



Appendix E Species Lists

Amphibians of DeSoto National Wildlife Refuge

Salamanders:

Tiger Salamander (*Ambystoma tigrinum*)
Plains Spadefoot (*Scaphoipus bombifrons*)

Toads:

Great Plains Toad (*Bufo cognatus*)
Common American Toad (*Bufo americanus*)
Woodhouse ' s Toad (*Bufo woodhousei*)

Frogs:

Cricket Frog (*Acris crepitans*)
Gray Treefrog (*Hyla versicolor*)
Chorus Frog (*Pseudacris triseriata*)
Bullfrog (*Rana catesbeiana*)
Leopard Frog (*Rana pipiens*)

One or more specimens were observed from each of the species listed.

Mammals of DeSoto National Wildlife Refuge

Marsupials:

Opossum (*Didelphis marsupialis*) +

Insectivores:

Shorttail Shrew (*Blarina brevicauda*) +

Eastern Mole (*Scalopus aquaticus*) +

Bats:

Northern Myotis (*Myotis septentrionalis*) *

Little Brown Myotis (*Myotis lucifugus*) +

Silver-haired Bat (*Lasionycteris noctivagans*) *

Eastern Pipistrel (*Pipistrellus subflavus*) *

Big Brown Bat (*Eptesicus fuscus*) *

Hoary Bat (*Lasiurus cinereus*) *

Evening Bat (*Nycticeius humeralis*) *

Eastern Red Bat (*Lasiurus borealis*) *

Carnivores:

Raccoon (*Procyon lotor*) +

Mink (*Mustela vison*) +

Badger (*Taxidea taxus*) +

Striped Skunk (*Mephitis mephitis*) +

Longtail Weasel (*Mustela frenata*) +

Coyote (*Canis latrans*) +

Red Fox (*Vulpes fulva*) +

Gray Fox (*Urocyon cinereoargenteus*) *

Rodents:

Woodchuck (Groundhog, Marmot) (*Marmota marmox*) +

Thirteen-lined Ground Squirrel (*Spermophilus tridecemlineatus*) +

Franklin Ground Squirrel (*Spermophilus franklinii*) +

Eastern Fox Squirrel (*Sciurus niger*) +

Plains Pocket Gopher (*Geomys bursarius*) +

Plains Pocket Mouse (*Perognathus flavescens*) *

Beaver (*Castor canadensis*) +

Western Harvest Mouse (*Reithrodontomys magalotis*) +

Deer Mouse (*Peromyscus maniculatus*) +

White-footed Mouse (*Peromyscus leucopus*) +

Northern Grasshopper Mouse (*Onychomys leucogaster*) +

Prairie Vole (*Microtus ochrogaster*) +

Meadow Vole (*Microtus pennsylvanicus*) +

Muskrat (*Ondatra zibethicus*) +

Norway Rat (*Rattus norvegicus*) +

House Mouse (*Mus musculus*) +
Meadow Jumping Mouse (*Zapus hudsonius*) +

Rabbits:

Eastern Cottontail (*Sylvilagus floridanus*) +
Whitetail Jackrabbit (*Lepus townsendi*) +

Hoofed Mammals:

Whitetail Deer (*Odocoileus virginianus*) +

+ one or more specimens actually observed * possible occurrence (within range)



Coyote pup
credit: John Jave

Reptiles of DeSoto National Wildlife Refuge

Turtles:

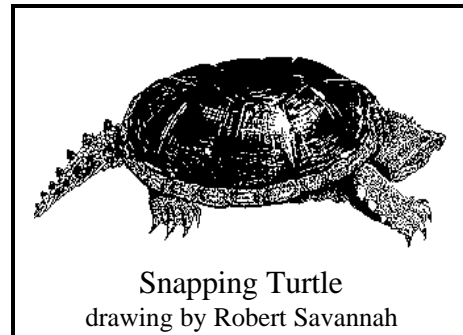
- Snapping Turtle (*Chelydra serpentina*) +
- Ornate Box Turtle (*Terepene ornata*) +
- False Map Turtle (*Graptemys pseudogeographica*) +
- Painted Turtle (*Chrysemys picta*) +
- Blandings Turtle (*Emydoidea blandingi*) *
- Smooth Softshell (*Trionyx muticus*) +
- Spiny Softshell (*Trionyx spiniferus*) +

Skinks:

- Six-lined Racerunner (*Cnemidophorus sexlineatus*) *
- Five-lined Skink (*Eumeces fasciatus*) *
- Prairie Skink (*Eumeces septentrionalis*) *

Snakes:

- Common Water Snake (*Natrix sipedon*) *
- Graham's Water Snake (*Natrix grahami*) *
- Brown Snake (*Storeria dekayi*) +
- Garter Snake (*Thamnophis sirtalis*) +
- Plains Garter Snake (*Thamnophis radix*) +
- Ribbon Snake (*Thamnophis sauritus*) *
- Lined Snake (*Tropidoclonion lineatum*) *
- Eastern Hognose Snake (*Heterodon platyrhinos*) +
- Western Hognose Snake (*Heterodon nasicus*) *
- Ringneck Snake (*Diadophis punctatus*) *
- Yellow-bellied Racer (*Coluber constrictor*) *
- Smooth Green Snake (*Opheodrys vernalis*) *
- Fox Snake (*Elaphe vulpina*) +
- Black Rat Snake (*Elaphe obsoleta*) *
- Bull Snake (*Pituophis melanoleucus*) +
- Common King Snake (*Lampropeltis getulus*) *
- Red Milk Snake (*Lampropeltis triangulum*) *
- Prairie King Snake (*Lampropeltis calligaster*) *
- Massasauga Rattlesnake (*Sistrurus catenatus*) *
- Timber Rattlesnake (*Crotalus horridus*) *
- Prairie Rattlesnake (*Crotalus viridis*) *



+ one or more specimens actually observed

* possible occurrence (within species' range)

Butterflies of DeSoto National Wildlife Refuge

Black Swallowtail
Giant Swallowtail
Tiger Swallowtail
Clouded Sulphur
Common Sulphur
Orange Sulphur
Cloudless Sulphur
Little Sulphur
Cabbage White
Northern Pearly Eye
Monarch
Little Wood-Satyr
Common Wood-Nymph
Variegated Fritillary
Regal Fritillary
Pearl Crescent
Questionmark Anglewing
Eastern Comma
Buckeye
Red Admiral
Painted Lady
Mourning Cloak
Viceroy
Red spotted Purple
Hackberry
Tawny Emperor
Olive Hairstreak
Bronze Copper
Spring Azure
Harvester

Eastern Tailed Blue
Reakirt's Blue
Checkered Skipper
Common Sootywing
Silver-spotted Skipper
Northern Cloudy Wing
Tawny-edged Skipper
Gray Hairstreak
Purplish Copper
Queen
Checkered White
Dogface Sulphur
Ottoe Skipper
Pawnee Skipper
Peck's Skipper
Gorgone Checkerspot
Silvery Checkerspot
Gray Copper
Gray Hairstreak
White checkered Skipper
Fiery Skipper
Snout
Goatweed
Milbert's Tortoise Shell
Pipevine Swallowtail
Spicebush Swallowtail
Dogface
Sleepy Orange
Little Yellow
Little Copper Flame

Lower Missouri River Fish Species List*

Chestnut Lamprey	<i>Icthyomyzon castaneus</i>	Central Silvery Minnow	<i>Hybognathus nuchalis</i>
Lake Sturgeon (S)	<i>Acipenser fulvescens</i>	West. Silvery Minnow (S)	<i>Hybognathus argyritis</i>
Shovelnose Sturgeon	<i>Scaphirhynchus platyrhynchus</i>	Plains Minnow (S)	<i>Hybognathus placitus</i>
Pallid Sturgeon (E)	<i>Scaphirhynchus alba</i>	Brassy Minnow	<i>Hybognathus hankinsoni</i>
Paddlefish (S)	<i>Polyodon spathula</i>	Bluntnose Minnow	<i>Pimephales notatus</i>
Shortnose Gar	<i>Lepisosteus platostomus</i>	Fathead Minnow	<i>Pimephales promelas</i>
Longnose Gar	<i>Lepisosteus osseus</i>	Central Stoneroller	<i>Campostoma anomalum</i>
Bowfin	<i>Amia calva</i>	Blue Sucker (S)	<i>Cycleptus elongatus</i>
American Eel	<i>Anguilla rostrata</i>	Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>
Rainbow Smelt (N)	<i>Osmerus mordax</i>	Black Buffalo	<i>Ictiobus niger</i>
Skipjack Herring	<i>Alosa chrysochloris</i>	Smallmouth Buffalo	<i>Ictiobus bubalus</i>
Alabama Shad	<i>Alosa alabamae</i>	River Carpsucker	<i>Carpiodes carpio</i>
Gizzard Shad	<i>Dorosoma cepedianum</i>	Quillback	<i>Carpiodes cyprinus</i>
Goldeye	<i>Hiodon alosoides</i>	White Sucker	<i>Catostomus commersoni</i>
Mooneye	<i>Hiodon tergisus</i>	Golden Redhorse	<i>Moxostoma erythrurum</i>
Northern Pike	<i>Esox lucius</i>	Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>
Carp (X)	<i>Cyprinus carpio</i>	Black Bullhead	<i>Ictalurus melas</i>
Goldfish (X)	<i>Carassius auratus</i>	Yellow Bullhead	<i>Ictalurus natalis</i>
Grass Carp (X)	<i>Ctenopharyngodon idella</i>	Channel Catfish	<i>Ictalurus punctatus</i>
Bighead Carp (X)	<i>Hypophthalmichthys nobilis</i>	Blue Catfish	<i>Ictalurus furcatus</i>
Silver Carp (X)	<i>Hypophthalmichthys molitrix</i>	Freckled Madtom	<i>Noturus nocturnus</i>
Golden Shiner	<i>Notemigonus crysoleucas</i>	Flathead Catfish	<i>Pylodictus olivaris</i>
Creek Chub	<i>Semotilus atromaculatus</i>	Burbot	<i>Lota lota</i>
Silver Chub	<i>Hybopsis storeriana</i>	Plains killifish	<i>Fundulus kansae</i>
Speckled Chub	<i>Hybopsis aestivalis</i>	Mosquitofish	<i>Gambusia affinis</i>
Flathead Chub (S)	<i>Hybopsis gracilis</i>	White Bass	<i>Morone chrysops</i>
Sicklefin Chub (C)	<i>Macrhybopsis meeki</i>	Striped Bass (N)	<i>Morone saxatilis</i>
Sturgeon Chub (C)	<i>Macrhybopsis gelida</i>	Hybrid Striped Bass (N)	<i>Morone chrysops * saxatilis</i>
Suckermouth Minnow	<i>Phenacobius mirabilis</i>	Largemouth Bass	<i>Micropterus salmoides</i>
Emerald Shiner	<i>Notropis atherinoides</i>	Green Sunfish	<i>Lepomis cyanellus</i>
Silverband Shiner	<i>Notropis shumardi</i>	Orangespotted Sunfish	<i>Lepomis humilis</i>
Redfin Shiner	<i>Notropis umbratilis</i>	Longear Sunfish	<i>Lepomis megalotis</i>
Striped Shiner	<i>Notropis chrysocephalus</i>	Bluegill	<i>Lepomis macrochirus</i>
River Shiner	<i>Notropis blennioides</i>	White Crappie	<i>Pomoxis annularis</i>
Bigmouth Shiner	<i>Notropis dorsalis</i>	Black Crappie	<i>Pomoxis nigromaculatus</i>
Spotfin Shiner	<i>Notropis spilopterus</i>	Walleye	<i>Stizostedion vitreum</i>
Red Shiner	<i>Notropis lutrensis</i>	Sauger	<i>Stizostedion canadense</i>
Sand Shiner	<i>Notropis stramineus</i>	Logperch	<i>Percina caprodes</i>
Mimic Shiner	<i>Notropis volucellus</i>	Johnny Darter	<i>Etheostoma nigrum</i>
Ghost Shiner	<i>Notropis buechanani</i>	Orangethroat Darter	<i>Etheostoma spectabile</i>
Rosyface Shiner	<i>Notropis rubellus</i>	Freshwater Drum	<i>Aplodinotus grunniens</i>
Channel Shiner	<i>Notropis wickliffi</i>		

E - Endangered species

C - Candidate species

X - Exotic species

S - Species of concern

N- NonIndigenous species

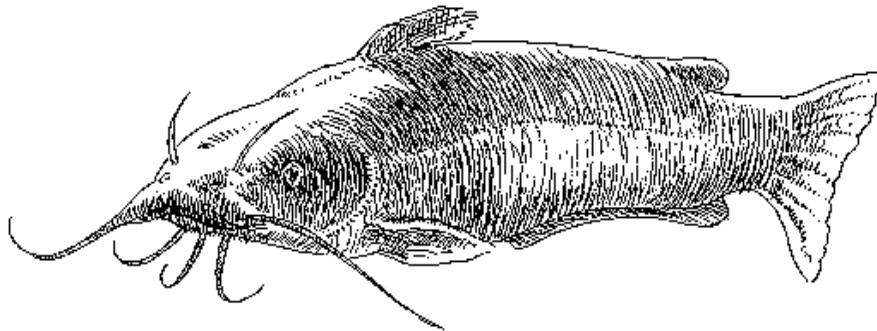
* Any of these species may possibly occur in the reach of the Missouri River that runs through DeSoto National Wildlife Refuge; list courtesy Jim Milligan, USFWS Columbia Fisheries Resources Office

Fish found in the DeSoto Bend reach of the Missouri River*

<u>Common Name</u>	<u>Scientific Name</u>
Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>
Paddlefish	<i>Polyodon spathula</i>
Longnose gar	<i>Lepisosteus osseus</i>
Shortnose gar	<i>Lepisosteus platostomus</i>
Goldeye	<i>Hiodon alosoides</i>
American eel	<i>Anguilla rostrata</i>
Skipjack herring	<i>Alosa chrysochloris</i>
Gizzard shad	<i>Dorosoma cepedianum</i>
Speckled chub	<i>Macrhybopsis aestivalis</i>
Silver chub	<i>Macrhybopsis storeriana</i>
Flathead chub	<i>Platygobio gracilis</i>
Creek chub	<i>Semotilus atromaculatus</i>
Red shiner	<i>Cyprinella lutrensis</i>
Spotfin shiner	<i>Cyprinella spiloptera</i>
Emerald shiner	<i>Notropis atherinoides</i>
River shiner	<i>Notropis blennioides</i>
Bigmouth shiner	<i>Notropis dorsalis</i>
Spottail shiner	<i>Notropis hudsonius</i>
Sand shiner	<i>Notropis stramineus</i>
Western silvery minnow	<i>Hybognathus argyritis</i>
Fathead minnow	<i>Pimephales promelas</i>
Goldfish	<i>Carassius auratus</i>
Grass carp	<i>Ctenopharyngodon idella</i>
Common carp	<i>Cyprinus carpio</i>
Bighead carp	<i>Hypophthalmichthys nobilis</i>
River carpsucker	<i>Carpiodes carpio</i>
Quillback	<i>Carpiodes cyprinus</i>
White sucker	<i>Catostomus commersoni</i>
Blue sucker	<i>Cycleptus elongatus</i>
Smallmouth buffalo	<i>Ictiobus bubalus</i>
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>
Black buffalo	<i>Ictiobus niger</i>
Shorthead redhorse	<i>Moxostoma macrolepidotum</i>
Black bullhead	<i>Ameiurus melas</i>
Yellow bullhead	<i>Ameiurus natalis</i>
Blue catfish	<i>Ictalurus furcatus</i>
Channel catfish	<i>Ictalurus punctatus</i>
Flathead catfish	<i>Pylodictis olivaris</i>
Stonecat	<i>Noturus flavus</i>

Northern pike	<i>Esox lucius</i>
Rainbow smelt	<i>Osmerus mordax</i>
White bass	<i>Morone chrysops</i>
Green sunfish	<i>Lepomis cyanellus</i>
Orangespotted sunfish	<i>Lepomis humilis</i>
Bluegill	<i>Lepomis macrochirus</i>
Smallmouth bass	<i>Micropterus dolomieu</i>
Largemouth bass	<i>Micropterus salmoides</i>
White crappie	<i>Pomoxis annularis</i>
Black crappie	<i>Pomoxis nigromaculatus</i>
Johnny darter	<i>Etheostoma nigrum</i>
Yellow perch	<i>Perca flavescens</i>
Sauger	<i>Stizostedion canadense</i>
Walleye	<i>Stizostedion vitreum</i>
Freshwater drum	<i>Aplodinotus grunniens</i>

* Courtesy Gerald Mestl, Missouri River Program Manager, Nebraska Game and Parks; based on 30 years of survey data.



Yellow bullhead catfish by Robert Savannah, USFWS

DeSoto Lake Fish

<u>Common Name</u>	<u>Scientific Name</u>
Largemouth bass	<i>Micropterus salmoides</i>
White bass	<i>Morone chrysops</i>
Bluegill	<i>Lepomis macrochirus</i>
Green sunfish	<i>Lepomis cyanellus</i>
Paddlefish	<i>Polyodon spathula</i>
Fathead minnow	<i>Pimephales promelas</i>
Black crappie	<i>Pomoxis nigromaculatus</i>
White crappie	<i>Pomoxis annularis</i>
Golden shiner	<i>Notemigonus crysoleucas</i>
Freshwater drum	<i>Aplodinotus grunniens</i>
Northern pike	<i>Esox lucius</i>
Gizzard shad	<i>Dorosoma cepedianum</i>
Walleye	<i>Stizostedion vitreum</i>
Common carp	<i>Cyprinus carpio</i>
Bighead carp	<i>Hypophthalmichthys nobilis</i>
Grass carp	<i>Ctenopharyngodon idella</i>
Channel catfish	<i>Ictalurus punctatus</i>
Flathead catfish	<i>Pylodictis olivaris</i>
Blue catfish	<i>Ictalurus furcatus</i>
Black bullhead	<i>Amerius melas</i>
Yellow bullhead	<i>Amerius natalis</i>
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>
Smallmouth buffalo	<i>Ictiobus bubalus</i>
White sucker	<i>Catostomus commersoni</i>
Quillback	<i>Carpionodes cyprinus</i>
Goldeye	<i>Hiodon alosoides</i>

* All species listed have been collected in fish surveys or caught commercially in the lake since 1990 (courtesy Jim Milligan and Steve Van Riper)