A guide to the Reptiles and Amphibians of University Farm

Squire Valleevue and Valley Ridge Farms
Case Western Reserve University
Dr. Ana B. Locci, Director

Important notes on this guide

- * This is an introductory guide to the reptile and amphibian species of University farm.
- ❖ It lists the species present or possibly present, and attempts to provide baseline information that will be useful to anyone wishing to learn more about the reptiles & amphibians found here.
- * The physical descriptions are of the most common forms, as there is variation within some species.
- * Make sure you have a good field guide in hand before setting off to discover the reptiles & amphibians of the farm!

Important notes on this guide

- * Throughout this guide you will find notes on the conservation status of species, both in the state of Ohio and worldwide.
 - * Extirpated: A species that occurred in Ohio at the time of European settlement and has since disappeared from the state.
 - * Extinct: A species that occurred in Ohio at the time of European settlement and has since disappeared worldwide.
 - * Endangered: A species in immediate danger of becoming extirpated or extinct.
 - * Threatened: A species that, with increased or continued danger, will become endangered.
 - * <u>Species of Concern:</u> A species that, with increased or continued danger, will become threatened.
- * Currently, there are no reptiles or amphibians of Ohio that are listed as extirpated or extinct.

Class Reptilia - Reptiles

- Cold blooded
- * Young hatch from eggs
- * Young are "miniature adults", resembling adults in appearance from the moment they hatch
- * Skin covered with scales, shields or plates
- Toes have claws (except the leatherback sea turtle)
- Includes crocodilians, turtles, lizards, and snakes

Chelydra serpentina Snapping turtle

- * Class Reptilia
 - * Order Testudinata
 - * Suborder Cryptodira * Family Chelydridae
- Found in any permanent body of fresh water
- * Long "saw tooth" tail, pointed carapace
- Observed in most ponds and the fields between them; common on property



Source: http://www.naturealmanac.com/archive/snappers/sn.jpg

Chrysemys picta Midland painted turtle

- * Class Reptilia
 - * Order Testudinata
 - * Suborder Cryptodira
 - Family Emydidae
- * Found in shallow water with soft, muddy bottom
- * Scutes in straight rows on back, yellow spots on side of head
- * Observed in all ponds; abundant on property

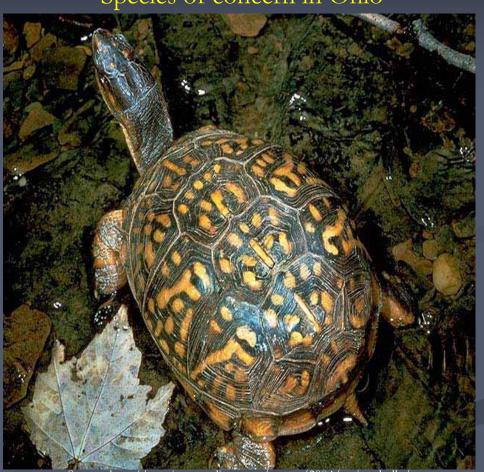


Source:http://www.cortland.edu/herp/keys/images/turtles/cpictalg.jpg

Terrapene carolina carolina Eastern box turtle

Species of concern in Ohio

- * Class Reptilia
 - * Order Testudinata
 - Suborder Cryptodira
 - Family Emydidae
- Found in wooded areas beneath logs, most mobile after rains
- Variable coloration;"land" turtle with high domed shell
- One sighting near Wade pond; apparently scarce on property



Source: http://marriageequalityca.org/events/2004/nationalrally/stories/coyote/img/2004-10-14/eastern-box-turtle-lg.jpg

Eumeces fasciatus Five-lined skink

- Class Reptilia
 - * Order Squamata
 - * Suborder Sauria
 - Family Scincidae
- Commonly found under or around decaying wood
- Blue tail of juveniles fades in adulthood
- One possible sighting reported on the property;
 likely scarce



Source: http://fwie.fw.vt.edu/VHS/Southeastern%20Fivelined%20Skink%20(Eumeces%20inexpectatus).JPG

Coluber constrictor constrictor Black racer

- Class Reptilia
 - * Order Squamata
 - * Suborder Serpentes
 - * Family Colubridae
- Found in woods and fields, climbs when cornered
- Plain black on top and bottom
- One possible sighting reported on the property; likely scarce



Elaphe obsoleta obsoleta Black rat snake

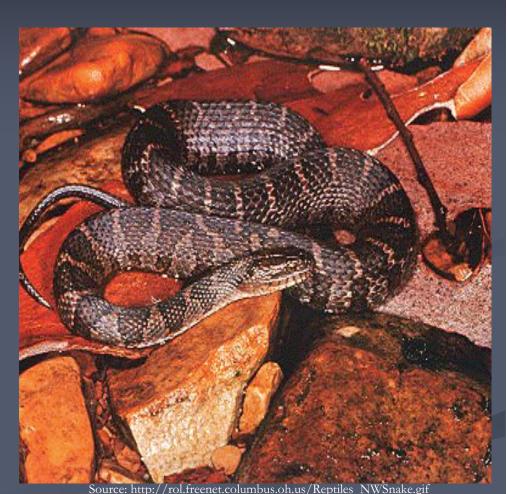
- * Class Reptilia
 - * Order Squamata
 - Suborder Serpentes
 - Family Colubridae
- Commonly found in virtually any upland site
- Black top (sometimes mottled) with gray-white bottom
- One possible sighting reported on the property; likely scarce



ource: http://www.bio.davidson.edu/people/midorcas/research/Field%20trips/SREL 20'02/Elaphe%20obsoleta%20-%209.20.02%20-%20SREL,%20SC%20-%204.jpg

Nerodia sipedon sipedon Northern water snake

- * Class Reptilia
 - * Order Squamata
 - * Suborder Serpentes
 - Family Colubridae
- Found in swamps, marshes & edges of streams, ponds and lakes
- * Variable appearance, but this is the only large water snake in the area
- Observed in several ponds; likely abundant on the property



Regina septemvittata Queen snake

- Class Reptilia
 - * Order Squamata
 - * Suborder Serpentes
 - * Family Colubridae
- Found in small stony creeks and rivers
- Yellow stripe on side, 4
 brown stripes on yellow
 bottom
- One possible sighting on the property; likely scarce



Source: http://www.neherp.com/img/jw/queen_snakeC.jpg

Thamnophis sirtalis sirtalis Eastern garter snake

- * Class Reptilia
 - * Order Squamata
 - * Suborder Serpentes
 - Family Colubridae
- Found almost anywhere
- Variable markings, normally have three yellowish stripes on top/sides with black spots between them
- Observed in almost every area of property; abundant



Source: http://www.bio.davidson.edu/people/midorcas/research Field%20trips/SREL03/Thamnophis%20sirtalis%20sirtalis.JPG

Storeria dekayi dekayi Northern brown snake

- Class Reptilia
 - * Order Squamata
 - * Suborder Serpentes
 - Family Colubridae
- Found in urban and moist rural sites, though often hiding
- Brown with two parallel rows of black spots on back
- No verified sightings on property, but is likely abundant



Source: http://www.clemson.edu/cef/Herp%20Images%20for %20web%20site/Serpentes/Storeria%20dekayi%202.jpg

Lampropeltis triangulum triangulum Eastern milk snake

- * Class Reptilia
 - * Order Squamata
 - Suborder Serpentes
 - Family Colubridae
- * Found in rural buildings, fields, rivers and hillsides
- Strongly patterned; differs from copperhead in that patterns continue onto head
- * No verified sightings on property, but is likely common



Summary of Reptiles at the University Farm

- Class Reptilia
 - * Order Testudinata
 - * Suborder Cryptodira
 - Family Chelydridae
 - Chelydra serpentina C
 - * Family Emydidae
 - * Chrysemys picta A
 - Terrapene carolina carolina \$
 - Order Squamata
 - * Suborder Sauria
 - * Family Scincidae
 - * Eumeces fasciatus S

- * Order Squamata (contd.)
 - Suborder Serpentes
 - * Family Colubridae
 - * Coluber constrictor constrictor \$
 - * Elaphe obsoleta obsoleta \$
 - Nerodia sipedon sipedon A
 - * Regina septemvittata S
 - Thamnophis sirtalis sirtalis A
 - Storeria dekayi dekayi P
 - Lampropeltis triangulum triangulum P

Class Amphibia - Amphibians

- Cold blooded
- Young hatch from eggs
- * Young are in a larval (usually aquatic) stage, and metamorphose into adults
- * Skin moist and glandular
- Toes without claws
- Includes salamanders, toads and frogs

Notophthalmus viridescens viridescens Red-spotted newt, Red eft

- * Class Amphibia
 - * Order Urodela
 - * Family Salamandridae
- Found in permanent and semi permanent unpolluted bodies of water
- Bright red spots of variable number and position
- Observed in wooded ravines and wetlands; abundant



*Desmognathus fuscus fuscus*Northern dusky salamander

- * Class Amphibia
 - * Order Urodela
 - Family Plethodontidae
- Found along the edges of woodland streams
- Dorsal keel on tail; gray or brown in color
- One possible
 observation in wooded
 ravine; likely scarce on
 property



Source: http://www.agurodela.de/daten_arten/desmognathus/ fuscus/desmognathus_fuscus3.jpg

Desmognathus ochrophaeus Mountain dusky salamander

- Class Amphibia
 - * Order Urodela
 - Family Plethodontidae
- Found along the edges of woodland streams
- * Round tail; stripe of varying colors down back and tail; black chevrons down back; fade from orange to brown as adults
- * Observed in many ravines and streams; abundant



Source: http://www.brevard.edu/science/MtnDusky4.jpg

Eurycea bislineata Northern two-lined salamander

- * Class Amphibia
 - * Order Urodela
 - * Family Plethodontidae
- * Found around the edges of woodland streams
- * Two dark dorsal lines; dorsal coloration is variable shades of yellow
- Observed in many ravines and streams; abundant



Plethodon cinereus Red-backed salamander

- Class Amphibia
 - * Order Urodela
 - Family Plethodontidae
- Commonly found in moist, undisturbed wooded areas
- Large red stripe from head to tail, though some individuals are solid gray/black
- Observed in wet areas of arboretum woods;
 abundant



Plethodon glutinosus Slimy salamander

- * Class Amphibia
 - * Order Urodela
 - Family Plethodontidae
- Commonly found on wooded ravines and hillsides
- Black with white or brass colored spots
- * Observed in one ravine; likely common



Bufo americanus American toad

- * Class Amphibia
 - * Order Anura
 - * Family Bufonidae
- Found anywhere relatively close to shallow water for breeding
- Most are brown with highly warted skin
- Observed virtually everywhere on the property; abundant



Source: http://www.cortland.edu/herp/keys/images/frogs/bamerilg.jpg

Pseudacris cricifer Spring peeper

- * Class Amphibia
 - Order Anura
 - * Family Hylidae
- Found in forests, typically in secondary growth areas
- Brown with imperfect, dark "X" on back
- * Observed in the field by the experimental pond; abundant



Source: http://www.kbs.msu.edu/ACWA/natres/natrgrh/frogtoad/speeper.gif

Rana catesbeiana Bull frog

- Class Amphibia
 - * Order Anura
 - * Family Ranidae
- Found along the edges of bodies of water, prefers large bodies of water
- "Mesh" gray/brown pattern on green back
- * Observed in the insect, upper and wade ponds; abundant



Source: http://deathvalley.us/amphibians/rana_catesbeiana_1.jpg

Rana clamitans melanota Green frog

- * Class Amphibia
 - Order Anura
 - * Family Ranidae
- * Found in shallow, fresh water
- * Variable coloration; green/brown above, brown/gray below
- * Observed in all ponds and several ravines; abundant



Rana palustris Pickerel frog

- * Class Amphibia
 - * Order Anura
 - Family Ranidae
- Found in bogs, rocky ravines and shallow streams
- Tan with two lines of dark, square spots down back
- Observed in several ravines, ponds and marshy areas; abundant



Summary of Amphibians at the University Farm

- Class Amphibia
 - * Order Urodela
 - * Family Salamandridae
 - Notophthalmus viridescens viridescens A
 - * Family Plethodontidae
 - Desmognathus fuscus fuscus \$
 - Desmognathus ochrophaeus A
 - * Eurycea bislineata A
 - Plethodon cinereus A
 - * Plethodon glutinosus C

- * Order Anura
 - Family Bufonidae
 - * Bufo americanus A
 - Family Hylidae
 - Pseudacris cricifer A
 - * Family Ranidae
 - * Rana catesbeiana A
 - * Rana clamitans melanota A
 - Rana palustris A

References

- * A Field Guide to Reptiles and Amphibians of Eastern and Central North America. Third Edition, expanded.
- Case Western Reserve University Farm Inventory and Analysis. 1983