

Amphibians and Reptiles

The herpetofauna of northeast South Dakota includes one salamander, four species of toads, five species of frogs, three species of turtles, one lizard, and five species of snakes. Two species of snakes and one turtle are considered accidental species, and the status of one species - the Mudpuppy, is unknown.

The following list is compiled from several references including; Backlund (2004), Fisher (1998), Kiesow (2006), and observations by the author, local conservation officers, and other reliable sources. Common and scientific names follow Kiesow (2006).

Amphibians and Reptiles Observed in Day, Grant, Marshall, and Roberts Counties, South Dakota.

❖ Amphibians

Salamanders



Tiger Salamander (photo by Dennis Skadsen)

Gray Tiger Salamander (*Ambystoma tigrinum diaboli*)

The Gray tiger salamander is common throughout northeast South Dakota. Eggs are laid in wetlands where the larvae hatch and mature to adults. Most adults are terrestrial; however some adults remain in the larval or neotenic form spending their entire lives in the water.

Mudpuppy (*Necturus maculosus*)

Status questionable. There are no recent observations of the mudpuppy in northeast South Dakota. Over (1923) stated the species is found only in Big Stone Lake and E.C. O'Roke (1924) reported collecting a single specimen from Waubay Lake in 1924, however neither reports were confirmed by museum specimens. Also a literature report of a mudpuppy collected from Big Stone Lake was referenced by Oldfield and Moriarty (1994). Mudpuppies were not caught during extensive fisheries surveys conducted by the Minnesota Department of Natural Resources in recent years on Big Stone Lake and Lake Traverse.

The severe droughts of the 1930s may have drastically reduced the distribution of this species and it may no longer occur in northeast South Dakota. Often the larvae and neotenic adult form of the Tiger salamander is mistaken for mudpuppies. Mudpuppies however have four toes on the hind feet while the tiger salamander has five toes. Any observations or specimens of the Mudpuppy should be reported to the S.D. Dept. of Game, Fish, and Parks.

Frogs and Toads

American Toad (*Anaxyrus americanus*)

Great Plains Toad (*Anaxyrus cognatus*)

Canadian Toad (*Anaxyrus hemiophrys*)

All three species listed above are considered common and abundant in northeast South Dakota. All adults are terrestrial and can often be found some distance from water.



Woodhouse's Toad (photo by Dennis Skadsen)

Woodhouse's Toad (*Anaxyrus woodhousii*)

No museum or literature records existed prior to 1998. Fisher (1998) reported the species calling in Marshall and Roberts Counties in 1997 and 1998, and collected a specimen near Rosholt in 1998. However, neither Skadsen nor Jessen could find Woodhouse's toad during surveys conducted in 2004 (Backlund 2004). This species may be at the northern limits of its range in northeast South Dakota and populations may vary from year-to-year.



Gray Treefrog (photo by Dennis Skadsen)

Cope's Gray Treefrog (*Hyla chrysoscelis*)
Eastern Gray Treefrog (*Hyla versicolor*)

The status of these two frogs in northeast South Dakota is still unclear. The only way to distinguish between the two is by their calls, however they're very similar. Currently, a study is underway that will identify which species are present in northeast South Dakota by testing specimens blood for chromosome type. The Eastern gray treefrog was once considered the only species of treefrog occurring in northeast South Dakota and records were confined to only the forested coulees located along the eastern slope of the prairie coteau. During a recent survey however, Jessen heard both species calling in Sica Hollow State Park. Both Jessen and Skadsen (Backlund 2004) heard Cope's gray treefrogs calling from wetlands well away from forested habitats near Drywood and One Road Lakes in western Roberts County in 2004. Skadsen recently collected non-calling gray treefrogs at the West Unit of the Pickerel Lake State Recreation Area the summer of 2005 and 2007. These are probably Cope's gray treefrog from the populations found near Drywood and One Road Lakes located just a few miles east of Pickerel Lake. Jessen (in Backlund 2004) heard a treefrog calling at Hartford Beach State Park in

2004 but was unsure as to which species he was hearing. At Sica Hollow State Park, treefrogs are often found setting on the large basal leaves of Common burdock plants.



Boreal Chorus Frog (photo by Dennis Skadsen)

Boreal Chorus Frog (*Pseudacris maculata*)

Common throughout northeast South Dakota. Our smallest frog is the most commonly heard species, singing from late April through early June from all types of wetlands.



Northern Leopard Frog - Burnsi variety (photo by Dennis Skadsen)

Northern Leopard Frog (*Lithobates pipiens*)

Common throughout northeast South Dakota. All three color morphs, the burnsi color morph shown above the kandiyohi color morph, and the normal color shown below have been observed in this area.



Northern Leopard Frog – normal color (photo by Dennis Skadsen)



Wood Frog (photo by Dennis Skadsen)

Wood Frog (*Lithobates sylvaticus*)

Prior to the severe droughts of the 1930s Wood frogs were apparently common throughout northeast South Dakota. Over (1923) reported the species as common in the coulees of Marshall and Roberts Counties but no museum specimens from these area have been found. Confirmed museum specimens include five Wood frogs collected near the outlet of Blue Dog Lake (Day County) in 1929; and one specimen collected at Hartford Beach along Big Stone Lake (Roberts County) in 1923. In 1960, Fishbeck and Underhill (1960) reported that Wood frogs no longer occurred in the coulees of Marshall and Roberts Counties as reported by Over, and surmised droughts, as well as over-harvesting of lumber and grazing of the coulees, may had led to the species demise in northeast South Dakota.

The Wood frogs status in the state was unknown until 1997 when Fisher (1998) found the species during surveys in northeast Roberts County. Further surveys by Jessen and Skadsen in 2004 found calling Wood frogs at Cottonwood Lake and several wetlands near Rosholt, SD in northeast Roberts County (Backlund 2004). This species is apparently expanding back into its former South Dakota range from Minnesota, possibly due to extremely wet conditions during the last ten years that have filled wetlands to capacity. If favorable conditions continue the species may well make its way back into the forested coulees of northwestern Roberts County, and may move down Lake Traverse to Big Stone Lake, eventually to Hartford Beach and northeast Grant County.

❖ Reptiles

Turtles



Snapping Turtle laying eggs along Owen's Creek
(photo by Dennis Skadsen)

Snapping Turtle (*Chelydra serpentina*)

Painted Turtle (*Chrysemys picta*)

The Snapping turtle and Painted turtle are both common throughout northeast South Dakota and can be observed in a variety of aquatic habitats that include streams, rivers, wetlands, and lakes. While the Painted turtle is usually docile, the Snapping turtle can inflict a nasty bite if improperly held or cornered while on land. They usually do not bite humans while in the water.



Painted Turtle (photo by Dennis Skadsen)

Spiny Softshell (*Apalone spinifera*)

The Spiny softshell's range is restricted to the lower reaches of the Yellowbank and Whetstone Rivers in Grant and Roberts Counties. May occur in Big Stone Lake.

Lizards



Northern Prairie Skink (photo by Dennis Skadsen)

Northern Prairie Skink (*Eumeces septentrionalis*)

The only lizard found in northeast South Dakota appears to be common despite the continuing

loss of grassland habitat. As the name implies this skink is found on native prairies and other grasslands. This species has an interesting defense mechanism to escape predators. When handled incorrectly or captured by a predator the skinks tail will detach. The wiggling detached tail will distract the predator allowing the skink to escape unharmed although tail-less. The tail will eventually re-grow.

Snakes



Western Hog-Nosed Snake (photo by Dennis Skadsen)

Western Hog-Nosed Snake (*Heterodon nasicus*)

This species has only been observed along the western slope of the Coteau in Day County in the area locally known as the Crocker-Crandall Hills. The upturned snout of the Western hog-nosed snake is used like a shovel to dig burrows in sandy soil.



Smooth Green Snake (photo by Dennis Skadsen)

Smooth Green Snake (*Liochlorophis vernalis*)

Reportedly uncommon, but this may be due to this snake's secretive manner. A relatively small snake with an average length of only 16 inches. Most often encountered in grasslands sunning on pocket gopher mounds or flat rocks.



Northern Redbelly Snake (photo by Dennis Skadsen)

Northern Redbelly Snake (*Storeria o. occipitomaculata*)

Common throughout northeast South Dakota in suitable habitat. The Northern redbelly snake is one of our smallest snakes, seldom reaching a length longer than ten inches. This species can be found along the wooded shorelines of area lakes and in forested coulees like Sica Hollow State Park.



Common Gartersnake (photo by Dennis Skadsen)

Plains Gartersnake (*Thamnophis radix*)

Common Gartersnake (*Thamnophis sirtalis*)

Both species common throughout northeast South Dakota, however the Common gartersnake is more apparent in the lowlands like the Little Minnesota and Whetstone Valleys of Roberts and Grant Counties.

❖ **Accidental Species**

Blanding's Turtle (*Emydoidea blandingii*)

Accidental. A Blanding's turtle observed in northern Robert's County in 2005 was likely an

escaped or released pet. There are no known natural populations of this species in northeast South Dakota and only a few records exist for the southeast corner of the state where the species is considered extremely rare.

Brownsnake (*Storeria dekayi*)

Accidental. The only South Dakota record of the Brownsnake is for a specimen collected near Big Stone City in 1922. An extensive survey for the species in 2004 found no evidence the species is extant in northeast South Dakota.

Gophersnake (*Pituophis catenifer*)

Accidental. A Gophersnake (or bullsnake) was captured near Pickerel Lake in 1969. Another Gophersnake was observed several months later near Bitter Lake; however the Pickerel Lake specimen may have been released at that locale.

❖ **Endangered and Threatened Species**

None of the above species are currently listed as state or federally endangered at this time. However, the following species are tracked by the South Dakota Natural Heritage Program managed by the SD Dept. of Game, Fish, and Parks. Observations of these species should be reported to the SD GFP.

- Mudpuppy
- Cope's gray treefrog
- Eastern gray treefrog
- Wood frog
- Spiny softshell turtle
- Blanding's turtle
- Smooth green snake
- Northern redbelly snake

❖ **Suggested References**

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