

SPECIES ANALYSIS SUMMARY
 Project Name: US Highway 69 Corridor: Gateway to the Big Thicket
 CSJ(s): 0200-08-049, 0200-09-069

County	Taxon	Common Name	Scientific Name	Habitat	Suitable Habitat Present?	Explanation for determination regarding suitable habitat	Federal Status	Effect/Take Determination for Federally Listed Species	State Status	Impact Determination for State-Listed Species	Explanation for Effect/Take and/or Impact Determination	Presence/Absence survey conducted?
Hardin, Tyler	Birds	Bachman's Sparrow	<i>Peucaea aestivalis</i>	Occurring in the Pineywoods of east Texas, Bachman's sparrow optimal habitat consists of fire controlled mature southern pine woodland with a well-developed grass and herb layer with limited shrub and hardwood midstory components. Suboptimal habitat known to be utilized by the species includes brushy or overgrown grassy hillsides, overgrown fields with thickets and brambles, grassy orchards, and remnant grasslands in the Post Oak Savannah region of Texas.	N	Although pine woods are abundant within the project area, these communities are either active managed pine plantations or relic pine plantations with dense understory vegetation. No brushy or overgrown grassy hillsides or fields occur within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Birds	Bald Eagle	<i>Haliaeetus leucocephalus</i>	The species occurs throughout Texas and is divided into two populations: breeding and non-breeding or wintering birds. Breeding populations occur primarily in the eastern half of the state and in coastal counties from Rockport to Houston. Nonbreeding or wintering populations are located primarily in the panhandle, central, and east Texas, and in other areas of suitable habitat throughout the state. Habitat consists of dense mature coniferous or hardwood trees adjacent to large open bodies of water. Breeding habitat can include any type of wetland habitat such as rivers, marshes, or large lakes with high concentration of prey fish. Trees utilized for nesting are typically over 60 feet tall, have an open structure, and close proximity to habitat edge.	N	No rivers or large lakes occur within the project area. Although large creeks do occur within the project area, the width of the channel and density of streamside vegetation is not conducive to foraging eagles.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Birds	Least Tern	<i>Sternula (=Sterna) antillarum</i>	The interior population (subspecies <i>athalassos</i>) of the Least Tern nests on bare or sparsely vegetated sand, shell, and gravel beaches, sandbars, islands, and salt flats associated with inland rivers and reservoirs. It occasionally nests on man-made structures such as sand and gravel pits or gravel rooftops. Preferred habitat includes sand and gravel bars within a wide unobstructed river channel, or open flats along shorelines of lakes and reservoirs. Colony sites can move annually, depending on landscape disturbance and vegetation growth at established colonies. It is known to nest at three reservoirs along the Rio Grande River, on the Canadian River in the northern Panhandle, and along the Red River.	N	The species is a potential migrant; the project area contains no coastal marshes or inland rivers with gravel beaches, sandbars, islands, or salt flats.	E	No effect	E	No impact	No suitable habitat occurs in the project area.	N

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Hardin, Tyler	Birds	Piping Plover	<i>Charadrius melodus</i>	This migratory species overwinters in Texas, where it occurs on beaches, ephemeral sand flats, barrier islands, sand, mud, algal flats, washover passes, salt marshes, lagoons, and dunes along the Gulf Coast and adjacent offshore islands, including spoil islands in the Intracoastal Waterway. Algal flats appear to be the highest quality habitat because of their relative inaccessibility and their continuous availability throughout all tidal conditions. Sand flats often appear to be preferred over algal flats when both are available, but large portions of sand flats along the Texas coast are available only during low or very low tides and are often completely unavailable during extreme high tides or strong north winds. Beaches appear to serve as a secondary habitat to the flats associated with the primary bays, lagoons, and inter-island passes. Beaches are rarely used on the southern Texas coast, where bayside habitat is always available, and are abandoned as bayside habitats become available on the central and northern coast.	N	No beaches or bayside mud or salt flats occur in the project area. USFWS only considers affects to this species in the case of wind energy projects.	T	No effect	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Birds	Red Knot	<i>Calidris canutus rufa</i>	The species is a winter resident and migrant in Texas. It is primarily found in marine habitats such as sandy beaches, salt marshes, lagoons, mudflats of estuaries and bays, and mangrove swamps during winter months. It primarily occurs along the Gulf coast on tidal flats and beaches and less frequently in marshes and flooded fields. It has occasionally been observed along shorelines of large lakes and freshwater marshes.	N	No seacoasts on tidal flats and beaches, suitable herbaceous wetlands, or tidal flat/shores occur in the project area.	T	No effect	—	N/A	No suitable habitat occurs in the project area.	N

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Hardin, Tyler	Birds	Red-cockaded Woodpecker	<i>Picoides borealis</i>	The species is a year-round resident of the Piney Woods ecosystem of east Texas. Optimal habitat consists of pine forest with large, widely-spaced trees. It nests in cavities in mature (over 60 years old) longleaf pine (<i>Pinus palustris</i>), when it occurs, but will also utilize shortleaf (<i>P. echinata</i>) and loblolly pine (<i>P. taeda</i>). Relatively younger pines (over 30 years old) can be used for foraging. Nest cavities are excavated from living trees, taking 1 to 3 years to create. As a cooperative breeding species, nest cavities occur in clusters, with 1 to 20 cavity trees occurring over 3 to 60 acres. The clan home range is approximately 200 acres when not nesting.	N	The project area does not contain old growth pine forests with little to no understory vegetation, which is the required breeding and foraging habitat for this species. The majority of the pine woodland has not been managed and has a dense understory component. The loblolly pine plantation areas are young pines, managed for timber production. Additionally, the project occurs outside the currently understood occupied range for this species. An NDD EO is within a 1.5 mile buffer of the proposed project location; with a last observation in 1987.	E	No effect	E	No impact	No suitable habitat occurs in the project area.	N
Hardin	Birds	Reddish Egret	<i>Egretta rufescens</i>	A year-round resident of the Texas Gulf Coast, the species inhabits saline, hypersaline, or brackish coastal habitats including barren sand or mud tidal flats, salt ponds, lagoons, and open mangrove communities. It occurs less frequently in other habitats such as coastal beaches, sparsely-vegetated freshwater marshes, and the shores of lake and reservoirs. It nests on the ground or low in mangroves or other terrestrial vegetation (e.g. mesquite [<i>Prosopis glandulosa</i>], yucca [<i>Yucca</i> sp.], or prickly-pear [<i>Opuntia</i> sp.]) on natural islands or man-made dredge spoil islands, but it also occasionally nests on the coastal mainland. It forages in shallow water usually less than 15 centimeters deep.	N	No brackish marshes, shallow salt ponds or tidal flats within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N

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Hardin, Tyler	Birds	Swallow-tailed Kite	<i>Elanoides forficatus</i>	This migratory species breeds in the South Central Plains of east Texas and throughout the southeastern U.S. In Texas, breeding habitat occurs between sea level and 230 meters in elevation in bottomland forests, cypress swamps, pine glades, and freshwater marshes skirting large lakes. It nests near the tops of trees that are higher than the surrounding stand, often near a clearing or the edge of a forest or woodland. It prefers to nest in pines, but occasionally uses species such as bald cypress (<i>Taxodium distichum</i>), water oak (<i>Quercus nigra</i>), or cottonwood (<i>Populus deltoides</i>).	Y	Forested pine areas along large creeks and flooded wetlands occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the project area.	N
Hardin, Tyler	Birds	White-faced Ibis	<i>Plegadis chihi</i>	The species is found in the Western Gulf Coastal Plains ecoregion of Texas. Preferred habitat includes freshwater wetlands, marshes, ponds, rivers, irrigated land, and sloughs, but it occasionally forages in brackish or saltwater marshes. It nests in marshes in low trees, on the ground in bulrushes (<i>Scirpus</i> sp.) or reeds, or on floating mats.	N	No marshes, sloughs, or rice fields occur within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Birds	Wood Stork	<i>Mycteria americana</i>	The species breeds in Mexico, and nesting sites have not been recorded in Texas since 1960. However, post-breeding migrants disperse into Texas in the summer. Foraging habitat includes freshwater prairie ponds, flooded pastures or fields, ditches, and other shallow standing water with an open canopy, occasionally including brackish wetlands. The species typically roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries).	Y	Although freshwater wetlands occur throughout the project area, these areas are primarily located within the forested areas and do not have an open canopy. There are several roadside ditches and open water features located within the proposed alignment that could provide suitable foraging habitat. The species is a potential migrant throughout Texas in the summer; however, no nesting habitat occurs in the project area.	—	N/A	T	May impact	Suitable foraging habitat occurs in the project area.	N
Tyler	Fishes	Blue Sucker	<i>Cyprinostomus elongatus</i>	Within Texas, the blue sucker occurs in limited numbers throughout the major streams and rivers within the state, except the Rio Grande. The species inhabits large, deep rivers, and deeper zones of lakes. River habitat is characterized by cobble and/or bedrock substrates. Adults occupy areas with deep riffles, while juveniles are found in shallower, less swift riffles.	N	No major rivers occur within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N

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Tyler	Fishes	Paddlefish	<i>Polyodon spathula</i>	The paddlefish is known to occur in the Red River, Toledo Bend Reservoir, the Middle Neches basin, and the West Fork of the San Jacinto River. Habitat for the species includes slow-flowing water of large and medium-sized rivers, river-margin lakes, channels, oxbows, backwaters, and impoundments with access to spawning areas. Spawning occurs in fast shallow water over gravel bars.	N	No large rivers or impoundments occur within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Fishes	Western Creek Chubsucker	<i>Erimyzon claviformis</i>	The species is widespread in east Texas from the Red to the San Jacinto Rivers. The species occurs in pools of clear headwaters, creeks, and small rivers with silt, sand, and gravel substrates, and occasionally in lakes. It is frequently found near submergent vegetation. Spawning occurs in river mouths or pools, riffles, lake outlets, or upstream creeks.	Y	This species may occur in the small, vegetated creeks within the project area. An NDD EO from 1979 intersects the proposed project location.	—	N/A	T	May impact	Suitable habitat occurs in the project area.	N
Hardin, Tyler	Mammals	Louisiana Black Bear	<i>Ursus americanus luteolus</i>	Historically, Louisiana black bear occurred in east Texas throughout the Western Gulf Coastal Plains ecoregion and as far west as the San Antonio River drainage basin. Habitat includes bottomland hardwood forest, brackish and freshwater marshes, salt domes, wooded spoil levees along canals, bayous, and agricultural fields. It generally requires areas with large tracts of inaccessible forest.	Y	Large tracts of inaccessible forested areas, such as forests surrounding Village Creek and Hickory Creek, occur within the project area. Additionally, the area south of Village Mills where the Big Thicket National Preserve abuts the right-of-way provides a large tract of contiguous habitat for this species.	—	N/A	T	May impact	Suitable habitat occurs in the project area.	N
Hardin, Tyler	Mammals	Rafinesque's Big-eared Bat	<i>Corynorhinus rafinesquii</i>	This species occurs in the bottomland pine and hardwood forests of east Texas. The species is known to roost in hollow trunks of bottomland hardwoods such as black gum (<i>Nyssa sylvatica</i>), southern magnolia (<i>Magnolia grandiflora</i>), and water tupelo (<i>Nyssa aquatica</i>). It also roosts in caves and man-made structures such as bridges, culverts, and abandoned buildings.	Y	This species could occur within concrete culverts, concrete bridges, and abandoned man-made structures within the project area. Mature bottomland pine and hardwood forest occur along Village Creek, Hickory Creek, and Black Creek.	—	N/A	T	May impact	Suitable habitat occurs in the project area.	N

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Hardin, Tyler	Mollusks	Louisiana Pigtoe	<i>Pleurobema riddellii</i>	Freshwater mussel currently found in the Sabine, Neches, and Trinity River basins in Texas. The species occurs in streams to medium-sized rivers with moderate flow. In Texas, the species has only been documented occurring in relatively shallow lotic waters with preferable substrate being sand and sand with gravel and silt. It is not generally known to tolerate impoundments.	Y	The project occurs within the Neches River basin. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the perennial creeks (Hickory and Village Creeks) of project area. Construction is proposed in both perennial streams within the project area.	N
Hardin, Tyler	Mollusks	Sandbank Pocketbook	<i>Lampsilis satura</i>	A freshwater mussel that is currently limited to the Upper Trinity, Neches, Sabine, and San Jacinto River basins in Texas. The species occurs in flowing small to large rivers with gravel, gravel-sand, and sand substrates. It has been observed in littoral areas with snags, gravel, or sand substrate with slow to moderate currents, as well as lotic waters in substrates of sand, silty sand, and sand and clay mixture.	Y	The project occurs within the Neches River basin. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the perennial creeks (Hickory and Village Creeks) of project area. Construction is proposed in both perennial streams within the project area.	N
Hardin, Tyler	Mollusks	Southern Hickorynut	<i>Obovaria arkansasensis</i>	A freshwater mussel that is currently known from the Neches and Sabine River basins in Texas. The species occurs in small to large rivers with medium-sized gravel substrate and low to moderate current.	Y	The project occurs within the Neches River basin. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the perennial creeks (Hickory and Village Creeks) of project area. Construction is proposed in both perennial streams within the project area.	N
Hardin, Tyler	Mollusks	Texas Heelsplitter	<i>Potamilus amphichaenus</i>	A freshwater mussel currently known from the Trinity, Neches, and Sabine River basins. The species occurs in small streams to medium rivers with sand or mud substrate. It is found in flowing water but not in riffles or shoals. It prefers quiet waters and can be found in reservoirs.	Y	The project occurs within the Neches River basin. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the perennial creeks (Hickory and Village Creeks) of project area. Construction is proposed in both perennial streams within the project area.	N
Hardin, Tyler	Mollusks	Texas Pigtoe	<i>Fusconaia askewi</i>	A freshwater mussel endemic to the Neches and Sabine River basins in Texas. The species occurs in medium to large rivers with mixed mud, sand, and fine gravel substrate in areas protected from swift currents by fallen trees or other structures.	Y	The project occurs within the Neches River basin. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs within the perennial creeks (Hickory and Village Creeks) of project area. Construction is proposed in both perennial streams within the project area.	N

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Tyler, Hardin	Plants	Texas Trailing Phlox	<i>Phlox nivalis ssp. texensis</i>	This perennial herb is endemic to the Piney Woods of east Texas. It is found in relatively open, fire-maintained pine (<i>Pinus</i> spp.) or pine-hardwood forests on soils with a deep, sandy surface layer and clayey subsurface layers. .	Y	Although the majority of the project area does not appear to be regularly maintained with fire, pine and pine-hardwood forests on soils with a deep, sandy surface layer or clayey subsurface layers are present throughout the project area. Several habitat associates were noted during the site visit; no individuals of this species were observed in November 2018 or June 2019, but a targeted species survey was not conducted.	E	No effect	E	No impact	Suitable habitat occurs in the project area. A vegetation survey will be conducted for this species.	N
Hardin, Tyler	Reptiles	Alligator Snapping Turtle	<i>Macrochelys temminckii</i>	Occurs in East Texas where it inhabits perennial water bodies such as the deep water of rivers, canals, lakes, and oxbows, along with swamps, bayous, and ponds near deep running water. Preferred habitat is usually in water with a mud bottom and abundant aquatic vegetation, but the species may use sand-bottomed creeks.	Y	The project occurs within the Neches River basin and includes the Village Creek watershed. Two perennial streams, Village Creek and Hickory Creek, occur within the project area.	—	N/A	T	May impact	Suitable habitat occurs in the project area, and construction is proposed in both perennial streams within the project area.	N

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Hardin, Tyler	Reptiles	Louisiana Pine Snake	<i>Pituophis ruthveni</i>	The species occurs in the pineywoods of east Texas in longleaf pine savannah with substantial herbaceous ground cover, and pine-oak sandhills interspersed with moist bottomlands. Pocket gophers (<i>Geomys breviceps</i>) are an essential component of the snake habitat. They create burrow systems where the snakes are most frequently found and are a major source of food for the species.	N	The project occurs outside the currently estimated occupied range for this species (USFWS, 2018). Additionally, relic longleaf and shortleaf pine woodlands and plantations are not present within the project area. The pine and mixed hardwood forests have been previously cleared and managed for loblolly pine timber, which typically creates unsuitable habitat for this species due to forest floor shading and increased soil moisture. No pocket gopher mounds were observed during field investigations.	T	No effect	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Reptiles	Northern Scarlet Snake	<i>Cemophora coccinea copei</i>	The species occurs in scattered areas across east Texas, occurring in pine, hardwood, or pine-oak forest on well-drained sandy or loamy soils.	Y	Mixed hardwood scrub on sandy soils occurs throughout the project area.	—	N/A	T	May impact	Suitable habitat occurs in the project area.	N
Hardin	Reptiles	Texas Horned Lizard	<i>Phrynosoma cornutum</i>	The species is found in semi-arid open areas with scattered vegetation comprised of bunchgrass, cacti, yucca, mesquite, acacia, juniper, or other woody shrubs and small trees commonly found in loose sandy or loamy soils.	N	No semi-arid open areas with sparse woody shrub or small tree vegetation occur within the project area.	—	N/A	T	No impact	No suitable habitat occurs in the project area.	N
Hardin, Tyler	Reptiles	Timber (Canebrake) Rattlesnake	<i>Crotalus horridus</i>	The timber rattlesnake may be found in swamps, floodplains, upland pine and deciduous woodlands, riparian zones, and abandoned farmland near a permanent water source, such as rivers, lakes, ponds, streams, and swamps where tree stumps, logs, and branches provide refuge. The species generally prefers dense ground cover, such as grapevines or palmetto. The timber rattlesnake occurs widely in eastern Texas.	Y	The species could occur within the floodplains, woodlands, and riparian areas associated with project area. Dense ground cover was present throughout the project area.	—	N/A	T	May impact	Suitable habitat occurs in the project area.	N

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Taxon	Species (Common Name)	Reference
All	All Species	NatureServe Explorer website http://explorer.natureserve.org
All	All Species	TPWD RTEST website https://tpwd.texas.gov/gis/rtest/ July 17, 2019 version retrieved July 29, 2019
All	All Species	USFWS ECOS website https://ecos.fws.gov/ Retrieved August 16, 2019.
All	All Species	USFWS IPAC website https://ecos.fws.gov/ipac/ Retrieved August 2019.
Amphibians	Austin Blind Salamander	Chamberlain, D. A. and L. O'Donnell. 2003. City of Austin's captive breeding program for the Barton Springs and Austin blind salamanders (January 1-December 31, 2002). City of Austin Watershed Protection and Development Review Department annual permit (PRT-839031) report.
Amphibians	Austin Blind Salamander	Hillis, D. M., D. A. Chamberlain, T. P. Wilcox, and P. T. Chippindale. 2001. A new species of subterranean blind salamander (Plethodontidae: Hemidactyliini: Eurycea: Typhlomolge) from Austin, Texas, and a systematic revision of central Texas paedomorphic salamanders. <i>Herpetologica</i> 57:266-280.
Amphibians	Barton Springs Salamander	https://tpwd.texas.gov/huntwild/wild/species/bartonspringssalamander/
Amphibians	Barton Springs Salamander	https://www.iucnredlist.org/species/8392/12909469
Amphibians	Black-spotted Newt	http://explorer.natureserve.org/servlet/NatureServe?searchName=Notoptthalmus+meridionalis
Amphibians	Black-spotted Newt	https://www.iucnredlist.org/species/59452/11944420
Amphibians	Blanco Blind Salamander	Berkhouse, C. S., and J. N. Fries. 1995. Critical thermal maxima of juvenile and adult San Marcos salamanders (<i>Eurycea nana</i>). <i>Southwestern Naturalist</i> 40(4).
Amphibians	Blanco Blind Salamander	Hillis, D. M., D. A. Chamberlain, T. P. Wilcox, and P. T. Chippindale. 2001. A new species of subterranean blind salamander (Plethodontidae: Hemidactyliini: Eurycea: Typhlomolge) from Austin, Texas, and a systematic revision of central Texas paedomorphic salamanders. <i>Herpetologica</i> 57:266-280.
Amphibians	Cascade Caverns Salamander	http://explorer.natureserve.org/servlet/NatureServe?searchName=Eurycea+latitans
Amphibians	Cascade Caverns Salamander	https://www.iucnredlist.org/species/59267/11895685#habitat-ecology
Amphibians	Comal Blind Salamander	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=105895&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=105895&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=105895
Amphibians	Comal Blind Salamander	https://www.inaturalist.org/taxa/27119-Eurycea-tridentifera

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Amphibians	Comal Blind Salamander	https://www.iucnredlist.org/species/8393/12909608#habitat-ecology
Amphibians	Georgetown Salamander	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=105895&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=105895&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radio-button=radio-button&selectedIndexes=105895
Amphibians	Houston Toad	Price, A.H. 2003. The Houston Toad in Bastrop State Park 1990 - 2002: A Narrative. Occasional Papers Wildlife Division, Texas Parks & Wildlife Department. 1:1-21.
Amphibians	Houston Toad	Price, A.H. and J.H. Yantis. 1993. Houston toad (<i>Bufo houstonensis</i>) status survey. Final Report as required by the Endangered Species Act, Section 6, Endangered and Threatened Species Conservation. Texas Project No. E-1-4, Job No. 8. Texas Parks and Wildlife Department, Austin, Texas. 13 pp + figs.
Amphibians	Jollyville Plateau Salamander	http://explorer.natureserve.org/servlet/NatureServe?searchName=Eurycea+tonkawae
Amphibians	Jollyville Plateau Salamander	http://www.austintexas.gov/content/1361/FAQ/4646
Amphibians	Jollyville Plateau Salamander	https://www.iucnredlist.org/species/59275/11908615
Amphibians	Mexican Burrowing Toad	https://www.herpssoftexas.org/content/mexican-burrowing-toad
Amphibians	Mexican Burrowing Toad	https://www.iucnredlist.org/species/59040/11873951#habitat-ecology
Amphibians	Mexican TreeFrog	http://explorer.natureserve.org/servlet/NatureServe?searchName=Smilisca+baudinii
Amphibians	Mexican TreeFrog	https://www.iucnredlist.org/species/64076/12741970#habitat-ecology
Amphibians	Salado Salamander	https://amphibiaweb.org/species/5378
Amphibians	Salado Salamander	https://www.iucnredlist.org/species/59271/11908207#habitat-ecology
Amphibians	San Marcos Salamander	Nelson, J. 1993. Population size, distribution, and life history of <i>Eurycea nana</i> in the San Marcos River. M.S. Thesis, Southwest Texas State University. USFWS 1996. San Marcos and Comal Springs and associated aquatic ecosystems (revised) recovery plan. U.S. Fish and Wildlife Service.
Amphibians	sheep Frog	http://www.zo.utexas.edu/research/txherps/frogs/
Amphibians	sheep Frog	https://www.herpssoftexas.org/content/sheep-frog
Amphibians	South Texas siren	https://tpwd.texas.gov/gis/rtest/
Amphibians	Texas Blind Salamander	Berkhouse, C. S., and J. N. Fries. 1995. Critical thermal maxima of juvenile and adult San Marcos salamanders (<i>Eurycea nana</i>). <i>Southwestern Naturalist</i> 40(4).

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Taxon	Species (Common Name)	Reference
Amphibians	Texas Blind Salamander	Hillis, D. M., D. A. Chamberlain, T. P. Wilcox, and P. T. Chippindale. 2001. A new species of subterranean blind salamander (Plethodontidae: Hemidactyliini: Eurycea: Typhlomolge) from Austin, Texas, and a systematic revision of central Texas paedomorphic salamanders. <i>Herpetologica</i> 57:266-280.
Amphibians	White-lipped Frog	http://explorer.natureserve.org/servlet/NatureServe?searchName=Leptodactylus+fragilis
Amphibians	White-lipped Frog	https://amphibiaweb.org/cgi/amphib_query?where-genus=Leptodactylus&where-species=fragilis
Amphibians	White-lipped Frog	https://www.iucnredlist.org/species/57127/11587519
Arachnids	Bee Creek Cave Harvestman	http://explorer.natureserve.org/servlet/NatureServe?searchName=Texella+reddelli
Arachnids	Bee Creek Cave Harvestman	https://ecos.fws.gov/docs/federal_register/fr1473.pdf
Arachnids	Bone Cave Harvestman	http://explorer.natureserve.org/servlet/NatureServe?searchName=Texella+reyesi
Arachnids	Bone Cave Harvestman	https://ecos.fws.gov/docs/five_year_review/doc5768.pdf
Arachnids	Braken Bat Cave Meshweaver	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J01D
Arachnids	Braken Bat Cave Meshweaver	Hedin et al. 2018. Sequence capture phylogenomics of eyeless Cicurina spiders from Texas caves, with emphasis on US federally-endangered species from Bexar County.
Arachnids	Cokendolpher Cave Harvestman	http://explorer.natureserve.org/servlet/NatureServe?searchName=Texella+cokendolpheri
Arachnids	Cokendolpher Cave Harvestman	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J016
Arachnids	Government Canyon Bat Cave Meshweaver	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J01B
Arachnids	Government Canyon Bat Cave Meshweaver	Hedin et al. 2018. Sequence capture phylogenomics of eyeless Cicurina spiders from Texas caves, with emphasis on US federally-endangered species from Bexar County.
Arachnids	Government Canyon Bat Cave Spider	http://explorer.natureserve.org/servlet/NatureServe?searchName=Neoleptoneta+microps
Arachnids	Government Canyon Bat Cave Spider	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J018
Arachnids	Madla Cave Meshweaver	Hedin et al. 2018. Sequence capture phylogenomics of eyeless Cicurina spiders from Texas caves, with emphasis on US federally-endangered species from Bexar County.
Arachnids	Madla Cave Meshweaver	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J019
Arachnids	Robber Baron Cave Meshweaver	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J01A
Arachnids	Tooth Cave Pseudoscorpion	https://ecos.fws.gov/docs/five_year_review/doc5773.pdf
Arachnids	Tooth Cave Pseudoscorpion	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J00A
Arachnids	Tooth Cave Spider	https://ecos.fws.gov/docs/five_year_review/doc5774.pdf
Arachnids	Tooth Cave Spider	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=J00B

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Taxon	Species (Common Name)	Reference
Birds	American Peregrine Falcon	https://tpwd.texas.gov/huntwild/wild/species/amperegrine/
Birds	American Peregrine Falcon	https://www.allaboutbirds.org/guide/peregrine_falcon/lifehistory
Birds	Arizona Botteri's Sparrow	https://www.audubon.org/field-guide/bird/botteris-sparrow
Birds	Attwater's Greater Prairie-chicken	USFWS. 2010. Attwater's Prairie-chicken Recovery Plan. 2nd Rev. Southwestern Region USFW. Albuquerque, New Mexico.
Birds	Bachman's Sparrow	Farrand, J., Jr. 1988. Eastern Birds: An Audubon Handbook. McGraw-Hill Book Company. New York, New York, USA.
Birds	Bald Eagle	https://www.fs.fed.us/database/feis/animals/bird/hale/all.html
Birds	Bald Eagle	https://www.webcitation.org/6Q2VGMkav?url=http://raptors.hancockwildlife.org/BEIA/PAGES/Section-14.pdf
Birds	Black Rail	https://ebird.org/species/blkrai
Birds	Black Rail	https://www.allaboutbirds.org/guide/Black_Rail/id
Birds	Black-capped Vireo	https://www.fws.gov/southwest/es/Documents/R2ES/black-capped_vireo_Science_Report_FINAL_5-06.pdf
Birds	Black-capped Vireo	https://www.wjonline.org/doi/abs/10.1676/11-134.1
Birds	Botteri's Sparrow	https://www.audubon.org/field-guide/bird/botteris-sparrow
Birds	Cactus Ferruginous Pygmy-owl	https://www.audubon.org/field-guide/bird/ferruginous-pygmy-owl
Birds	Common Black-hawk	https://txtbba.tamu.edu/species-accounts/common-black-hawk
Birds	Eskimo Curlew	https://tpwd.texas.gov/huntwild/wild/species/eskcurl/
Birds	Eskimo Curlew	https://www.audubon.org/news/the-eskimo-curlew-hasnt-been-seen-55-years-it-time-declare-it-extinct
Birds	Golden-cheeked Warbler	Groce, J., H.A. Mathewson, M.L. Morrison, N. Wilkins. 2010. Scientific evaluation for the 5-year status review of the golden-cheeked warbler. Prepared for U.S. Fish and Wildlife Service
Birds	Golden-cheeked Warbler	Ladd, C. G. 1985. Nesting habitat requirements of the golden-cheeked warbler. M.S. thesis. Southwest Texas State University. San Marcos, Texas, USA.
Birds	Golden-cheeked Warbler	U.S. Fish and Wildlife Service (USFWS). 1992. golden-cheeked warbler (<i>Dendroica chrysoparia</i>) recovery plan. Albuquerque, New Mexico, USA.
Birds	Gray Hawk	https://txtbba.tamu.edu/species-accounts/gray-hawk/
Birds	Gray Hawk	https://www.allaboutbirds.org/guide/gray_hawk/lifehistory
Birds	Least Tern	Campbell, L. 2003. Endangered and threatened animals of Texas, their life history and management. Texas Parks and Wildlife Press. Austin, Texas, USA.
Birds	Least Tern	https://tpwd.texas.gov/huntwild/wild/species/leasttern/
Birds	Least Tern	Lott, C. A. 2006. Distribution and Abundance of the Interior Population of the least tern (<i>Sternula antillarum</i>), 2005: A Review of the First Complete Range-Wide Survey in the Context of Historic and Ongoing Monitoring Efforts. U.S. Army Corps of Engineers. Washington, D.C., USA.
Birds	Mexican Spotted Owl	https://ecos.fws.gov/ecp0/profile/speciesProfile?sld=8196
Birds	Northern Aplomado Falcon	https://txtbba.tamu.edu/species-accounts/aplomado-falcon/
Birds	Northern Aplomado Falcon	https://www.iucnredlist.org/species/22696450/131940332

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Taxon	Species (Common Name)	Reference
Birds	Northern Beardless-tyrannulet	https://www.iucnredlist.org/species/22699177/93717756
Birds	Piping Plover	Haig, S.M. and L.W. Oring. 1985. Distribution and status of the piping plover throughout the annual cycle. J. Field Ornith. 56(4):334-345.
Birds	Piping Plover	http://ecos.fws.gov/speciesProfile/profile/speciesProfile?spcode=B079
Birds	Piping Plover	U.S. Fish and Wildlife Service (USFWS). 2003. Recovery Plan for the Great Lakes piping plover (<i>Charadrius melodus</i>). USFWS Region 3. Ft. Snelling, Minnesota, USA.
Birds	Red Knot	https://www.allaboutbirds.org/guide/Red_Knot/lifehistory
Birds	Red Knot	https://www.texassaltwaterfishingmagazine.com/fishing/education/fishy-facts/red-knots
Birds	Red-cockaded Woodpecker	https://tpwd.texas.gov/huntwild/wild/species/rcw/
Birds	Red-cockaded Woodpecker	https://txtbba.tamu.edu/species-accounts/red-cockaded-woodpecker/
Birds	Red-cockaded Woodpecker	https://www.fws.gov/ncsandhills/rcw.html
Birds	Red-crowned Parrot	https://ebird.org/species/recpar
Birds	Red-crowned Parrot	https://txtbba.tamu.edu/species-accounts/red-crowned-parrot/
Birds	Reddish Egret	https://nhpbs.org/natureworks/reddishegret.htm#3
Birds	Reddish Egret	https://tpwd.texas.gov/huntwild/wild/species/reddishegret/
Birds	Reddish Egret	https://www.iucnredlist.org/species/22696916/93592693
Birds	Rose-throated Becard	https://neotropical.birds.cornell.edu/Species-Account/nb/species/rotbec/distribution
Birds	Rose-throated Becard	https://www.iucnredlist.org/species/22700670/93791247
Birds	Sooty Tern	https://neotropical.birds.cornell.edu/Species-Account/nb/species/sooter1/distribution#hab
Birds	Sooty Tern	https://txtbba.tamu.edu/species-accounts/sooty-tern/
Birds	Southwestern Willow Flycatcher	http://explorer.natureserve.org/servlet/NatureServe?searchName=Empidonax+traillii+extimus
Birds	Southwestern Willow Flycatcher	https://www.fws.gov/nevada/protected_species/birds/species/swwf.html
Birds	Swallow-tailed Kite	https://txtbba.tamu.edu/species-accounts/swallow-tailed-kite/
Birds	Swallow-tailed Kite	https://www.audubon.org/field-guide/bird/swallow-tailed-kite
Birds	Texas Botteri's Sparrow	https://txtbba.tamu.edu/species-accounts/botteris-sparrow/
Birds	Tropical Parula	https://txtbba.tamu.edu/species-accounts/tropical-parula/
Birds	Whooping Crane	https://www.allaboutbirds.org/guide/Whooping_Crane/lifehistory
Birds	wood stork	https://tpwd.texas.gov/publications/pwdpubs/media/pwd_bk_w700_0_0496.pdf
Birds	Yellow-billed Cuckoo	http://explorer.natureserve.org/servlet/NatureServe?searchName=Coccyzus+americanus
Birds	Zone-tailed Hawk	https://txtbba.tamu.edu/species-accounts/zone-tailed-hawk
Birds	Zone-tailed Hawk	https://www.nwf.org/Educational-Resources/Wildlife-Guide/Birds/Whooping-Crane
Crustaceans	Diminutive Amphipod	http://explorer.natureserve.org/servlet/NatureServe?searchName=Gammarus+hyalleloides
Crustaceans	Diminutive Amphipod	https://tpwd.texas.gov/gis/rtest/

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Taxon	Species (Common Name)	Reference
Crustaceans	Peck's Cave Amphipod	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=110476&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=110476&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=110476
Crustaceans	Peck's Cave Amphipod	https://ecos.fws.gov/ecp0/profile/speciesProfile?sld=8575
Crustaceans	Pecos Amphipod	https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=K024
Crustaceans	Pecos Amphipod	https://www.govinfo.gov/content/pkg/FR-2012-08-16/pdf/2012-19829.pdf
Fish	Scalloped Hammerhead Shark	George H. Burgess, Lawrence R. Beerkircher, Gregor M. Cailliet, John K. Carlson, Enris Cortés, Kenneth J. Goldman, R. Dean Grubbs, John A. Musick, Michael K. Musyl & Colin A. Simpfendorfer. 2005. Is the collapse of shark populations in the Northwest Atlantic Ocean and Gulf of Mexico real?, Fisheries, 30:10, 19-26, DOI: 10.1577/1548-8446(2005)30[19:ITCOSP]2.0.CO;2
Fish	Scalloped Hammerhead Shark	Piercy Andrew N., Carlson John K., Sulikowski James A., Burgess George H. 2007. Age and growth of the scalloped hammerhead shark, Sphyrna lewini, in the north-west Atlantic Ocean and Gulf of Mexico. Marine and Freshwater Research 58, 34-40.
Fishes	Arkansas River Shiner	http://ecos.fws.gov/tess_public/profile/speciesProfile;jsessionid=59559A8156AC4701D4B745DAD565003C?spcode=E05X
Fishes	Atlantic Sturgeon	National Oceanic and Atmospheric Administration (NOAA), Atlantic Sturgeon (Acipenser oxyrinchus oxyrinchus). Available at https://www.fisheries.noaa.gov/species/atlantic-sturgeon. Accessed August 2019.
Fishes	Big Bend Gambusia	https://tpwd.texas.gov/huntwild/wild/species/bbgambus/
Fishes	Big Bend Gambusia	https://www.biologicaldiversity.org/campaigns/esa_works/profile_pages/BigBendgambusia.html
Fishes	Big Bend Gambusia	https://www.iucnredlist.org/species/8890/18229201#habitat-ecology
Fishes	Blackside Darter	http://txstate.fishesoftexas.org/percina%20maculata.htm
Fishes	Blackside Darter	http://www.fishesoftexas.org/taxa/percina-maculata
Fishes	Blackside Darter	https://www.fishbase.se/summary/3498
Fishes	Blue Sucker	Walburg, C. H., G. L. Kaiser, and P. L. Hudson. 1971. Lewis and Clark Lake tailwater biota and some relations of the tailwater and reservoir fish populations, pp. 449-467. In; Reservoir fisheries and limnology. G. E. Hall, ed. Spec. Publ., no. 8, American Fisheries Society, Washington, D.C.
Fishes	Bluehead Shiner	http://txstate.fishesoftexas.org/pteronotropis%20hubbsi.htm

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Taxon	Species (Common Name)	Reference
Fishes	Chihuahua Shiner	http://txstate.fishesoftexas.org/notropis%20chihuahua.htm
Fishes	Clear Creek Gambusia	http://txstate.fishesoftexas.org/gambusia%20heterochir.htm
Fishes	Clear Creek Gambusia	https://tpwd.texas.gov/huntwild/wild/species/clearcreekgambusia/
Fishes	Comanche Springs Pupfish	http://www.fishesoftexas.org/taxa/cyprinodon-elegans
Fishes	Conchos Pupfish	http://txstate.fishesoftexas.org/cyprinodon%20eximius.htm
Fishes	Devils River Minnow	http://txstate.fishesoftexas.org/cyprinodon%20eximius.htm
Fishes	Dwarf Seahorse	Fedrizzi N, Stiassny ML, Boehm JT, Dougherty ER, Amato G, Mendez M. Population Genetic Structure of the Dwarf Seahorse (<i>Hippocampus zosterae</i>) in Florida. PLoS One. 2015;10(7):e0132308. Published 2015 Jul 22. doi:10.1371/journal.pone.0132308.
Fishes	Fountain Darter	Habitat utilization and population size estimate of fountain darters, <i>Etheostoma fonticola</i> , in the Comal River, Texas. Texas Journal of Science 45(4):341-348.
Fishes	Fountain Darter	Schenck, J. R., and B.G. Whiteside. 1976. Distribution, habitat preference, and population size estimate of <i>Etheostoma fonticola</i> . Copeia 76(4):697-703.
Fishes	Giant Manta Ray	Graham RT, Witt MJ, Castellanos DW, Remolina F, Maxwell S, Godley BJ, et al. 2012. Satellite Tracking of Manta Rays Highlights Challenges to Their Conservation. PLoS ONE 7(5): e36834. https://doi.org/10.1371/journal.pone.0036834 .
Fishes	Gulf Sturgeon	
Fishes	Leon Springs Pupfish	http://txstate.fishesoftexas.org/cyprinodon%20bovinus.htm
Fishes	Leon Springs Pupfish	https://ecos.fws.gov/ecp0/profile/speciesProfile?sld=1135
Fishes	Mexican Blindcat	https://www.iucnredlist.org/species/18136/7669809
Fishes	Mexican Goby	https://www.fishbase.de/summary/Ctenogobius-claytonii.html
Fishes	Mexican Stoneroller	http://txstate.fishesoftexas.org/campostoma%20ornatum.htm
Fishes	Nassau Grouper	Sadovy, Y. 1999. The Case of the Disappearing Grouper: <i>Epinephelus striatus</i> , the Nassau Group, in the Caribbean and Western Atlantic. Proceedings of the 45th Gulf and Caribbean Fisheries Institute.
Fishes	Oceanic Whitetip Shark	George H. Burgess, Lawrence R. Beerkircher, Gregor M. Cailliet, John K. Carlson, Enris Cortés, Kenneth J. Goldman, R. Dean Grubbs, John A. Musick, Michael K. Musyl & Colin A. Simpfendorfer. 2005. Is the collapse of shark populations in the Northwest Atlantic Ocean and Gulf of Mexico real?, Fisheries, 30:10, 19-26, DOI: 10.1577/1548-8446(2005)30[19:ITCOSP]2.0.CO;2
Fishes	Opposum Pipefish	https://www.fishbase.se/summary/Micropphis-brachyurus.html
Fishes	Paddlefish	http://txstate.fishesoftexas.org/polydon%20spathula.htm
Fishes	Pecos Gambusia	https://ecos.fws.gov/ecp0/profile/speciesProfile?sld=460
Fishes	Pecos Gambusia	https://tpwd.texas.gov/huntwild/wild/species/pecogamb/
Fishes	Pecos Pupfish	http://txstate.fishesoftexas.org/cyprinodon%20pecosensis.htm
Fishes	Proserpine Shiner	http://txstate.fishesoftexas.org/cyprinella%20proserpina.htm
Fishes	Rio Grande Chub	http://txstate.fishesoftexas.org/gila%20pandora.htm
Fishes	Rio Grande Darter	http://txstate.fishesoftexas.org/etheostoma%20grahami.htm

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Taxon	Species (Common Name)	Reference
Fishes	Rio Grande Silvery Minnow	https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=E07I
Fishes	River Goby	http://txstate.fishesoftexas.org/awaous%20banana.htm
Fishes	San Marcos Gambusia	http://txstate.fishesoftexas.org/gambusia%20georgei.htm
Fishes	Sharptooth Shiner	http://txstate.fishesoftexas.org/notropis%20oxyrhynchus.htm
Fishes	Shovelnose Sturgeon	http://txstate.fishesoftexas.org/scaphirhynchus%20platyrhynchus.htm
Fishes	Smalleye Shiner	http://txstate.fishesoftexas.org/notropis%20buccula.htm
Fishes	Smalltooth Sawfish	Carlson, John K., Jason Osborn, J., Thomas Schmidt. 2007. Monitoring the recovery of smalltooth sawfish, <i>Pristis pectinata</i> , using standardized relative indices of abundance. <i>Biological Conservation</i> . 136(0), 195-202.
Fishes	Smalltooth Sawfish	https://www.fishbase.se/summary/Pristis-pectinata
Fishes	Smalltooth Sawfish	https://www.iucnredlist.org/species/18175/141791261#habitat-ecology
Fishes	Spotfin Gambusia	https://www.iucnredlist.org/species/8898/
Fishes	Toothless Blindcat	http://txstate.fishesoftexas.org/trogloglanis%20pattersoni.htm
Fishes	Western Creek Chubsucker	https://www.fishbase.se/summary/66122
Fishes	Widemouth Blindcat	http://txstate.fishesoftexas.org/satan%20eurystomus.htm
Insects	[no common name] Beetle (Rhadine exilis)	http://explorer.natureserve.org/servlet/NatureServe?searchName=Rhadine+exilis+
Insects	[no common name] Beetle (Rhadine exilis)	https://ecos.fws.gov/docs/five_year_review/doc3846.pdf
Insects	[no common name] Beetle (Rhadine infernalis)	https://bugguide.net/node/view/1138577
Insects	American Burying Beetle	https://ecos.fws.gov/docs/five_year_review/doc1968.pdf
Insects	Coffin Cave Mold Beetle	http://explorer.natureserve.org/servlet/NatureServe?searchName=Batrisodes+texanus
Insects	Coffin Cave Mold Beetle	https://bugguide.net/node/view/443852
Insects	Coffin Cave Mold Beetle	https://ecos.fws.gov/docs/five_year_review/doc5768.pdf
Insects	Comal Springs Dryopid Beetle	http://explorer.natureserve.org/servlet/NatureServe?searchName=Stygoparnus+comalensis
Insects	Comal Springs Dryopid Beetle	https://bugguide.net/node/view/287708
Insects	Comal Springs Dryopid Beetle	https://www.biologicaldiversity.org/species/invertebrates/Comal_Springs_dryopid_beetle/natural_history.html
Insects	Comal Springs Riffle Beetle	http://explorer.natureserve.org/servlet/NatureServe?searchName=Heterelmis+comalensis
Insects	Comal Springs Riffle Beetle	https://bioone.org/journals/The-Coleopterists-Bulletin/volume-69/issue-3/0010-065X-69.3.521/Underwater-Pupation-by-the-Comal-Springs-riffle-beetle-iHeterelmis-comalensis/10.1649/0010-065X-69.3.521.short
Insects	Helotes Mold Beetle	http://explorer.natureserve.org/servlet/NatureServe?searchName=Batrisodes+venyivi
Insects	Helotes Mold Beetle	https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=I0PT
Insects	Kretschmarr Cave Mold Beetle	https://ecos.fws.gov/docs/five_year_review/doc5771.pdf
Insects	Kretschmarr Cave Mold Beetle	https://ecos.fws.gov/ecp0/profile/speciesProfile?sID=3140
Insects	Tooth Cave Ground Beetle	https://ecos.fws.gov/docs/five_year_review/doc5772.pdf
Insects	Tooth Cave Ground Beetle	https://ecos.fws.gov/ecp0/profile/speciesProfile?sPCODE=I0IB

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Taxon	Species (Common Name)	Reference
Invertebrates	Boulder Star Coral	Vize, P.D. Coral Reefs (2006) 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Boulder Star Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Elkhorn Coral	Vize, P.D. Coral Reefs (2006) 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Elkhorn Coral	William F. Prechta, Kenneth J. P. Deslarzes, Emma L. Hickerson, George P. Schmahl, Marissa F. Nuttall, Richard B. Aronson. 2014. Back to the future: The history of acroporid corals at the Flower Garden Banks, Gulf of Mexico, US. Marine Geology. 349: 152-161.
Invertebrates	Elkhorn Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Lobed Star Coral	Vize, P. D. 2006. Coral Reefs 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Lobed Star Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Mountainous Star Coral	John P. Rippe Mikhail V. Matz Elizabeth A. Green Mónica Medina Nida Z. Khawaja Thanapat Pongwarin Jorge H. Pinzón C. Karl D. Castillo Sarah W. Davies. 2017. Population structure and connectivity of the mountainous star coral, <i>Orbicella faveolata</i> , throughout the wider Caribbean region. Ecology and Evolution. 7(22): Available at https://doi.org/10.1002/ece3.3448 .
Invertebrates	Mountainous Star Coral	Vize, P. D. 2006. Coral Reefs 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Mountainous Star Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Pillar Coral	Vize, P. D. 2006. Coral Reefs 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Pillar Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Rough Cactus Coral	Vize, P. D. 2006. Coral Reefs 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Rough Cactus Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Invertebrates	Staghorn Coral	Vize, P. D. 2006. Coral Reefs 25: 169. https://doi.org/10.1007/s00338-005-0082-5
Invertebrates	Staghorn Coral	William F. Prechta, Kenneth J.P. Deslarzes, Emma L. Hickerson, George P. Schmahl, Marissa F. Nuttall, Richard B. Aronson. 2014. Back to the future: The history of acroporid corals at the Flower Garden Banks, Gulf of Mexico, US. Marine Geology. 349: 152-161.
Invertebrates	Staghorn Coral	Zimmer, B., Precht, W., Hickerson, E. et al. Coral Reefs. 2006. 25: 192. https://doi.org/10.1007/s00338-005-0054-9 .
Mammals	Black Bear	https://tpwd.texas.gov/landwater/land/habitats/trans_pecos/nongame/blackbear/

SPECIES ANALYSIS SUMMARY REFERENCES

Taxon	Species (Common Name)	Reference
Mammals	Black Bear	https://tpwd.texas.gov/landwater/land/habitats/trans_pecos/nongame/blackbear/
Mammals	Black Bear	https://www.jstor.org/stable/3671651?seq=1#page_scan_tab_contents
Mammals	Black Bear	https://www.jstor.org/stable/3873013?seq=1#page_scan_tab_contents
Mammals	Blue Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Bryde's Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Bryde's Whale	https://www.fisheries.noaa.gov/species/brydes-whale
Mammals	Coues' Rice Rat	http://explorer.natureserve.org/servlet/NatureServe?searchName=Oryzomys+couesi+aquaticus
Mammals	Coues' Rice Rat	https://tpwd.texas.gov/gis/maps/images/biotic-provinces-of-texas/view
Mammals	Coues' Rice Rat	https://www.iucnredlist.org/species/15592/115128044
Mammals	False Killer Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Fin Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Gulf Coast Jaguarundi	https://tpwd.texas.gov/publications/pwdpubs/media/pwd_bk_w700_0_0013_jaguarundi.pdf
Mammals	Gulf Coast Jaguarundi	Norwell, K. and P. Jackson. 1996. Status Survey and Conservation Action Plan: Wild Cats. Available at https://portals.iucn.org/library/sites/library/files/documents/1996-008.pdf
Mammals	Gulf of Mexico Bryde's Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Humpback Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Humpback Whale	http://www.nsrl.ttu.edu/tmot1/meganova.htm
Mammals	Humpback Whale	https://tpwd.texas.gov/gis/rtest/
Mammals	Killer Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Louisiana Black Bear	https://www.fws.gov/southeast/wildlife/mammals/louisiana-black-bear/#habitat-section
Mammals	Mexican Long-nosed Bat	https://academic.oup.com/jmammal/article-abstract/72/4/706/886702
Mammals	Mexican Long-nosed Bat	https://www.iucnredlist.org/species/11697/22126172
Mammals	North Atlantic Right Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	ocelot	https://tpwd.texas.gov/publications/pwdpubs/media/pwd_bk_w700_0_0013_ocelot.pdf
Mammals	ocelot	Norwell, K. and P. Jackson. 1996. Status Survey and Conservation Action Plan: Wild Cats. Available at https://portals.iucn.org/library/sites/library/files/documents/1996-008.pdf
Mammals	Palo Duro Mouse	https://tpwd.texas.gov/huntwild/wild/species/pdmouse/

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Taxon	Species (Common Name)	Reference
Mammals	Rafinesque's Big-eared Bat	https://plants.usda.gov/core/profile?symbol=nyaq2
Mammals	Rafinesque's Big-eared Bat	https://www.fws.gov/refuge/trinity_river/wildlife/bats.html
Mammals	Rafinesque's Big-eared Bat	https://www.iucnredlist.org/species/17600/21976905
Mammals	Sei Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Southern Yellow Bat	https://tpwd.texas.gov/huntwild/wild/species/syellow/
Mammals	Southern Yellow Bat	https://www.iucnredlist.org/species/11350/22119259#habitat-ecology
Mammals	Sperm Whale	Fertl, Dagmar. 1998. Whales and dolphins of the Gulf of Mexico: A teacher's companion.
Mammals	Spotted Bat	http://www.nsrl.ttu.edu/tmot1/eudemacu.htm
Mammals	Spotted Bat	https://tpwd.texas.gov/huntwild/wild/species/spotted/
Mammals	Spotted Bat	https://www.iucnredlist.org/species/8166/22028573
Mammals	Texas Kangaroo Rat	https://ecos.fws.gov/ecp0/profile/speciesProfile?sld=2985
Mammals	Texas Kangaroo Rat	https://tpwd.texas.gov/huntwild/wild/species/kanrat/
Mammals	Texas Kangaroo Rat	https://www.fws.gov/southwest/es/ArlingtonTexas/pdf/TKR_FactSheet_20160808.pdf
Mammals	West Indian Manatee	U.S. Fish and Wildlife Service. 2001. Florida Manatee Recovery Plan (Trichechus manatus latirostris) – Third Revision. Southeast Region, U.S. Fish and Wildlife Service. Atlanta, Georgia. https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=A007
Mammals	White-nosed Coati	http://www.nsrl.ttu.edu/tmot1/nasunari.htm
Mammals	White-nosed Coati	https://www.iucnredlist.org/species/41683/45216060#habitat-ecology
Mollusks	Diamond Y Spring snail	http://explorer.natureserve.org/servlet/NatureServe?searchName=Ps_eudotryonia+adamantina+
Mollusks	Diamond Y Spring snail	https://tpwd.texas.gov/gis/rtest/
Mollusks	False Spike	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=SYN.121144&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=SYN.121144&offPageSelectedElType=species_synonymn&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=SYN.121144
Mollusks	False Spike	https://www.fws.gov/southwest/es/Documents/R2ES/AUES_Mussel_Summit_3_Robertson&Pandolfi.pdf
Mollusks	Golden Orb	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=SYN.122925&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=SYN.122925&offPageSelectedElType=species_synonymn&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=SYN.122925

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Taxon	Species (Common Name)	Reference
Mollusks	Gonzales Tryonia	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=108392&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=108392&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=108392
Mollusks	Louisiana Pigtoe	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=113470&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=113470&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=113470
Mollusks	Mexican Fawnsfoot	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=117864&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=117864&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=117864
Mollusks	Ouachita Rock Pocketbook	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=SYN.125299&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=SYN.125299&offPageSelectedElType=species_synonymn&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=SYN.125299
Mollusks	Ouachita rock pocketbook	https://ecos.fws.gov/ecp0/profile/speciesProfile?sId=4509
Mollusks	Pecos assiminea	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=821442&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=821442&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=821442

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Taxon	Species (Common Name)	Reference
Mollusks	Phantom Springsnail	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=SYN.115842&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedEIKey=SYN.115842&offPageSelectedEIType=species_synonymn&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=SYN.115842
Mollusks	Phantom Tryonia	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=109259&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedEIKey=109259&offPageSelectedEIType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=109259
Mollusks	Salina Mucket	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=680054&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedEIKey=680054&offPageSelectedEIType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=680054
Mollusks	Salina mucket	https://tpwd.texas.gov/gis/rtest/
Mollusks	Sandbank Pocketbook	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=117064&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedEIKey=117064&offPageSelectedEIType=species&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=117064
Mollusks	Smooth Pimpleback	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=SYN.122926&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedEIKey=SYN.122926&offPageSelectedEIType=species_synonymn&offPageYesNo=true&post_processes=&radiobutton=radiobutton&selectedIndexes=SYN.122926
Mollusks	Southern Hickorynut	https://www.iucnredlist.org/species/15021/546965#habitat-ecology

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Taxon	Species (Common Name)	Reference
Mollusks	Texas Fatmucket	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=112012&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=112012&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=112012
Mollusks	Texas Fawnsfoot	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=120471&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=120471&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=120471
Mollusks	Texas Fawnsfoot	https://tpwd.texas.gov/gis/rtest/
Mollusks	Texas Heelsplitter	Howells, R.G., R.W. Neck, and H.D. Murray. 1996. Freshwater Mussels of Texas. Texas Parks and Wildlife Press: Austin, Texas. 218 pp.
Mollusks	Texas Heelsplitter	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=115372&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=115372&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=115372
Mollusks	Texas Hornshell	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=121272&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=121272&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=121272
Plants	Ashy Dogweed	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Ashy Dogweed	U.S. Fish and Wildlife Service. 1987. Ashy dogweed (<i>Thymophlla tephroleuca</i>) Recovery Plan. U.S. Fish and Wildlife Service, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/880729.pdf

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Taxon	Species (Common Name)	Reference
Plants	Ashy Dogweed	Williamson, P. 2002. The effects of disturbance on the ashy dogweed (<i>Thymophylla tephroleuca</i>) and the prostrate milkweed (<i>Asclepias prostrata</i>). Section 6 final report. Austin: Texas Parks & Wildlife Department. https://tpwd.texas.gov/huntwild/wild/wildlife_diversity/nongame/list-ed-species/plants/ashy_dogweed.phtml
Plants	Black Lace Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Black Lace Cactus	U.S. Fish and Wildlife Service. 1986. Black Lace Cactus (<i>Echinochereus reichenbachii</i> var. <i>altertii</i>). Recovery Plan, U.S. Fish and Wildlife Service, Albuquerque, New Mexico.
Plants	Bracted Twistflower	https://tpwd.texas.gov/gis/rtest/
Plants	Bracted Twistflower	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station.
Plants	Bunched Cory Cactus	U.S. Fish and Wildlife Service. 1989. Bunched Cory cactus (<i>Coryphantha ramillosa</i>) Recovery Plan. U.S. Fish and Wildlife Service, Albuquerque. https://ecos.fws.gov/docs/recovery_plan/900413c.pdf
Plants	Chisos Mountains Hedgehog Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Davis' Green Pitaya	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Geocarpon minimum	https://tpwd.texas.gov/gis/rtest/
Plants	Geocarpon minimum	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Guadalupe Fescue	Federal Register 2017. Endangered and Threatened Wildlife and Plants; Endangered Species Status for Guadalupe fescue; Designation of Critical Habitat for Guadalupe fescue. Federal Register, Volume 82, number 172. Thursday, September 7, 2017, Rules and Regulations, pages 42245 -42260. https://www.govinfo.gov/content/pkg/FR-2017-09-07/pdf/2017-19001.pdf#page=1
Plants	Guadalupe Fescue	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station https://www.govinfo.gov/content/pkg/FR-2017-09-07/pdf/2017-19001.pdf#page=1
Plants	Hinckley Oak	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Johnson's Seagrass	Eiseman, N. J., Calvin McMillan. 1980. A new species of seagrass, <i>Halophila johnsonii</i> , from the Atlantic coast of Florida. <i>Aquatic Botany</i> .90(2009:89-92.)

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Taxon	Species (Common Name)	Reference
Plants	Large-fruited Sand-verbena	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Little Aguja (=creek) Pondweed	https://tpwd.texas.gov/gis/rtest/
Plants	Little Aguja (=creek) Pondweed	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Little Aguja (=creek) Pondweed	USFWS 1994. Little Anuja Pondweek Recovery Plan (Potamogeton clystocarpus). U.S. Fish and Wildlife Service, Region 2, Albuquerque, New Mexico. Available at: https://ecos.fws.gov/docs/recovery_plan/940620a.pdf
Plants	Lloyd's Mariposa Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Navasota ladies'-tresses	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Neches River Rose-mallow	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Nellie Cory Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Pecos (=puzzle, =paradox) Sunflower	Federal Register 2008. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for Helianthus paradoxus (Pecos Sunflower); Final Rule. U.S. Fish and Wildlife Service. Fegeral REGISTER, Volumene 73, Number 63, Tuesday, April 1, 2008. Rules and Regulations. page 17762 - 17807. https://www.govinfo.gov/content/pkg/FR-2008-04-01/pdf/E8-5811.pdf#page=2
Plants	Pecos (=puzzle, =paradox) Sunflower	https://tpwd.texas.gov/gis/rtest/
Plants	Pecos (=puzzle, =paradox) Sunflower	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Slender Rush-pea	Federal Register 2017. Endangered and Threatened Wildlife and Plants; Draft Texas Coastal Bend Shortgrass Praire Multi-species Recovery Plan: Including Slender Rush-Pea (Hoffmannseggia tenella) and South Texas Ambrosia (Ambrosia cheiranthifolia). U.S. Fish and Wildlife Service. Fegeral Register, Volume 82, Number 104, Thursday, June 1, 2017, Notices. Page 25299 - 25302. https://www.govinfo.gov/content/pkg/FR-2017-06-01/pdf/2017-11305.pdf#page=1
Plants	Slender Rush-pea	https://tpwd.texas.gov/gis/rtest/
Plants	Slender Rush-pea	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station

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Taxon	Species (Common Name)	Reference
Plants	Sneed Pincushion Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	South Texas Ambrosia	Federal Register 2017. Endangered and Threatened Wildlife and Plants; Draft Texas Coastal Bend Shortgrass Prairie Multi-species Recovery Plan: Including Slender Rush-Pea (<i>Hoffmannseggia tenella</i>) and South Texas Ambrosia (<i>Ambrosia cheiranthifolia</i>). U.S. Fish and Wildlife Service. Federal Register, Volume 82, Number 104, Thursday, June 1, 2017, Notices. Page 25299 - 25302. https://www.govinfo.gov/content/pkg/FR-2017-06-01/pdf/2017-11305.pdf#page=1
Plants	South Texas Ambrosia	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Star Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Star Cactus	USFWS 2003. Star cactus (<i>Astrophytum asterias</i>) Recovery Plan. U.S. Fish and Wildlife Service, Southwest Region, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/031106.pdf
Plants	Terlingua Creek Cat's-eye	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Terlingua Creek Cat's-eye	USFWS 1994. Terlingua Creek Cat's-eye Recovery Plan (<i>Cryptantha crassipes</i>). US Fish and Wildlife Service, Region 2, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/940405.pdf
Plants	Texas Ayenia	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Ayenia	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Ayenia	USFWS 2016. Recovery Plan for the Tamaulipan Kidney-petal (<i>Ayenia limitaris</i>). U.S. Fish and Wildlife Service, Southwest Region, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/Texas%20ayenia%20Recovery%20Plan%20R2.pdf
Plants	Texas Golden Gladecress	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Golden Gladecress	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Poppy-mallow	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Poppy-mallow	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Prairie Dawn-flower	https://tpwd.texas.gov/gis/rtest/

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Taxon	Species (Common Name)	Reference
Plants	Texas Prairie Dawn-flower	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Snowbells	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Snowbells	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Trailing Phlox	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Trailing Phlox	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Texas Trailing Phlox	USFWS 1995. Texas Trailing Phlos (<i>Plox mivalis</i> spp. <i>texensis</i>) Recovery Plan. U.S. Fish and Wildlife Service, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/950328a.pdf
Plants	Texas Wild-rice	https://tpwd.texas.gov/gis/rtest/
Plants	Texas Wild-rice	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station.
Plants	Tobusch Fishhook Cactus	https://tpwd.texas.gov/gis/rtest/
Plants	Tobusch Fishhook Cactus	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station.
Plants	Walker's Manioc	https://tpwd.texas.gov/gis/rtest/
Plants	Walker's Manioc	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station.
Plants	White Bladderpod	https://tpwd.texas.gov/gis/rtest/
Plants	White Bladderpod	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station.
Plants	Zapata Bladderpod	https://tpwd.texas.gov/gis/rtest/
Plants	Zapata Bladderpod	Poole, J.M., W. R. Carr, D.M. Price and J.R. Singhurst. 2007. Rare Plants of Texas. Texas A&M University Press, College Station
Plants	Zapata Bladderpod	USFWS. 2004. Zapata bladderpod (<i>Lesquerella thamnophila</i>) Recovery Plan. U.S. Fish and Wildlife Service, Region 2, Albuquerque, New Mexico. https://ecos.fws.gov/docs/recovery_plan/040825.pdf
Reptiles	Alligator Snapping Turtle	Dixon, J. R. 2013. Amphibians and Reptiles of Texas. Third Edition. Texas A&M University Press. College Station, Texas, USA.
Reptiles	Black-striped Snake	https://www.herpssoftexas.org/content/regal-black-striped-snake
Reptiles	Black-striped Snake	https://www.iucnredlist.org/species/63750/3128696#habitat-ecology

SPECIES ANALYSIS SUMMARY REFERENCES

Taxon	Species (Common Name)	Reference
Reptiles	Brazos Water Snake	Conant, R. and J. T. Collins. 1998. The Peterson field guide series: A field guide to Reptiles and Amphibians, Eastern and Central North America, third edition. Houghton Mifflin Company, Boston, Massachusetts, USA.
Reptiles	Cagle's Map Turtle	Hibbitts, T.D. and T.L. Hibbitts. 2016. Texas Turtles and Crocodilians. Texas Natural History Guides, University of Texas Press.
Reptiles	Cagle's Map Turtle	University of Texas. 2018. Herps of Texas Website. Available at: http://www.herpsotexas.org/
Reptiles	Chihuahuan Desert lyre snake	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=681174&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=681174&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=681174
Reptiles	Chihuahuan Desert Lyre Snake	https://www.inaturalist.org/taxa/73981-Trimorphodon-vilkinsonii
Reptiles	Chihuahuan Desert Lyre Snake	https://www.iucnredlist.org/species/63997/12728524#habitat-ecology
Reptiles	Chihuahuan Mud Turtle	https://www.inaturalist.org/taxa/39741-Kinosternon-hirtipes-murrayi
Reptiles	Chihuahuan Mud Turtle	https://www.iucnredlist.org/species/63670/97381507#habitat-ecology
Reptiles	Green Sea Turtle	https://tpwd.texas.gov/huntwild/wild/species/greentur/
Reptiles	Green Sea Turtle	Valverde R.A., Holzwart K.R. 2017. Sea Turtles of the Gulf of Mexico. In: Ward C. (eds) Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill. Springer, New York, NY.
Reptiles	Hawksbill Sea Turtle	https://tpwd.texas.gov/huntwild/wild/species/seaturtle/
Reptiles	Hawksbill Sea Turtle	https://www.iucnredlist.org/species/8005/12881238#habitat-ecology
Reptiles	Kemp's Ridley Sea Turtle	https://tpwd.texas.gov/huntwild/wild/species/ridley/
Reptiles	Kemp's Ridley Sea Turtle	https://www.iucnredlist.org/species/11533/3292342#habitat-ecology
Reptiles	Kemp's Ridley Sea Turtle	Valverde R.A., Holzwart K.R. 2017. Sea Turtles of the Gulf of Mexico. In: Ward C. (eds) Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill. Springer, New York, NY.
Reptiles	Leatherback Sea Turtle	https://tpwd.texas.gov/huntwild/wild/species/lethback/
Reptiles	Leatherback Sea Turtle	https://www.iucnredlist.org/species/6494/43526147#habitat-ecology
Reptiles	Leatherback Sea Turtle	Valverde R.A., Holzwart K.R. 2017. Sea Turtles of the Gulf of Mexico. In: Ward C. (eds) Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill. Springer, New York, NY.
Reptiles	Loggerhead Sea Turtle	https://srelherp.uga.edu/turtles/carcar.htm

SPECIES ANALYSIS SUMMARY REFERENCES

Taxon	Species (Common Name)	Reference
Reptiles	Loggerhead Sea Turtle	https://tpwd.texas.gov/huntwild/wild/species/logghead/
Reptiles	Loggerhead Sea Turtle	Valverde R.A., Holzwart K.R. 2017. Sea Turtles of the Gulf of Mexico. In: Ward C. (eds) Habitats and Biota of the Gulf of Mexico: Before the Deepwater Horizon Oil Spill. Springer, New York, NY.
Reptiles	Louisiana Pine Snake	Werler, J. E., and J. R. Dixon. 2000. Texas snakes: Identification, Distribution, and Natural History. University of Texas Press. Austin, Texas, USA. Dixon, J. R. 2013. Amphibians and Reptiles of Texas. Third Edition. Texas A&M University Press. College Station, Texas, USA.
Reptiles	Mountain Short-horned Lizard	https://www.inaturalist.org/taxa/36315-Phrynosoma-hernandesii
Reptiles	Mountain Short-horned Lizard	https://www.iucnredlist.org/species/64076/12741970#habitat-ecology
Reptiles	Northern Cat-eyed Snake	http://animaldiversity.ummz.umich.edu/site/accounts/information/Leptodeira_septentrionalis.html
Reptiles	Northern Cat-eyed Snake	https://tpwd.texas.gov/gis/maps/images/biotic-provinces-of-texas/view
Reptiles	Northern Cat-eyed Snake	https://www.inaturalist.org/taxa/29724-Leptodeira-septentrionalis
Reptiles	Northern Scarlet Snake	Werler, J. E., and J. R. Dixon. 2000. Texas snakes: Identification, Distribution, and Natural History. University of Texas Press. Austin, Texas, USA
Reptiles	Reticulate Collared Lizard	http://explorer.natureserve.org/servlet/NatureServe?searchName=Crotaphytus+reticulatus
Reptiles	Reticulate Collared Lizard	https://www.iucnredlist.org/species/64012/12735138#habitat-ecology
Reptiles	Reticulated Gecko	https://www.herpssoftexas.org/category/taxon/sauria/eublepharidae/coleonyx/coleonyx-reticulatus
Reptiles	Reticulated Gecko	https://www.iucnredlist.org/species/64037/12738857#habitat-ecology
Reptiles	Speckled Racer	https://www.inaturalist.org/taxa/26835-Drymobius-margaritiferus#Habitat
Reptiles	Speckled Racer	https://www.iucnredlist.org/species/197481/2488545#habitat-ecology
Reptiles	Texas Horned Lizard	https://tpwd.texas.gov/huntwild/wild/species/thlizard/
Reptiles	Texas Indigo Snake	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=637223&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=637223&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=637223&selectedIndexes=103475
Reptiles	Texas Scarlet Snake	http://explorer.natureserve.org/servlet/NatureServe?searchName=Cemophora+coccinea+lineri
Reptiles	Texas Scarlet Snake	https://www.inaturalist.org/taxa/27379-Cemophora-coccinea-lineri#Geographic_range

SPECIES ANALYSIS SUMMARY REFERENCES

Taxon	Species (Common Name)	Reference
Reptiles	Texas Tortoise	Hibbitts, T.D. and T.L. Hibbitts. 2016 Texas Turtles and Crocodylians. Texas Natural History Guides, University of Texas Press.
Reptiles	Texas Tortoise	http://www.herpssoftexas.org/
Reptiles	Texas Tortoise	http://www.texasturtles.org/Gopherus_berlandieri.html
Reptiles	Timber (Canebrake) Rattlesnake	https://tpwd.texas.gov/huntwild/wild/species/timberrattlesnake/
Reptiles	Timber (Canebrake) Rattlesnake	Werler, J. E., and J. R. Dixon. 2000. Texas snakes: Identification, Distribution, and Natural History. University of Texas Press. Austin, Texas, USA
Reptiles	Trans-Pecos Black-headed Snake	http://explorer.natureserve.org/servlet/NatureServe?sourceTemplate=tabular_report.wmt&loadTemplate=species_RptComprehensive.wmt&selectedReport=RptComprehensive.wmt&summaryView=tabular_report.wmt&elKey=101137&paging=home&save=true&startIndex=1&nextStartIndex=1&reset=false&offPageSelectedElKey=101137&offPageSelectedElType=species&offPageYesNo=true&post_processes=&radioButton=radioButton&selectedIndexes=101137
Reptiles	Trans-Pecos Black-headed Snake	https://www.herpssoftexas.org/content/trans-pecos-black-headed-snake