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CHECKLIST OF THE RECENT VERTEBRATE FAUNA OF THE LUBBOCK LAKE LANDMARK STATE HISTORICAL PARK: 1995-1997

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The Museum of Texas Tech University in cooperation with Texas Parks and Wildlife Department (TPWD) is conducting a faunal survey of state properties administered by TPWD. The goal of these surveys is to document the species that are present and to archive voucher specimens and vital tissues (samples of heart, liver, kidney, spleen, muscle, blood) for mammals, reptiles, and amphibians as baseline data for reference in future studies. These archived samples are viewed as resources in addressing questions critical to understanding the vertebrate fauna of Texas.

The Lubbock Lake Landmark State Historical Park is an archaeological preserve located in Yellowhouse Draw in northern Lubbock, Texas. The Park encompasses 136 ha of land, of which approximately 45 ha is represented by upland vegetation. The remaining 91 ha is a mesquite savannah that includes an Interpretative Center, active archaeological excavation area, nature trails, and a seasonal water source in the form of a small impoundment. The Park is surrounded by agricultural land, a golf course, and city recreational land, resulting in the Park being an oasis and refuge for many wildlife species that no longer occur in the urban setting of the city of Lubbock.

A survey was conducted over a two year period (1995-1997) to identify the vertebrate fauna present on Park lands. As a result of this survey, a checklist was developed as a service to the many people who utilize and enjoy the wildlife species occurring at the Lubbock Lake Landmark State Historical Park. This checklist is by no means complete, and we anticipate additional species being added as more surveys are conducted. In addition, we expect the efforts by Park personnel to return the habitat to a more native condition will have a positive impact on the vertebrate fauna and associated species composition. The mammals, birds, and reptiles contained in the checklist were identified using Davis and Schmidly (1994), National Geographic Society (1987), American Ornithologists' Union (1998), and Dixon (1987). These guides would serve as excellent field guides for the interested visitor. Additional information concerning the natural history of the Lubbock Lake Landmark State Historical Site may be found in the following publications: Choate (1998); Launchbaugh et al. (1996); and Johnson (1987).

This checklist will be available and updated on the Natural Science Research Laboratory homepage (<http://www.nsrl.ttu.edu>), and we would welcome information on the presence of any additional taxa.

MAMMALS

The checklist for mammals follows that of Davis and Schmidly (1994). Voucher specimens are deposited in the Natural Science Research Laboratory, the Museum of Texas Tech University.

Didelphimorphia

Didelphis virginiana Virginia Opossum

Lagomorpha

Sylvilagus audubonii Desert Cottontail

Sylvilagus floridanus Eastern Cottontail

Lepus californicus Black-tailed Jackrabbit

Rodentia

Cynomys ludovicianus Black-tailed Prairie Dog

Cratogeomys castanops Yellow-faced Pocket Gopher

Chaetodipus hispidus Hispid Pocket Mouse

Reithrodontomys megalotis Western Harvest Mouse

Reithrodontomys montanus Plains Harvest Mouse

Peromyscus maniculatus Deer Mouse

Baiomys taylori Northern Pygmy Mouse

Onychomys leucogaster Northern Grasshopper Mouse

Sigmodon hispidus Hispid Cotton Rat

Mus musculus House Mouse

Carnivora

Canis latrans Coyote

Urocyon cinereoargenteus Common Gray Fox

Mephitis mephitis Striped Skunk

REPTILES

The checklist for reptiles follows that of Dixon (1987). Voucher specimens are deposited in the Natural Science Research Laboratory, the Museum, Texas Tech University.

Testudinata

Terrapene ornata Ornate Box Turtle

Squamata

Lampropeltis getula Desert Kingsnake

Phrynosoma cornutum Texas Horned Lizard

BIRDS

The checklist for birds follows the “The A.O.U. Check-list of North American Birds” (American Ornithologists’ Union, 1998). No voucher specimens were collected.

Bitterns and Herons

Ardea herodias Great Blue Heron

Swans, Geese, and Ducks

Branta canadensis Canada Goose

Anas strepera Gadwall

Anas platyrhynchos Mallard

Anas crecca Green-winged Teal

Kites, Hawks, Eagles, and Allies

Circus cyaneus Northern Harrier

Accipiter gentilis Northern Goshawk†

Buteo swainsoni Swainson’s Hawk

Buteo jamaicensis Red-tailed Hawk

Buteo regalis Ferruginous Hawk

Aquila chrysaetos Golden Eagle

Caracaras and Falcons

Falco sparverius American Kestrel

Falco mexicanus Prairie Falcon

Grouse and Turkeys

Phasianus colchicus Ring-necked Pheasant

New World Quail

Colinus virginianus Northern Bobwhite*

Plovers

Charadrius vociferus Killdeer

Pigeons and Doves

Columba livia Rock Dove

Zenaida macroura Mourning Dove*

Cuckoos, Roadrunners, and Anis

Coccyzus americanus Yellow-billed Cuckoo*

Barn Owls

Speotyto cunicularia Burrowing Owl*

Woodpeckers and Allies

Colaptes auratus Northern Flicker

Tyrant Flycatchers

Sayornis phoebe Eastern Phoebe

Sayornis saya Say's Phoebe
Tyrannus verticalis Western Kingbird
Tyrannus forficatus Scissor-tailed Flycatcher

Shrikes

Lanius ludovicianus Loggerhead Shrike

Jays, Magpies, and Crows

Cyanocitta cristata Blue Jay

Swallows

Petrochelidon pyrrhonota Cliff Swallow*

Thrushes and Allies

Catharus guttatus Hermit Thrush

Turdus migratorius American Robin*

Thrashers and Allies

Mimus polyglottos Northern Mockingbird

Starlings

Sturnus vulgaris European Starling

Pipits

Anthus spragueii Sprague's Pipit†

Wood-Warblers

Dendroica coronata Yellow-rumped Warbler*†

Oporornis tolmiei MacGillivray's Warbler

Sparrows, Buntings, and Allies

Aimophila ruficeps Rufous-crowned Sparrow

Spizella arborea American Tree Sparrow

Spizella pusilla Field Sparrow

Pooecetes gramineus Vesper Sparrow

Chondestes grammacus Lark Sparrow*

Melospiza melodia Song Sparrow

Zonotrichia leucophrys White-crowned Sparrow

Junco hyemalis Dark-eyed Junco

Grosbeaks and Allies

Cardinalis cardinalis Northern Cardinal

Blackbirds and Orioles

Agelaius phoeniceus Red-winged Blackbird

Sturnella neglecta Western Meadowlark*

Euphagus cyanocephalus Brewer's Blackbird

Quiscalus mexicanus Great-tailed Grackle

Molothrus ater Brown-headed Cowbird

Icterus bullockii Bullock's Oriole*

Finches and Allies

<i>Carpodacus purpureus</i>	Purple Finch†
<i>Carpodacus mexicanus</i>	House Finch*
<i>Carduelis tristis</i>	American Goldfinch

Old World Sparrows

<i>Passer domesticus</i>	House Sparrow*
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* = sighting of active nest

† = very rare in the Lubbock area, additional verification is needed

DISCUSSION

The results of this survey included 17 species of mammals, three species of reptiles, and 54 species of birds. Although the diversity of mammals and birds is substantial and reflects the previously documented diversity for the Llano Estacado, there is a serious paucity of reptilian and amphibian fauna. For example, given the seasonal water source, we expected to find spade-foot toads (*Scaphiopus bombifrons*, *S. couchii*, and *S. hammondi*), leopard frogs (*Rana blairi*), and garter snakes (*Thamnophis proximus*, and *T. marcianus*). Also missing from the terrestrial habitat were numerous species of snakes including: prairie and western diamond-back rattlesnakes (*Crotalus viridis* and *C. atrox*), bull snakes (*Pituophis melanoleucus*), hog-nosed snakes (*Heterodon nasicus*) and coachwhip snakes (*Masticophis flagellum*). Several species of lizards also were absent from our survey; some of the more common species we expected to encounter included: lesser earless (*Holbrookia maculata*), greater earless

(*Cophosaurus texanus*), collared (*Crotaphytus collaris*), eastern fence lizard (*Sceloporus undulatus*), and six-lined racerunner (*Cnemidophorus sexlineatus*). No doubt several other species of amphibians and reptiles potentially should occur at the Lubbock Lake Landmark but were not encountered during our survey. It is not clear if the absence of the herptile fauna was the result of the dry period that affected the site from 1995-1997, the result of extirpation of fauna from this area, or if this is the result of the overall decline of amphibians and reptiles on a global basis. Alternatively, our low representation of amphibians and reptiles could be the result of our collecting efforts or techniques. What is clear is that these species, at present, occur in low numbers within the boundaries of the Lubbock Lake Landmark State Historical Park and attention should be given over the next few years to monitor the possibility that these species are still viable within the Park.

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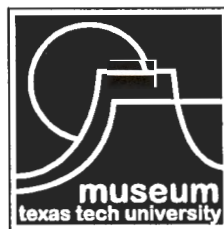
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PUBLICATIONS OF THE MUSEUM OF TEXAS TECH UNIVERSITY

It was through the efforts of Horn Professor J Knox Jones, as director of Academic Publications, that Texas Tech University initiated several publications series including the Occasional Papers of the Museum. This and future editions in the series are a memorial to his dedication to excellence in academic publications. Professor Jones enjoyed editing scientific publications and served the scientific community as an editor for the *Journal of Mammalogy*, *Evolution*, *The Texas Journal of Science*, *Occasional Papers of the Museum*, and *Special Publications of the Museum*. It is with special fondness that we remember Dr. J Knox Jones.

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