anallis-aquatica	water speedwell	Scrophulariaceae

Pilot Island Vegetation

Scientific Name	Genus	Species	Common Name	Family
<i>Betula papyrifera</i>	Betula	papyrifera	white birch, paper birch	Betulaceae
<i>Cirsium vulgare</i>	Cirsium	vulgare	bull thistle	Asteraceae
<i>Cornus stolonifera</i>	Cornus	stolonifera	red-osier dogwood	Cornaceae
<i>Hemerocallis fulva</i>	Hemerocallis	fulva	day-lily	Liliaceae
<i>Heracleum maximum</i>	Heracleum	maximum	cow parsnip	Apiaceae
<i>Malva neglecta</i>	Malva	neglecta	common mallow	Malvaceae
<i>Nepeta cataria</i>	Nepeta	cataria	catnip	Lamiaceae
<i>Physocarpus opulifolius</i>	Physocarpus	opulifolius	Ninebark	Rosaceae
<i>Polygonum lapathifolium</i>	Polygonum	lapathifolium	nodding smartweed, curly-top knotweed, pale smartweed	Polygonaceae
<i>Potentilla norvegica</i>	Potentilla	norvegica	rough cinquefoil	Rosaceae
<i>Prunus virginiana</i>	Prunus	virginiana	chokecherry	Rosaceae
<i>Saponaria officinalis</i>	Saponaria	officinalis	soapwort, bouncing-bet	Caryophyllaceae
<i>Sambucus racemosa</i>	Sambucus	racemosa	red-berried elder	Caprifoliaceae
<i>Solanum dulcamara</i>	Solanum	dulcamara	bittersweet nightshade	Solanaceae
<i>Syringa vulgaris</i>	Syringa	vulgaris	lilac	Oleaceae
<i>Urtica dioica</i>	Urtica	dioica	stinging nettle	Urticaceae
<i>Verbascum thapsus</i>	Verbascum	thapsus	common mullein	Scrophulariaceae
<i>Convolvulus sp. (vine)</i>	Convolvulus	sp. (vine)	bindweed	Convolvulaceae
<i>Cynoglossum officinale</i>	Cynoglossum	officinale	hound's tongue	Boraginaceae
<i>Epilobium ciliatum</i>	Epilobium	ciliatum	willow-herb	Onagraceae
<i>Fraxinus pennsylvanica</i>	Fraxinus	pennsylvanica	green ash	Oleaceae
<i>Geum sp.</i>	Geum	sp.	Geum	Rosaceae
<i>Impatiens capensis</i>	Impatiens	capensis	touch-me-not, jewelweed	Balsaminaceae
<i>Lysimachia ciliata</i>	Lysimachia	ciliata	fringed loosestrife	Primulaceae
<i>Oenothera biennis</i>	Oenothera	biennis	common evening-primrose	Onagraceae
<i>Populus deltoides</i>	Populus	deltoides	eastern cottonwood	Salicaceae
<i>Rubus sp.</i>	Rubus	sp.	red raspberry	Rosaceae
<i>Silene vulgaris</i>	Silene	vulgaris	bladder campion	Caryophyllaceae
<i>Smilacina stellata</i>	Smilacina	stellata	starry false Solomon's-seal	Liliaceae
<i>Thuja occidentalis</i>	Thuja	occidentalis	northern white cedar	Cupressaceae

Plum Island Vegetation

Scientific Name	Genus	Species	Common Name	Family
<i>Abies balsamea</i>	Abies	balsamea	balsam fir	Pinaceae
<i>Acer negundo</i>	Acer	negundo	box-elder	Aceraceae
<i>Acer saccharum</i>	Acer	saccharum	sugar maple	Aceraceae
<i>Acer spicatum</i>	Acer	spicatum	mountain maple	Aceraceae
<i>Achillea millefolium</i>	Achillea	millefolium	yarrow	Asteraceae
<i>Acinos arvensis</i>	Acinos	arvensis	basil-thyme	Lamiaceae
<i>Actaea rubra</i>	Actaea	rubra	red baneberry	Ranunculaceae
<i>Actea pachypoda</i>	Actea	pachypoda	white baneberry	Ranunculaceae
<i>Adlumia fungosa</i>	Adlumia	fungosa	Allegheny vine	Fumariaceae
<i>Agalinis purpurea</i>	Agalinis	purpurea	purple false foxglove	Scrophulariaceae
<i>Agrimonia gryposepala</i>	Agrimonia	gryposepala	common agrimony	Rosaceae
<i>Agrostis hyemalis</i>	Agrostis	hyemalis	tickle grass	Poaceae
<i>Agrostis stolonifera</i>	Agrostis	stolonifera	creeping bent grass	Poaceae
<i>Allium tricoccum</i>	Allium	tricoccum	wild leek	Liliaceae
<i>Alnus incana</i>	Alnus	incana	speckled alder	Betulaceae
<i>Amaranthus powellii</i>	Amaranthus	powellii	tall amaranth	Amaranthaceae
<i>Amelanchier sanguinea</i>	Amelanchier	sanguinea	round-leaved juneberry	Rosaceae
<i>Anaphalis margaritacea</i>	Anaphalis	margaritacea	pearly everlasting	Compositae
<i>Anemone acutiloba</i>	Anemone	acutiloba	sharp-lobed hepatica	Ranunculaceae
<i>Anemone americana</i>	Anemone	americana	round-lobed hepatica	Ranunculaceae
<i>Anemone canadensis</i>	Anemone	canadensis	Canada anemone	Ranunculaceae
<i>Anemone virginiana</i>	Anemone	virginiana	tall thimbleweed	Ranunculaceae
<i>Antennaria howellii</i>	Antennaria	howellii	Howell's pussy-toes	Compositae
<i>Apocynum androsaemifolium</i>	Apocynum	androsaemifolium	spreading dogbane	Apocynaceae
<i>Aquilegia canadensis</i>	Aquilegia	canadensis	columbine	Ranunculaceae
<i>Arabis divaricarpa</i>	Arabis	divaricarpa	spreading-pod rock-cress	Cruciferae
<i>Arabis hirsuta</i>	Arabis	hirsuta	hairy rock-cress	Cruciferae
<i>Arabis lyrata</i>	Arabis	lyrata	lyre-leaved rock-cress	Cruciferae
<i>Aralia nudicaulis</i>	Aralia	nudicaulis	wild sarsaparilla	Araliaceae
<i>Aralia racemosa</i>	Aralia	racemosa	spikenard	Araliaceae
<i>Arctium minus</i>	Arctium	minus	common burdock	Asteraceae
<i>Arctostaphylos uva-ursi</i>	Arctostaphylos	uva-ursi	bearberry	Ericaceae
<i>Arenaria serpyllifolia</i>	Arenaria	serpyllifolia	thyme-leaved sandwort	Caryophyllaceae
<i>Argentina anserina</i>	Argentina	anserina	silverweed	Rosaceae
<i>Arisaema triphyllum</i>	Arisaema	triphyllum	jack-in-the-pulpit	Araceae
<i>Artemisia biennis</i>	Artemisia	biennis	biennial wormwood	Compositae
<i>Asclepias syriaca</i>	Asclepias	syriaca	common milkweed	Asclepiadaceae
<i>Asparagus officinalis</i>	Asparagus	officinalis	asparagus	Liliaceae
<i>Aster ciliolatus</i>	Aster	ciliolatus	Lindley's aster	Compositae
<i>Aster macrophyllus</i>	Aster	macrophyllus	big-leaved aster	Compositae
<i>Aster pilosus</i>	Aster	pilosus	Pringle's frost aster	Asteraceae
<i>Athyrium filix-femina</i>	Athyrium	filix-femina	lady fern	Dryopteraceae
<i>Barbarea vulgaris</i>	Barbarea	vulgaris	garden yellow-rocket	Cruciferae
<i>Berberis thunbergii</i>	Berberis	thunbergii	Japanese barberry	Berberidaceae
<i>Berteroa incana</i>	Berteroa	incana	hoary-alyssum	Brassicaceae
<i>Betula papyrifera</i>	Betula	papyrifera	white birch, paper birch	Betulaceae
<i>Bidens cernua</i>	Bidens	cernua	nodding beggar-ticks	Compositae
<i>Botrychium virginianum</i>	Botrychium	virginianum	rattlesnake fern	Ophioglossaceae
<i>Cakile lacustris</i>	Cakile	lacustris	sea rocket	Brassicaceae
<i>Calamagrostis canadensis</i>	Calamagrostis	canadensis	bluejoint grass	Poaceae
<i>Caltha palustris</i>	Caltha	palustris	marsh marigold	Ranunculaceae
<i>Calystegia sepium</i>	Calystegia	sepium	hedge bindweed	Convolvulaceae
<i>Campanula aparinoides</i>	Campanula	aparinoides	marsh bellflower	Campanulaceae
<i>Campanula rotundifolia</i>	Campanula	rotundifolia	harebell	Campanulaceae
<i>Capsella bursa-pastoris</i>	Capsella	bursa-pastoris	shepherd's-purse	Cruciferae
<i>Cardamine concatenata</i>	Cardamine	concatenata	broad-leaved toothwort	Cruciferae
<i>Cardamine diphylla</i>	Cardamine	diphylla	board-leaved toothwort	
<i>Carex aquatilis</i>	Carex	aquatilis	water sedge	Cyperaceae
<i>Carex arctata</i>	Carex	arctata	drooping woodland sedge	Cyperaceae
<i>Carex deweyana</i>	Carex	deweyana	Dewey's sedge	Cyperaceae

Scientific Name	Genus	Species	Common Name	Family
<i>Carex eburnea</i>	Carex	eburnea	bristle-leaf sedge	Cyperaceae
<i>Carex flava</i>	Carex	flava	yellow sedge	Cyperaceae
<i>Carex hystericina</i>	Carex	hystericina	bottlebrush sedge	Cyperaceae
<i>Carex laxiflora</i>	Carex	laxiflora	broad loose-flowered sedge	Cyperaceae
<i>Carex peckii</i>	Carex	peckii	Peck's sedge	Cyperaceae
<i>Carex pedunculata</i>	Carex	pedunculata	long-stalked sedge	Cyperaceae
<i>Carex pensylvanica</i>	Carex	pensylvanica	Penn sedge	Cyperaceae
<i>Carex radiata</i>	Carex	radiata	eastern star sedge	Cyperaceae
<i>Carex rosea</i>	Carex	rosea	rosy sedge	Cyperaceae
<i>Carex sartwellii</i>	Carex	sartwellii	Sartwell's sedge	Cyperaceae
<i>Carex viridula</i>	Carex	viridula	little green sedge	Cyperaceae
<i>Castilleja coccinea</i>	Castilleja	coccinea	indian paintbrush	Scrophulariaceae
<i>Caulophyllum thalictroides</i>	Caulophyllum	thalictroides	blue cohosh	Berberidaceae
<i>Celastrus scandens</i>	Celastrus	scandens	American bitter-sweet	Celastraceae
<i>Centaurea biebersteinii</i>	Centaurea	biebersteinii	spotted knapweed	Compositae
<i>Cerastium fontanum</i>	Cerastium	fontanum	mouse-ear chickweed	Caryophyllaceae
<i>Cerastium nutans</i>	Cerastium	nutans	nodding chickweed	Caryophyllaceae
<i>Chenopodium capitatum</i>	Chenopodium	capitatum	strawberry-blite	Chenopodiaceae
<i>Cichorium intybus</i>	Cichorium	intybus	chickory	Compositae
<i>Cicuta bulbifera</i>	Cicuta	bulbifera	bulblet water-hemlock	Umbelliferae
<i>Circa alpina</i>	Circaea	alpina	dwarf enchanters nightshade	Onagraceae
<i>Circaea lutetiana</i>	Circaea	lutetiana	common enchanter's-nightshade	Onagraceae
<i>Cirsium arvense</i>	Cirsium	arvense	Canada thistle	Asteraceae
<i>Cirsium palustre</i>	Cirsium	palustre	European swamp thistle	Compositae
<i>Cirsium vulgare</i>	Cirsium	vulgare	bull thistle	Asteraceae
<i>Claytonia caroliniana</i>	Claytonia	caroliniana	Carolina spring-beauty	Portulacaceae
<i>Clinopodium vulgare</i>	Clinopodium	vulgare	wild-basil	Lamiaceae
<i>Clintonia borealis</i>	Clintonia	borealis	bluebead	Liliaceae
<i>Comandra umbellata</i>	Comandra	umbellata	bastard-toadflax	Santalaceae
<i>Comarum palustre</i>	Comarum	palustre	marsh cinquefoil	Rosaceae
<i>Convallaria majalis</i>	Convallaria	majalis	European lily-of-the-valley	Liliaceae
<i>Convolvulus sp.</i>	Convolvulus		bindweed	Convolvulaceae
<i>Conyza canadensis</i>	Conyza	canadensis	horseweed	Asteraceae
<i>Cornus rugosa</i>	Cornus	rugosa	round-leaved dogwood	Cornaceae
<i>Cornus stolonifera</i>	Cornus	stolonifera	red-osier dogwood	Cornaceae
<i>Corydalis aurea</i>	Corydalis	aurea	golden corydalis	Fumariaceae
<i>Crepis tectorum</i>	Crepis	tectorum	hawk's-beard	Compositae
<i>Cynoglossum officinale</i>	Cynoglossum	officinale	hound's tongue	Boraginaceae
<i>Cypripedium pubescens</i>	Cypripedium	pubescens	large yellow lady's-slipper	Orchidaceae
<i>Cystopteris tenius</i>	Cystopteris	tenius	Mackay's brittle fern	Polypodiaceae
<i>Dactylis glomerata</i>	Dactylis	glomerata	orchard grass	Poaceae
<i>Daucus carota</i>	Daucus	carota	Queen Anne's-lace	Umbelliferae
<i>Deschampsia cespitosa</i>	Deschampsia	cespitosa	tufted hairgrass	Poaceae
<i>Diervilla lonicera</i>	Diervilla	lonicera	bush-honeysuckle	Caprifoliaceae
<i>Dryopteris intermedia</i>	Dryopteris	intermedia	intermediate wood fern	Polypodiaceae
<i>Dryopteris marginalis</i>	Dryopteris	marginalis	marginal wood fern	Polypodiaceae
<i>Eleocharis elliptica</i>	Eleocharis	elliptica	elliptic spikerush	Cyperaceae
<i>Eleocharis palustris</i>	Eleocharis	palustris	common spikerush	Cyperaceae
<i>Elymus canadensis</i>	Elymus	canadensis	Canada wildrye	Poaceae
<i>Elymus trachycaulus</i>	Elymus	trachycaulus	slender wheatgrass	Poaceae
<i>Elytrigia repens</i>	Elytrigia	repens	quackgrass	Poaceae
<i>Epilobium ciliatum</i>	Epilobium	ciliatum	willow-herb	Onagraceae
<i>Epipactis helleborine</i>	Epipactis	helleborine	helleborine orchid	Orchidaceae
<i>Equisetum arvense</i>	Equisetum	arvense	field horsetail	Equisetaceae
<i>Equisetum variegatum</i>	Equisetum	variegatum	variegated scouring rush	Equisetaceae
<i>Erigeron philadelphicus</i>	Erigeron	philadelphicus	common fleabane	Compositae
<i>Erigeron strigosus</i>	Erigeron	strigosus	daisy fleabane	Compositae
<i>Erucastrum gallicum</i>	Erucastrum	gallicum	dog mustard	Cruciferae
<i>Erysimum cheiranthoides</i>	Erysimum	cheiranthoides	wormseed-mustard	Brassicaceae
<i>Erythronium americanum</i>	Erythronium	americanum	yellow trout-lily	Liliaceae
<i>Eupatorium perfoliatum</i>	Eupatorium	perfoliatum	boneset	Asteraceae

Scientific Name	Genus	Species	Common Name	Family
<i>Euthamia graminifolia</i>	Euthamia	graminifolia	flat-topped goldenrod	Asteraceae
<i>Festuca occidentalis</i>	Festuca	occidentalis	Western fescue	Poaceae
<i>Festuca pratensis</i>	Festuca	pratensis	rye grass	Poaceae
<i>Festuca subverticillata</i>	Festuca	subverticillata	nodding fescue	Poaceae
<i>Festuca trachyphylla</i>	Festuca	trachyphylla	sheep fescue	Poaceae
<i>Fragaria vesca</i>	Fragaria	vesca	woodland strawberry	Rosaceae
<i>Fragaria virginiana</i>	Fragaria	virginiana	wild strawberry	Rosaceae
<i>Fraxinus pennsylvanica</i>	Fraxinus	pennsylvanica	green ash	Oleaceae
<i>Galium aparine</i>	Galium	aparine	cleavers	Rubiaceae
<i>Galium triflorum</i>	Galium	triflorum	sweet-scented bedstraw	Rubiaceae
<i>Gentianopsis crinita</i>	Gentianopsis	crinita	fringed gentian	Gentianaceae
<i>Geranium robertianum</i>	Geranium	robertianum	herb-robert	Geraniaceae
<i>Geum aleppicum</i>	Geum	aleppicum	yellow avens	Rosaceae
<i>Geum canadense</i>	Geum	canadense	white avens	Rosaceae
<i>Gymnocarpium dryopteris</i>	Gymnocarpium	dryopteris	common oak fern	Polypodiaceae
<i>Halenia deflexa</i>	Halenia	deflexa	spurred-gentian	Gentianaceae
<i>Hemerocallis fulva</i>	Hemerocallis	fulva	day-lily	Liliaceae
<i>Heracleum maximum</i>	Heracleum	maximum	cow parsnip	Apiaceae
<i>Hesperis matronalis</i>	Hesperis	matronalis	dame's rocket	Cruciferae
<i>Hieracium aurantiacum</i>	Hieracium	aurantiacum	orange hawkweed	Compositae
<i>Hieracium kalmii</i>	Hieracium	kalmii	Canada hawkweed	Compositae
<i>Hieracium piloselloides</i>	Hieracium	piloselloides	kin-devil	Compositae
<i>Hypericum kalmianum</i>	Hypericum	kalmianum	Kalm's St. Johnswort	Hypericaceae
<i>Hypericum majus</i>	Hypericum	majus	small St. Johnswort	Hypericaceae
<i>Hypericum perforatum</i>	Hypericum	perforatum	common St. Johnswort	Hypericaceae
<i>Impatiens capensis</i>	Impatiens	capensis	touch-me-not, jewelweed	Balsaminaceae
<i>Iris lacustris</i>	Iris	lacustris	dwarf lake iris	Iridaceae
<i>Iris versicolor</i>	Iris	versicolor	northern blue flag	Iridaceae
<i>Juncus articus</i>	Juncus	articus	Baltic rush	Juncaceae
<i>Juniperus communis</i>	Juniperus	communis	common juniper	Cupressaceae
<i>Lactuca canadensis</i>	Lactuca	canadensis	Canada lettuce	Compositae
<i>Larix laricina</i>	Larix	laricina	tamarack	Pinaceae
<i>Lathyrus japonicus</i>	Lathyrus	japonicus	beach pea	Leguminosae
<i>Lathyrus palustris</i>	Lathyrus	palustris	marsh pea	Leguminosae
<i>Leonurus cardiaca</i>	Leonurus	cardiaca	motherwort	Lamiaceae
<i>Leucanthemum vulgare</i>	Leucanthemum	vulgare	ox-eye daisy	Asteraceae
<i>Lilium philadelphicum</i>	Lilium	philadelphicum	wood lily	Liliaceae
<i>Linaria vulgaris</i>	Linaria	vulgaris	butter-and-eggs	Scrophulariaceae
<i>Linnaea borealis</i>	Linnaea	borealis	twinflower	Caprifoliaceae
<i>Lobelia kalmii</i>	Lobelia	kalmii	brook lobelia	Lobeliaceae
<i>Lonicera canadensis</i>	Lonicera	canadensis	Canada honeysuckle	Caprifoliaceae
<i>Lonicera dioica</i>	Lonicera	dioica	red honeysuckle	Caprifoliaceae
<i>Lonicera hirsuta</i>	Lonicera	hirsuta	hairy honeysuckle	Caprifoliaceae
<i>Lonicera xbella</i>	Lonicera	xbella	Bell's honeysuckle	Caprifoliaceae
<i>Lycopus americanus</i>	Lycopus	americanus	common water-horehound	Lamiaceae
<i>Lysimachia quadriflora</i>	Lysimachia	quadriflora	narrow-leaved loosestrife	Primulaceae
<i>Lysimachia thyrsoiflora</i>	Lysimachia	thyrsoiflora	tufted loosestrife	Primulaceae
<i>Maianthemum canadense</i>	Maianthemum	canadense	Canada mayflower	Liliaceae
<i>Malus pumila</i>	Malus	pumila	apple	Rosaceae
<i>Medicago lupulina</i>	Medicago	lupulina	black medick	Leguminosae
<i>Melampyrum lineare</i>	Melampyrum	lineare	cow-wheat	Scrophulariaceae
<i>Melilotus alba</i>	Melilotus	alba	white sweet-clover	Leguminosae
<i>Milium effusum</i>	Milium	effusum	wood millet	Poaceae
<i>Myosotis scirpioides</i>	Myosotis	scirpioides	common forget-me-not	Boraginaceae
<i>Nepeta cataria</i>	Nepeta	cataria	catnip	Lamiaceae
<i>Nuphar variegatum</i>	Nuphar	variegatum	bullhead pondlily	Nymphaeaceae
<i>Oenothera oakesiana</i>	Oenothera	oakesiana	Oakes' evening-primrose	Onagraceae
<i>Orobanche uniflora</i>	Orobanche	uniflora	one-flowered cancer-root	Orobanchaceae
<i>Osmorhiza claytonii</i>	Osmorhiza	claytonii	hairy sweet cicely	Apiaceae
<i>Osmorhiza longistylis</i>	Osmorhiza	longistylis	long-styled sweet cicely	Umbelliferae
<i>Ostrya virginiana</i>	Ostrya	virginiana	hop-hornbeam	Betulaceae
<i>Panicum acuminatum</i>	Panicum	acuminatum	Western panic grass	Poaceae
<i>Panicum capillare</i>	Panicum	capillare	witch grass	Poaceae

Scientific Name	Genus	Species	Common Name	Family
<i>Phalaris arundinacea</i>	Phalaris	arundinacea	reed canarygrass	Poaceae
<i>Phleum pratense</i>	Phleum	pratense	Timothy	Poaceae
<i>Physocarpus opulifolius</i>	Physocarpus	opulifolius	Ninebark	Rosaceae
<i>Picea glauca</i>	Picea	glauca	white spruce	Pinaceae
<i>Pinus strobus</i>	Pinus	strobus	white pine	Pinaceae
<i>Poa pratensis</i>	Poa	pratensis	Kentucky bluegrass	Poaceae
<i>Poa annua</i>	Poa	annua	annual bluegrass	Poaceae
<i>Poa compressa</i>	Poa	compressa	Canada bluegrass	Poaceae
<i>Poa palustris</i>	Poa	palustris	fowl meadow grass	Poaceae
<i>Polygala paucifolia</i>	Polygala	paucifolia	fringed polygala	Polygalaceae
<i>Polygonatum pubescens</i>	Polygonatum	pubescens	downy Solomon's-seal	Liliaceae
<i>Polygonum amphibium</i>	Polygonum	amphibium	water smartweed	Polygonaceae
<i>Polygonum cilinode</i>	Polygonum	cilinode	fringed bindweed	Polygonaceae
<i>Polygonum erectum</i>	Polygonum	erectum	erect knotweed	Polygonaceae
<i>Polygonum lapathifolium</i>	Polygonum	lapathifolium	nodding smartweed, curly-top knotweed, pale smartweed	Polygonaceae
<i>Populus balsamifera</i>	Populus	balsamifera	balsam poplar	Salicaceae
<i>Populus deltoides</i>	Populus	deltoides	eastern cottonwood	Salicaceae
<i>Populus tremuloides</i>	Populus	tremuloides	quaking aspen	Salicaceae
<i>Portulaca oleracea</i>	Portulaca	oleracea	purslane	Portulacaceae
<i>Potentilla norvegica</i>	Potentilla	norvegica	rough cinquefoil	Rosaceae
<i>Potentilla recta</i>	Potentilla	recta	rough-fruited cinquefoil	Rosaceae
<i>Prunus pensylvanica</i>	Prunus	pensylvanica	fire cherry	Rosaceae
<i>Prunus pumila</i>	Prunus	pumila	sand cherry	Rosaceae
<i>Prunus virginiana</i>	Prunus	virginiana	chokecherry	Rosaceae
<i>Pyrola asarifolia</i>	Pyrola	asarifolia	pink shinleaf	Pyrolaceae
<i>Pyrola chlorantha</i>	Pyrola	chlorantha	greenish shinleaf	Pyrolaceae
<i>Quercus rubra</i>	Quercus	rubra	red oak	Fagaceae
<i>Ranunculus abortivus</i>	Ranunculus	abortivus	small-flowered buttercup	Ranunculaceae
<i>Ranunculus acris</i>	Ranunculus	acris	common buttercup	Ranunculaceae
<i>Ranunculus recurvatus</i>	Ranunculus	recurvatus	hooked buttercup	Ranunculaceae
<i>Rhamnus frangula</i>	Rhamnus	frangula	glossy buckthorn	Rhamnaceae
<i>Rorippa palustris</i>	Rorippa	palustris	yellow-cress	Cruciferae
<i>Rosa blanda</i>	Rosa	blanda	smooth rose	Rosaceae
<i>Rosa eglanteria</i>	Rosa	eglanteria	eglantine	Rosaceae
<i>Rubus idaeus</i>	Rubus	idaeus	red raspberry	Rosaceae
<i>Rudbeckia hirta</i>	Rudbeckia	hirta	black-eyed susan	Compositae
<i>Rumex acetosella</i>	Rumex	acetosella	sheep sorrel	Polygonaceae
<i>Rumex crispus</i>	Rumex	crispus	curly dock	Polygonaceae
<i>Rumex orbiculatus</i>	Rumex	orbiculatus	great water dock	Polygonaceae
<i>Salix amygdaloides</i>	Salix	amygdaloides	peach-leaved willow	Salicaceae
<i>Salix bebbiana</i>	Salix	bebbiana	beaked willow	Salicaceae
<i>Salix discolor</i>	Salix	discolor	pussy willow	Salicaceae
<i>Salix exigua</i>	Salix	exigua	sandbar willow	Salicaceae
<i>Salix lucida</i>	Salix	lucida	shining willow	Salicaceae
<i>Sambucus racemosa</i>	Sambucus	racemosa	red-berried elder	Caprifoliaceae
<i>Saponaria officinalis</i>	Saponaria	officinalis	soapwort, bouncing-bet	Caryophyllaceae
<i>Schoenoplectus pungens</i>	Schoenoplectus	pungens	three-square bulrush	Cyperaceae
<i>Schoenoplectus tabernaemontanus</i>	Schoenoplectus	tabernaemontanus	great bulrush	Cyperaceae
<i>Scutellaria galericulata</i>	Scutellaria	galericulata	common skullcap	Lamiaceae
<i>Sedum acre</i>	Sedum	acre	golden carpet, gold moss stonecrop	Crassulaceae
<i>Senecio vulgaris</i>	Senecio	vulgaris	common groundsel	Asteraceae
<i>Shepherdia canadensis</i>	Shepherdia	canadensis	russet buffaloberry	Elaeagnaceae
<i>Silene antirrhina</i>	Silene	antirrhina	sleepy catchfly	Caryophyllaceae
<i>Silene latifolia</i>	Silene	latifolia	white campion, evening lychnis	Caryophyllaceae
<i>Silene vulgaris</i>	Silene	vulgaris	bladder campion	Caryophyllaceae
<i>Sisymbrium altissimum</i>	Sisymbrium	altissimum	tumble mustard	Brassicaceae
<i>Sisyrinchium montanum</i>	Sisyrinchium	montanum	mountain blue-eyed-grass	Iridaceae
<i>Smilacina racemosa</i>	Smilacina	racemosa	common false Solomon's-seal	Liliaceae
<i>Smilacina stellata</i>	Smilacina	stellata	starry false Solomon's-seal	Liliaceae
<i>Solanum dulcamara</i>	Solanum	dulcamara	bittersweet nightshade	Solanaceae
<i>Solidago canadensis</i>	Solidago	canadensis	Canada goldenrod	Asteraceae

Scientific Name	Genus	Species	Common Name	Family
<i>Solidago flexicaulis</i>	Solidago	flexicaulis	zigzag goldenrod	Compositae
<i>Solidago hispida</i>	Solidago	hispida	hairy goldenrod	Compositae
<i>Solidago simplex</i>	Solidago	simplex	dune goldenrod	Compositae
<i>Sorbus decora</i>	Sorbus	decora	showy mountain-ash	Rosaceae
<i>Sphenopholis intermedia</i>	Sphenopholis	intermedia	slender wedgrass	Poaceae
<i>Stachys palustris</i>	Stachys	palustris	marsh hedge-nettle	Lamiaceae
<i>Stellaria media</i>	Stellaria	media	common chickweed	Caryophyllaceae
<i>Streptopus roseus</i>	Streptopus	roseus	rosy twisted-stalk	Liliaceae
<i>Symphoricarpos albus</i>	Symphoricarpos	albus	snowberry	Caprifoliaceae
<i>Syringa vulgaris</i>	Syringa	vulgaris	lilac	Oleaceae
<i>Tanacetum vulgare</i>	Tanacetum	vulgare	common tansy	Compositae
<i>Taraxacum officinale</i>	Taraxacum	officinale	dandelion	Asteraceae
<i>Taxus canadensis</i>	Taxus	canadensis	Canada yew	Taxaceae
<i>Thalictrum dioicum</i>	Thalictrum	dioicum	early meadow-rue	Ranunculaceae
<i>Thlaspi arvense</i>	Thlaspi	arvense	pennycress	Cruciferae
<i>Thuja occidentalis</i>	Thuja	occidentalis	northern white cedar	Cupressaceae
<i>Tilia americana</i>	Tilia	americana	basswood	Tiliaceae
<i>Toxicodendron rydbergii</i>	Toxicodendron	rydbergii	poison ivy	Anacardiaceae
<i>Tragopogon dubius</i>	Tragopogon	dubius	common goat's-beard	Compositae
<i>Trientalis borealis</i>	Trientalis	borealis	starflower	Primulaceae
<i>Trifolium hybridum</i>	Trifolium	hybridum	Alsike clover	Leguminosae
<i>Trifolium pratense</i>	Trifolium	pratense	red clover	Leguminosae
<i>Trifolium repens</i>	Trifolium	repens	white clover	Leguminosae
<i>Trillium grandiflorum</i>	Trillium	grandiflorum	great white trillium	Liliaceae
<i>Tsuga canadensis</i>	Tsuga	canadensis	eastern hemlock	Pinaceae
<i>Urtica dioica</i>	Urtica	dioica	stinging nettle	Urticaceae
<i>Valeriana officinalis</i>	Valeriana	officinalis	garden valerian	Valerianaceae
<i>Verbascum thapsus</i>	Verbascum	thapsus	common mullein	Scrophulariaceae
<i>Veronica anallis-aquatica</i>	Veronica	anallis-aquatica	water speedwell	Scrophulariaceae
<i>Veronica arvensis</i>	Veronica	arvensis	corn speedwell	Scrophulariaceae
<i>Veronica officinalis</i>	Veronica	officinalis	common speedwell	Scrophulariaceae
<i>Vicia americana</i>	Vicia	americana	American vetch	Leguminosae
<i>Vicia villosa</i>	Vicia	villosa	hairy vetch	Leguminosae
<i>Viola adunca</i>	Viola	adunca	hook-spur violet	Violaceae
<i>Viola canadensis</i>	Viola	canadensis	Canada violet	Violaceae
<i>Viola labradorica</i>	Viola	labradorica	alpine violet	Violaceae
<i>Viola pubescens</i>	Viola	pubescens	yellow violet	Violaceae
<i>Zigadenus elegans</i>	Zigadenus	elegans	white camass	Liliaceae

Bird Species

Species	Scientific Name	Habitat	Spring	Summer	Fall
Loons					
Common Loon	(<i>Gavia immer</i>)	OW	(u)	o	(u)
Grebes					
Pied-billed Grebe	(<i>Podilymbus podiceps</i>)	OW	(u)	o	(u)
Pelicans					
American White Pelican	(<i>Pelecanus erythrorhynchos</i>)	OW/RS	(u)	o	(u)
Cormorants					
Double-crested Cormorant *	(<i>Phalacrocorax auritus</i>)	OW/RS/MF	a	a	a
Hérons and Bitterns					
Great Blue Heron*	(<i>Ardea herodias</i>)	RS/MF	c	c	c
Black-crowned Night-Heron*	(<i>Nycticorax nycticorax</i>)	RS/MF	u	u	u
Great Egret*	(<i>Ardea alba</i>)	RS/MF	u	u	u
Vultures					
Turkey Vulture	(<i>Cathartes aura</i>)	FE	(c)	c	u
Swans, Geese and Ducks					
Canada Goose*	(<i>Branta canadensis</i>)	OW/RS	a	c	a
Tundra Swan	(<i>Cygnus columbianus</i>)	OW	u		u
Mute Swan*	(<i>Cygnus olor</i>)	OW/RS	c	c	c
Gadwall	(<i>Anas strepera</i>)	OW	(u)		(u)
American Wigeon	(<i>Anas americana</i>)	OW	(u)		(u)
American Black Duck*	(<i>Anas rubripes</i>)	OW/RS	u	u	u
Mallard Duck*	(<i>Anas platyrhynchos</i>)	OW/RS	c	c	c
Blue-winged Teal	(<i>Anas discors</i>)	OW	(u)		(u)
Northern Pintail	(<i>Anas acuta</i>)	OW	u		u
Green-winged Teal	(<i>Anas crecca</i>)	OW	(u)		(u)
Redhead	(<i>Aythya americana</i>)	OW	(u)		(u)
Greater Scaup	(<i>Aythya marila</i>)	OW	(u)		(u)
Lesser Scaup	(<i>Aythya affinis</i>)	OW	(u)		(u)
Bufflehead	(<i>Bucephala albeola</i>)	OW	(u)	(u)	(u)
Common Goldeneye	(<i>Bucephala clangula</i>)	OW	c	c	c
Long-tailed Duck	(<i>Clangula hyemalis</i>)	OW	(c)		(c)
Hooded Merganser	(<i>Lophodytes cucullatus</i>)	OW	(u)		(u)
Common Merganser	(<i>Mergus merganser</i>)	OW	(u)	(u)	o
Red-breasted Merganser*	(<i>Mergus serrator</i>)	OW/RS	c	c	c
Hawks and Eagles					
Bald Eagle*	(<i>Haliaeetus leucocephalus</i>)	OW/RS/MF	u	u	u
Sharp-shinned Hawk	(<i>Accipiter striatus</i>)	FE	u	u	u
Red-shouldered Hawk	(<i>Buteo lineatus</i>)	MF	r	r	r
Red-tailed Hawk	(<i>Buteo jamaicensis</i>)	FE/GF/MF	c	c	c
Broad-winged Hawk	(<i>Buteo platypterus</i>)		(a)	u	(a)
Falcons					
Peregrine Falcon	(<i>Falco peregrinus</i>)		r	r	r
Merlin	(<i>Falco columbarius</i>)	MF	r		
Rails and Coots					
Sora*	(<i>Porzana carolina</i>)	W	u	u	u
American Coot	(<i>Fulica americana</i>)	OW	(u)		(u)
Cranes					
Sandhill Crane	(<i>Grus canadensis</i>)	GM	u	u	u
Shorebirds					
Semipalmated Plover	(<i>Charadrius semipalmatus</i>)	SB	(u)		(r)
Killdeer*	(<i>Charadrius vociferus</i>)	RS	c	c	c
Greater Yellowlegs	(<i>Tringa melanoleuca</i>)	RS	(u)	(u)	(u)
Lesser Yellowlegs	(<i>Tringa flavipes</i>)	RS	(u)	(u)	(u)
Whimbrel	(<i>Numenius phaeopus</i>)	SB		(r)	
Spotted Sandpiper	(<i>Actitis macularia</i>)	RS/SB	(c)	u	(u)
Dunlin	(<i>Calidris alpina</i>)	SB	(u)	(u)	(u)
American Woodcock*	(<i>Scolopax minor</i>)	MF/FE	c	u	
Short-billed Dowitcher	(<i>Limnodromus griseus</i>)				
Gulls and Terns					
Bonaparte's Gull	(<i>Larus philadelphia</i>)	SB/RS	(c)		(u)
Ring-billed Gull*	(<i>Larus delawarensis</i>)	SB/RS	c	c	c
Herring Gull*	(<i>Larus argentatus</i>)	RS/SB	a	a	c

Species	Scientific Name	Habitat	Spring	Summer	Fall
Great Black-backed Gull*	<i>(Larus marinus)</i>	RS	o	o	
Common Tern	<i>(Sterna hirundo)</i>	OW/RS	(u)	u	(u)
Caspian Tern	<i>(Sterna caspia)</i>	OW/RS	c	c	(u)
Doves					
Mourning Dove	<i>(Zenaida macroura)</i>	GM/FE	c	c	c
Cuckoos and Roadrunners					
Black-billed Cuckoo*	<i>(Coccyzus erythrophthalmus)</i>	FE	u	u	
Yellow-billed Cuckoo*	<i>(Coccyzus americanus)</i>	FE	u	u	
Owls					
Great Horned Owl*	<i>(Bubo virginianus)</i>	FE	c	c	c
Nighthawks and Nightjars					
Common Nighthawk*	<i>(Chordeiles minor)</i>	GM	(c)	(c)	
Swifts					
Chimney Swift*	<i>(Chaetura pelagica)</i>	GM	(u)	(u)	
Hummingbirds					
Ruby-throated Hummingbird*	<i>(Archilochus colubris)</i>	FE	(c)	c	(c)
Kingfishers					
Belted Kingfisher*	<i>(Ceryle alcyon)</i>	RS/FE	c	c	c
Woodpeckers					
Red-headed Woodpecker	<i>(Melanerpes erythrocephalus)</i>	MF	u	u	u
Pileated Woodpecker	<i>(Dryocopus pileatus)</i>	MF	c	c	c
Red-bellied Woodpecker	<i>(Melanerpes carolinus)</i>	MF	c	c	c
Yellow-bellied Sapsucker	<i>(Sphyrapicus varius)</i>	FE/MF	(c)	u	u
Hairy Woodpecker*	<i>(Picoides villosus)</i>	MF	a	a	a
Downy Woodpecker*	<i>(Picoides pubescens)</i>	MF	a	a	a
Northern Flicker*	<i>(Colaptes auratus)</i>	MF/GM	(a)	c	(a)
Flycatchers					
Easter-wood Pewee*	<i>(Contopus virens)</i>	MF	c	c	u
Alder Flycatcher*	<i>(Empidonax alnorum)</i>	FE	u	u	u
Willow Flycatcher*	<i>(Empidonax traillii)</i>	FE	u	u	u
Least Flycatcher*	<i>(Empidonax minimus)</i>	FE	c	c	u
Eastern Phoebe*	<i>(Sayornis phoebe)</i>	MF	c	c	c
Great Crested Flycatcher*	<i>(Myiarchus crinitus)</i>	MF	c	c	c
Eastern Kingbird*	<i>(Tyrannus tyrannus)</i>	FE	c	c	c
Vireos					
Yellow-throated Vireo*	<i>(Vireo flavifrons)</i>	MF	u	u	u
Red-eyed Vireo*	<i>(Vireo olivaceus)</i>	MF/FE	c	c	u
Solitary Vireo	<i>(Vireo solitarius)</i>	MF	o	o	u
Jays, Magpies, and Crows					
Blue Jay*	<i>(Cyanocitta cristata)</i>	MF	(a)	c	(a)
American Crow*	<i>(Corvus brachyrhynchos)</i>	MF	a	a	a
Common Raven*	<i>(Corvus corax)</i>	MF	c	c	c
Swallows					
Tree Swallow	<i>(Tachycineta bicolor)</i>	FE	c	c	c
Barn Swallow*	<i>(Riparia riparia)</i>	GM	c	c	c
Cliff Swallow	<i>(Petrochelidon pyrrhonota)</i>	SB/RS	c	c	c
Chickadees and Titmice					
Black-capped Chickadee*	<i>(Poecile atricapillus)</i>	MF	a	a	a
Nuthatches					
White-breasted Nuthatch*	<i>(Sitta carolinensis)</i>	MF	u	u	u
Red-breasted Nuthatch	<i>(Sitta canadensis)</i>	MF	c	c	c
Creepers					
Brown Creeper*	<i>(Certhia americana)</i>	MF	(c)	u	u
Wrens					
House Wren*	<i>(Troglodytes aedon)</i>	FE	c	c	c
Winter Wren*	<i>(Troglodytes troglodytes)</i>	W	c	u	u
Sedge Wren*	<i>(Cistothorus platensis)</i>	W	c	u	u
Marsh Wren	<i>(Cistothorus palustris)</i>	W	c	u	u
Kinglets, Bluebirds, and Thrushes					
Golden-crowned Kinglet	<i>(Regulus satrapa)</i>	MF/FE	(c)		(c)
Ruby-crowned Kinglet	<i>(Regulus calendula)</i>	MF/FE	(c)		(c)
Blue-gray Gnatcatcher	<i>(Poliophtila caerulea)</i>	MF	(u)		
Eastern Bluebird*	<i>(Sialia sialis)</i>	GM	c	c	c
Veery*	<i>(Catharus fuscescens)</i>	MF	u	u	
Gray-cheeked Thrush	<i>(Catharus minimus)</i>	MF	(u)		

Species	Scientific Name	Habitat	Spring	Summer	Fall
Swainson's Thrush	<i>(Catharus ustulatus)</i>	MF	(u)		
Hermit Thrush*	<i>(Catharus guttatus)</i>	MF	(u)	u	
American Robin*	<i>(Turdus migratorius)</i>	MF/FE	(a)	c	(a)
Mimics					
Gray Catbird*	<i>(Dumetella carolinensis)</i>	FE	c	c	u
Brown Thrasher*	<i>(Toxostoma rufum)</i>	FE	(c)	c	u
European Starling*	<i>(Sturnus vulgaris)</i>	FE/GM	c	c	c
Waxwings					
Cedar Waxwing*	<i>(Bombycilla cedrorum)</i>	FE	c	c	c
Warblers					
Golden-winged Warbler	<i>(Vermivora chrysoptera)</i>	MF/FE	(u)		
Tennessee Warbler	<i>(Vermivora peregrina)</i>	MF/FE	(u)		
Nashville Warbler*	<i>(Vermivora ruficapilla)</i>	FE	(c)	c	(u)
Northern Parula	<i>(Parula americana)</i>	MF	(u)		
Yellow Warbler*	<i>(Dendroica petechia)</i>	FE	c	c	c
Chestnut-sided Warbler	<i>(Dendroica pensylvanica)</i>	FE	(u)	(u)	
Magnolia Warbler	<i>(Dendroica magnolia)</i>	FE	(u)		
Cape May Warbler	<i>(Dendroica tigrina)</i>	MF	(u)		
Yellow-rumped Warbler	<i>(Dendroica coronata)</i>	FE	(c)	(c)	(u)
Black-throated Green Warbler*	<i>(Dendroica virens)</i>	MF	c	c	u
Black-throated Blue Warbler	<i>(Dendroica caerulescens)</i>	MF	(u)		
Blackburnian Warbler	<i>(Dendroica fusca)</i>	MF	(c)	u	u
Pine Warbler	<i>(Dendroica pinus)</i>	MF	(u)		
Palm Warbler	<i>(Dendroica palmarum)</i>	FE	(c)		(c)
Blackpoll	<i>(Dendroica striata)</i>	MF	(u)		
Black-and-white Warbler*	<i>(Mniotilta varia)</i>	MF	(u)		
American Redstart*	<i>(Setophaga ruticilla)</i>	FE/W	c	c	(u)
Ovenbird*	<i>(Seiurus aurocapilla)</i>	MF	c	c	u
Mourning Warbler*	<i>(Oporornis philadelphia)</i>	MF	(c)	(c)	
Common Yellowthroat*	<i>(Geothlypis trichas)</i>	W	c	c	c
Canada Warbler	<i>(Wilsonia pusilla)</i>	MF	(c)	u	
Tanagers					
Scarlet Tanager*	<i>(Piranga olivacea)</i>	FE/MF	u	u	u
Sparrows, Buntings, and Grosebeaks					
Rufus-Sided Towhee*	<i>(Pipilo erythrophthalmus)</i>	FE	u	u	u
Chipping Sparrow*	<i>(Spizella passerina)</i>	GM	c	a	c
Field Sparrow	<i>(Spizella pusilla)</i>	GM	c	c	c
Savannah Sparrow	<i>(Passerculus sandwichensis)</i>	GM	c	c	u
Song Sparrow*	<i>(Melospiza melodia)</i>	FE	a	a	a
Lincoln's Sparrow	<i>(Melospiza lincolni)</i>	FE	(u)		(u)
Swamp Sparrow	<i>(Melospiza georgiana)</i>	W	u	u	(u)
White-throated Sparrow*	<i>(Zonotrichia albicollis)</i>	FE	(c)		(u)
White-crowned Sparrow	<i>(Zonotrichia leucophrys)</i>	FE	(u)		(u)
Dark-eyed Junco	<i>(Junco hyemalis)</i>	FE/GM	(a)		(a)
Northern Cardinal*	<i>(Cardinalis cardinalis)</i>	MF	c	c	c
Rose-breasted Grosbeak*	<i>(Pheucticus ludovicianus)</i>	MF	c	c	u
Indigo Bunting*	<i>(Passerina cyanea)</i>	FE	c	c	c
Blackbirds and Orioles					
Red-winged Blackbird*	<i>(Agelaius phoeniceus)</i>	GM/W	c	c	c
Common Grackle*	<i>(Quiscalus quiscula)</i>	FE	c	c	c
Brown-headed Cowbird*	<i>(Molothrus ater)</i>	FE	c	c	c
Baltimore Oriole*	<i>(Icterus galbula)</i>	FE	c	c	u
Finches					
House Finch*	<i>(Carpodacus mexicanus)</i>	FE	u	u	u
American Goldfinch*	<i>(Carduelis tristis)</i>	FE/GM	c	c	c

* Denotes species nesting on the refuge

Abundance Code	decode
a	abundant
c	common
o	occasional
r	rare
u	uncommon
()	during migration
Habitat Code	decode
MF	Mixed Coniferous/Hardwood Forest
FE	Forest Edge
W	Wetlands/Ephemeral Ponds
GM	Grassy Meadow
SB	Sandy Beach/Dunes
RS	Rocky Shoreline
OW	Open Water/Off-shore Islands

Season	Dates
Spring	April-mid-June
Summer	mid-June- August
Fall	September-November
Winter	December-March

Reptiles, Amphibians and Mammals of Plum Island

Reptiles	
Scientific Name	Common Name
<i>Thamnophis sirtalis</i>	common garter snake
<i>Storeria dekayi</i>	brown snake
<i>Elaphe vulpina</i>	Western fox snake
<i>Diadophis puntatus edwardsi</i>	Northern ringneck snake
<i>Nerodia sipedon</i>	Northern water snake
Amphibians	
Scientific Name	Common Name
<i>Ambystoma laterale</i>	blue-spotted salamander
<i>Notophthalmus viridens</i>	central newt
<i>Pseudacris crucifer</i>	spring peeper
<i>Bufo americanus</i>	American toad
<i>Hyla versicolor</i>	Eastern gray tree frog
Mammals	
Scientific Name	Common Name
<i>Peromyscus maniculatus</i>	deer mouse
<i>Odocoileus virginianus</i>	white-tailed deer
<i>Canis latrans</i>	coyote
<i>Procyon lotor</i>	raccoon

Harbor Island NWR

Plant Species of Harbor Island

Plants of Harbor Island National Wildlife Refuge as depicted by Scharf and Chamberlin (1978). Where possible, taxonomy has been updated and generally follows Gray's Manual of Botany; nomenclature follows Cobb's A Field Guide to the Ferns and Gray's Manual of Botany.

PTERIDOPHYTA

FERNS AND THEIR ALLIES

EQUISETACEAE

HORSETAIL OR SCOURING RUSH FAMILY

Equisetum

Dwarf Souring Rush; Dwarf Horsetail

Equisetum scirpoides

LYCOPODIACEAE

CLUBMOSS FAMILY

Lycopodium

Ground Pine; Ground Cedar

Lycopodium tristachyum

OPHIOGLOSSACEAE

ADDER'S-TONGUE FAMILY

Botrychium

Rattlesnake Fern

Botrychium virginianum

POLYPODIACEAE

TRUE FERN OR FERN FAMILY

Dryopteris

see *Gymnocarpium dryopteris*

Dryopteris disjuncta

Oak Fern

Gymnocarpium dryopteris

Beech fern

Dryopteris phegopteris

Spinulose Woodfern

Dryopteris spinulosa

(variety of the above)

Dryopteris spinulosa var. intermedia

Pteridium

Bracken Fern

Pteridium aquilinum

GYMNOSPERMAE

GYMNOSPERMS

PINACEAE

PINE FAMILY

Larix

Larch; Tamarack

Larix laricina

Pinus

White Pine

Pinus strobus

Red Pine

Pinus resinosa

Abies

Balsam Fir

Abies balsamea

Tsuga

Hemlock

Tsuga canadensis

Picea

Picea mariana Black Spruce
Picea glauca White Spruce

*** CUPRESSACEAE**

(included here as a subfamily in the Pinaceae)

Thuja

Thuja occidentalis Arbor Vitae; White Cedar

Juniperus

Juniperus horizontalis Creeping Juniper

MONOCOTYLEDONEAE

TYPHACEAE

Typha latifolia

CAT-TAIL FAMILY

Common Cat-tail

POTAMOGETONACEAE

Potamogeton

Potamogeton pectinatus

Potamogeton natans

Potamogeton zosteriformis

PONDWEED FAMILY

Sago Pondweed

GRAMINAE (POACEAE)

POEAE (Tribe)

Phragmites

Phragmites australis

GRASS FAMILY

Common Reed

Poa

Poa compressa

Canada Bluegrass

Glyceria

Glyceria grandis

Marsh Grass

TRITICEAE (Tribe)

Agropyron

Agropyron repens

Quack Grass

AGROSTIDEAE (Tribe)

Phleum

Phleum pratense

Timothy

CYPERACEAE

Scirpus

Scirpus acutus

Scirpus americanus

SEDGE FAMILY

Hardstem Bulrush

Threesquare

ARACEAE

Acorus

Acorus calamus

ARUM FAMILY

Sweetflag

RUSCACEAE

Maianthemum

Maianthemum canadense

Canada lily

PONTEDERIACEAE

Pontederia

Pontederia cordata

PICKEREL-WEED FAMILY

Pickeralweed

ORCHIDACEAE

Corallorhiza

Corallorhiza striata

ORCHID FAMILY

Striped Coral-root

Goodyera

**Goodyera oblongifolia*

**Goodyera tessellata*

Giant Rattlesnake plantain,
Checkered Rattlesnake plantain

Cypripedium

Cypripedium arietinum

Ramshead Orchid (Bald Island)

DICOTYLEDONEAE

SALICAEAE

Populus

Populus tremuloides

Populus balsamifera

WILLOW FAMILY

Quaking Aspen

Balsam Poplar

MYRICACAE

Myrica

Myrica gale

BAYBERRY FAMILY

Sweet Gale

BETULACEAE (formerly Corylaceae)

Alnus

Alnus rugosa

BIRCH FAMILY

Speckled Alder; Tag Alder

Betula

Betula papyrifera

Paper, White, or Canoe Birch

Ostrya

Ostrya virginiana

Ironwood

FAGACEAE

Quercus

Quercus rubra

BEECH FAMILY

Oak

Red Oak

ULMACEAE

Ulmus

Ulmus americana

Ulmus thomasi

ELM FAMILY

American or White Elm

Rock Elm

POLYGONACEAE

Rumex

SMARTWEED FAMILY

Rumex acetosella
Rumex orbiculatus

Sheep or Red Sorrel
 Water dock

RANUNCULACEAE

BUTTERCUP FAMILY

Anemone
Anemone cylindrica

Long-headed Thimbleweed

Coptis
Coptis groenlandica
 (see *C. trifolia*)

Goldthread

Thalictrum
Thalictrum dioicum

Early Meadow Rue

Ranunculus
Ranunculus abortivus

Kidney Leaf Buttercup

SAXIFRAGACEAE

SAXIFRAGE FAMILY

Mitella
Mitella nuda

Naked miterwort

ROSACEAE

ROSE FAMILY

Rubus
Rubus strigosus(-idaeus)

Wild Red Raspberry

Rosa
Rosa palustris

Swamp Rose

Prunus
Prunus virginiana

Choke Cherry

Malus
Malus pumila

Apple

Fragaria
Fragaria vesca
F. virginiana

Woodland Strawberry
 Virginia Strawberry

Potentilla
Potentilla anserina
Potentilla recta

Silverweed
 Rough Cinquefoil

GERANIACEAE

GERANIUM FAMILY

Geranium
Geranium robertianum

Herb Robert

ANACARDIACEAE

CASHEW FAMILY

Toxicodendron
Toxicodendron radicans

Poison-ivy

Rhus

Rhus typhina

CELASTRACEAE

Celastrus

Celastrus scandens

ACERACEAE

Acer

Acer saccharum

Acer rubrum

Acer pensylvanicum

VITACEAE

Vitis

Vitis riparia

GUTTIFERAE (CLUSIACEAE)

Hypericum

Hypericum perforatum

VIOLACEAE

Viola

Viola conspersa

Viola pallens

(see *V. macloskeyi*)

Viola pubescens

Viola incognita

ELAEAGNACEAE

Shepherdia

Shepherdia canadensis

ONAGRACEAE

Oenothera

Oenothera biennis

UMBELLIFERAE (APIACEAE)

Osmorhiza

Osmorhiza claytonii

Cicuta

Cicuta bulbifera

CORNACEAE

Cornus

Cornus canadensis

OLEACEAE

Fraxinus

Fraxinus nigra

Fraxinus americana

Staghorn Sumac

BITTERSWEET FAMILY

Bittersweet

MAPLE FAMILY

Sugar Maple or Hard Maple

Red Maple

Striped Maple

GRAPE FAMILY

Wild Grape

ST. JOHNSWORT FAMILY

Common St. Johnswort

VIOLET FAMILY

Dog Violet

Smooth White Violet

Downy Yellow Violet

Large Leaf Violet

OLEASTER FAMILY

Buffalo Berry

EVENING-PRIMROSE FAMILY

CARROT OR PARSLEY FAMILY

Sweet-cicely

Sweet-cicely

DOGWOOD FAMILY

Bunchberry; Dwarf Cornel

OLIVE FAMILY

Black Ash

White Ash

GENTIANACEAE

Gentianaceae

Gentiana crinita

ASCLEPIADACEAE

Asclepias

Asclepias incarnata

Asclepias syriaca

VERBENACEAE

Verbena

Verbena hastata

LABIATAE (LAMIACEAE)

Prunella

Prunella vulgaris

Clinopodium

Clinopodium vulgare

Nepeta

Nepeta cataria

Lycopus

Lycopus virginicus

SOLANACEAE

Physalis

Physalis heterophylla

SCROPHULARIACEAE

Verbascum

Verbascum thapsus

RUBIACEAE

Galium

Galium triflorum

Galium boreale

Galium asprellum

CAPRIFOLIACEAE

Sambucus

Sambucus racemosa

Linnea

Linnea borealis

CAMPANULACEAE

Lobelia

Lobelia siphilitica

GENTIAN FAMILY

MILKWEED FAMILY

Swamp Milkweed

Common Milkweed

VERVAIN FAMILY

Blue Vervain

MINT FAMILY

Self-heal; Heal-all

Wild-basil

Catnip; Catmint

Waterhorehound

NIGHTSHADE FAMILY

Ground Cherry

SNAPDRAGON FAMILY

Mullien; Flannel Plant

MADDER FAMILY

Sweet Scented Bedstraw

Northern Bedstraw

Rough Bedstraw

HONEYSUCKLE FAMILY

Red Elderberry

Twin Flower

BELLFLOWER FAMILY

Great Blue Lobelia

Lobelia kalmii
Lobelia spicata

Brook Lobelia
Pale Spike Lobelia

COMPOSITAE (ASTERACEAE)

ASTER OR DAISY FAMILY

Tragopogon

Tragopogon dubius
(*T. major* included in above)

Hieracium

Hieracium aurantiacum

Orange Hawkweed

Hieracium florentinum
(see *H. piloselloides*)

Yellow Hawkweed

Bidens

Bidens cernuus

Nodding Beggar-ticks

Tanacetum

Tanacetum huronense

Lake Huron Tansy

Eupatorium

Eupatorium perfoliatum

Boneset

Solidago

Solidago ulmifolia
Solidago erecta

Goldenrod
Goldenrod

Hypochoeris

Hypochoeris radicata

Cats Ear

Erigeron

Erigeron philadelphicus

Fleabane

Aster

Aster novae
Aster prealtus

New England Aster
Willow Aster

Arctium

Arctium minus

Common Burdock

Centaurea

Centaurea maculosa

Spotted Knapweed

Cirsium

Cirsium vulgare
Cirsium arvense

Bull Thistle
Canada or Field Thistle

Anaphalis

Anaphalis margaritacea

Pearly Everlasting

Heliopsis

Heliopsis helianthoides

Ox Eye Daisy

Taraxacum

Taraxacum erythrospermum

Red Seeded Dandelion

Taraxacum officinale

Common Dandelion

OTHER TAXA

Streptopus roseus

Rosty Twisted-Stalk

Scrophularia lanceolata

Figwort

Gerardia paupercula

Purple Gerardia

Urtica dioica

Common Nettle

Pilea fontana

Cynoglossum officinale

Hounds Tongue

Conopholis americana

Squaw Root

Mammals of Harbor Island

Mammals of Harbor Island National Wildlife Refuge as depicted by Scharf and Chamberlin (1978) and including surveys of other authors.

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999)

Common Name	Scientific Name	Ordinal Abundance	Habitat(s) ^b
Little brown bat	<i>Myotis lucifugus</i>	Unknown	RES
Red bat	<i>Lasiurus borealis</i>	Unknown	DDF, MDF, DMF, DCF, MCF
Snowshoe hare	<i>Lepus americanus</i>	Abundant	DMF, MMF, MCF, DCF
Red squirrel	<i>Tamiasciurus hudsonicus</i>	Abundant	DCF, MCF, DMF, MMF
Beaver	<i>Castor canadensis</i>	Common	SHO
Woodland deer mouse	<i>Peromyscus maniculatus gracilis</i>	Abundant	SUP, DCF, MCF, DDF, MDF, DMF, MMF
Red-backed vole	<i>Clethrionomys gapperi</i>	Unknown	MDF, MMF, MCF, SWE, SHO
Coyote	<i>Canis latrans</i>	Unknown	DDF, MDF, DMF, MMF, DCF, MCF, PAS, GRA, HAY
Red fox	<i>Vulpes vulpes</i>	Unknown	DDF, OLD, PAS, HAY
Black bear ²	<i>Ursus americanus</i>	Uncommon	DDF, MDF, DMF, MMF, DCF, MCF
Raccoon	<i>Procyon lotor</i>	Unknown	DDF, MDF, DMF, MMF
Mink	<i>Mustela vison</i>	Common	OWA, SWA
River otter ²	<i>Lutra canadensis</i>	Unknown	OWA
Canada lynx ³	<i>Lynx canadensis</i>	Unknown	DCF, MCF, WCF
Bobcat ²	<i>Lynx rufus</i>	Unknown	DMF, MMF, DCF, MCF
White-tailed deer	<i>Odocoileus virginianus</i>	Abundant	

^aHabitat information obtained from: Kurta (2001).

^bHabitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; MDF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water

Herptofauna of Harbor Island

Common Name	Scientific Name	Ordinal Rate of Encounter	Habitat(s)
Northern water snake	<i>Nerodia sipedon sipedon</i>	Common	Permanent wetlands, rivers and streams
Eastern Garter Snake	<i>Thamnophis sirtalis sirtalis</i>	Abundant	Ephemeral wetlands, permanent wetlands, rivers and streams, forests, grasslands and savannas, caves and springs, agricultural areas, urban areas
Northern Ring-necked Snake	<i>Diadophis punctatus edwardsi</i>	Unknown	Forests, grasslands and savannas
Northern Spring Peeper	<i>Pseudacris crucifer crucifer</i>	Abundant	Permanent wetlands, forests, grasslands and savannas
Wood Frog	<i>Rana sylvatica</i>	Common	Ephemeral wetlands, permanent wetlands, forests
Eastern American Toad	<i>Bufo americanus americanus</i>	Abundant	Ephemeral wetlands, permanent wetlands, rivers and streams, forests, grasslands and savannas, caves and springs, agricultural areas, urban areas
Spotted Salamander	<i>Ambystoma maculatum</i>	Unknown	Ephemeral wetlands, permanent wetlands, forests

¹Region 3 Conservation Priorities (FWS 2002)²Regional Forester Sensitive (USFS 2003)³Michigan Special Animal (1999).

Expert review by James H. Harding (Michigan State University)

Bird Species of Harbor Island

Birds of Harbor Island National Wildlife Refuge as depicted by Scharf and Chamberlin (1978) and including surveys of other authors.

Species of note that have been found more recently breeding in the area are shown in bold italics (under the “Common Name” column). This list is not exhaustive, as many migrants species (especially waterfowl, raptors, and songbirds) are not represented.

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999)

Common Name	Scientific Name	Breeding Status				Preferred Habitat(s) ^a
		Known Breeder	Probable Breeder	Potential Breeder	Migrant or Status Unknown	
Common Loon ^{1,2,3}	<i>Gavia immer</i>		x			OWA
Horned Grebe	<i>Podiceps auritus</i>				x	OWA
Red-necked Grebe	<i>Podiceps grisegena</i>				x	OWA
<i>Pied-billed Grebe</i>	<i>Podilymbus podiceps</i>	x				OWA
<i>Double-crested Cormorant</i> ¹	<i>Phalacrocorax auritus</i>	x				OWA
American Bittern ^{1,3}	<i>Botaurus lentiginosus</i>	x				OWE
Black-crowned Night Heron ^{1,2,3}	<i>Nycticorax nycticorax</i>			x		OWE
Great Blue Heron	<i>Ardea herodias</i>			x		OWA, OWE
<i>Mute Swan</i>	<i>Cygnus olor</i>	x				OWA
<i>Trumpeter Swan</i> ^{1,2,3}	<i>Cygnus buccinator</i>					OWA
Canada Goose ¹	<i>Branta canadensis</i>		x			OWA
American Black Duck ¹	<i>Anas rubripes</i>	x				OWA
Lesser Scaup ¹	<i>Aythya affinis</i>				x	OWA
Greater Scaup					x	OWA
Surf Scoter	<i>Melanitta americana</i>				x	OWA
White-winged Scoter	<i>Melanitta nigra</i>				x	OWA
Long-tailed Duck	<i>Clangula hyemalis</i>				x	OWA
Bufflehead	<i>Bucephala albeola</i>				x	OWA
Common Goldeneye	<i>Bucephala clangula</i>	x				OWA
Wood Duck ¹	<i>Aix sponsa</i>	x				OWA, OWE
Mallard ¹	<i>Anas platyrhynchos</i>	x				OWA, OWE
Blue-winged Teal ¹	<i>Anas discors</i>				x	OWA, OWE
Green-winged Teal	<i>Anas crecca</i>				x	OWA, OWE
Hooded Merganser	<i>Lophodytes cucullatus</i>				x	OWA, OWE
Red-breasted Merganser	<i>Mergus serrator</i>	x				OWA, OWE
Common Merganser	<i>Mergus merganser</i>				x	OWA, OWE
Osprey ³	<i>Pandion haliaetus</i>			x		OWA
Bald Eagle ^{1,3}	<i>Haliaeetus leucocephalus</i>			x		OWA
Broad-winged Hawk	<i>Buteo platypterus</i>		x			DCF, DMF, WCF, WMF
Sharp-shinned Hawk	<i>Accipiter striatus</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Cooper's Hawk ³	<i>Accipiter cooperii</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Northern Goshawk ^{1,2,3}	<i>Accipiter gentilis</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Northern Harrier ^{1,2,3}	<i>Circus cyaneus</i>				x	OWE, GRA, HAY, OLD
Ruffed Grouse	<i>Bonasa umbellus</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Sora	<i>Porzana carolina</i>	x				OWE

American Coot	<i>Fulica americana</i>		x		OWA, OWE
Sandhill Crane	<i>Grus canadensis</i>			x	OWE, GRA, HAY, OLD
Whimbrel	<i>Numenius phaeopus</i>			x	
Short-billed Dowitcher	<i>Limnodromus griseus</i>			x	
Greater Yellowlegs ¹	<i>Tringa melanoleuca</i>			x	SHO
Spotted Sandpiper	<i>Actitis macularius</i>		x		SHO
Semi-palmated Sandpiper	<i>Calidris pusilla</i>			x	SHO
Least Sandpiper	<i>Calidris minutilla</i>			x	SHO
White-rumped Sandpiper	<i>Calidris fuscicollis</i>			x	SHO
Dunlin	<i>Calidris alpina</i>			x	SHO
Sanderling	<i>Calidris alba</i>			x	SHO
Ruddy Turnstone	<i>Arenaria interpres</i>			x	SHO
American Woodcock	<i>Scolopax minor</i>	x			SHO
Bonaparte's Gull	<i>Larus philadelphia</i>			x	OWA
Ring-billed Gull	<i>Larus delawarensis</i>			x	OWA
Herring Gull	<i>Larus argentatus</i>			x	OWA
Caspian Tern ^{2,3}	<i>Hydroprogne caspia</i>			x	OWA
Common Tern ^{1,2,3}	<i>Sterna hirundo</i>			x	OWA
Black Tern ^{1,2,3}	<i>Chlidonias niger</i>	x			OWA, OWE
Black-billed Cuckoo ¹	<i>Coccyzus erythrophthalmus</i>	x			SWE, SUP
Great Horned Owl	<i>Bubo virginianus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Barred Owl	<i>Strix varia</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Northern Hawk Owl	<i>Surnia ulula</i>			x	OWE, GRA, HAY, OLD
Common Nighthawk	<i>Caprimulgus vociferus</i>			x	DCF, GRA, HAY, OLD
Whip-poor-will ¹	<i>Troglodytes aedon</i>		x		DCF, GRA, HAY, OLD
Ruby-throated Hummingbird	<i>Archilochus colubris</i>		x		DCF, DMF, MCF, MMF, WCF, WMF, RES
Belted Kingfisher	<i>Megaceryle alcyon</i>			x	OWA, OWE
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Downy Woodpecker	<i>Picoides pubescens</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Hairy Woodpecker	<i>Picoides villosus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
American Three-toed Woodpecker ^{2,3}	<i>Picoides dorsalis</i>			x	DCF, DMF, MCF, MMF, WCF, WMF
Northern Flicker ¹	<i>Colaptes auratus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Pileated Woodpecker	<i>Dryocopus pileatus</i>	x			DCF, DMF, MCF, MMF, WCF, WMF
Eastern Wood-Pewee	<i>Contopus virens</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Great Crested Flycatcher	<i>Myiarchus crinitus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Blue-headed Vireo	<i>Vireo solitarius</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Red-eyed Vireo	<i>Vireo olivaceus</i>	x			DCF, DMF, MCF, MMF, WCF, WMF
Blue Jay	<i>Cyanocitta cristata</i>		x		WCF, WMF
American Crow	<i>Corvus brachyrhynchos</i>		x		GRAY, HAY, OLD, RES
Common Raven	<i>Corvus corax</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Tree Swallow	<i>Tachycineta bicolor</i>		x		GRA, HAY, OLD
Barn Swallow	<i>Hirundo rustica</i>			x	GRA, HAY, RES, OLD
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>			x	GRA, HAY, RES, OLD
Purple Martin	<i>Progne subis</i>			x	RES
Black-capped Chickadee	<i>Poecile atricapillus</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
Red-breasted Nuthatch	<i>Sitta canadensis</i>		x		DCF, DMF, WCF, WMF
Brown Creeper	<i>Certhia americana</i>		x		DCF, DMF, MCF, MMF, WCF, WMF
House Wren	<i>Euphagus cyanocephalus</i>		x		DCF, GRA, HAY, OLD

Marsh Wren ³	<i>Cistothorus palustris</i>	x				OWE, SWE
Winter Wren	<i>Troglodytes troglodytes</i>	x				WCF, WMF
American Robin	<i>Turdus migratorius</i>	x				DCF, DMF, WCF, WMF, RES
Gray-cheeked Thrush	<i>Catharus minimus</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Veery	<i>Catharus fuscescens</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Hermit Thrush	<i>Catharus guttatus</i>		x			DCF, DMF
Swainson's Thrush ²	<i>Catharus ustulatus</i>	x				WCF, WMF
European Starling	<i>Sturnus vulgaris</i>		x			RES
Cedar Waxwing	<i>Bombycilla cedrorum</i>		x			
Nashville Warbler	<i>Vermivora ruficapilla</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Magnolia Warbler	<i>Dendroica magnolia</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Yellow-rumped Warbler	<i>Dendroica coronata</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Black-throated Green Warbler	<i>Dendroica virens</i>		x			DCF, DMF, MCF, MMF, WCF, WMF
Ovenbird	<i>Seiurus aurocapillus</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Blackburnian Warbler	<i>Dendroica fusca</i>		x			MCF, MMF
Black-and-White Warbler	<i>Mniotilta varia</i>		x			MCF, MMF, WCF, WMF
Black-throated Blue Warbler ^{1,2}	<i>Dendroica caerulescens</i>		x			MDF
Yellow Warbler	<i>Dendroica petechia</i>		x			OWE, SWE
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>		x			SUP
Wilson's Warbler	<i>Wilsonia pusilla</i>				x	SWE
Tennessee Warbler	<i>Vermivora peregrina</i>		x			WCF, WMF
Northern Parula	<i>Parula americana</i>		x			WCF, WMF
Bay-breasted Warbler ²	<i>Dendroica castanea</i>		x			WCF, WMF
Blackpoll Warbler	<i>Dendroica striata</i>		x			
American Redstart	<i>Setophaga ruticilla</i>	x				SUP, SWE
Common Yellowthroat	<i>Geothlypis trichas</i>	x				SWE
Scarlet Tanager	<i>Piranga olivacea</i>				x	MDF, MMF
Dark-eyed Junco	<i>Junco hyemalis</i>		x			DCF, WCF
White-throated Sparrow	<i>Zonotrichia albicollis</i>		x			DCF, DMF
Fox Sparrow	<i>Passerella iliaca</i>				x	RES
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>		x			RES
Chipping Sparrow	<i>Spizella passerina</i>				x	SUP, DCF, OLD
American Tree Sparrow	<i>Spizella arborea</i>				x	RES
Vesper Sparrow	<i>Pooecetes gramineus</i>				x	SUP, DCF, OLD
Song Sparrow	<i>Melospiza melodia</i>		x			SUP, SWE, OLD
Swamp Sparrow	<i>Melospiza georgiana</i>		x			SWE, OWE
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	x				OWE
Brown-headed Cowbird	<i>Molothrus ater</i>		x			RES
Purple Finch	<i>Carpodacus purpureus</i>				x	DCF, DMF, MCF, MMF, WCF, WMF, RES
Evening Grosbeak	<i>Coccothraustes vespertinus</i>				x	DCF, DMF, MCF, MMF, WCF, WMF, RES
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>				x	MDF, MMF
Pine Grosbeak	<i>Pinicola enucleator</i>				x	WCF, WMF, RES

^aHabitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; MDF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water

Huron NWR

Ferns and Gymnosperm Species of the Huron Islands

Huron NWR Gymnosperms

Taxonomy according to *Gray's Manual of Botany*, where applicable; nomenclature follows Cobb's *A Field Guide to the Ferns* and *Gray's Manual of Botany*.

PTERIDOPHYTA

FERNS AND THEIR ALLIES

EQUISETACEAE

Equisetum

Equisetum arvense

HORSETAIL OR SCOURING RUSH FAMILY

Horsetail

Field Horsetail

LYCOPODIACEAE

Lycopodium

Lycopodium annotinum

Lycopodium clavatum

Lycopodium dendroideum

Huperzia

Huperzia lucidula

CLUBMOSS FAMILY

Clubmoss

Stiff or Bristly Clubmoss

Staghorn or Wolf's Claw Clubmoss

Tree Groundpine

Shining Clubmoss

SELAGINELLACEA

Selaginella

Selaginella rupestris

Spring Northern

Selaginella

OSMUNDACEAE

Osmunda

Osmunda regalis

Osmunda claytoniana

FLOWERING FERN FAMILY

Flowering Fern

Royal Fern

Interrupted Fern

DRYOPTERIDACEAE

Dryopteris

Dryopteris carthusiana

Dryopteris filix-mas

Dryopteris intermedia

Athyrium

Athyrium filix-femina

WOOD FERN FAMILY

Spinulose Woodfern

Male Fern

Intermediate Woodfern

Lady Fern

POLYPODIACEAE

Polypodium

Polypodium virginianum Rock Polypody

Pteridium

Pteridium aquilinum

TRUE FERN OR FERN FAMILY

Bracken Fern

GYMNOSPERMAE

PINACEAE

Pinus

1. *Pinus strobus*
2. *Pinus resinosa*

Abies

1. *Abies balsamea*

Picea

1. *Picea mariana*
2. *Picea glauca*

TAXACEA

Taxus

- Taxus canadensis*

CUPRESSACEAE

1. Thuja

1. *Thuja occidentalis*

2. Juniperus

1. *Juniperus communis*
- Juniperus horizontalis*

GYMNOSPERMS

PINE FAMILY

Pine

White Pine

Red Pine

Fir

Balsam Fir

Spruce

Black Spruce

White Spruce

Canada Yew

Arbor Vitae; White Cedar

Juniper

Ground Juniper

Creeping Juniper

Plants of the Huron Islands

Taxonomy and nomenclature according to Voss' *Michigan Flora*, Parts 1-3.

MONOCOTYLEDONEAE (see *Michigan Flora*, Part 1)

POACEAE

POEAE (Tribe)

Poa

- Poa compressa
- Poa palustris

Melica

- Melica smithii

TRITICEAE (Tribe)

Deschampsia

- Deschampsia cespitosa
- Deschampsia flexuosa

Danthonia

- Danthonia spicata

AGROSTIDEAE (Tribe)

Calamagrostis

- Calamagrostis canadensis
- Calamagrostis stricta

Agrostis

- Agrostis gigantea
- Agrostis hyemalis

PHALARIDEAE (Tribe)

Phalaris

- Phalaris arundinacea

CYPERACEAE

Carex

- Carex arctata
- Carex brunnescens
- Carex buxbaumii
- Carex crinita
- Carex echinata
- Carex lenticularis
- Carex paupercela
- Carex trisperma
- Carex viridula

Scirpus

- Scirpus cyperinus
- Scirpus caespitosus

JUNCACEAE

Juncus

GRASS FAMILY

- Bluegrass
- Canada Bluegrass
- Fowl Meadow Grass

- Smith's Melicgrass

- Tufted Hairgrass
- Wavy Hairgrass

- Poverty Oatgrass

- Reedgrass
- Blue-joint
- Northern Reedgrass
- Bentgrass
- Redtop
- Ticklegrass

- Reed Canarygrass

SEDGE FAMILY

- Sedge
- Drooping Woodland Sedge

- Buxbaum's Sedge

- Bulrush
- Wool-grass
- Tufted Bulrush

RUSH FAMILY

Juncus tenuis
Juncus brevicaudatus

LILIACEAE

Clintonia

Clintonia borealis

Hemerocallis

Hemerocallis fulva

Maianthemum

1. Maianthemum canadense

IRIDACEAE

1. **Sisyrinchium**

8. Sisyrinchium montanum

2. **Iris**

6. Iris versicolor

DICOTYLEDONEAE (see Michigan Flora, Part 2)

SALICACEAE

Salix

Salix discolor

Populus

Populus tremuloides

MYRICACEAE

Myrica

Myrica gale

BETULACEAE (formerly Corylaceae)

Alnus

Alnus rugosa

Betula

Betula papyrifera

FAGACEAE

Quercus

Quercus rubra

URTICACEAE

Urtica

Urtica dioica

POLYGONACEAE

Rumex

Rumex acetosella

Polygonum

Polygonum cilinode

Polygonum hydropiperoides

LILY FAMILY

Bluebead

Orange Daylily

Wild or False Lily-of-the-valley;
Canada Mayflower

IRIS FAMILY

Blue-eyed-grass

Iris; Flag

Wild Blue Flag

WILLOW FAMILY

Willow

Pussy Willow

Poplar

Quaking Aspen

BAYBERRY FAMILY

Bayberry; Wax-myrtle

Sweet Gale

BIRCH FAMILY

Alder

Speckled Alder; Tag Alder

Birch

Paper, White, or Canoe Birch

BEECH FAMILY

Oak

Red Oak

NETTLE FAMILY

Nettle

Stinging Nettle

SMARTWEED FAMILY

Dock

Sheep or Red Sorrel

Smartweed; Knotweed

Fringed False Buckwheat

Mild Water-pepper

CARYOPHYLLACEAE

Cerastium

Cerastium fontanum

Dianthus

Dianthus barbatus

RANUNCULACEAE

Aquilegia

Aquilegia canadensis

Thalictrum

Thalictrum dasycarpum

Actaea

Actaea rubra

Coptis

Coptis trifolia

Ranunculus

Ranunculus acris

Ranunculus hispidus

FUMARIACEAE

Corydalis

Corydalis sempervirens

CRUCIFERAE (BRASSICACEAE)

Arabis

Arabis lyrata

DROSERACEAE

Drosera

Drosera rotundifolia

CRASSULACEAE

Sedum

SAXIFRAGACEAE

***GROSSULARIACEAE**

(Often included in the Saxifragaceae)

Ribes

Ribes glandulosum

82. ROSACEAE

Agrimonia

Agrimonia striata

Rubus

Rubus strigosus(-idaeus)

Rubus canadensis

Rubus parviflorus

Rosa

Rosa acicularis

Sorbus

PINK FAMILY

Chickweed

Mouse-ear Chickweed

Pink

Maiden Pink

BUTTERCUP FAMILY

Columbine

Wild Columbine

Meadow-rue

Purple Meadow-rue

Baneberry

Red Baneberry

Goldthread

Buttercup; Crowfoot

Tall or Common Buttercup

Bristly Buttercup

FUMITORY FAMILY

Rock Harlequin

MUSTARD FAMILY

Lyrate Rockcress

SUNDEW FAMILY

Sundew

Round-leaved Sundew

ORPINE FAMILY

Stonecrop; Sedum; Orpine

SAXIFRAGE FAMILY

GOOSEBERRY FAMILY

Currant; Gooseberry

Skunk Currant

ROSE FAMILY

Roadside Agrimony

Bramble; Raspberries; Dewberries; Blackberries

Wild Red Raspberry

Thimbleberry

Wild Rose

Mountain-ash

Sorbus decora	Northern Mountain Ash
Prunus	Cherry; Plum
Prunus virginiana	Choke Cherry
Prunus pensylvanica	Pin or Fire Cherry
Physocarpus	
Physocarpus opulifolius	Ninebark
Spiraea	Spiraea
Spiraea alba	Meadowsweet
Aronia	
Aronia melanocarpa	Black chokeberry
Amelanchier	
Amelanchier spp.	Serviceberry
Amelanchier bartramiana	Oblongfruit Serviceberry
Fragaria	Strawberry
Fragaria virginiana	Virginia Strawberry
Potentilla	Cinquefoil; Five-finger
Potentilla arguta	Tall Cinquefoil
Potentilla tridentata	Three-toothed Cinquefoil
Potentilla norvegica	Rough Cinquefoil
Geum	
Geum aleppicum	
LEGUMINOSAE (FABACEAE)	PEA FAMILY
Trifolium	Clover
Trifolium repens	White Clover
GERANIACEAE	GERANIUM FAMILY
Geranium	Wild Geranium; Crane's-bill
Geranium bicknellii	
AQUIFOLIACEAE	HOLLY FAMILY
Ilex	Holly
Ilex verticillata	Michigan Holly; Winterberry; Black Alder
ACERACEAE	MAPLE FAMILY
Acer	Maple
Acer rubrum	Red Maple
Acer pensylvanicum	Striped Maple
Acer spicatum	Mountain Maple
BALSAMINACEAE	TOUCH-ME-NOT FAMILY
Impatiens	
Impatiens capensis	Spotted Touch-me-not
GUTTIFERAE (CLUSIACEAE)	ST. JOHNSWORT FAMILY
Hypericum	St. Johnswort
Hypericum punctatum	
VIOLACEAE	VIOLET FAMILY
Viola	Violet

Viola spp.

Violet

ONAGRACEAE

Epilobium

Epilobium angustifolium

EVENING-PRIMROSE FAMILY

Willow-herb

Fireweed; Great Willow-herb

ARALIACEAE

Aralia

Aralia nudicaulis

Aralia hispida

Wild Sarsaparilla

Bristly Sarsaparilla

UMBELLIFERAE (APIACEAE)

Heracleum

Heracleum maximum

CARROT OR PARSLEY FAMILY

Common Cowparsnip

130. **CORNACEAE**

Cornus

Cornus canadensis

Cornus stolonifera

DOGWOOD FAMILY

Dogwood

Bunchberry; Dwarf Cornel

Red-osier

DICOTYLEDONEAE (see Michigan Flora, Part 3)

PYROLACEAE

Pyrola

Pyrola elliptica

SHINLEAF OR WINTERGREEN FAMILY

Shinleaf; *Pyrola*

ERICACEAE

Ledum

Ledum groenlandicum

Chamaedaphne

Chamaedaphne calyculata

Vaccinium

Vaccinium myrtilloides

Vaccinium angustifolium

Gaultheria

Gaultheria procumbens

Gaultheria hispidula

Arctostaphylos

Arctostaphylos uva-ursi

HEATH FAMILY

Labrador-tea

Leatherleaf

Blueberries and Cranberries

Velvetleaf or Canada Blueberry

Low Sweet Blueberry

Teaberry; Wintergreen

Creeping Snowberry

Bearberry; Kinnikinnick

PRIMULACEAE

Lysimachia

Lysimachia terrestris

Trientalis

Trientalis borealis

PRIMROSE FAMILY

Loosestrife

Swamp-candles

Star-flower

OLEACEAE

Fraxinus

Fraxinus pensylvanica

OLIVE FAMILY

Ash

Green Ash

ASCLEPIADACEAE

Asclepias

Asclepias incarnata

MILKWEED FAMILY

Milkweed

Swamp Milkweed

LABIATAE (LAMIACEAE)

Lycopus

Lycopus uniflorus

Lycopus americanus

Scutellaria

Scutellaria lateriflora

Clinopodium

Clinopodium vulgare

Galeopsis

Galeopsis tetrahit

MINT FAMILY

Bugleweed; Water-horehound

Water Horehound

Skullcap

Blue Skullcap

Wild-basil

Hemp-nettle

SCROPHULARIACEAE

Verbascum

Verbascum thapsus

Veronica

Veronica serpyllifolia

SNAPDRAGON FAMILY

Mullien

Mullien; Flannel Plant

Speedwell; Brooklime

Melampyrum	
Melampyrum lineare	Narrowleaf Cowwheat
RUBIACEAE	MADDER FAMILY
Galium	Bedstraw
Galium triflorum	
Galium asprellum	
CAPRIFOLIACEAE	HONEYSUCKLE FAMILY
Symphoricarpos	Snowberry
Symphoricarpos albus	Snowberry
Lonicera	Honeysuckle
Lonicera dioica	Glaucous Honeysuckle
Sambucus	Elderberry
Sambucus racemosa	Red-berried Elder; Red Elderberry
Linnaea	
Linnaea borealis	Twinflower
Diervilla	
Diervilla lonicera	Bush-honeysuckle
CAMPANULACEAE	BELLFLOWER FAMILY
Campanula	Bellflower
Campanula rotundifolia	Bluebell Bellflower
Campanula rapunculoides	Rampion Bellflower
Lobelia	
Lobelia kalmii	Ontario Lobelia
COMPOSITAE (ASTERACEAE)	ASTER OR DAISY FAMILY
<u>Group A</u>	
Hieracium	Hawkweed
Hieracium aurantiacum	Orange Hawkweed; Devil's-paintbrush
Hieracium florentinum	King Devil; Yellow Hawkweed
Hieracium canadense	Canadian Hawkweed
Lactuca	
Lactuca biennis	Tall Blue Lettuce
<u>Group B</u>	
Chrysanthemum	Chrysanthemum
Chrysanthemum leucanthemum	Ox-eye Daisy
Achillea	Yarrow
Achillea millefolium	Yarrow; Milfoil
Tanacetum	Tansy
Tanacetum vulgare	
<u>Group C</u>	
Eupatorium	
Eupatorium maculatus	Spotted Joe Pye Weed
Euthamia	
Euthamia graminifolia	Flat-topped, Bushy, or Grass-leaved
Goldenrod	
Solidago	Goldenrod
Solidago canadensis	Canada Goldenrod
Solidago hispida	Hairy Goldenrod

Oligoneuron

Oligoneuron album

Aster

Aster macrophyllus

Arctium

Arctium minus

Carduus

Carduus acanthoides

Cirsium

Cirsium arvense

Anaphalis

Anaphalis margaritacea

Conyza

Conyza canadensis

Prenanthes

Prenanthes alba

Taraxacum

Taraxacum officinale

Prairie Goldenrod

Aster

Large- or Big-leaved Aster

Burdock

Common Burdock

Plumeless Thistle

Thistle

Canada or Field Thistle

Pearly Everlasting

Horseweed

White Rattlesnake Root

Common Dandelion

Herptofauna of the Huron Islands

The primary data sources used was: Corin, C.W. 1976. The land vertebrates of the Huron Islands, Lake Superior. The Jack-Pine Warbler 54:138-147. Other miscellaneous refuge notes were also used.

Common Name	Scientific Name	Habitat(s)
Northern red-bellied snake	<i>Storeria occipitomaculata occipitomaculata</i>	Permanent wetlands, rivers and streams, forests, grasslands and savannas, agricultural areas, urban areas
Eastern garter snake	<i>Thamnophis sirtalis sirtalis</i>	Ephemeral wetlands, permanent wetlands, rivers and streams, forests, grasslands and savannas, caves and springs, agricultural areas, urban areas
Northern spring peeper	<i>Pseudacris crucifer crucifer</i>	Permanent wetlands, forests, grasslands and savannas
Green frog	<i>Rana clamitans melanota</i>	Ephemeral wetlands, permanent wetlands, forests, grasslands and savannas
Eastern American toad	<i>Bufo americanus americanus</i>	Ephemeral wetlands, permanent wetlands, rivers and streams, forests, grasslands and savannas, caves and springs, agricultural areas, urban areas
Ambystoma salamander	<i>Ambystoma spp.</i>	Ephemeral wetlands, permanent wetlands, forests, grasslands and savannas

Bird Species of the Huron Islands

The primary data sources used was: Corin, C.W. 1976. The land vertebrates of the Huron Islands, Lake Superior. *The Jack-Pine Warbler* 54:138-147. Other miscellaneous refuge notes were also used.

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999).

Common Name	Scientific Name	Abundance by Species that are Possible, Probable, or Confirmed Breeders				Preferred Habitat(s)
		Abundant	Common	Uncommon	Occasional-Rare-Vagrant Non-Breeders	
Common Loon ^{1,2,3}	<i>Gavia immer</i>		X			OWA
Red-necked Grebe	<i>Podiceps grisegena</i>				X	OWA
Double-crested Cormorant ¹	<i>Phalacrocorax auritus</i>				X	OWA
Great Blue Heron	<i>Ardea herodias</i>		X			OWA, OWE
Canada Goose ¹	<i>Branta canadensis</i>		X			OWA
American Black Duck ¹	<i>Anas rubripes</i>		X			OWA
Mallard ¹	<i>Anas platyrhynchos</i>		X			OWA, OWE
Red-breasted Merganser	<i>Mergus serrator</i>		X			OWA, OWE
Common Merganser	<i>Mergus merganser</i>		X			OWA, OWE
Osprey ³	<i>Pandion haliaetus</i>		X			OWA
Bald Eagle ^{1,3}	<i>Haliaeetus leucocephalus</i>		X			OWA
Peregrine Falcon ^{1,2,3}	<i>Falco peregrinus</i>					OWE, GRA, HAY
Merlin	<i>Falco columbarius</i>					
American Kestrel	<i>Falco sparverius</i>					GRA, HAY, OLD
Killdeer	<i>Charadrius vociferus</i>			X		GRA, HAY, OLD
Spotted Sandpiper	<i>Actitis macularius</i>		X			SHO
Wilson's Phalarope	<i>Steganopus tricolor</i>				X	
Herring Gull	<i>Larus argentatus</i>	X				OWA
Caspian Tern ^{2,3}	<i>Hydroprogne caspia</i>					OWA
Chimney Swift	<i>Chaetura pelagica</i>		X			RES
Common Nighthawk	<i>Caprimulgus vociferus</i>			X		DCF, GRA, HAY, OLD
Ruby-throated Hummingbird	<i>Archilochus colubris</i>		X			DCF, DMF, MCF, MMF, WCF, WMF, RES
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>					DCF, DMF, MCF, MMF, WCF, WMF
Downy Woodpecker	<i>Picoides pubescens</i>					DCF, DMF, MCF, MMF, WCF, WMF
Northern Flicker ¹	<i>Colaptes auratus</i>					DCF, DMF, MCF, MMF, WCF, WMF
Pileated Woodpecker	<i>Dryocopus pileatus</i>					DCF, DMF, MCF, MMF, WCF, WMF
Eastern Kingbird	<i>Tyrannus tyrannus</i>		X			GRA, HAY, OLD
Eastern Wood-Pewee	<i>Contopus virens</i>					DCF, DMF, MCF, MMF, WCF, WMF
Yellow-bellied Flycatcher ²	<i>Empidonax flaviventris</i>		X			DCF, DMF, MCF, MMF, WCF, WMF
Great Crested Flycatcher	<i>Myiarchus crinitus</i>			X		DCF, DMF, MCF, MMF, WCF, WMF

³Habitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; DMF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water

(Continued)

¹Region 3 Conservation Priorities (FWS 2002)²Regional Forester Sensitive (USFS 2003)³Michigan Special Animal (1999).

Common Name	Scientific Name	Abundance by Species that are Possible, Probable, or Confirmed Breeders in Schoolcraft County				Preferred Habitat(s)
		Abundant	Common	Uncommon	Occasional-Rare-Vagrant Non-Breeders	
Least Flycatcher	<i>Empidonax minimus</i>		X			GRA, HAY, OLD
Eastern Phoebe	<i>Sayornis phoebe</i>					GRAY, HAY, OLD, RES
Blue-headed Vireo	<i>Vireo solitarius</i>					DCF, DMF, MCF, MMF, WCF, WMF
Red-eyed Vireo	<i>Vireo olivaceus</i>	X				DCF, DMF, MCF, MMF, WCF, WMF
Blue Jay	<i>Cyanocitta cristata</i>			X		WCF, WMF
American Crow	<i>Corvus brachyrhynchos</i>			X		GRAY, HAY, OLD, RES
Common Raven	<i>Corvus corax</i>			X		DCF, DMF, MCF, MMF, WCF, WMF
Tree Swallow	<i>Tachycineta bicolor</i>	X				GRA, HAY, OLD
Barn Swallow	<i>Hirundo rustica</i>	X				GRA, HAY, RES, OLD
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>		X			GRA, HAY, RES, OLD
Purple Martin	<i>Progne subis</i>				X	RES
Black-capped Chickadee	<i>Poecile atricapillus</i>		X			DCF, DMF, MCF, MMF, WCF, WMF
Red-breasted Nuthatch	<i>Sitta canadensis</i>	X				DCF, DMF, WCF, WMF
House Wren	<i>Euphagus cyanocephalus</i>				X	DCF, GRA, HAY, OLD
Winter Wren	<i>Troglodytes troglodytes</i>			X		WCF, WMF
Golden-crowned Kinglet	<i>Regulus satropa</i>					
Ruby-crowned Kinglet	<i>Regulus calendula</i>		X			WCF
American Robin	<i>Turdus migratorius</i>		X			DCF, DMF, WCF, WMF, RES
Swainson's Thrush ²	<i>Catharus ustulatus</i>		X			WCF, WMF
European Starling	<i>Sturnus vulgaris</i>					RES
Cedar Waxwing	<i>Bombycilla cedrorum</i>	X				
Nashville Warbler	<i>Vermivora ruficapilla</i>		X			DCF, DMF, MCF, MMF, WCF, WMF
Magnolia Warbler	<i>Dendroica magnolia</i>	X				DCF, DMF, MCF, MMF, WCF, WMF
Yellow-rumped Warbler	<i>Dendroica coronata</i>	X				DCF, DMF, MCF, MMF, WCF, WMF
Black-throated Green Warbler	<i>Dendroica virens</i>			X		DCF, DMF, MCF, MMF, WCF, WMF
Pine Warbler	<i>Dendroica pinus</i>					
Ovenbird	<i>Seiurus aurocapillus</i>			X		DCF, DMF, MCF, MMF, WCF, WMF
Blackburnian Warbler	<i>Dendroica fusca</i>		X			MCF, MMF

³Habitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; DMF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water

(Continued)

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999).

Common Name	Scientific Name	Abundance by Species that are Possible, Probable, or Confirmed Breeders in Schoolcraft County				Preferred Habitat(s)
		Abundant	Common	Uncommon	Occasional-Rare-Vagrant Non-Breeders	
Black-and-White Warbler	<i>Mniotilta varia</i>	X				MCF, MMF, WCF, WMF
Canada Warbler ¹	<i>Wilsonia canadensis</i>	X				MDF, WMF, MMF
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>		X			SUP
Mourning Warbler	<i>Oporornis philadelphia</i>			X		SUP
Tennessee Warbler	<i>Vermivora peregrina</i>			X		WCF, WMF
Northern Parula	<i>Parula americana</i>			X		WCF, WMF
Blackpoll Warbler	<i>Dendroica striata</i>				X	
American Redstart	<i>Setophaga ruticilla</i>	X				SUP, SWE
Common Yellowthroat	<i>Geothlypis trichas</i>		X			SWE
Northern Cardinal	<i>Cardinalis cardinalis</i>				X	RES
Indigo Bunting	<i>Passerina cyanea</i>			X		SUP, MMF
Dark-eyed Junco	<i>Junco hyemalis</i>					DCF, WCF
White-throated Sparrow	<i>Zonotrichia albicollis</i>	X				
Chipping Sparrow	<i>Spizella passerina</i>		X			SUP, DCF, OLD
Song Sparrow	<i>Melospiza melodia</i>	X				SUP, SWE, OLD
Red-winged Blackbird	<i>Agelaius phoeniceus</i>			X		OWE
Common Grackle	<i>Quiscalus quiscula</i>			X		OWE
Bobolink ^{1,2}	<i>Dolichonyx oryzivorus</i>				X	GRA, HAY, OLD, PAS
White-winged Crossbill	<i>Loxia leucoptera</i>					DCF, DMF, WCF, WMF
Purple Finch	<i>Carpodacus purpureus</i>			X		DCF, DMF, MCF, MMF, WCF, WMF, RES
Pine Siskin	<i>Carduelis pinus</i>			X		DCF, DMF, MCF, MMF, WCF, WMF, RES

^aHabitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; MDF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water

Mammals of the Huron Islands

Mammals of Seney National Wildlife Refuge listed phylogenetically.

The primary data sources used was: Corin, C.W. 1976. The land vertebrates of the Huron Islands, Lake Superior. The Jack-Pine Warbler 54:138-147. Other miscellaneous refuge notes were also used.

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999)

Common Name	Scientific Name	Ordinal Abundance	Habitat(s) ^a	Habitat(s) ^b
Red bat	<i>Lasiurus borealis</i>	Unknown	Leafy trees (elms, maples) or in conifers	DDF, MDF, DMF, DCF, MCF
Snowshoe hare	<i>Lepus americanus</i>	Abundant	Heavily forested areas with dense understory. Thrives in coniferous and mixed woods including cedar bogs and spruce swamps.	DMF, MMF, MCF, DCF
Woodland deer mouse	<i>Peromyscus maniculatus gracilis</i>	Abundant	Forested habitats, shrubby areas, regenerating clear-cuts, and recent burns.	SUP, DCF, MCF, DDF, MDF, DMF, MMF
Red-backed vole	<i>Clethrionomys gapperi</i>	Common	Coniferous forests are preferred, deciduous or mixed coniferous/deciduous woods acceptable with standing water nearby.	MDF, MMF, MCF, SWE, SHO
Meadow vole	<i>Microtus pennsylvanicus</i>	Common	Moist, grassy fields and also frequents marshes and bog thick with greases, sedges and rushes.	SWE, OLD, OWE
Coyote	<i>Canis latrans</i>	Common	Prairies, brushy area, wooded edges	DDF, MDF, DMF, MMF, DCF, MCF, PAS, GRA, HAY
Black bear ²	<i>Ursus americanus</i>	Common	Dense coniferous or deciduous woods having a thick understory.	DDF, MDF, DMF, MMF, DCF, MCF
Raccoon	<i>Procyon lotor</i>	Common	In or near wooded areas, often near a stream or pond. More abundant in hardwood stands than coniferous	DDF, MDF, DMF, MMF
<p>^aHabitat information obtained from: Kurta (2001). ^bHabitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; MDF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water</p>				

Michigan Islands NWR

Plants of Gull Island

Plants of Gull Island (Michigan Islands National Wildlife Refuge) according to the ongoing studies of Leuck and Lueck. Where possible, taxonomy has been updated and generally follows *Gray's Manual of Botany*; nomenclature follows Cobb's *A Field Guide to the Ferns* and *Gray's Manual of Botany*.

Abies

Abies balsamea

Balsam Fir

Thuja

Thuja occidentalis

Arbor Vitae; White Cedar

Juniperus

Juniperus horizontalis

Creeping Juniper

Maianthemum

Maianthemum canadense

Canada lily, Canada mayflower

Alnus

Alnus rugosa

Speckled Alder; Tag Alder

Betula

Betula papyrifera

Paper, White, or Canoe Birch

Prunus

Prunus virginiana

Choke Cherry

Potentilla

Potentilla anserina

Silverweed

Toxicodendron

Toxicodendron radicans

Poison-ivy

Rhus

Rhus typhina

Staghorn Sumac

Acer

Acer saccharum

Sugar Maple or Hard Maple

Hypericum

Hypericum perforatum

Common St. Johnswort

Verbascum

Verbascum thapsus

Mullien; Flannel Plant

Cirsium

<i>Cirsium vulgare</i>	Bull Thistle
OTHER TAXA	
<i>Urtica dioica</i>	Common Nettle
<i>Aquilegia spp.</i>	Columbine
<i>Solidago spp.</i>	Goldenrod
<i>Trillium spp.</i>	Trillium
<i>Viola spp.</i>	Violet
<i>Myosotis spp.</i>	Forget-me-not
<i>Impatiens spp.</i>	Jewelweed
<i>Descurainia spp.</i>	Tansymustard
<i>Aralia nudicaulis</i>	Wild Sarsaparilla
<i>Galium spp.</i>	Bedstraw
<i>Acer spicatum</i>	Mountain maple
<i>Sorbus Americana</i>	Mountain ash
<i>Prunus serotina</i>	Black Cherry
<i>Physocarpus opulifolius</i>	Ninebark
<i>Taxus canadensis</i>	Canada Yew
<i>Heracleum maximum</i>	Cow-parsnip
<i>Botrypus virginianus</i>	Rattlesnake fern
<i>Lycopodiaceae</i> (2 spp.)	
<i>Dropteris spp.</i>	Wood fern
<i>Streptopus spp.</i>	White twisted-stalk
<i>Lonicera spp.</i>	Honeysuckle
<i>Sambucus spp.</i>	Red elder, Red-berried elder
<i>Thalictrum spp.</i>	Meadow rue
<i>Clintonia borealis</i>	Blue-bead lily

<i>Maianthemum racemosum</i>	False Solomon's seal
<i>Fraxinus pennsylvanica</i>	Green ash
<i>Cornus sericea</i>	Red-osier dogwood
<i>Viburnum trilobum</i>	High-bush cranberry
<i>Viburnum acerifolium</i>	Maple-leaf viburnum
<i>Sedum acre</i>	Stonecrop
<i>Cakile edentula</i>	Sea-rocket

Plants of Hat Island

Plant species list based on the work of F.C. Gates (1950). *Transactions of the Kansas Academy of Science* **53**:217-228.

Genus species

Achillea millefolium
Agrostis capillaris
Amelanchier canadensis
Aquilegia canadensis
Arabis glabra
Arctium minus
Asclepias syriaca
Bromus tectorum
Betula papyrifera
Brassica nigra
Campanula rotundifolia
Capnoides sempervirens
Capsella burs-pastoris
Carex peckii
Carex sterilis
Celastrus scandens
Cerastium arvense
Chenopodium album
Ceratodon purpureus
Chrysanthemum leucanthemum pinnatifidum
Cirsium vulgare
Comandra richardsiana
Cornus stolonifera
Cryptotaenia canadensis
Descurainia pinnata
Diervilla lonicera
Dryopteris spp.
Elymus canadensis
Epilobium angustifolium
Euphorbia esula
Fragaria virginiana
Galium aparine
Geranium robertianum
Heracleum lanatum
Juncus arcticus littoralis
Lepidium campestre
Lonicera dioica
Lychnis dioica
Milium effusum
Nepeta cataria
Oenothera biennis
Pastinaca sativa
Phleum pratense
Poa compressa

Common

Yarrow
 Colonial bentgrass
 Canadian serviceberry
 Canadian Columbine
 Tower mustard
 Burrweed
 Common milkweed
 Drooping brome or Cheat grass
 Paper birch
 Black mustard
 Harebell
 Pale corydalis
 Shepherd's purse
 Peck's sedge
 Fen Star Sedge
 American bittersweet
 Field chickweed
 White goosefoot
 Ceratodon moss or Fire moss
 Ox-eyed daisy
 Spear thistle or Bull thistle
 False toadflax
 Red osier dogwood
 Honewort
 Western tansymustard
 Northern bush-honeysuckle
 Wood ferns
 Canada wild rye
 Fireweed
 Green spurge or Leafy spurge
 Virginia Strawberry
 Cleavers or Clivers
 Robert geranium
 Cow parsnip
 Mountain rush
 Field pepperweed
 Limber honeysuckle
 Red Champion
 American milletgrass
 Catnip
 Common evening primrose or Evening star
 Parsnip
 Timothy grass
 Canada bluegrass or flattened meadowgrass

<i>Poa pratensis</i>	Meadow Grass or Kentucky bluegrass
<i>Polygonum convolvulus</i>	Black-bindweed or Wild buckwheat
<i>Polygonum ramosissimum</i>	Bushy knotweed
<i>Populus tremuloides</i>	Quaking aspen
<i>Argentina anserina</i>	Common silverweed
<i>Potentilla norvegica</i>	Rough cinquefoil
<i>Prunus pensylvanica</i>	Pin cherry or Fire cherry
<i>Prunus pumila</i>	Sand cherry
<i>Prunus virginiana</i>	Choke Cherry
<i>Ranunculus abortivus</i>	Littleleaf buttercup
<i>Toxicodendron radicans</i>	Poison ivy
<i>Ribes cynosbati</i>	Eastern prickly gooseberry
<i>Rosa blanda</i>	Smooth rose
<i>Rubus strigosus</i>	American Red Raspberry
<i>Rumex crispus</i>	Curled dock or yellow dock
<i>Sambucus racemosa</i>	Red elderberry
<i>Satureja vulgaris</i>	Wild basil
<i>Silene antirrhina</i>	Sleepy silene or sleepy catchfly
<i>Maianthemum stellatum</i>	Star-flowered or False Solomon's seal
<i>Solidago canadensis</i>	Canada goldenrod
<i>Sorbus americana</i>	American mountain-ash
<i>Taraxacum officinale</i>	Common Dandelion
<i>Thuja occidentalis</i>	Northern White Cedar
<i>Tragopogon dubius</i>	Western Salsify
<i>Verbascum thapsus</i>	Common Mullein
<i>Viburnum opulus</i>	Guelder rose or Water elder

Avian Species (Beaver Island Archipelago)

Avian Species on Seney NWR – Michigan Islands Satellite Refuges
Beaver Archipelago, 2000-2009
Nancy E. Seefelt
Central Michigan University

Gull Island

Common Loon (offshore)	Blackburnian Warbler
Herring Gull	Black-throated Green Warbler
Ring-billed Gull	Common Yellowthroat
Caspian Tern	American Redstart
Common Tern	Gray Catbird
Double-crested Cormorant	Winter Wren
American White Pelican (offshore, flying)	House Wren
Common Merganser	Black-capped Chickadee
Red-breasted Merganser	Veery
Mallard	Hermit Thrush
White-winged Scoter (offshore)	Yellow Warbler
Canada Goose	Yellow-rumped Warbler
Mute Swan	Magnolia Warbler
American Bittern	
Great Blue Heron	
Black-crowned Night-Heron	
Sora	
American Woodcock	
Least Sandpiper	
Solitary Sandpiper	
Spotted Sandpiper	
Killdeer	
Semipalmated Plover	
Ruddy Turnstone	
Mourning Dove	
Bald Eagle	
Northern Harrier	
Merlin	
Great Horned Owl	
Belted Kingfisher	
Least Flycatcher	
Eastern Phoebe	
American Crow	
Common Raven	
European Starling	
Red-winged Blackbird	
Common Grackle	
American Goldfinch	
Indigo Bunting	
White-throated Sparrow	
Song Sparrow	
Chipping Sparrow	
Cedar Waxwing	
Red-eyed Vireo	
Black-and-white Warbler	
Nashville Warbler	

Pismire Island

Common Loon (offshore)
Herring Gull
Ring-billed Gull
Caspian Tern
Common Tern
Double-crested Cormorant
American White Pelican
Common Merganser
Red-breasted Merganser
Mallard
Greater Scaup (offshore)
Lesser Scaup (offshore)
Ring-necked Duck (offshore)
Common Goldeneye (offshore)
Bufflehead (offshore)
White-winged Scoter (offshore)
Canada Goose
Mute Swan
Great Blue Heron
American Coot (offshore)
Least Sandpiper
Spotted Sandpiper
Black-bellied Plover
Killdeer
Ruddy Turnstone
Bald Eagle (flying, also dead)
Osprey (flying)
American Crow
Red-winged Blackbird
Common Grackle
Song Sparrow
Yellow Warbler
Common Yellowthroat

Hat Island

Common Loon (offshore)
Herring Gull
Ring-billed Gull
Caspian Tern
Common Tern
Double-crested Cormorant
American White Pelican
Common Merganser
Red-breasted Merganser
Mallard
Greater Scaup (offshore)
Common Goldeneye (offshore)
Bufflehead (offshore)
White-winged Scoter (offshore)
Canada Goose
Mute Swan
Great Blue Heron
Black-crowned Night-heron
Least Sandpiper
Solitary Sandpiper
Spotted Sandpiper
Unidentified Sandpiper
Black-bellied Plover
Semipalmated Plover
Killdeer
Ruddy Turnstone
Snowy Owl (dead)
Red-winged Blackbird
Common Grackle
Song Sparrow
Yellow Warbler
Common Yellowthroat

Shoe Island

Herring Gull
Ring-billed Gull
Double-crested Cormorant
Least Sandpiper
Unidentified Sandpiper
Black-bellied Plover
Ruddy Turnstone

Gull Island Plants

Gull Island Vegetation Additional Species—2009

These are species observed in addition to the species recorded in the 2007 report. We established two more transects on the west side of the island.

St. Johnswort
columbine
poison ivy
staghorn sumac
forget-me-not
bull thistle
jewelweed
mullein
goldenrod
tansy mustard
trillium
violet (unidentified)
wild sarsaparilla
fern (unidentified)
bedstraw
mountain maple
sugar maple

Bird Species (Gull, Hat, Shoe, and Pismire Islands)

Birds of Michigan Islands National Wildlife Refuge (Gull, Hat, Shoe, and Pismire Islands) by island (N. Seefelt, Central Michigan University, 2000-2009).

This list is not comprehensive as most survey work has been done during the breeding season and not year-round. Areas around these islands are known to support large numbers of waterfowl (especially northern diving species) during migration. Source citations are shown by (Author Year).

¹Region 3 Conservation Priorities (FWS 2002)

²Regional Forester Sensitive (USFS 2003)

³Michigan Special Animal (1999).

Common Name	Scientific Name	Gull Island	Hat Island	Shoe Island	Pismire Island	Preferred Habitat(s)
Common Loon ^{1,2,3}	<i>Gavia immer</i>	x	x		x	OWA
American White Pelican	<i>Pelecanus erythrorhynchos</i>	x	x		x	OWA
Double-crested Cormorant ¹	<i>Phalacrocorax auritus</i>	x	x	x	x	OWA
American Bittern ^{1,3}	<i>Botaurus lentiginosus</i>	x				OWE
Black-crowned Night Heron ^{1,2,3}	<i>Nycticorax nycticorax</i>	x	x			OWE
Great Blue Heron	<i>Ardea herodias</i>	x	x		x	OWA, OWE
Mute Swan	<i>Cygnus olor</i>	x	x		x	OWA
Canada Goose ¹	<i>Branta canadensis</i>	x	x		x	OWA
Greater Scaup	<i>Aythya marila</i>		x		x	
Lesser Scaup ¹	<i>Aythya affinis</i>				x	OWA
White-winged Scoter	<i>Melanitta nigra</i>	x	x		x	OWA
Bufflehead	<i>Bucephala albeola</i>		x		x	OWA
Common Goldeneye	<i>Bucephala clangula</i>		x		x	OWA
Mallard ¹	<i>Anas platyrhynchos</i>	x	x		x	OWA, OWE
Ring-necked Duck	<i>Aythya collaris</i>				x	OWA, OWE
Red-breasted Merganser	<i>Mergus serrator</i>	x	x		x	OWA, OWE
Common Merganser	<i>Mergus merganser</i>	x	x		x	OWA, OWE
Osprey ³	<i>Pandion haliaetus</i>				x	OWA
Bald Eagle ^{1,3}	<i>Haliaeetus leucocephalus</i>	x			x	OWA
Merlin ³	<i>Falco columbarius</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Northern Harrier ^{1,2,3}	<i>Circus cyaneus</i>	x				OWE, GRA, HAY, OLD
American Coot	<i>Fulica americana</i>				x	OWA, OWE
Sora	<i>Porzana carolina</i>	x				OWE
Killdeer	<i>Charadrius vociferus</i>	x	x		x	GRA, HAY, OLD
American Woodcock ¹	<i>Scolopax minor</i>	x				SUP
Solitary Sandpiper	<i>Tringa solitaria</i>	x	x			SHO
Spotted Sandpiper	<i>Actitis macularius</i>	x	x		x	SHO
Least Sandpiper	<i>Calidris minutilla</i>	x	x	x	x	SHO
Black-bellied Plover	<i>Pluvialis squatarola</i>		x	x	x	OWE
Semipalmated Plover	<i>Charadrius semipalmatus</i>	x	x			OWE
Ruddy Turnstone	<i>Arenaria interpres</i>	x	x	x	x	SHO
Bonaparte's Gull	<i>Larus philadelphia</i>					OWA
Ring-billed Gull	<i>Larus delawarensis</i>	x	x	x	x	OWA
Herring Gull	<i>Larus argentatus</i>	x	x	x	x	OWA
Caspian Tern ^{2,3}	<i>Hydroprogne caspia</i>	x	x		x	OWA
Common Tern ^{1,2,3}	<i>Sterna hirundo</i>	x	x		x	OWA
Mourning Dove	<i>Zenaidura macroura</i>	x				RES
Great Horned Owl	<i>Bubo virginianus</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Snowy Owl	<i>Bubo scandiacus</i>		x			OWE, GRA, HAY, OLD

Belted Kingfisher	<i>Megasceryle alcyon</i>	x				OWA, OWE
Least Flycatcher	<i>Empidonax minimus</i>	x				GRA, HAY, OLD
Eastern Phoebe	<i>Sayornis phoebe</i>	x				GRAY, HAY, OLD, RES
Red-eyed Vireo	<i>Vireo olivaceus</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
American Crow	<i>Corvus brachyrhynchos</i>	x			x	GRAY, HAY, OLD, RES
Common Raven	<i>Corvus corax</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Black-capped Chickadee	<i>Poecile atricapillus</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
House Wren	<i>Euphagus cyanocephalus</i>	x				DCF, GRA, HAY, OLD
Winter Wren	<i>Troglodytes troglodytes</i>	x				WCF, WMF
Veery	<i>Catharus fuscescens</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Hermit Thrush	<i>Catharus guttatus</i>	x				DCF, DMF
Gray Catbird	<i>Dumetella carolinensis</i>	x				SWE, SUP
European Starling	<i>Sturnus vulgaris</i>	x				RES
Cedar Waxwing	<i>Bombycilla cedrorum</i>	x				
Nashville Warbler	<i>Vermivora ruficapilla</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Magnolia Warbler	<i>Dendroica magnolia</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Yellow-rumped Warbler	<i>Dendroica coronata</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Black-throated Green Warbler	<i>Dendroica virens</i>	x				DCF, DMF, MCF, MMF, WCF, WMF
Blackburnian Warbler	<i>Dendroica fusca</i>	x				MCF, MMF
Black-and-White Warbler	<i>Mniotilta varia</i>	x				MCF, MMF, WCF, WMF
Yellow Warbler	<i>Dendroica petechia</i>	x	x		x	OWE, SWE
American Redstart	<i>Setophaga ruticilla</i>	x				SUP, SWE
Common Yellowthroat	<i>Geothlypis trichas</i>	x	x		x	SWE
Indigo Bunting	<i>Passerina cyanea</i>	x				SUP, MMF
Chipping Sparrow	<i>Spizella passerina</i>	x				SUP, DCF, OLD
White-throated Sparrow	<i>Zonotrichia albicollis</i>	x				DCF, DMF
Song Sparrow	<i>Melospiza melodia</i>	x	x		x	SUP, SWE, OLD
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	x	x		x	OWE
Common Grackle	<i>Quiscalus quiscula</i>	x	x		x	OWE
American Goldfinch	<i>Carduelis tristis</i>	x				SUP, RES

^aHabitat Definitions (Brewer et al. 1991): DDF= Dry Deciduous Forest or Savanna; MDF= Mesic Deciduous Forest; WDF= Wet Deciduous Forest; DMF= Dry Mixed Forest or Savanna; MMF= Mesic Mixed Forest; WMF=Wet Mixed Forest; DCF=Dry Coniferous Forest; MCF=Mesic Coniferous Forest; WCF= Wet Coniferous Forest; SUP= Shrub Uplands; SWE= Shrub Wetland; OLD= Old Field; GRA= Grassland ; PAS= Pasture; HAY= Hayfield; OWE=Open Wetland; SHO= Shoreland; OWA= Open Water