APPENDIX 3

•

•

,

REPTILES AND AMPHIBIANS

1986

REPTILES AND AMPHIBIANS

Waterloo Region, particularly the southern section, has some excellent reptile and amphibian habitats. Areas of spring seepage, clean ponds and lakes provide suitable habitats for some nationally and provincially significant species, such as Blanding's Turtle, Queen Snake and Pickerel Frog. The numbers and variety of herpetofauna is declining, some quite rapidly, owing to various factors. The Yellow-spotted Salamander is listed as regionally significant only. However, its eggs, which are laid in spring, are very sensitive to acid rain and it is becoming more and more scarce throughout its total range. Bullfrogs are also on the decline. Snake populations have been greatly reduced owing to people's unwarranted fear and subsequent negative response.

Observing reptiles and amphibians during the summer field season is difficult as many species, mostly salamanders, are in aestivation (summer hibernation). They are best observed during spring mating season when they are mobile. Chorus frogs, peepers and treefrogs are small, secretive creatures that are difficult to see. However, they are often heard and easily identified in the spring when they are calling.

Status of herpetofauna in Waterloo Region was determined from the reports "Status of Herptiles in Canada", "An Evaluation System for Wetlands of Ontario South of the Precambrian Shield", both Ministry of Natural Resources publications, and from "Waterloo Region Herpetofauna Survey" by George Francis and Craig Campbell (1983).

NAME	E.S.A. #	STATUS
Family Cryptobranchidae		
Mudpuppy (<u>Necturus</u> <u>maculosus</u>)	Found in rivers	Regional
Family Ambystomatidae		
Jefferson Salamander (<u>Ambystoma jeffersonianum</u>)	52,56 59	National
Blue-spotted Salamander (<u>Ambystoma</u> <u>laterale</u>)	"found at 10 Regional sites" (Francis & Campbell 1983)	Common
Yellow-spotted Salamander (<u>Ambystoma</u> <u>maculatum</u>)	17,27,52,59 65,33	Regional
Triploid (Tremblay's) Salamander (<u>Ambystoma</u> X <u>tremblayi</u>)	67	Regional
Triploid (Silvery) Salamander (<u>Ambystoma</u> X <u>platineum</u>)	17,34,38,52,59	National
Family Salamandridae		
Red-spotted Newt (<u>Notophthalmus</u> <u>viridescens</u>)	27,52	Regional
Family <u>Plethodontidae</u>		
Eastern Redback Salamander All-red phase (<u>Plethodon cinereus</u>)	Found at many sites 5	Common National
Four-toed Salamander (<u>Hemidactylium</u> <u>scutatum</u>)	52	National "should be watched' (Bowman MS 1978)
Family <u>Bufonidae</u>		
American Toad (<u>Bufo</u> <u>americanus</u>)	Found at almost every site	Common

Family <u>Hylidae</u>

Spring Peeper (<u>Hyla</u> <u>crucifer</u>)	Commonly heard in spring	Common
Gray Treefrog (Tetraploid) (<u>Hyla versicolor</u>)	Commonly heard in spring	Common
Striped Chorus Frog (<u>Pseudacris</u> <u>triseriata</u>)	Commonly heard in spring	Common
Family <u>Ranidae</u>		
Bullfrog (<u>Rana</u> <u>catesbeiana</u>)	48,49,	Regional
Mink Frog (<u>Rana</u> <u>septentrionalis</u>)	26,46	Regional
Green Frog (<u>Rana</u> <u>clamitans</u>)	Found at most wet sites	Common
Wood Frog (<u>Rana sylvatica</u>)	Found at most sites	Common
Northern Leopard Frog (<u>Rana pipiens</u>)	Found at most wet sites	Common
Pickerel Frog (<u>Rana</u> <u>pulustris</u>)	10,37,39,44,45,46,61,67,68	Provincial
Family <u>Chelydridae</u>		
Snapping Turtle (<u>Chelydra</u> <u>serpentina</u>)	Found in lakes/ponds 33,57	Common
Family <u>Emydidae</u>		
Painted Turtle (<u>Chrysemys picta</u>)	Found in lakes/ponds	Common
Blanding's Turtle (<u>Emydoidea</u> <u>blandingi</u>)	23,46,47,48,49,52	National
Family <u>Scincidae</u>		
Five-lined Skink (<u>Eumeces</u> <u>fasciatus</u>)	27	Regional

Family <u>Colubridae</u>		
Northern Water Snake (<u>Nerodia</u> <u>sipedon</u>)	45,46,52,61 67	Regional
Queen Snake (<u>Regina septemvittata</u>)	38,51,62	National
Brown (Dekay's) Snake (<u>Storeria</u> <u>dekayi</u>)	68 24 38	Thought to be common; however, difficult to find.
Redbelly Snake (<u>Storeria</u> <u>occipitomaculata</u>)	46,47,38	Thought to be common; however, difficult to find.
Common Garter Snake (<u>Thamnophis</u> <u>sirtalis</u>)	Found at many sites	Common
Eastern Ribbon Snake (<u>Thamnophis</u> <u>septentrionalis</u>)	17,46,48,61	Regional
Smooth Green Snake (<u>Opheodrys</u> <u>vernalis</u>)	38,47,61,65	Regional
Milk Snake (<u>Lampropeltis</u> <u>triangulum</u>)	69 (1, 38	National "should be watcheo (Bowman

.

be watched" (Bowman MS 1978)

APPENDIX 4

MAMMALS

•

MAMMALS IN WATERLOO REGION

Mammals are an important part of the ecosystem, especially the food chain. They are predators and prey. They also help in the dispersal of seeds and, by their burrowing, help with aeration of the soil. Man has greatly influenced mammalian populations directly by trapping, poisoning and shooting, and indirectly by agriculture which greatly reduces and alters the habitat for many species.

In Waterloo Region, there are 45 species of mammals. Many of them are secretive and nocturnal, hence, they are seldom seen. Owing to the restrictions of our field work, i.e., length of time in each area, time of day and the season, few species were observed. In order to correctly assess mammal populations, trapping and nocturnal searches during the correct time of year would have to be carried out.

A study has been done on the habitats, habits, numbers and distributions of all mammals in Waterloo. The report is titled "Mammals of Waterloo and South Wellington Counties" (1972) by C. A. Campbell et al.

For this report, only significant species have been listed, accompanied with location data.

SIGNIFICANT MAMMALS IN WATERLOO

NAME	E.S.P.A. #	STATUS
Family <u>Didelphiidae</u>		
Virginia Opossum Didelphis virginiana	38	Rare
Family <u>Soricidae</u>		
Masked Shrew Sorex cinereus		General
Smoky Shrew <u>Sorex</u> <u>fumeus</u>	10	Rare
American Water Shrew <u>Sorex</u> palustris	2	Rare
Family <u>Talpidae</u>		
Hairy-tailed Mole Parascalops breweri	31,49,53	Rare
Family <u>Mustelidae</u>		
Long-tailed Weasel <u>Mustela</u> <u>frenata</u>	26	Scarce
American Mink <u>Mustela</u> vison	22,37,38,39,41,49	Scarce
Family <u>Canidae</u>		
Coyote <u>Canis</u> latrans	29,39	Scarce
Family <u>Felidae</u>		
Lynx Lynx canadensis	39	Occasional
Bobcat Lynx rufus	11 (hypothetical)	Rare

-

Family <u>Sciuridae</u>			
Northern Flying Squirrel <u>Glaucomys</u> <u>sabrinus</u>	23,63	Rare	
Family <u>Castoridae</u>			
American Beaver <u>Castor</u> <u>canadensis</u>	30,39,55	Scarce	
Family <u>Muridae</u>			
Southern Bog Lemming Synaptomys <u>cooperi</u>	38	Rare	
Gapper's Redback Vole <u>Clethrionomys</u> gapperi	11	Rare	
Family <u>Erethizontidae</u>			
Porcupine Erethizon dorsatum	2,11	Scarce	
Family Leporidae			
Snowshoe Hare Lepus americanus	2,11,17,22,39	Scarce	
Other mammals found in Waterloo Region, sources: Craig Campbell and 1983 field season. Unless otherwise stated they are common.			
Bats: Big Brown Little Brown Red (rare)	Hare, European	Raccoon	
	Jumping Mouse, Meadow	Rat, Norway	
Cottontail	Mole, Star-nosed	Shrew, Short-tailed	
Deer, White-tailed	Mouse: Deer	Skunk, Striped	
Ferret (rare) alien	House White-footed	Squirrels: Gray American Red	
Foxes: Red Gray (rare) Arctic (rare)	Muskrat	Vole, Meadow	
	Nutria (rare) alien	Weasel, Short-tailed (scarce)	

Woodchuck