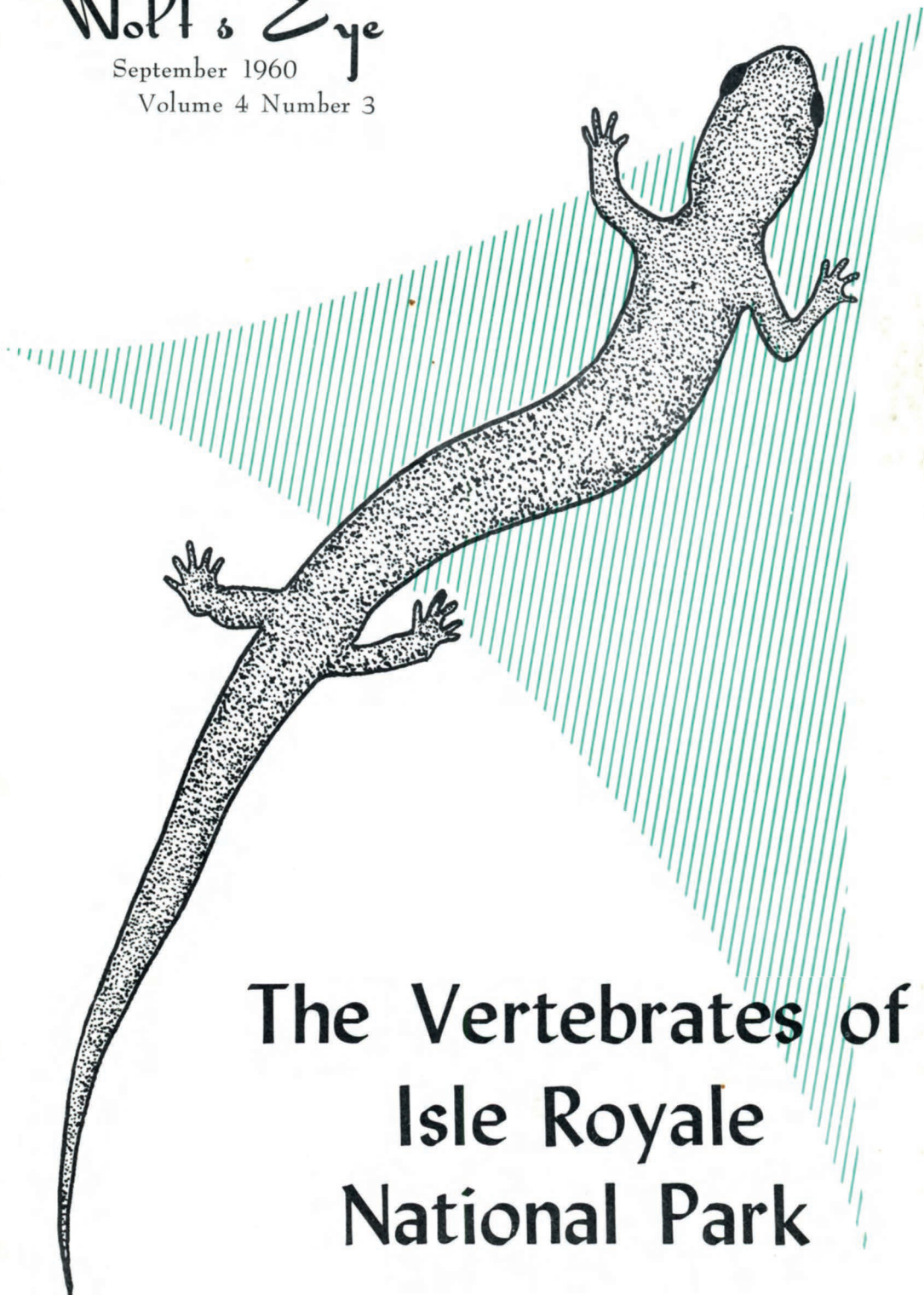


Wolff's Eye

September 1960

Volume 4 Number 3



The Vertebrates of Isle Royale National Park

The Vertebrates of Isle Royale National Park

by
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In the preparation of this paper the authors have attempted to provide a complete listing of the vertebrates known to occur in Isle Royale National Park. The checklists which follow reflect current knowledge of what vertebrate forms exist in the park. Since the vertebrates as a group have been only incompletely studied here, the checklists must not be assumed to be complete in any sense. Many species of vertebrates undoubtedly exist on Isle Royale, but have yet to be recorded for the island. It is sincerely hoped that these annotated checklists and supplementary listings will aid and stimulate future faunistic investigation within the park.

Fishes

The following checklist of fishes is based entirely on the work of Hubbs and Lagler (Hubbs, C. L. & Lagler, K. F.; *Fishes of Isle Royale Lake Superior, Michigan*; *Papers Mich. Acad. Sci., Arts, & Letters*, Vol. 33). Scientific nomenclature for the list follows: Blair, W. F., Blair, A. P., Brodkorb, P., Cagle, F. R. & Moore, G. A.; 1957; *Vertebrates of the United States*; McGraw-Hill Book Co., Inc., New York.

A very fine but simple key is currently available to aid in the identification of park fishes. This is, Lagler, K. F.

& Goldman, C. R.; 1959; Fishes and Sport Fishing in Isle Royale National Park; Isle Royale Natural History Association.

In the following list an asterisk (*) indicates species known to occur only in Isle Royale National Park.

Sea Lamprey	<u>Petromyzon marinus</u>
Lake Sturgeon	<u>Acipenser fulvescens</u>
Common Rainbow Trout (Steelhead)	<u>Salmo gairdneri irideus</u>
Common Brook Trout	<u>Salvelinus fontinalis fontinalis</u>
Common Lake Trout	<u>Salvelinus namaycush</u> <u>namaycush</u>
Siscowet Lake Trout	<u>Salvelinus namaycush</u> <u>siscowet</u>
Lake Desor Cisco *	<u>Coregonus artedii subsp.</u>
Sargent Lake Cisco *	<u>Coregonus artedii sargenti</u>
Lake Superior Cisco *	<u>Coregonus artedii arcturus</u>
Siskiwit Lake Cisco *	<u>Coregonus bartletti</u>
Bluefin	<u>Coregonus nigripinnis</u> <u>cyanopterus</u>
Great Lakes Whitefish	<u>Coregonus clupeaformis</u> <u>clupeaformis</u>
Siskiwit Lake Whitefish *	<u>Coregonus clupeaformis subsp.</u>
Lake Desor Whitefish *	<u>Coregonus clupeaformis</u> <u>dustini</u>
Round Whitefish	<u>Prosopium cylindraceum</u> <u>quadrilaterale</u>
Pigmy Whitefish	<u>Prosopium coulteri</u>
American Smelt	<u>Osmerus mordax</u>
Common White Sucker	<u>Catostomus commersonnii</u> <u>commersonnii</u>
Longnose Sucker	<u>Catostomus catostomus</u> <u>catostomus</u>
Northern Creek Chub	<u>Semotilus atromaculatus</u> <u>atromaculatus</u>
Northern Pearl Dace	<u>Semotilus margarita</u> <u>nachtriebi</u>
Harvey Lake Pearl Dace *	<u>Semotilus margarita koelzi</u>
Northern Chub	<u>Hybopsis plumbea</u>
Great Lakes Longnose Dace	<u>Rhinichthys cataractae</u> <u>cataractae</u>
Finescale Dace	<u>Chrosomus neogaeus</u>

Northern Redbelly Dace
 Western Golden Shiner

 Emerald Shiner
 Northern Spottail Shiner
 Blackchin Shiner
 Northern Mimic Shiner
 Northern Blacknose Shiner
 Harvey Lake Blacknose
 Shiner *
 Northern Flathead Minnow
 Harvey Lake Flathead
 Minnow *
 Northern Pike
 Great Lakes Muskellunge
 American Burbot
 Troutperch
 Yellow Perch
 Yellow Walleye
 Northern Logperch
 Iowa Darter
 Pumpkinseed
 Four Horned Sculpin
 Spoonhead Sculpin
 Mottled Sculpin
 Common Slimy Sculpin
 Brook Stickleback
 Ninespine Stickleback

Chrosomus eos
Notemigonus crysoleucas
 auratus
Notropis atherinoides
Notropis hudsonius
Notropis heterodon
Notropis volucellus volucellus
Notropis heterolepis heterolepis
Notropis heterolepis regalis

Pimephales promelas promelas
Pimephales promelas harveyensis

Esox lucius
Esox masquinongy masquinongy
Lota lota maculosa
Percopsis omiscomaycus
Perca flavescens
Stizostedion vitreum vitreum
Percina caprodes semifasciata
Etheostoma exile
Lepomis gibbosus
Myoxocephalus thompsonii
Cottus ricei
Cottus bairdii kumlieni
Cottus cognatus gracilis
Eucalia inconstans
Pungitius pungitius

Amphibians and Reptiles

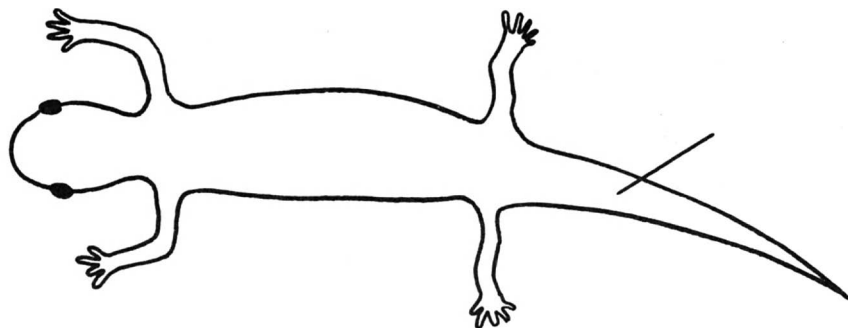
The following checklist indicates the eleven species of amphibians and reptiles known to occur within the park. In the list an asterisk (*) indicates that the species was listed in Adams, C. C.; 1908; An Ecological Survey of Isle Royale, Lake Superior.; Michigan State Biological Survey. A double asterisk (**) is used for species which have been identified by the present authors. Scientific nomenclature for the list follows: Blair, W. F., Blair, A. P., Brodkorb, P., Cagle, F. R. & Moore, G. A.; 1957; Vertebrates of the United States; McGraw-Hill Book Co., Inc., New York.

Mudpuppy *	<u>Necturus maculosus</u>
Blue-spotted Salamander **	<u>Ambystoma laterale</u>
American Toad * **	<u>Bufo americanus</u>
Spring Peeper * **	<u>Hyla crucifer</u>
Chorus Frog **	<u>Pseudacris nigrita</u>
Wood Frog * **	<u>Rana sylvatica</u>
Green Frog * **	<u>Rana clamitans</u>
Mink Frog * **	<u>Rana septentrionalis</u>
Western Painted Turtle **	<u>Chrysemys picta belli</u>
Red-bellied Snake * **	<u>Storeria occipitomaculata</u>
Common Garter Snake * **	<u>Thamnophis sirtalis</u>

Of the vertebrate groups present in the park the amphibians and reptiles are the least studied. Since it is possible that several unrecorded species occur on the island, the following keys are presented as an aid to future identification. The keys include the eleven species recorded for Isle Royale and all species of amphibians and reptiles whose general range includes the mainland adjacent to Isle Royale, but which have not been found in the park.

key to the amphibians

- A.** Body not specialized for jumping; tail present.



.....Salamanders and Newts.....B.

- AA.** Body specialized for jumping; tail absent.



.....Toads and Frogs.....G.

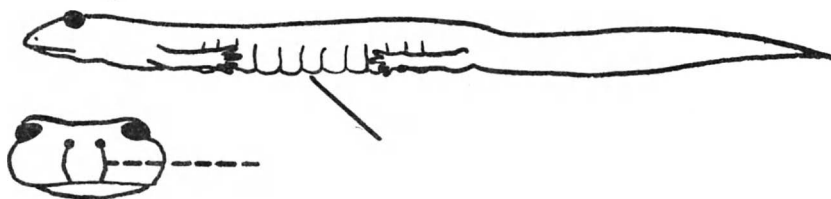
- B.** Adults with external leaf-like gills.

.....Mudpuppy (Necturus maculosus)*

- BB.** Adults without external gills.

.....C.

- C. Top of head with two longitudinal ridges; no vertical grooves (costal grooves) between fore and hind limbs.
Newt (Notophthalmus viridescens)
- CC. Top of head smooth; costal grooves well developed.
D.
- D. With a distinct vertical groove (nasolabial groove) from the nasal opening to the lips; with 6-9 costal grooves between appressed limbs.



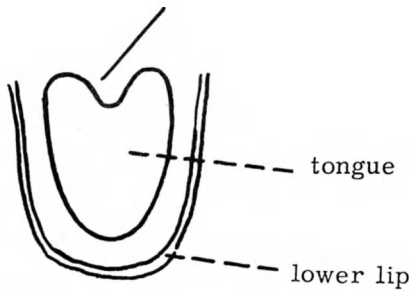
.....Red-back Salamander (Plethodon cinereus)

- DD. With no nasolabial groove; no more than one costal groove between appressed limbs.



-E.
- E. With two rows of yellow or orange spots on the back.
Spotted Salamander (Ambystoma maculatum)
- EE. Spots bluish or absent, not in two rows.
F.
- F. Bluish spots on back and tail.
Blue-spotted Salamander (Ambystoma laterale) **
- FF. Bluish spots absent or only on tail, never on back.
Jefferson's Salamander (Ambystoma jeffersonianum)

G. Tongue bicornuate behind.

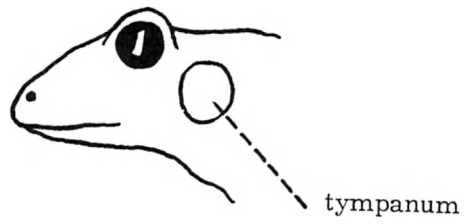


.....H.
 GG. Tongue not bicornuate behind.



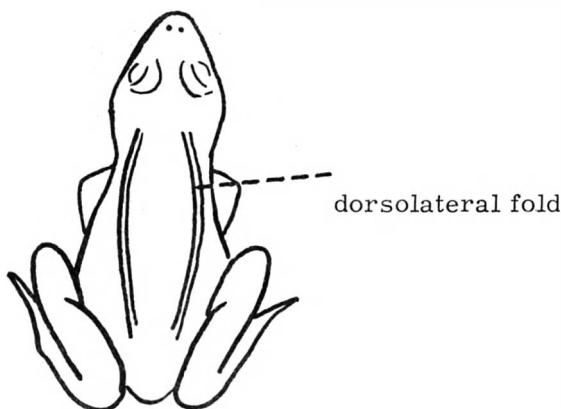
.....L.

H. Dark mask through eye and tympanum (sometimes fragmentary or obscure); back sometimes reddish.



.....Wood Frog (Rana sylvatica) * **
 HH. No dark mask through eye and tympanum; back never reddish.
I.

I. With distinct dorsolateral folds.

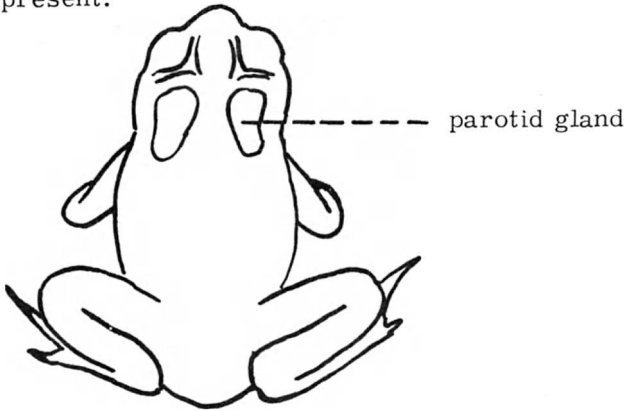


.....J.
II. Dorsolateral folds indistinct or absent.

-Mink Frog (Rana septentrionalis) * **
J. Dorsolateral folds extending no more than $2/3$ length of body;
color uniform with no large spots between dorsolateral ridges.
.....Green Frog (Rana clamitans) * **
JJ. Dorsolateral folds extending full length of body; large conspicuous
spots between dorsolateral ridges.
.....K.

- K. With two rows of more or less rectangular spots between dorso-
lateral folds; spots without light borders; groin and concealed
surfaces of hind legs bright orange or yellow in living animals.
.....Pickeral Frog (Rana palustris)
KK. Spots not in two rows, rounded, never rectangular or squarish;
spots with light borders; no bright orange or yellow as above.
.....Leopard Frog (Rana pipiens)

L. Parotid glands present.



.....American Toad (Bufo americanus)* **

LL. Parotid glands absent.

.....M.

M. Toe discs well developed, 1/2 diameter of tympanum or more; back variously marked, but never with 5 dark stripes or rows of spots.

.....N.

MM. Toe discs poorly developed, less than 1/2 diameter of tympanum; back with 5 dark stripes or rows of spots.

.....Chorus Frog (Pseudacris nigrita) **

N. Black bordered light spot below rear of eye; groin and concealed surfaces of legs orange or yellow; color pattern on back variable, but not X-shaped.

.....Common Tree Frog (Hyla versicolor)

NN. Without black bordered light spot below rear of eye; may have a dark mask; groin and concealed leg surfaces not yellow or orange; usually with an X-shaped dark mark on the back.

.....Spring Peeper (Hyla crucifer)* **

key to the reptiles

- A. Animals with two pairs of appendages and a bony shell.
.....Turtles.....B.
- AA. Animals without appendages or a bony shell.
.....Snakes.....C.
- B. Carapace (dorsal shell) rough, ridged; uniformly dull colored.
.....Snapping Turtle (Chelydra serpentina)
- BB. Carapace smooth; head and legs striped with yellow; plastron
(ventral shell) brilliantly colored.
.....Western Painted Turtle (Chrysemys
picta belli) **
- C. Color uniform green; dorsal scales smooth.
.....Smooth Green Snake (Opheodrys
vernalis)
- CC. Color yellow, brown, blue, gray, or black; dorsal scales
keeled (ridged).
.....D.
- D. With three light longitudinal stripes on a background of yellowish
brown to deep blue-black (stripes sometimes indistinct on very
dark specimens).
.....Common Garter Snake (Thamnophis
sirtalis) * **
- DD. Without longitudinal stripes (or with one light middorsal stripe).
.....E.
- E. Color yellow to light brown with large dark brown blotches.
.....Fox Snake (Elaphe vulpina)
- EE. Color uniform gray, brown, or black, without blotches.
.....F.
- F. With a light ring around the neck; no middorsal stripe; belly
yellow to reddish.
.....Eastern Ring-necked Snake (Diadophis
punctatus)
- FF. Without light ring around neck; light middorsal stripe present;
belly always bright red or orange-red.
.....Red-bellied Snake (Storeria
occipitomaculata) * **

Birds

Following is a checklist of the birds of Isle Royale National Park. It has been compiled largely from National Park Service records on file at Isle Royale. Several observations of the authors have been incorporated into the list, and it is felt that this checklist is considerably more reliable than the one previously available (The Birds of Isle Royale National Park; A Checklist; U. S. National Park Service; mimeographed in the park for local distribution). Scientific nomenclature follows the American Ornithologist's Union Check-list of North American Birds (1931) with Supplements (1944-1956). R indicates year-round residents in the park, while SR and WR indicate summer and winter residents, respectively. M is used to designate migrant forms which are not residents within the park, but which are seen during the seasons of migration.

Common Loon	<u>Gavia immer</u>SR...common on lakes and harbors.
Red-throated Loon	<u>Gavia stellata</u>M....very rare.
Pied-billed Grebe	<u>Podilymbus podiceps</u>SR...rare.
Horned Grebe	<u>Podiceps auritus</u>M....occasional.
Red-necked Grebe	<u>Podiceps grisegena</u>M.... ?.
White Pelican	<u>Pelecanus erythrorhynchos</u>M....rare in late summer.
Double-crested Cormorant	<u>Phalacrocorax auritus</u>SR...uncommon.
Great Blue Heron	<u>Ardea herodias</u>SR...occasional.
American Bittern	<u>Botaurus lentiginosus</u>SR...occasional.
Whistling Swan	<u>Olor columbianus</u>M....rare

White-winged Scoter	<u>Melanitta deglandi</u>M....occasional.
Hooded Merganser	<u>Lophodytes cucullatus</u>SR...rare.
American Merganser	<u>Mergus merganser</u>SR...common.
Red-breasted Merganser	<u>Mergus serrator</u>SR...occasional.
Goshawk	<u>Accipiter gentilis</u>SR...uncommon
Cooper's Hawk	<u>Accipiter cooperi</u>SR...uncommon
Sharp-shinned Hawk	<u>Accipiter striatus</u>SR...uncommon.
Red-shouldered Hawk	<u>Buteo lineatus</u>SR...uncommon.
Red-tailed Hawk	<u>Buteo jamaicensis</u>SR...uncommon.
Rough-legged Hawk	<u>Buteo lagopus</u>M...?.
Broad-winged Hawk	<u>Buteo platypterus</u>SR...common
Golden Eagle	<u>Aquila chrysaetos</u>R....rare.
Bald Eagle	<u>Haliaeetus leucocephalus</u>R....occasional.
Marsh Hawk	<u>Circus cyaneus</u>SR...occasional.
Osprey	<u>Pandion haliaetus</u>SR...occasional.
Duck Hawk	<u>Falco peregrinus</u>SR?...rare.
Gyr Falcon	<u>Falco rusticolus</u>WR...rare.
Pigeon Hawk	<u>Falco columbarius</u>SR...occasional.
Sparrow Hawk	<u>Falco sparverius</u>SR...common.
Sharp-tailed Grouse	<u>Pedioecetes phasianellus</u>R....common on open ridges and burns.

Sora	<u>Porzana carolina</u>SR...rare.
American Coot	<u>Fulica americana</u>SR or M?...rare.
Killdeer	<u>Charadrius vociferus</u>M....common.
Semipalmated Plover	<u>Charadrius semipalmatus</u>SR...?.
Greater Yellowlegs	<u>Totanus melanoleucus</u>M....rare.
Lesser Yellowlegs	<u>Totanus flavipes</u>M....rare.
Solitary Sandpiper	<u>Tringa solitaria</u>M or SR...uncommon.
Spotted Sandpiper	<u>Actitis macularia</u>SR...occasional along rocky shores.
Sanderling	<u>Crocethia alba</u>M....very rare.
Least Sandpiper	<u>Erolia minutilla</u>M....?.
Wilson's Snipe	<u>Capella gallinago</u>SR...uncommon.
American Woodcock	<u>Philohela minor</u>SR...occasional.
Herring Gull	<u>Larus argentatus</u>SR...very common.
Ring-billed Gull	<u>Larus delawarensis</u>SR..rare, or M.
Bonaparte's Gull	<u>Larus philadelphia</u>M....occasional.
Common Tern	<u>Sterna hiruno</u>M....rare.
Caspian Tern	<u>Hydroprogne caspia</u>M....rare.
Mourning Dove	<u>Zenaidura macroura</u>SR...uncommon.
Black-billed Cuckoo	<u>Coccyzus erythrophthalmus</u>SR...occasional.
Yellow-billed Cuckoo	<u>Coccyzus americanus</u>M or SR..?.

Common Screech Owl	<u>Otus asio</u>SR...uncommon.
Great Horned Owl	<u>Bubo virginianus</u>R....uncommon.
Snowy Owl	<u>Nyctea scandiaca</u>WR...occasional ?.
Hawk Owl	<u>Surnia ulula</u>R....rare.
Barred Owl	<u>Strix varia</u> ?.
Long-eared Owl	<u>Asio otus</u> ?.
Saw-whet Owl	<u>Aegolius acadicus</u>SR...uncommon.
Whip-poor-will	<u>Caprimulgus vociferus</u>SR...occasional.
Nighthawk	<u>Chordeiles minor</u>SR
Chimney Swift	<u>Chaetura pelagica</u>SR...locally common.
Ruby-throated Hummingbird	<u>Archilochus colularis</u>SR...uncommon.
Belted Kingfisher	<u>Megaceryle alcyon</u>SR...common.
Yellow-shafted Flicker	<u>Colaptes auratus</u>SR...common.
Pileated Woodpecker	<u>Dryocopus pileatus</u>R....occasional.
Red-headed Woodpecker	<u>Melanerpes erythrocephalus</u>M....very rare.
Yellow-bellied Sapsucker	<u>Sphyrapicus varius</u>SR...occasional
Hairy Woodpecker	<u>Dendrocopos villosus</u>R....common.
Downy Woodpecker	<u>Dendrocopos pubescens</u>R....common.
Arctic Three-toed Woodpecker	<u>Picoides arcticus</u>R....rare.
American Three-toed Woodpecker	<u>Picoides tridactylis</u>M....rare.
Eastern Kingbird	<u>Tyrannus tyrannus</u>SR...common around snags.

Eastern Phoebe	<u>Sayornis phoebe</u>SR...uncommon; more abundant as migrant
Alder Flycatcher	<u>Empidonax traillii</u>SR...uncommon.
Least Flycatcher	<u>Empidonax minimus</u>SR...uncommon.
Yellow-bellied Flycatcher	<u>Empidonax flaviventris</u>SR...rare.
Eastern Wood Pewee	<u>Contopus virens</u>SR...most common on SW end of island.
Olive-sided Flycatcher	<u>Nuttallornis borealis</u>SR...occasional.
Crested Flycatcher	<u>Myiarchus crinitus</u>SR...?.
Horned Lark	<u>Eremophila alpestris</u>WR...?.
Purple Martin	<u>Progne subis</u>M....rare.
Cliff Swallow	<u>Petrochelidon pyrrhonota</u>SR...rare.
Bank Swallow	<u>Riparia riparia</u>SR...rare.
Tree Swallow	<u>Tachycineta bicolor</u>SR...occasional.
Barn Swallow	<u>Hirundo rustica</u>SR...uncommon.
Raven	<u>Corvus corax</u>R....common.
Common Crow	<u>Corvus brachyrhynchos</u>SR...common.
Blue Jay	<u>Cyanocitta cristata</u>R....occasional.
Canada Jay	<u>Perisoreus canadensis</u>R....occasional.
Black-capped Chickadee	<u>Parus atricapillus</u>R....very common.
White-breasted Nuthatch	<u>Sitta carolinensis</u>SR...rare.
Red-breasted Nuthatch	<u>Sitta canadensis</u>SR...uncommon.

Brown Creeper	<u>Certhia familiaris</u>SR...uncommon.
Short-billed Marsh Wren	<u>Cistothorus platensis</u>SR...occasional in marshes.
Winter Wren	<u>Troglodytes troglodytes</u>SR...common.
House Wren	<u>Troglodytes aedon</u>SR...rare.
Mockingbird	<u>Mimus polyglottos</u>M....?.
Catbird	<u>Dumetella carolinensis</u>M....rare.
Brown Thrasher	<u>Toxostoma rufum</u>SR...occasional on open brushy slopes.
American Robin	<u>Turdus migratorius</u>SR...occasional.
Wood Thrush	<u>Hylocichla mustelina</u>SR...?.
Hermit Thrush	<u>Hylocichla guttata</u>SR...uncommon.
Gray-cheeked Thrush	<u>Hylocichla minima</u>M and SR...?.
Swainson's Thrush	<u>Hylocichla ustulata</u>SR...common.
Veery	<u>Hylocichla fuscescens</u>SR...occassional.
Eastern Bluebird	<u>Sialia sialis</u>SR...uncommon.
Golden-crowned Kinglet	<u>Regulus satrapa</u>SR...common.
Ruby-crowned Kinglet	<u>Regulus calendula</u>SR...rare.
Water Pipit	<u>Anthus spinoletta</u>M....?.
Cedar Waxwing	<u>Bombycilla cedrorum</u>SR...common.
Northern Shrike	<u>Lanius excubitor</u>WR...?.
Loggerhead Shrike	<u>Lanius ludovicianus</u>M....rare.

Starling	<u>Sturnus vulgaris</u>SR...occasional.
White-eyed Vireo	<u>Vireo griseus</u>?.
Blue-headed Vireo	<u>Vireo solitarius</u>M or SR...rare.
Yellow-throated Vireo	<u>Vireo flavifrons</u>M....?.
Red-eyed Vireo	<u>Vireo olivaceus</u>SR...common.
Philadelphia Vireo	<u>Vireo philadelphicus</u>M....rare.
Warbling Vireo	<u>Vireo gilvus</u>M....rare.
Black and White Warbler	<u>Mniotilta varia</u>SR...uncommon.
Tennessee Warbler	<u>Vermivora peregrina</u>M or SR...rare.
Orange-crowned Warbler	<u>Vermivora celata</u>M....?.
Nashville Warbler	<u>Vermivora ruficapilla</u>SR...common.
Parula Warbler	<u>Parula americana</u>SR...uncommon.
Yellow Warbler	<u>Dendroica petechia</u>?.
Magnolia Warbler	<u>Dendroica magnolia</u>SR...common.
Cape May Warbler	<u>Dendroica tigrina</u>M....common.
Black-throated Blue Warbler	<u>Dendroica caerulescens</u>SR...common in maple forest.
Myrtle Warbler	<u>Dendroica coronata</u>SR...common.
Black-throated Green Warbler	<u>Dendroica virens</u>SR...common.
Blackburnian Warbler	<u>Dendroica fusca</u>SR...common.

Chestnut-sided Warbler	<u>Dendroica pensylvanica</u>SR...common.
Bay-breasted Warbler	<u>Dendroica castanea</u>SR...uncommon.
Black-poll Warbler	<u>Dendroica striata</u>SR...rare.
Pine Warbler	<u>Dendroica pinus</u>M....rare.
Palm Warbler	<u>Dendroica palmarum</u>M....common.
Connecticut Warbler	<u>Oporornis agilis</u>SR...occasional.
Mourning Warbler	<u>Oporornis philadelphia</u>SR...common.
Ovenbird	<u>Seiurus aurocapillus</u>SR...common.
Northern Waterthrush	<u>Seiurus noveboracensis</u>SR...uncommon.
Yellowthroat	<u>Geothlypis trichas</u>SR...uncommon.
Wilson's Warbler	<u>Wilsonia pusilla</u>M....common.
Canada Warbler	<u>Wilsonia canadensis</u>SR...occasional.
American Redstart	<u>Setophaga ruticilla</u>SR...rare.
Brown-headed Cowbird	<u>Molothrus ater</u>SR...?.
Red-winged Blackbird	<u>Agelaius phoeniceus</u>SR...common around marshes.
Rusty Blackbird	<u>Euphagus carolinus</u>M....common.
Purple Grackle	<u>Quiscalus quiscula</u>SR...common around marshes and ponds.
Baltimore Oriole	<u>Icterus galbula</u>M....rare.
Eastern Meadowlark	<u>Sturnella magna</u>M....rare.

Bobolink	<u>Dolichonyx oryzivorus</u>M....uncommon.
Scarlet Tanager	<u>Piranga olivacea</u>SR...rare.
Rose-breasted Grosbeak	<u>Pheucticus ludovicianus</u>M....?.
English Sparrow	<u>Passer domesticus</u>accidental.
Pine Siskin	<u>Spinus pinus</u>R....occasional.
American Goldfinch	<u>Spinus tristis</u>M....rare.
Pine Grosbeak	<u>Pinicola enucleator</u>WR...common.
Common Redpoll	<u>Acanthis flammea</u>WR...common.
Purple Finch	<u>Carpodacus purpureus</u>R....uncommon.
Red Crossbill	<u>Loxia curvirostra</u>R....common.
White-winged Crossbill	<u>Loxia leucoptera</u>R....common.
Evening Grosbeak	<u>Hesperiphona vespertina</u>SR...rare.
Snow Bunting	<u>Plectrophenax nivalis</u>M....common.
Lapland Longspur	<u>Calcarius lapponicus</u>M....irregular, common.
Red-eyed Towhee	<u>Pipilo erythrophthalmus</u>M....?.
Vesper Sparrow	<u>Pooecetes gramineus</u>SR...occasional.
Savannah Sparrow	<u>Passerculus sandwichensis</u>SR...occasional.
Song Sparrow	<u>Melospiza melodia</u>SR...common.
Lincoln's Sparrow	<u>Melospiza lincolni</u>M....common.
Swamp Sparrow	<u>Melospiza georgiana</u>SR...common in swamps

Harris' Sparrow	<u>Zonotrichia querula</u>M.....very rare.
White-crowned Sparrow	<u>Zonotrichia leucophrys</u>M.....rare.
White-throated Sparrow	<u>Zonotrichia albicollis</u>SR...very common.
Tree Sparrow	<u>Spizella arborea</u>WR or M
Chipping Sparrow	<u>Spizella passerina</u>SR...occasional except in migration.
Clay-colored Sparrow	<u>Spizella pallida</u>M.....?.
Slate-colored Junco	<u>Junco hyemalis</u>WR (rare); SR..locally common.
Fox Sparrow	<u>Passerella iliaca</u>M.....?.

SYNOPSIS OF THE ISLE ROYALE BIRDS

Summer Residents (SR).....	104 species.
Migrants (M).....	56 species.
Permanent Residents (R).....	17 species.
Winter Residents (WR).....	6 species.
Other (accidentals, birds of unknown status, and birds which do not fall clearly into the above catagories).....	14 species.
TOTAL	197 species.

Mammals

In the following mammalian checklists scientific terminology follows Burt, W. H.; 1957; Mammals of the Great Lakes Region; Univ. of Mich. Press, Ann Arbor. An asterisk (*) indicates species recorded for the island in Adams, C. C.; 1908; An Ecological Survey of Isle Royale, Lake Superior; Michigan State Biological Survey. A double asterisk (**) indicates species recorded for Isle Royale by Burt (1957). A triple asterisk (***) is used for species which have been observed by the present authors.

MAMMALS NOW OCCURRING ON ISLE ROYALE.

Little Brown Bat	<u>Myotis lucifugus</u> * ** ***
Keen Myotis	<u>Myotis keeni</u> * ** ***
Silver-haired Bat	<u>Lasionycteris noctivagans</u> **
Big Brown Bat	<u>Eptesicus fuscus</u> * **
Hoary Bat	<u>Lasiurus cinereus</u> **
Short-tailed Weasel	<u>Mustela erminea</u> * **
Long-tailed Weasel	<u>Mustela frenata</u> **
Mink	<u>Mustela vison</u> * ** ***
River Otter	<u>Lutra canadensis</u>
	(no authenticated records)
Red Fox	<u>Vulpes fulva</u> ***
Gray Wolf	<u>Canis lupus</u> ** ***
Red Squirrel	<u>Tamiasciurus hudsonicus</u>
	<u>regalis</u> * ** ***
Beaver	<u>Castor canadensis</u> * ** ***
Deer Mouse	<u>Peromyscus maniculatus</u> * ** ***
Boreal Red-backed Vole	<u>Clethrionomys gapperi</u> * **
Muskrat	<u>Ondatra zibethica</u> * ** ***
Snowshoe Hare	<u>Lepus americanus</u> * ** ***
Moose	<u>Alces alces</u> ** ***

MAMMALS KNOWN TO HAVE OCCURRED ON ISLE ROYALE, BUT WHICH ARE NOW PROBABLY ABSENT.

Marten	<u>Martes americana</u> *
Coyote	<u>Canis latrans</u> (probably present from early 1900's to about 1955)
Canada Lynx	<u>Lynx canadensis</u> * (Fishermen report that lynx were present until the mid 1930's)
White-tailed Deer	<u>Odocoileus virginianus</u> (Reports indicate that about 6 were released early in the 1900's)
Woodland Caribou	<u>Rangifer caribou</u> * (probably present until the mid 1920's)

MAMMALS OCCURRING ON THE MAINLAND ADJACENT TO ISLE ROYALE, BUT WHICH HAVE NEVER BEEN FOUND ON THE ISLAND.

Starnose Mole	<u>Condylura cristata</u>
Masked Shrew	<u>Sorex cinereus</u>
Smokey Shrew	<u>Sorex fumeus</u>
Arctic Shrew	<u>Sorex arcticus</u>
Northern Water Shrew	<u>Sorex palustris</u>
Pigmy Shrew	<u>Microsorex hoyi</u>
Short-tail Shrew	<u>Blarina brevicauda</u>
Red Bat	<u>Lasiurus borealis</u>
Black Bear	<u>Ursus americanus</u>
Raccoon	<u>Procyon lotor</u>
Fisher	<u>Martes pennanti</u>
Least Weasel	<u>Mustela rixosa</u>
Striped Skunk	<u>Mephitis mephitis</u>
Gray Fox	<u>Urocyon cinereoargenteus</u>
Bobcat	<u>Lynx rufus</u>

Woodchuck	<u>Marmota monax</u>
Least Chipmunk	<u>Eutamias minimus</u>
Eastern Chipmunk	<u>Tamias striatus</u>
Eastern Gray Squirrel	<u>Sciurus carolinensis</u>
Northern Flying Squirrel	<u>Glaucomys sabrinus</u>
Southern Bog Lemming	<u>Synaptomys cooperi</u>
Heather Vole	<u>Phenacomys intermedius</u>
Meadow Vole	<u>Microtus pennsylvanicus</u>
Yellow-nosed Vole	<u>Microtus chrotorrhinus</u>
House Mouse	<u>Mus musculus</u>
Norway Rat	<u>Rattus norvegicus</u>
Meadow Jumping Mouse	<u>Zapus hudsonius</u>
Woodland Jumping Mouse	<u>Napeozapus insignis</u>
Porcupine	<u>Erithizon dorsatum</u>

The vertebrates of Isle Royale National Park may be enumerated as follows:

Fishes 50 species (42 species and
8 subspecies.)

Amphibians and

Reptiles 11 species.

Birds 197 species.

Mammals 18 species.

Vertebrates..... 276 species.



Isle Royale Natural History Association

The Wolf's Eye Press

Isle Royale National Park, Houghton, Michigan