# Biological Evaluation Form

**Main CSJ:** 0924-06-562
**Form Prepared By:** Nick Wallisch, Blanton & Associates
**Date of Evaluation:** October 10, 2019
**Proposed Letting Date:** June 2020
**District(s):** El Paso
**County(ies):** El Paso
**Roadway Name:** Central Business District (CBD) Phase IV: Oregon Street, Kansas Street, Campbell Street, 6th Street, and Father Rahm Avenue
**Limits From:** Various locations
**Limits To:** NA
**Project Description:** The proposed project would consist of roadway reconstruction and parkway improvements, including storm sewers, sidewalks, curbs and gutters, ADA improvements, driveways, traffic signals, lighting, signing and striping, landscaping, and irrigation. Roadway reconstruction would occur on Campbell Street, Kansas Street, Oregon Street, and 6th Street. Parkway Improvements would occur on Father Rahm Avenue and Kansas Street (See Figures 1 and 2 for project location maps). Please see ECOS for a more detailed project description.

☐ *Project has no Federal nexus.*
☐ *Project not assigned to TxDOT under the NEPA Assignment MOU*

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.

## Endangered Species Act (ESA)

Yes — Is the action area of the proposed project within the range of federally protected species?

Yes — Did the USFWS IPaC system identify any endangered species that may occur or could potentially be affected by the proposed project activities?

Date that the IPaC system was accessed: August 21, 2019

No — Is the action area of the proposed project in suitable habitat of federally protected species?

*Explain:

There is no suitable habitat for any federally listed species within or adjacent to the proposed project area, as verified by a qualified biologist.

***Resources consulted or activities conducted to make effect determination (if applicable):***

- ☒ TPWD County List
- ☒ USFWS Critical Habitat Maps
- ☐ Species Expert Consulted
- ☒ Aerial Photography
- ☐ Coastal Areas Maps
- ☒ Site Visit
- ☒ Topographic Map
- ☐ Species Study Conducted
- ☐ Karst Zone Maps
- ☒ Ecological Mapping System of Texas (EMST)
- ☒ Natural Diversity Database (NDD)

Other:

## Migratory Bird Treaty Act (MBTA)

Yes — Is there potential for nesting birds to be present in the project action area during construction?

No — Were active nests identified during the site survey?

Yes — Will BMPs will be incorporated to protect migratory bird nests?

## Bald and Golden Eagle Protection Act (BGEPA)

No — Does the proposed project have the potential to impact Bald or Golden Eagles?

Comments:

The project area does not contain suitable habitat for bald or golden eagles.

## Fish and Wildlife Coordination Act (FWCA)

No — Does the project have impacts on one or more Waters of the U.S. or wetlands?

## Executive Order 13112 on Invasive Species

Yes — Would the proposed project be in compliance with EO 13112?

Comments:

Project activites would be limited to existing paved surfaces.

## Executive Memorandum on Environmentally and Economically Beneficial Landscaping

No — Would landscaping be included in the proposed projects?

## Farmland Protection Policy Act (FPPA)

No — Would the project require new ROW or permanent easements (Do not include temporary easements)?

Comments:

The proposed project would not require new ROW or permanent easements and is located in an urban area. Therefore, coordination with NRCS is not required.

## General Comments

Please see the following attachments for supporting documentation: (1) Figures 1, 2, 3, and 4, (2) USFWS IPaC T&E Species List, (3) TPWD El Paso County T&E Species List, (4) Species Impact Table, (5) CBD IV EMST Summary Table, (6) Field-verified Vegetation MOU Summary Table, (7) Project Area Photographs, and (8) NDD Element Occurrence Report.

# Findings

## *Endangered Species Act (ESA)*

No suitable habitat was observed for any federally listed species. Therefore, there would be no effect on federally listed species. However, measures to avoid harm to any threatened and endangered species would be taken should they be observed during construction of the proposed project. Coordination with the USFWS would not be required. The USFWS IPaC website was accessed on August 21, 2019.

## *Essential Fish Habitat (EFH)*

Tidally influenced waters do not occur within the project action area. Coordination with National Marine Fisheries Service is not required.

## *Coastal Barrier Resources Act (CBRA)*

This project is not located within a designated CBRA map unit. Coordination with the U.S. Fish and Wildlife Service (USFWS) is not required.

## *Marine Mammal Protection Act (MMPA)*

Marine mammals are protected under the Marine Mammal Protection Act (MMPA). The Texas coast provides suitable habitat and is within range of several marine mammals including the West Indian Manatee (*Trichechus manatus*), and bottlenose dolphin (*Tursiops truncatus*).

The project area does not contain suitable habitat for marine mammals. Coordination with NMFS is not required.

## *Migratory Bird Treaty Act (MBTA)*

The Migratory Bird Treaty Act (MBTA) states that it is unlawful to kill, capture, collect, possess, buy, sell, trade, or transport any migratory bird, nest, young, feather, or egg in part or in whole, without a federal permit issued in accordance within the Act's policies and regulations.

A site survey did not identify active nests within the project action area. While no impact to migratory birds is expected, TxDOT will take all appropriate actions to prevent the take of migratory birds, their active nests, eggs, or young should they be discovered on the project site. Direction to contractors is provided on the standard EPIC sheet.

## *Bald and Golden Eagle Protection Act (BGEPA)*

The proposed project does not have the potential to impact Bald or Golden Eagles.

## *Fish and Wildlife Coordination Act (FWCA)*

The Fish and Wildlife Coordination Act (FWCA) of 1958 requires that federal agencies obtain comments from USFWS and TPWD. This coordination is required whenever a project involves impounding, diverting, or deepening a stream channel or other body of water.

The proposed project would have no impact to Waters of the U.S. or wetlands and no Section 404 permit is required; therefore, no review by the U.S. Fish and Wildlife Service (USFWS).

## *Executive Order 13112 on Invasive Species (EO 13112)*

Re-vegetation of disturbed areas would be in compliance with the Executive Order on Invasive Species (EO 13112). Regionally native and non-invasive plants will be used to the extent practicable in landscaping and re-vegetation.

## *Executive Memorandum on Beneficial Landscaping*

Landscaping is not part of the proposed project. If revegetation is needed, disturbed areas would be revegetated according to TxDOT's standard practices, which to the extent practicable, complies with Executive Memorandum on Environmentally and Economically Beneficial Landscaping. Direction to contractors is provided on the standard EPIC sheet.

## *Farmland Protection Policy Act (FPPA)*

Coordination with the National Resources Conservation Service for FPPA would not be required because the project requires no additional ROW or permanent easements.

## *Suggested Attachments*

**Aerial Map (with delineated project boundaries)**

**USFWS T&E List**

**TPWD T&E List**

**Species Impact Table**

**NDD EOID List and Tracked Managed Areas (Required for TPWD Coordination)**

**NOAA EFH Mapper Printout**

**USFWS CBRA Mapper Printout**

**EMST Project MOU Summary Table (Required for TPWD Coordination)**

**TPWD SGCN List**

**FPPA Documentation**

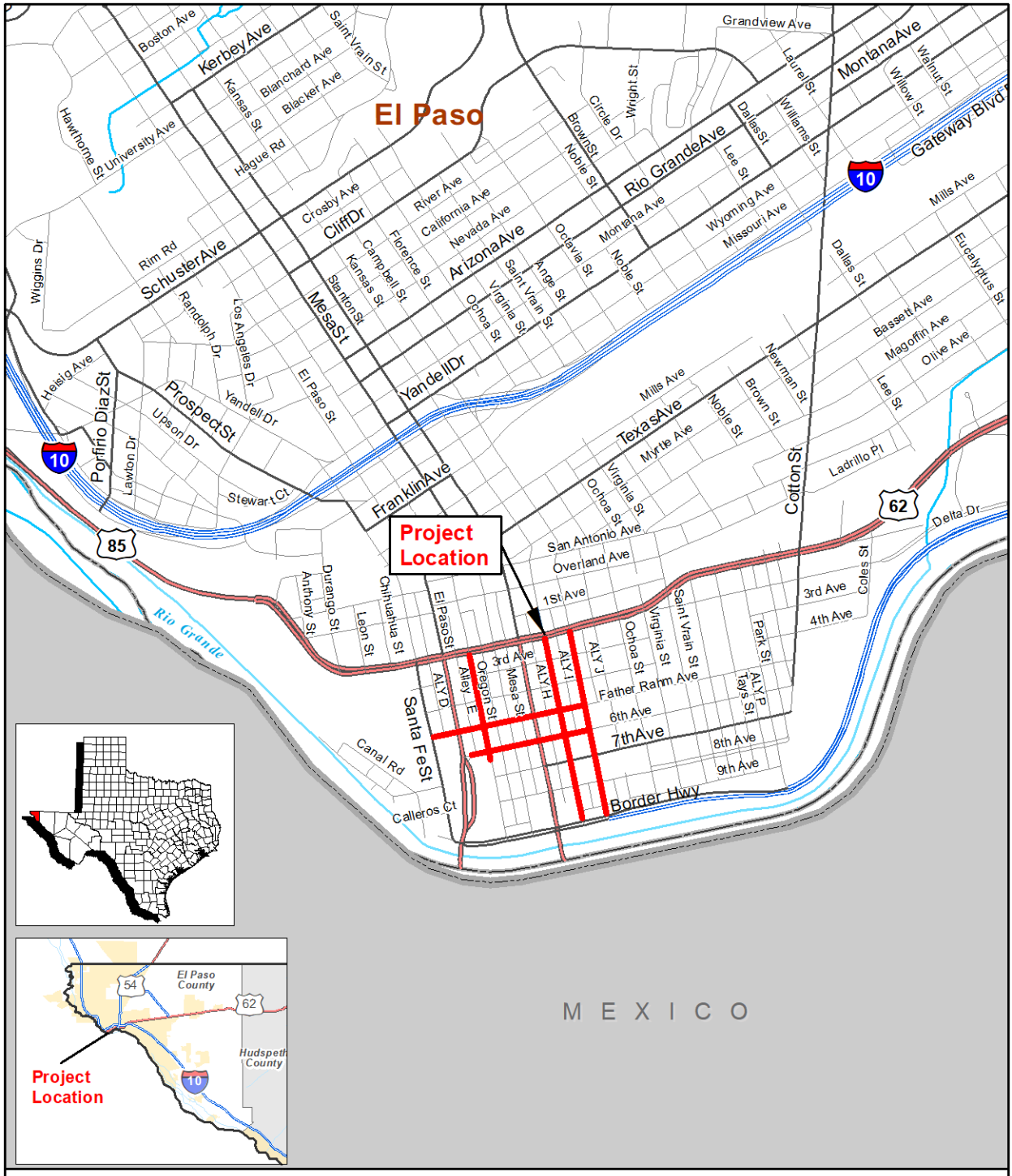
**NRCS Web Soil Survey Map**

**Census Bureau Urbanized Area Map**

**Landscaping Plans**

**Photos (Required for TPWD Coordination)**

**Previous TPWD Coordination Documentation (if applicable)**



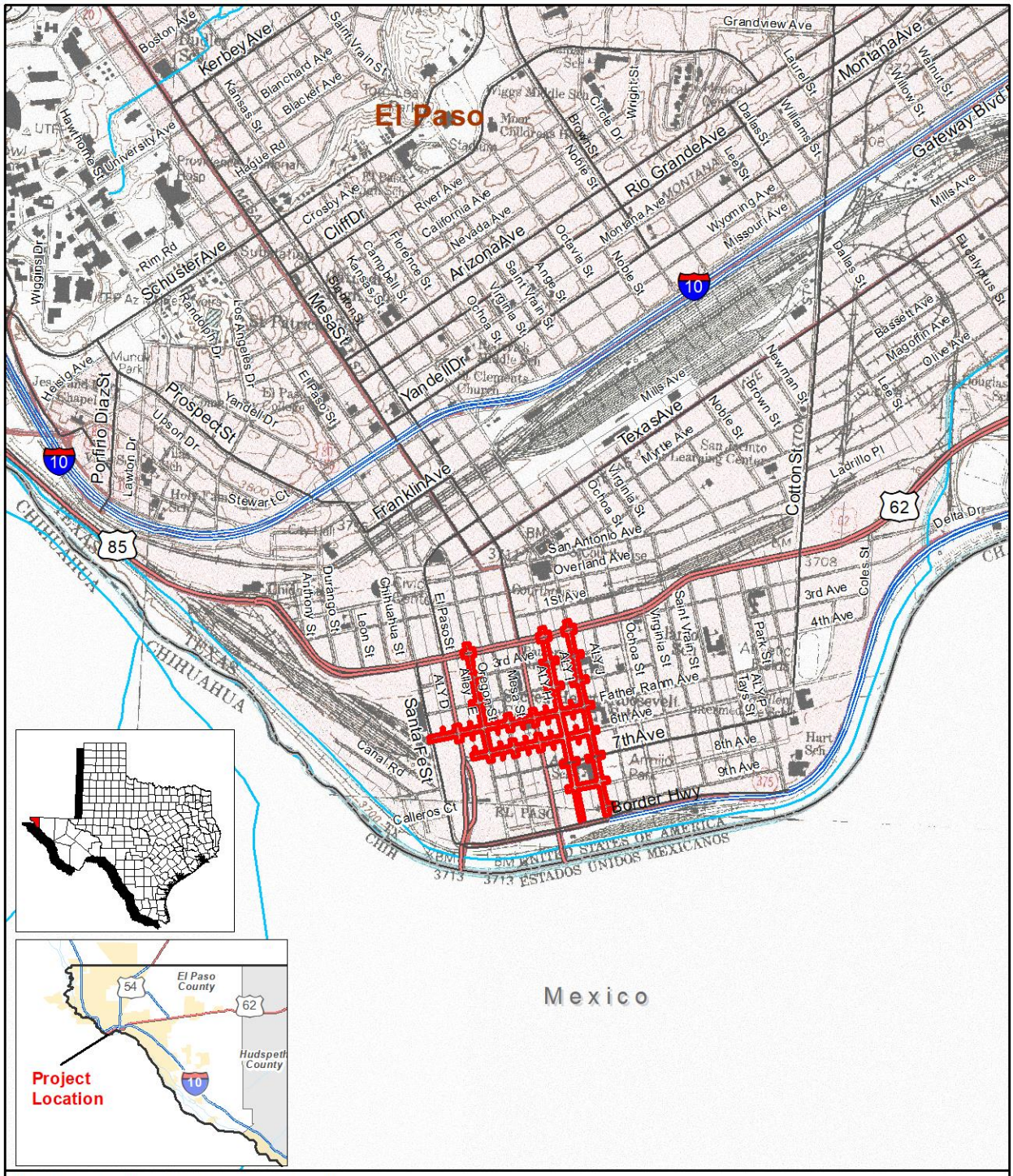

Project Location

N
W E
S

1:24,000

0 500 1,000 2,000
Feet

Figure 1
Project Location on County Map Base
Central Business District (CBD)
Phase IV: Oregon Street, Kansas Street, Campbell Street, 6th Avenue, and Father Rahm Avenue
El Paso County, Texas
CSJ: 0924-06-562




Base Map: 7.5' USGS Topographic Quadrangles:
El Paso, Texas (1973 El Paso, Map ID No.31106-G4)

N
W E
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Area of Potential Effects

1:24,000

Miles
0 0.25 0.5

Figure 2
Project Location on Topographic Map
Central Business District (CBD)
Phase IV: Oregon Street, Kansas Street, Campbell Street, 6th Street, and Father Rahm Avenue
El Paso County, Texas
CSJ: 0924-06-562

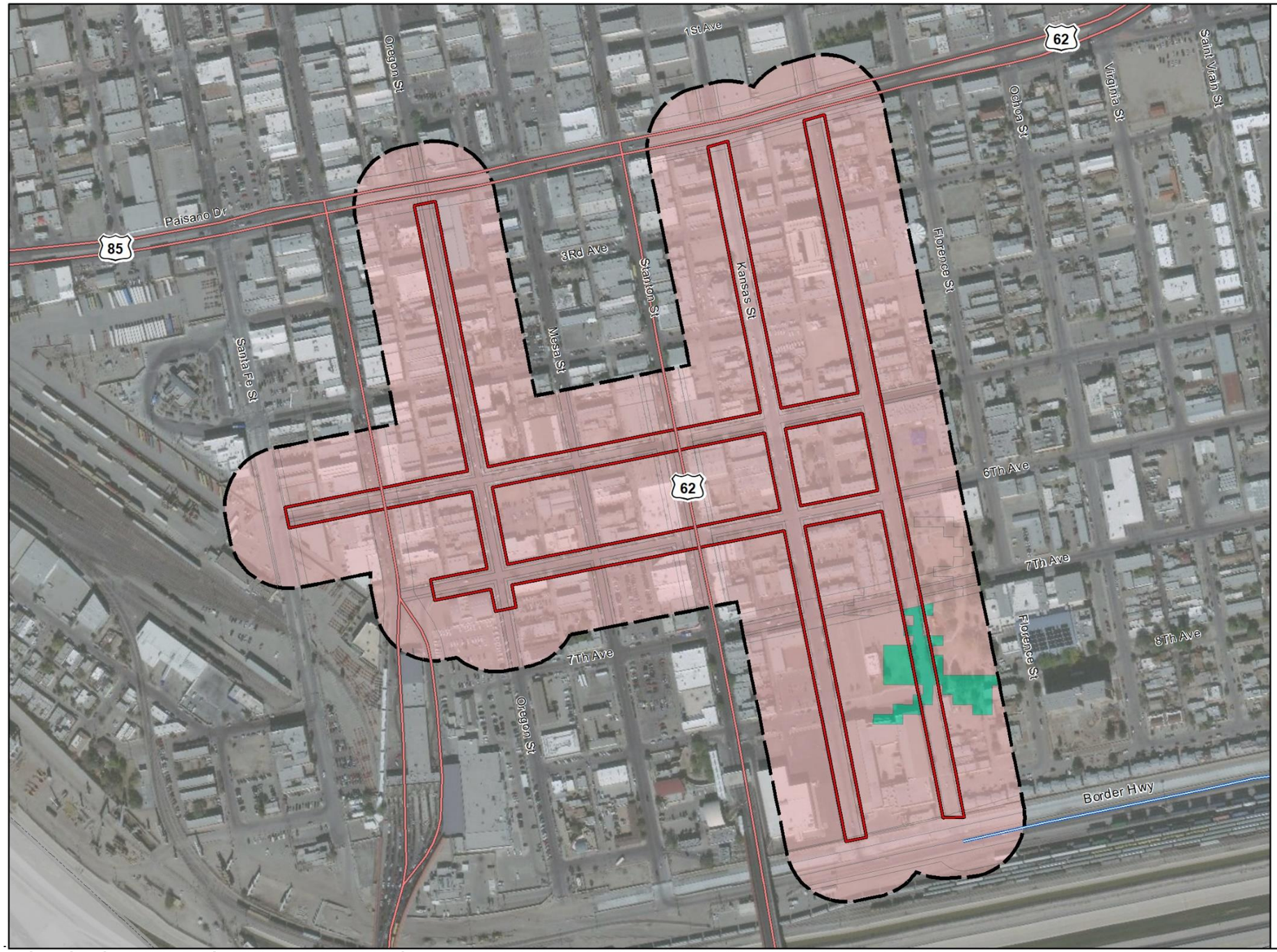


Figure 3
Ecological Mapping System of Texas
Vegetation Types
Central Business District (CBD)
Phase IV: Oregon Street, Kansas Street,
Campbell Street, 6th Avenue,
and Father Rahm Avenue
El Paso County, Texas
CSJ: 0924-06-562

Existing Right-of-way

200-foot Buffer

**Vegetation Type**

Trans-Pecos: Riparian Shrubland

Urban Low Intensity

N
W E
S

0 150 300
Feet

0 100 200
Meters

Base Map: ESRI World Imagery

Figure 4
Field-verified Vegetation Types
Central Business District (CBD)
Phase IV: Oregon Street, Kansas Street, Campbell Street, 6th Avenue, and Father Rahm Avenue
El Paso County, Texas
CSJ: 0924-06-562

Existing Right-of-way

Urban Low Intensity

N W E S

0 150 300
Feet

0 100 200
Meters

Base Map: ESRI World Imagery

# United States Department of the Interior

FISH AND WILDLIFE SERVICE
Austin Ecological Services Field Office
10711 Burnet Road, Suite 200
Austin, TX 78758-4460
Phone: (512) 490-0057 Fax: (512) 490-0974
http://www.fws.gov/southwest/es/AustinTexas/
http://www.fws.gov/southwest/es/EndangeredSpecies/lists/


In Reply Refer To: August 21, 2019
Consultation Code: 02ETAU00-2019-SLI-1656
Event Code: 02ETAU00-2019-E-03364
Project Name: CBD 4

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that *may* occur within the county of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

Please note that new information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Also note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq*.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of federally listed as threatened

or endangered species and to determine whether projects may affect these species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

While a Federal agency may designate a non-Federal representative to conduct informal consultation or prepare a biological assessment, the Federal Agency must notify the Service in writing of any such designation. The Federal agency shall also independently review and evaluate the scope and content of a biological assessment prepared by their designated non-Federal representative before that document is submitted to the Service.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by a federally funded, permitted or authorized activity, the agency is required to consult with the Service pursuant to 50 CFR 402. The following definitions are provided to assist you in reaching a determination:

- *No effect* - the proposed action will not affect federally listed species or critical habitat. A “no effect” determination does not require section 7 consultation and no coordination or contact with the Service is necessary. However, if the project changes or additional information on the distribution of listed or proposed species becomes available, the project should be reanalyzed for effects not previously considered.
- *May affect, but is not likely to adversely affect* - the project may affect listed species and/or critical habitat; however, the effects are expected to be discountable, insignificant, or completely beneficial. Certain avoidance and minimization measures may need to be implemented in order to reach this level of effect. The Federal agency or the designated non-Federal representative should consult with the Service to seek written concurrence that adverse effects are not likely. Be sure to include all of the information and documentation used to reach your decision with your request for concurrence. The Service must have this documentation before issuing a concurrence.
- *Is likely to adversely affect* - adverse effects to listed species may occur as a direct or indirect result of the proposed action. For this determination, the effect of the action is neither discountable nor insignificant. If the overall effect of the proposed action is beneficial to the listed species but the action is also likely to cause some adverse effects to individuals of that species, then the proposed action “is likely to adversely affect” the listed species. The analysis should consider all interrelated and interdependent actions. An “is likely to adversely affect” determination requires the Federal action agency to initiate formal section 7 consultation with our office.

Regardless of the determination, the Service recommends that the Federal agency maintain a complete record of the evaluation, including steps leading to the determination of effect, the qualified personnel conducting the evaluation, habitat conditions, site photographs, and any other related information. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

Migratory Birds

For projects that may affect migratory birds, the Migratory Bird Treaty Act (MBTA) implements various treaties and conventions for the protection of these species. Under the MBTA, taking, killing, or possessing migratory birds is unlawful. Migratory birds may nest in trees, brushy areas, or other areas of suitable habitat. The Service recommends activities requiring vegetation removal or disturbance avoid the peak nesting period of March through August to avoid destruction of individuals, nests, or eggs. If project activities must be conducted during this time, we recommend surveying for nests prior to conducting work. If a nest is found, and if possible, the Service recommends a buffer of vegetation remain around the nest until the young have fledged or the nest is abandoned.

For additional information concerning the MBTA and recommendations to reduce impacts to migratory birds please contact the U.S. Fish and Wildlife Service Migratory Birds Office, 500 Gold Ave. SW, Albuquerque, NM 87102. A list of migratory birds may be viewed at https://www.fws.gov/birds/management/managed-species/migratory-bird-treaty-act-protected-species.php. Guidance for minimizing impacts to migratory birds for projects including communications towers can be found at: https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/communication-towers.php. Additionally, wind energy projects should follow the wind energy guidelines

https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/wind-energy.php ) for minimizing impacts to migratory birds and bats.

Finally, please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan https://www.fws.gov/birds/management/project-assessment-tools-and-guidance/guidance-documents/eagles.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

# Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Austin Ecological Services Field Office**
10711 Burnet Road, Suite 200
Austin, TX 78758-4460
(512) 490-0057

# Project Summary

Consultation Code: 02ETAU00-2019-SLI-1656

Event Code: 02ETAU00-2019-E-03364

Project Name: CBD 4

Project Type: TRANSPORTATION

Project Description: Improvements to roads in the old downtown area.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/31.753098992177286N106.48379897196003W

Counties: El Paso, TX

## Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Birds

| NAME | STATUS |
|---|---|
| Least Tern *Sterna antillarum*<br>Population: interior pop.<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/8505 | Endangered |
| Mexican Spotted Owl *Strix occidentalis lucida*<br>There is **final** critical habitat for this species. Your location is outside the critical habitat.<br>Species profile: https://ecos.fws.gov/ecp/species/8196 | Threatened |
| Northern Aplomado Falcon *Falco femoralis septentrionalis*<br>Population: Wherever found, except where listed as an experimental population<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/1923 | Endangered |
| Piping Plover *Charadrius melodus*<br>Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered.<br>There is **final** critical habitat for this species. Your location is outside the critical habitat.<br>This species only needs to be considered under the following conditions:<br>▪ Wind Energy Projects<br>Species profile: https://ecos.fws.gov/ecp/species/6039 | Threatened |
| Red Knot *Calidris canutus rufa*<br>No critical habitat has been designated for this species.<br>This species only needs to be considered under the following conditions:<br>▪ Wind Energy Projects<br>Species profile: https://ecos.fws.gov/ecp/species/1864 | Threatened |
| Southwestern Willow Flycatcher *Empidonax traillii extimus*<br>There is **final** critical habitat for this species. Your location is outside the critical habitat.<br>Species profile: https://ecos.fws.gov/ecp/species/6749 | Endangered |
| Yellow-billed Cuckoo *Coccyzus americanus*<br>Population: Western U.S. DPS<br>There is **proposed** critical habitat for this species. Your location is outside the critical habitat.<br>Species profile: https://ecos.fws.gov/ecp/species/3911 | Threatened |

## Flowering Plants

| NAME | STATUS |
|---|---|
| Sneed Pincushion Cactus *Coryphantha sneedii var. sneedii*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/4706 | Endangered |

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Last Update: 7/17/2019

# EL PASO COUNTY

## AMPHIBIANS

**Woodhouse's toad** *Anaxyrus woodhousii*

Extremely catholic up to 5000 feet, does very well (except for traffic) in association with man.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: SU |

## BIRDS

**American peregrine falcon** *Falco peregrinus anatum*

Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G4T4 | State Rank: S2B |

**Franklin's gull** *Leucophaeus pipixcan*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4G5 | State Rank: S2N |

**gray hawk** *Buteo plagiatus*

Locally and irregularly along U.S.-Mexico border; mature riparian woodlands and nearby semiarid mesquite and scrub grasslands; breeding range formerly extended north to southernmost Rio Grande floodplain of Texas

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: GNR | State Rank: S2B |

**Mexican spotted owl** *Strix occidentalis lucida*

Remote, shaded canyons of coniferous mountain woodlands (pine and fir); nocturnal predator of mostly small rodents and insects; day roosts in densely vegetated trees, rocky areas, or caves

| | | |
|---|---|---|
| Federal Status: LT | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G3G4T3T4 | State Rank: S1B |

**southwestern willow flycatcher** *Empidonax traillii extimus*

Thickets of willow, cottonwood, mesquite, and other species along desert streams

| | | |
|---|---|---|
| Federal Status: LE | State Status: E | SGCN: N |
| Endemic: N | Global Rank: G5T2 | State Rank: S1B |

*DISCLAIMER*

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# EL PASO COUNTY

## BIRDS

**western burrowing owl** *Athene cunicularia hypugaea*

Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4T4 | State Rank: S2 |

**western yellow-billed cuckoo** *Coccyzus americanus occidentalis*

Status applies only to western population beyond the Pecos River Drainage; breeds in riparian habitat and associated drainages; springs, developed wells, and earthen ponds supporting mesic vegetation; deciduous woodlands with cottonwoods and willows; dense understory foliage is important for nest site selection; nests in willow, mesquite, cottonwood, and hackberry; forages in similar riparian woodlands; breeding season mid-May-late Sept.

| | | |
|---|---|---|
| Federal Status: LT | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5T2T3 | State Rank: S4S5B |

**white-faced ibis** *Plegadis chihi*

Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; currently confined to near-coastal rookeries in so-called hog-wallow prairies. Nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S4B |

## FISH

**Chihuahua catfish** *Ictalurus sp. 1*

Native to the Rio Grande and Davis Mountains in west Texas; it inhabits the middle to upper parts of moderate to large rivers and also occurs in small, headwater creeks and springs over gravel, rubble, rocks, boulders and mud substrates.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G1G2 | State Rank: S1 |

**longnose dace** *Rhinichthys cataractae*

Can only be found in the Big Bend portion of the Rio Grande. Occasionally taken in lakes and clear pools of rivers but prefers clear, flowing water in gravelly riffles.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S2 |

**speckled chub** *Macrhybopsis aestivalis*

Found throughout the Rio Grande and lower Pecos River but occurs most frequently between the Río Conchos confluence and the Pecos River. Flowing water over coarse sand and fine gravel substrates in streams; typically found in raceways and runs.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S3S4 |

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# EL PASO COUNTY

## INSECTS

**American bumblebee** *Bombus pensylvanicus*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: | Global Rank: G3G4 | State Rank: SNR |

**No accepted common name** *Isoperla jewetti*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: | Global Rank: G1 | State Rank: S1 |

**No accepted common name** *Cibolacris samalayucae*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: | Global Rank: G2? | State Rank: S2? |

## MAMMALS

**American badger** *Taxidea taxus*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

**big brown bat** *Eptesicus fuscus*

Any wooded areas or woodlands except south Texas. Riparian areas in west Texas.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

**big free-tailed bat** *Nyctinomops macrotis*

Habitat data sparse but records indicate that species prefers to roost in crevices and cracks in high canyon walls, but will use buildings, as well; reproduction data sparse, gives birth to single offspring late June-early July; females gather in nursery colonies; winter habits undetermined, but may hibernate in the Trans-Pecos; opportunistic insectivore

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: | Global Rank: G5 | State Rank: S3 |

**black-tailed prairie dog** *Cynomys ludovicianus*

Dry, flat, short grasslands with low, relatively sparse vegetation, including areas overgrazed by cattle; live in large family groups

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4 | State Rank: S3 |

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# EL PASO COUNTY

## MAMMALS

**cave myotis bat** *Myotis velifer*

Colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (Hirundo pyrrhonota) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4G5 | State Rank: S4 |

**desert pocket gopher** *Geomys arenarius*

Cottonwood-willow association along the Rio Grande in El Paso and Hudspeth counties; does not tolerate clayey or gravelly soils characteristic of the other Geomys species; common along irrigation ditches in the sandy river bottom area.Lives underground, but build large and conspicuous mounds; life history not well documented, but presumed to eat mostly vegetation, be active year round, and bear more than one litter per year.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S2 |

**eastern red bat** *Lasiurus borealis*

Found in a variety of habitats in Texas. Usually associated with wooded areas. Found in towns especially during migration.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S4 |

**hoary bat** *Lasiurus cinereus*

Known from montane and riparian woodland in Trans-Pecos, forests and woods in east and central Texas.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S4 |

**kit fox** *Vulpes macrotis*

Open desert grassland; avoids rugged, rocky terrain and wooded areas.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4 | State Rank: S1S2 |

**long-legged myotis bat** *Myotis volans*

Found in pine-oak woodland to grassland ecotone, higher elevations of Trans-Pecos.High, open woods and mountainous terrain; nursery colonies (which may contain several hundred individuals) form in summer in buildings, crevices, and hollow trees; apparently does not use caves as day roosts, but may use such sites at night; single offspring born June-July.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4G5 | State Rank: S4 |

**long-tailed weasel** *Mustela frenata*

Includes brushlands, fence rows, upland woods and bottomland hardwoods, forest edges & rocky desert scrub. Usually live close to water.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

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# EL PASO COUNTY

## MAMMALS

**Mexican free-tailed bat** *Tadarida brasiliensis*

Roosts in buildings in east Texas. Largest maternity roosts are in limestone caves on the Edwards Plateau. Found in all habitats, forest to desert.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

**Mexican long-tongued bat** *Choeronycteris mexicana*

Only Texas record is from riparian forest; in general--neotropical nectivorous species roosting in caves, mines, and large crevices found in deep canyons along the Rio Grande ; also found in buildings and often associated with big-eared bats (Plecotus spp.); single TX record from Santa Ana NWR

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S1 |

**mountain lion** *Puma concolor*

Rugged mountains & riparian zones.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S2S3 |

**Pecos River muskrat** *Ondatra zibethicus ripensis*

Creeks, rivers, lakes, drainage ditches, and canals; prefer shallow, fresh water with clumps of marshy vegetation, such as cattails, bulrushes, and sedges; live in dome-shaped lodges constructed of vegetation; diet is mainly vegetation; breed year round

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5T3T4 | State Rank: S2S3 |

**pronghorn** *Antilocapra americana*

Prefers hilly & plateau areas of open grassland, desert-grassland, & desert-scrub, where it frequents south-facing slopes & other sheltered areas.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

**rock mouse** *Peromyscus nasutus*

Rocky areas and talus slopes above 6000 feet. General vegetation associations include madrone, oak, maple, juniper, pinyon and ponderosa pine.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S4 |

**Townsend's big-eared bat** *Corynorhinus townsendii*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4 | State Rank: S3? |

**western hog-nosed skunk** *Conepatus leuconotus*

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# EL PASO COUNTY

## MAMMALS

Habitats include woodlands, grasslands & deserts, to 7200 feet, most common in rugged, rocky canyon country; little is known about the habitat of the ssp. telmalestes

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4 | State Rank: S4 |

**western small-footed myotis bat** *Myotis ciliolabrum*

Mountainous regions of the Trans-Pecos, usually in wooded areas, also found in grassland and desert scrub habitats; roosts beneath slabs of rock, behind loose tree bark, and in buildings; maternity colonies often small and located in abandoned houses, barns, and other similar structures; apparently occurs in Texas only during spring and summer months; insectivorous

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S3 |

**western spotted skunk** *Spilogale gracilis*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

**western yellow bat** *Lasiurus xanthinus*

Forages over water both perennial and intermittent sources, found at low elevations (< 6,000 feet), roosts in vegetation (yucca, hackberry, sycamore, cypress, and especially palm); also hibernates in palm; locally common in residential areas landscaped with palms in Tuscon and Phoenix, Arizona; young born in June; insectivore

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4G5 | State Rank: S1 |

## MOLLUSKS

**Franklin Mountain talus snail** *Sonorella metcalfi*

Terrestrial; bare rock, talus, scree; inhabits igneous talus most commonly of rhyolitic origin

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S1 |

**Franklin Mountain wood snail** *Ashmunella pasonis*

Terrestrial; bare rock, talus, scree; talus slopes, usually of limestone, but also of rhyolite, sandstone, and siltstone, in arid mountain ranges

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: | Global Rank: G2G3 | State Rank: S1? |

**Huecos Mountains talus snail** *Sonorella huecoensis*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: Y | Global Rank: G1G2 | State Rank: S1? |

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# EL PASO COUNTY

## REPTILES

**Big Bend slider** *Trachemys gaigeae*

Almost exclusively aquatic, sliders (Trachemys spp.) prefer quiet bodies of fresh water with muddy bottoms and abundant aquatic vegetation, which is their main food source; will bask on logs, rocks or banks of water bodies; breeding March-July

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S2 |

**Chihuahuan Desert lyre snake** *Trimorphodon vilkinsonii*

Rocky areas with plenty of crevices and fissures. Desert flats, succulent and scrub, and mountain canyons to about 6000 feet. Mostly crevice-dwelling in predominantly limestone-surfaced desert northwest of the Rio Grande from Big Bend to the Franklin Mountains, especially in areas with jumbled boulders and rock faults/fissures; secretive; egg-bearing; eats mostly lizards.

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G4 | State Rank: S4 |

**common garter snake** *Thamnophis sirtalis*

Irrigation canals and riparian-corridor farmlands in west; marshy, flooded pastureland, grassy or brushy borders of permanent bodies of water; coastal salt marshes.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: N |
| Endemic: | Global Rank: G5 | State Rank: S2 |

**gray-checkered whiptail** *Aspidoscelis dixoni*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S2 |

**massasauga** *Sistrurus tergeminus*

Quite common in gently rolling prairie occasionally broken by creek valley or rocky hillside.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4 | State Rank: S3S4 |

**mountain short-horned lizard** *Phrynosoma hernandesi*

Diurnal, usually in open, shrubby, or openly wooded areas with sparse vegetation at ground level; soil may vary from rocky to sandy; burrows into soil or occupies rodent burrow when inactive; eats ants, spiders, snails, sowbugs, and other invertebrates; inactive during cold weather; breeds March-September

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S2 |

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# EL PASO COUNTY

## REPTILES

**Texas horned lizard** *Phrynosoma cornutum*

Occurs to 6000 feet, but largely limited below the pinyon-juniper zone on mountains in the Big Bend area. Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September.

| | | |
|---|---|---|
| Federal Status: | State Status: T | SGCN: Y |
| Endemic: N | Global Rank: G4G5 | State Rank: S3 |

**western box turtle** *Terrapene ornata*

Ornate or western box trutles inhabit prairie grassland, pasture, fields, sandhills, and open woodland. They are essentially terrestrial but sometimes enter slow, shallow streams and creek pools. For shelter, they burrow into soil (e.g., under plants such as yucca) (Converse et al. 2002) or enter burrows made by other species; winter burrow depth was 0.5-1.8 meters in Wisconsin (Doroff and Keith 1990), 7-120 cm (average depth 54 cm) in Nebraska (Converse et al. 2002). Eggs are laid in nests dug in soft well-drained soil in open area (Legler 1960, Converse et al. 2002). Very partial to sandy soil.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S3 |

**western hognose snake** *Heterodon nasicus*

Habitat consists of areas with sandy or gravelly soils, including prairies, sandhills, wide valleys, river floodplains, bajadas, semiagricultural areas (but not intensively cultivated land), and margins of irrigation ditches (Degenhardt et al. 1996, Hammerson 1999, Werler and Dixon 2000, Stebbins 2003). Also thornscrub woodlands and chaparral thickets. Seems to prefer sandy and loamy soils, not necessarily flat. Periods of inactivity are spent burrowed in the soil or in existing burrows. Eggs are laid in nests a few inches below the ground surface (Platt 1969).

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S4 |

**western rattlesnake** *Crotalus viridis*

Grassland, both desert and prairie; shrub desert rocky hillsides; edges of arid and semi-arid river breaks.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5 | State Rank: S5 |

## PLANTS

**Alamo beardtongue** *Penstemon alamosensis*

Rocky soils derived from limestone (in Texas), usually in sheltered sites, often on north facing slopes and in mesic canyon bottoms, occasionally in rock crevices or among unbrowsed shrubs; flowering late April-June

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S1 |

**Bigelow's desert grass** *Blepharidachne bigelovii*

Restricted to xeric limestone or various gypsum-influenced habitats; Perennial; Flowering March-Dec; Fruiting March-Dec

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S3 |

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# EL PASO COUNTY

## PLANTS

**Comal snakewood** *Colubrina stricta*

In El Paso County, found in a patch of thorny shrubs in colluvial deposits and sandy soils at the base of an igneous rock outcrop; the historic Comal County record does not describe the habitat; in Mexico ,found in shrublands on calcareous, gravelly, clay soils with woody associates; flowering late spring or early summer

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S1 |

**dense cory cactus** *Escobaria dasyacantha var. dasyacantha*

Lechuguilla-sotol or creosote bush shrublands, grasslands, and oak-juniper woodlands on gravelly, rocky, and/or loamy soils over igneous or limestone substrates at moderate elevations 750-1800 m (2450-5900 ft) in the Chihuahuan Desert; flowering March-May (-July), fruiting (May-) June-August

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3T3 | State Rank: S3 |

**desert night-blooming cereus** *Peniocereus greggii var. greggii*

Chihuahuan Desert shrublands or shrub invaded grasslands in alluvial or gravelly soils at lower elevations, 1200-1500 m (3900-4900 ft), on slopes, benches, arroyos, flats, and washes; flowering synchronized over a few nights in early May to late June when almost all mature plants bloom, flowers last only one day and open just after dark, may flower as early as April

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3G4T2 | State Rank: S2 |

**fleshy tidestromia** *Tidestromia carnosa*

Occurs in saline or gypseous soils in open situations; Annual; Flowering March-Nov; Fruiting April-Nov

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S2 |

**great sage** *Salvia summa*

Limestone cliffs and slopes in the Guadalupe and Franklin Mountains; Perennial; Flowering April-June; Fruiting May-Oct

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3? | State Rank: S2 |

**Hueco rock-daisy** *Perityle huecoensis*

North-facing or otherwise mostly shaded limestone cliff faces within relatively mesic canyon system; flowering spring-fall

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G1 | State Rank: S1 |

**lyreleaf twistflower** *Streptanthus carinatus ssp. carinatus*

Occurs on igneous and limestone slopes and alluvial fans (Carr 2015).

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4T3T4 | State Rank: S3 |

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# EL PASO COUNTY

## PLANTS

**Mt. Davis brickellbush** *Brickellia parvula*

Occurs on rocky slopes and ridges in the mountains of the southwestern U.S. at elevations between 1200 and 2100 m; Perennial; Flowering Aug-Sept; Fruiting Sept-Oct

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S1 |

**Payson's hiddenflower** *Cryptantha paysonii*

Rocky limestone slopes in mountains; Perennial; Flowering May; Fruiting May-June

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S1 |

**Pima pineapple cactus** *Coryphantha scheeri var. robustispina*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: LE | State Status: | SGCN: N |
| Endemic: N | Global Rank: G4T2Q | State Rank: SNA |

**Plank's catchfly** *Silene plankii*

Franklin Mountains of El Paso County, occurring in crevices on shaded igneous cliff faces above ca. 5000 ft.; Perennial; Flowering summer-early autumn

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S1 |

**resin-leaf brickellbush** *Brickellia baccharidea*

Mixed desert shrublands on bajada slopes and in arroyos on sandy or gravelly soils derived from limestone, but also known from igneous substrates; flowering September-April

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S1 |

**sand prickly-pear** *Opuntia arenaria*

Deep, loose or semi-stabilized sands in sparsely vegetated dune or sandhill areas, or sandy floodplains in arroyos; flowering May-June

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S2 |

**Scheer's cory cactus** *Coryphantha scheeri var. uncinata*

Rocky hillsides (Carr 2015).

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4TUQ | State Rank: S2 |

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# EL PASO COUNTY

## PLANTS

**smooth bur-cucumber** *Sicyos glaber*

Mesic canyons in the Chisos and Guadalupe Mountains (Carr 2015).

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3 | State Rank: S1 |

**Sneed's pincushion cactus** *Escobaria sneedii var. sneedii*

Xeric limestone outcrops on rocky, usually steep slopes in desert mountains, in the Chihuahuan Desert succulent shrublands or grasslands; flowering April-September (peak usually in April, sometimes opportunistically after summer rains; fruiting August - November

| | | |
|---|---|---|
| Federal Status: LE | State Status: E | SGCN: Y |
| Endemic: N | Global Rank: G2G3QT2Q | State Rank: S2 |

**Stebbin's desert dandelion** *Malacothrix stebbinsii*

Habitat description is not available at this time.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3? | State Rank: S1 |

**Texas false saltgrass** *Allolepis texana*

Sandy to silty soils of valley bottoms and river floodplains, not generally on alkaline or saline sites; Perennial; Flowering (May-) July-October depending on rainfall

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S1 |

**Vasey's bitterweed** *Hymenoxys vaseyi*

Occurs on xeric limestone cliffs and slopes at mid- to high elevations in desert shrublands.

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G2 | State Rank: S1 |

**Waterfall's milkvetch** *Astragalus waterfallii*

Rocky limestone slopes; Perennial; Flowering Feb-May; Fruiting April- May

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G3? | State Rank: S3 |

**Wheeler's spurge** *Euphorbia geyeri var. wheeleriana*

Sparingly vegetated, loose eolian quartz sand on reddish sand dunes or coppice mounds; flowering and fruiting at least August-September, probably earlier and later, as well

| | | |
|---|---|---|
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G5T2 | State Rank: S1 |

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# EL PASO COUNTY

## PLANTS

| | | |
|---|---|---|
| **Wright's fishhook cactus** | *Mammillaria wrightii var. wrightii* | |
| Franklin Mountains (Carr 2015) | | |
| Federal Status: | State Status: | SGCN: Y |
| Endemic: N | Global Rank: G4T3 | State Rank: S1 |

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**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| **AMPHIBIANS** | | | | | |
| Woodhouse's Toad *Anaxyrus woodhousii* | — | SGCN | Extremely catholic up to 5000 feet, does very well (except for traffic) in association with man. | No impact | No potential habitat occurs in or adjacent to the project area. |
| **BIRDS** | | | | | |
| American Peregrine Falcon *Falco peregrines anatum* | — | T | Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in U.S. and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban; concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands. | No impact | Potential migrant; however, any occurrence of this species in or adjacent to the project area would be temporary as no suitable habitat occurs. |
| Franklin's Gull *Leucophaeus pipixcan* | — | SGCN | Nonbreeding: seacoasts, bays, estuaries, lakes, rivers, marshes, ponds, and irrigated fields; mudflats. Nests in fresh-water marshes, shores of inland lakes, in areas of prairie and steppe. Nest is made of dead marsh plants; it is often a floating structure anchored to a living plant stem. | No impact | Potential migrant; however, any occurrence of this species in or adjacent to the project area would be temporary as no suitable habitat occurs. |
| Gray Hawk *Asturina nitida* | — | T | Locally and irregularly along US-Mexico border; mature riparian woodlands and nearby semiarid mesquite and scrub grasslands. | No impact | No riparian woodlands are present within or adjacent to the project area. |
| Interior Least Tern *Sterna antillarum athalassos* | E | E | Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also known to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc.); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony. | No effect | No suitable water features are present within or adjacent to the project area. Additionally, USFWS only requires consideration of this species for wind energy projects in El Paso County. |
| Mexican Spotted Owl *Strix occidentalis lucida* | T | T | Found in remote shaded canyons of coniferous mountain woodlands. | No effect | No coniferous mountain woodlands are present within or adjacent to the project area. |
| Northern Aplomado Falcon *Falco femoralis septentrionalis* | E | E | Found in open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus. | No effect | No intact grassland, savannah, or open woodlands are present within or adjacent to the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Piping Plover *Charadrius melodus* | T | T | Found on beaches, sandflats, and dunes along Gulf Coast and adjacent offshore islands, including spoil islands in the Intracoastal Waterway. Algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are 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. | No effect | Potential migrant through the project area, however, any occurrence of this species would be considered incidental. Additionally, USFWS only requires consideration of this species for wind energy projects in El Paso County. |
| Red Knot *Calidris canutus rufa* | T | SGCN | Migrates long distances in flocks northward through the contiguous U.S. mainly April-June and southward July-October; prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters; primary prey items include coquina clam (*Donax* spp.) on beaches and dwarf surf clam (*Mulinia lateralis*) in bays, at least in the Laguna Madre; wintering Range includes: Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy counties; primarily seacoasts on tidal flats/shores, beaches, and herbaceous wetlands. | No effect | No beaches, tidal flats, or other sea shoreline features are located within or adjacent to the project area. Additionally, USFWS only requires consideration of this species for wind energy projects in El Paso County. |
| Southwestern Willow Flycatcher *Empidonax traillii extimus* | E | E | Found in thickets of willow, cottonwood, mesquite, and other species along desert streams. | No effect | No thickets of willow, cottonwood, or mesquite are present in or adjacent to the project area. |
| Western Burrowing Owl *Athene cunicularia hypugaea* | — | SGCN | Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows. | May impact | Open areas such as vacant lots could provide suitable habitat, and there is one NDD record of the species within 1.5 mile of the project area. Bird BMPs will be implemented. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Western Yellow-billed Cuckoo *Coccyzus americanus occidentalis* | T | SGCN | Breeds in deciduous riparian woodlands with cottonwoods and willows; nests in willow, mesquite, cottonwood, and hackberry and forages in similar riparian woodlands. | No effect | No riparian woodlands are present in or adjacent to the project area. |
| White-faced Ibis *Plegadis chihi* | — | T | Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats. | No impact | No marshes, sloughs, or irrigated rice fields are present in or adjacent to the project area. |
| **FISH** | | | | | |
| Chihuahua Catfish *Ictalurus sp. 1* | — | SGCN | Has been identified from the Rio Grande and Rio Conchos of Texas/Mexico. | No impact | No suitable water features occur in or adjacent to the project area. |
| Longnose Dace *Rhinichthys cataractae* | — | SGCN | Swift streams with gravel beds, occasionally taken in lakes and clear pools of rivers. | No impact | No suitable water features occur in or adjacent to the project area. |
| Speckled Chub *Macrhybopsis aestivalis* | — | SGCN | Bottom feeder in sand and gravel runs of small to large rivers. | No impact | No suitable water features occur in or adjacent to the project area. |
| **MAMMALS** | | | | | |
| American Badger *Taxidea taxus* | — | SGCN | Found in cropland/hedgerow, desert, grassland/herbaceous, savanna, and shrubland/chaparral habitats. Prefers open areas and may also frequent brushlands with little groundcover. When inactive, occupies underground burrow. | No impact | No open areas, brushlands, desert, or other natural habitats occur in or adjacent to the project area. |
| Big Brown Bat *Eptesicus fuscus* | — | SGCN | Any wooded areas or woodlands except south Texas. Riparian areas in west Texas. | No impact | No wooded areas occur in or adjacent to the project area. |
| Big Free-tailed Bat *Nyctinomops macrotis* | — | SGCN | Records indicate that species prefers to roost in crevices and cracks in high canyon walls but will use buildings as well. | No impact | No canyons or suitable buildings are present in or adjacent to the project area. |
| Black-tailed Prairie Dog *Cynomys ludovicianus* | — | SGCN | Found in dry, flat short grasslands with low, relatively sparse vegetation, including areas overgrazed by cattle. | No impact | No flat shortgrass prairie or other grasslands are present in or adjacent to the project area. |
| Cave Myotis Bat *Myotis velifer* | — | SGCN | Colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (*Petrochelidon pyrrhonota*) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore. | No impact | No caves or suitable man-made structures are present in or adjacent to the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Desert Pocket Gopher *Geomys arenarius* | — | SGCN | Found in cottonwood-willow association located along the Rio Grande; does not tolerate clayey or gravelly soils characteristic of the other *Geomys* species; common along irrigation ditches in the sandy river bottom area. | No impact | No cottonwood-willow communities are present in or adjacent to the project area. |
| Eastern Red Bat *Lasiurus borealis* | — | SGCN | Found in a variety of habitats in Texas. Usually associated with wooded areas. Found in towns especially during migration. | No impact | No wooded areas occur in or adjacent to the project area. |
| Hoary Bat *Lasiurus cinereus* | — | SGCN | Known from montane and riparian woodland in Trans-Pecos, forests and woods in east and central Texas. | No impact | No montane or riparian woodland occurs in or adjacent to the project area. |
| Kit Fox *Vulpes macrotis* | — | SGCN | Open desert grassland; avoids rugged, rocky terrain and wooded areas. | No impact | No open desert grassland occurs in the vicinity of the project area. |
| Long-legged Myotis Bat *Myotis volans* | — | SGCN | Found in Texas, Trans-Pecos region; high, open woods and mountainous terrain; nursery colonies (which may contain several hundred individuals) form in summer in buildings, crevices, and hollow trees; apparently do not use caves as day roosts but may use such sites at night. | No impact | No open woods or areas of mountainous terrain occur within or adjacent to the project area. |
| Long-tailed Weasel *Mustela frenata* | — | SGCN | Includes brushlands, fence rows, upland woods and bottomland hardwoods, forest edges and rocky desert scrub. Usually live close to water. | No impact | No brushlands or woodlands are located in or adjacent to the project area. |
| Mexican Free-tailed Bat *Tadarida brasiliensis* | — | SGCN | Roosts in buildings in east Texas. Largest maternity roosts are in limestone caves on the Edwards Plateau. Found in all habitats, forest to desert. | No impact | No caves or suitable buildings are located near the project area, and there are no known colonies near the project area. |
| Mexican Long-tongued Bat *Choeronycteris mexicana* | — | SGCN | Only Texas record is from riparian forest; in general--neotropical nectivorous species roosting in caves, mines, and large crevices found in deep canyons along the Rio Grande; also found in buildings and often associated with big-eared bats (*Plecotus* spp.); single TX record from Santa Ana NWR. | No impact | No riparian forest, caves, mines, or canyons are located within or adjacent to the project area. |
| Mountain Lion *Puma concolor* | — | SGCN | Rugged mountains and riparian zones. | No impact | The project area is located in a developed, urban area and does not contain rugged mountains or riparian zones. |
| Pecos River Muskrat *Ondatra zibethicus ripensis* | — | SGCN | Found in creeks, rivers, lakes, drainage ditches, and canals; prefer shallow, fresh water with clumps of marshy vegetation, such as cattails, bulrushes, and sedges; live in dome-shaped lodges constructed of vegetation. | No impact | There is a NDD record of the species from within 1.5 miles of the project area, but there is no aquatic habitat within or adjacent to the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Pronghorn *Antilocapra americana* | — | SGCN | Prefers hilly, plateau areas of open grassland, desert-grassland, desert-scrub, where it frequents south-facing slopes and other sheltered areas. | No impact | No grassland or undisturbed desert-scrub occurs in or adjacent to the project area. |
| Rock Mouse *Peromyscus nasutus* | — | SGCN | Rocky areas and talus slopes above 6000 feet. General vegetation associations include madrone, oak, maple, juniper, pinyon and ponderosa pine. | No impact | The project area is below 6,000 feet in elevation and does not contain any of the associated plant species. |
| Townsend's Big-Eared Bat *Corynorhinus townsendii* | — | SGCN | Coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas; strongly correlated with caves and cave-like roosting habitat, including abandoned mines; population centers occur in areas dominated by exposed, cavity or caverniculous forming rock and/or historic mining districts; may also use buildings, bridges, rock crevices and hollow trees. | No impact | No caves, mines, suitable buildings or bridges, rock crevices, or hollow trees occur within or adjacent to the project area |
| Western Hog-nosed Skunk *Conepatus leuconotus* | — | SGCN | Habitats include woodlands, grasslands, deserts, to 7200 feet, most common in rugged, rocky canyon country; little is known about the habitat of the ssp. *telmalestes*. | No impact | No woodlands, grasslands, or deserts occur in or adjacent to the project area. |
| Western Small-footed Bat *Myotis ciliolabrum* | — | SGCN | Found in mountainous regions of the Trans-Pecos, usually in wooded areas; also found in grassland and desert scrub habitats; roosts beneath slabs of rock, behind loose tree bark, and in buildings. | No impact | No wooded areas, grassland, desert scrub, or suitable roosting sites are located in or adjacent to the project area. |
| Western Spotted Skunk *Spilogale gracilis* | — | SGCN | Semi-arid brushlands, brushy canyons, rocky outcrops (rimrock) on hillsides and walls of canyons. When inactive or bearing young, occupies den in rocks, burrow, hollow log, brush pile, or under building. | No impact | There is a NDD record of the species from within 1.5 miles of the project area, but there are no brushlands, brushy canyons, or rocky outcrops within or adjacent to the project area. |
| Western Yellow Bat *Lasiurus xanthinus* | — | SGCN | Forages over water both perennial and intermittent sources, found at low elevations (< 6,000 feet), roosts in vegetation (yucca, hackberry, sycamore, cypress, and especially palm); also hibernates in palm; locally common in residential areas landscaped with palms in Tuscon and Phoenix, Arizona; young born in June; insectivore. | No impact | No wooded areas or suitable roosting sites are located in or adjacent to the project area. |
| **MOLLUSKS** | | | | | |
| Franklin Mountain Talus Snail *Sonorella metcalfi* | — | SGCN | Terrestrial; found in bare rock, talus, scree; inhabits igneous talus most commonly of rhyolitic origin. | No impact | No natural and suitable rock features are present within or adjacent to the project area. |
| Franklin Mountain Wood Snail *Ashmunella pasonis* | — | SGCN | Terrestrial; found in bare rock, talus, scree, talus slopes (usually of limestone), but also of rhyolite, sandstone, and siltstone, in arid mountain ranges. | No impact | No natural and suitable rock features are present within or adjacent to the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| **REPTILES** | | | | | |
| Big Bend Slider *Trachemys gaigeae* | — | SGCN | Almost exclusively aquatic, sliders (*Trachemys spp.*) prefer quiet bodies of fresh water with muddy bottoms and abundant aquatic vegetation, which is their main food source. | No impact | Suitable relatively permanent waters needed to support this species do not occur within the project area. |
| Chihuahuan Desert Lyre Snake *Trimorphodon vilkinsonii* | — | T | Mostly crevice-dwelling in predominantly limestone-surfaced desert northwest of the Rio Grande from Big Bend to the Franklin Mountains, especially in areas with jumbled boulders and rock faults/fissures. | No impact | No natural and suitable rock features are present within or adjacent to the project area. |
| Gray-Checkered Whiptail *Aspidoscelis dixoni* | — | SGCN | Rocky plains, dry washes, canyon bottoms, and desert scrub (ocotillo, creosote bush, Opuntia); generally on rocky soils of desert shrublands and degraded grasslands on alluvial benches, canyon bottoms, and lower southwestern mountain slopes. Endemic; known only from lower benches of the Chinati Mountains in southwestern Presidio County, Texas. | No impact | The project area is not located in the Chinati Mountains, and it does not contain rocky plains, dry washes, canyon bottoms, or desert scrub. |
| Massasauga *Sistrurus tergeminus* | — | SGCN | Quite common in gently rolling prairie occasionally broken by creek valley or rocky hillside. | No impact | No prairie, creek valleys, or rocky hillsides occur in or adjacent to the project area. |
| Mexican Blackhead Snake *Tantilla atriceps* | — | SGCN | Southern Texas and northeastern Mexico; shrubland savanna; nocturnal; lays clutch of probably 1-3 eggs | No impact | No undisturbed shrubland savanna occurs in or adjacent to the project area. |
| Mountain Short-horned Lizard *Phrynosoma hernandesi* | — | T | Found in open, shrubby, or openly wooded areas with sparse vegetation at ground level; soil may vary from rocky to sandy; burrows into soil or occupies rodent burrows when inactive. Species is found at high elevations and is known only from locations in the Davis, Guadalupe, and Hueco Mountains. | No impact | The project area is not located at high elevations or within the Davis, Guadalupe, or Hueco Mountains. |
| Texas Horned Lizard *Phrynosoma cornutum* | — | T | Found in open, arid and semi-arid regions with sparse vegetation, scattered brush or scrubby trees; sandy to rocky soils; burrows into soil, enters rodent burrows, or hides under rocks when inactive. | No impact | No open areas with sparse vegetation occur in or adjacent to the project area. |
| Western Box Turtle *Terrapene ornata* | — | SGCN | Ornate or western box turtles inhabit prairie grassland, pasture, fields, sandhills, and open woodland. They are essentially terrestrial but sometimes enter slow, shallow streams and creek pools. Very partial to sandy soil. | No impact | No prairie grassland, pasture, fields, sandhills, or open woodlands occur in or adjacent to the project area. |
| Western Hognose Snake *Heterodon nasicus* | — | SGCN | Habitat consists of areas with sandy or gravelly soils, including prairies, sandhills, wide valleys, river floodplains, bajadas, semi-agricultural areas (but not intensively cultivated land), and margins of irrigation ditches; also thornscrub woodlands and chaparral thickets. Seems to prefer sandy and loamy soils, not necessarily flat. | No impact | No sandy or gravelly soils, prairies, valleys, floodplains, bajadas, irrigation ditches, or other suitable habitat occurs in or adjacent to the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Western Rattlesnake *Crotalus viridis* | — | SGCN | Grassland, both desert and prairie; shrub desert rocky hillsides; edges of arid and semi-arid river breaks. | No impact | No grassland or shrub desert rocky hillsides occur in or adjacent to the project area. |
| **PLANTS** | | | | | |
| Alamo Beardtongue *Penstemon alamosensis* | — | SGCN | Rocky soils derived from limestone (in Texas), usually in sheltered sites, often on north facing slopes and in mesic canyon bottoms, occasionally in rock crevices or among unbrowsed shrubs; flowering late April-June. | No impact | No rocky limestone soils or canyons occur in the project area. |
| Bigelow's Desert Grass *Blepharidachne bigelovii* | — | SGCN | Restricted to xeric limestone or various gypsum-influenced habitats. | No impact | No xeric limestone or gypsum-influenced habitats are located in the proposed project area. |
| Comal Snakewood *Colubrina stricta* | — | SGCN | In El Paso, found in a patch of thorny shrubs in colluvial deposits and sandy soils at the base of an igneous rock outcrop. In Mexico, found in shrublands on calcareous, gravelly, clay soils with woody associates. | No impact | No shrublands occur in the project area. |
| Dense Cory Cactus *Escobaria dasyacantha var. dasyacantha* | — | SGCN | Lechuguilla-sotol or creosote bush shrublands, grasslands, and oak-juniper woodlands on gravelly, rocky, and/or loamy soils over igneous or limestone substrates at moderate elevations 750-1800 m (2450-5900 ft) in the Chihuahuan Desert; flowering March-May (-July), fruiting (May-) June-August. | No impact | No creosote bush shrublands, grasslands, or woodlands occur in the project area. |
| Desert Night-blooming Cereus *Peniocereus greggii* var. *greggii* | — | SGCN | Found in Chihuahuan Desert shrublands or shrub invaded grasslands in alluvial or gravelly soils at lower elevations, 1,200-1,500 meters (3,900-4,900 feet), on slopes, benches, arroyos, flats, and washes. | No impact | No thorny shrubs are present within the project area. |
| Fleshy Tidestromia *Tidestromia carnosa* | — | SGCN | Occurs in saline or gypseous soils in open situations. | No impact | No saline or gypseous soils occur in the project area. |
| Great Sage *Salvia summa* | — | SGCN | Occurs on limestone cliffs and slopes in the Guadalupe and Franklin Mountains. | No impact | No limestone cliffs, mountains, or slopes occur in the project area. |
| Hueco Rock-daisy *Perityle huecoensis* | — | SGCN | North-facing or otherwise mostly shaded limestone cliff faces within relatively mesic canyon system. | No impact | No limestone cliff faces or mesic canyon systems are present in the project area. |
| Lyreleaf Twistflower *Streptanthus carinatus ssp. carinatus* | — | SGCN | Occurs on igneous and limestone slopes and alluvial fans. | No impact | No igneous or limestone slopes or alluvial fans occur in the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Mt. Davis Brickellbush *Brickellia parvula* | — | SGCN | Occurs on rocky slopes and ridges in the mountains of the southwestern U.S. at elevations between 1,200 and 2,100 meters. | No impact | No rocky slopes or ridges are located in the project area. |
| Payson's Hiddenflower *Cryptantha paysonii* | — | SGCN | Occurs on rocky limestone slopes in mountains. | No impact | No mountains with rocky limestone slopes are present in the project area. |
| Pima Pineapple Cactus *Coryphantha scheeri var. robustispina* | E[1] | — | Found in alluvial valleys, mesas, and hillsides in desert, desert grassland, or southwestern oak woodlands at 700-1500 m. Soils range from shallow to deep, and silty to rocky, with a preference for silty to gravelly deep alluvial soils. It occurs most often on flat ridgetops or in areas with less than 10-15% slope. Topography is often complex within the range with large areas of unsuitable habitat (in rolling hilly habitats, it has been found only on flat hilltops and not slopes or drainages separating hilltops, nor is it found in riparian areas). | No effect | The USFWS indicates that this species is found historically in the Sonoran Desert in southern Arizona, which is outside of the project area. There are no alluvial valleys, mesas, hillsides, desert grasslands, or woodlands in the project area. |
| Plank's Catchfly *Silene plankii* | — | SGCN | Found in the Franklin Mountains of El Paso County, occurring in crevices on shaded igneous cliff faces above approximately 5000 feet. | No impact | The project area is not in the Franklin Mountains. |
| Resin-Leaf Brickellbush *Brickellia baccharidea* | — | SGCN | Mixed desert shrublands on bajada slopes and in arroyos on sandy or gravelly soils derived from limestone, but also known from igneous substrates; flowering September-April. | No impact | No desert shrublands occur in the project area. |
| Sand Prickly-pear *Opuntia arenaria* | — | SGCN | Found in deep, loose or semi-stabilized sands in sparsely vegetated dune or sand hill areas, or sandy floodplains in arroyos. | No impact | No sparsely vegetated dune, sand hill areas, or sandy floodplains are present in the project area. |
| Scheer's Cory Cactus *Coryphantha scheeri var. uncinata* | — | SGCN | Rocky hillsides. | No impact | No rocky hillsides are present in the project area. |
| Smooth Bur-Cucumber *Sicyos glaber* | — | SGCN | Mesic canyons in the Chisos and Guadalupe Mountains. | No impact | The project area does not contain canyons and is not located in the Chisos or Guadalupe mountains. |
| Sneed's Pincushion Cactus *Coryphantha sneedii* var. *sneedii* | E | E | Found on dry limestone outcrops on rock slopes in mountains of the Chihuahuan Desert. | No effect | No limestone outcrops, rock slopes, or mountains are present in the project area. |
| Stebbin's Desert Dandelion *Malacothrix stebbinsii* | — | SGCN | Found in gravelly soils beneath shrubs, along ditches, near streams, in sagebrush steppes and creosote bush scrublands; 300-1300 m. | No impact | No shrublands or gravelly soils occur in the project area. |

**Threatened and Endangered Species and Species of Greatest Conservation Need in El Paso County, Texas, and Potential Impacts**

| Species | Federal Status | State Status | Description of Suitable Habitat | Species Effect/Impact | Project Specific Information |
|---|---|---|---|---|---|
| Texas False Saltgrass *Allolepis texana* | — | SGCN | Found in sandy to silty soils of valley bottoms and river floodplains, not generally on alkaline or saline sites. | No impact | No valley bottoms or river floodplains are present in the project area. |
| Vasey's Bitterweed *Hymenoxys vaseyi* | — | SGCN | Occurs on xeric limestone cliffs and slopes at mid- to high elevations in desert shrublands. | No impact | No cliffs, slopes, or desert shrublands occur in the project area. |
| Waterfall's Milkvetch *Astragalus waterfallii* | — | SGCN | Occurs on rocky limestone slopes. | No impact | No rocky limestone slopes are present in the project area. |
| Wheeler's Spurge *Chamaesyce geyeri* var. *wheeleriana* | — | SGCN | Found in sparingly vegetated, loose eolian quartz sand on reddish sand dunes or coppice mounds. | No impact | No sand dunes or coppice mounds are present in the project area. |
| Wright's Fishhook Cactus *Mammillaria wrightii var. wrightii* | — | SGCN | Grows among grasses on low hills, mostly in grassland or along the edges of woodlands, known from the Franklin Mountains. | No impact | No grasslands or woodlands are present in the project area, and the project is not located in the Franklin Mountains. |

E – Endangered; T – Threatened; C – Candidate; "–" – No designation occurring within identified county; SGCN – Species of Greatest Conservation Need: rare, but with no regulatory listing status.

[1] The USFWS does not list these species for El Paso County; however, these species are listed on the TPWD's county list.

Sources: USFWS IPaC Official Species List for El Paso County, Texas (generated August 21, 2019); and TPWD, Rare, Threatened, and Endangered Species of Texas by County, El Paso County (July 17, 2019 version, retrieved August 21, 2019), field visit (August 2019), Natureserve Explorer (available at: http://explorer.natureserve.org/).

# CBD Phase IV
## EMST

| OBJECTID | FID_District_24 | Veg_ID | Common | EcoClass_ID | EcoSystem | MOU_Habitat | Phase | Acres | NS_Number | TPWD_Ecosys | EcoRegion | EcoRegion_Code | FID_ElPaso_24 | Feature_Type | Shape_Length | Shape_Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1897180 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.652470944 | TPW101.003 | Urban | Chihuahuan Deserts | | 342090 | VEGETATION | 2741.15149 | 2640.45623 |
| 2 | 1897181 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 1.609290904 | TPW101.003 | Urban | Chihuahuan Deserts | | 342091 | VEGETATION | 3365.176941 | 6512.569232 |
| 3 | 1897182 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.152271851 | TPW101.003 | Urban | Chihuahuan Deserts | | 342092 | VEGETATION | 325.7904833 | 616.222319 |
| 4 | 1897183 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.044128322 | TPW101.003 | Urban | Chihuahuan Deserts | | 342093 | VEGETATION | 640.0282586 | 178.5809835 |
| 6 | 1930346 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.002254614 | TPW101.003 | Urban | Chihuahuan Deserts | | 375256 | VEGETATION | 37.66940395 | 9.124098862 |
| 7 | 1930384 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.086907158 | TPW101.003 | Urban | Chihuahuan Deserts | | 375294 | VEGETATION | 279.3808144 | 351.7007885 |
| 8 | 1930384 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.050796251 | TPW101.003 | Urban | Chihuahuan Deserts | | 375294 | MEDIAN | 104.7451311 | 205.5651339 |
| 9 | 1897180 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 4.101609901 | TPW101.003 | Urban | Chihuahuan Deserts | | 342090 | ROADWAY | 2550.584689 | 16598.62637 |
| 10 | 1897181 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 1.77857547 | TPW101.003 | Urban | Chihuahuan Deserts | | 342091 | ROADWAY | 1981.502701 | 7197.639562 |
| 11 | 1897182 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.140128604 | TPW101.003 | Urban | Chihuahuan Deserts | | 342092 | ROADWAY | 169.663841 | 567.0803401 |
| 12 | 1897183 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 1.283182187 | TPW101.003 | Urban | Chihuahuan Deserts | | 342093 | ROADWAY | 853.3212981 | 5192.854076 |
| 14 | 1930346 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.123940295 | TPW101.003 | Urban | Chihuahuan Deserts | | 375256 | ROADWAY | 102.6157433 | 501.568579 |
| 15 | 1930384 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.547070089 | TPW101.003 | Urban | Chihuahuan Deserts | | 375294 | ROADWAY | 688.7114761 | 2213.914104 |
| 16 | 1897180 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 1.752428027 | TPW101.003 | Urban | Chihuahuan Deserts | | 342090 | ROW | 4903.284754 | 7091.824616 |
| 17 | 1897181 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 1.35372522 | TPW101.003 | Urban | Chihuahuan Deserts | | 342091 | ROW | 3639.751364 | 5478.331603 |
| 18 | 1897182 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.116753942 | TPW101.003 | Urban | Chihuahuan Deserts | | 342092 | ROW | 322.2233677 | 472.4864413 |
| 19 | 1897183 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.492608994 | TPW101.003 | Urban | Chihuahuan Deserts | | 342093 | ROW | 1502.643574 | 1993.517872 |
| 21 | 1930346 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.031713032 | TPW101.003 | Urban | Chihuahuan Deserts | | 375256 | ROW | 114.9987018 | 128.3380874 |
| 22 | 1930384 | 9411 | Urban Low Intensity | R042XY267TX | Loamy Bottomland (Desert Shrub) | Urban | 5-West | 0.119721275 | TPW101.003 | Urban | Chihuahuan Deserts | | 375294 | ROW | 487.7789872 | 484.4948122 |

## Field-verified Vegetation MOU Summary Table

**Potential Impacts* to Field-verified MOU Vegetation within the Project Area**

| EMST Vegetation Type | Ecological System Type | TxDOT/TPWD MOU Vegetation Type | MOU Thresholds (acres) | Potential Impacts (acres) |
|---|---|---|---|---|
| Urban Low Intensity | Urban | Urban | NA | 14.86 |
| | | | **Total Potential Impacts to Urban MOU Vegetation** | **14.86** |

*Based on ROW to ROW impacts

## Project Area Photographs

**Photo 1**. Urban Low Intensity MOU type within the project area along South Campbell Street, facing north.

**Photo 2**. Urban Low Intensity MOU type within the project area at the intersection of South Kansas Street and East Father Rahm Avenue, facing north.

## Project Area Photographs

**Photo 3**. Urban Low Intensity MOU type within the project area along South Oregon Street, facing south.

**Photo 4**. Urban Low Intensity MOU type within the project area along East Father Rahm Avenue, facing east.

# Element Occurrence Record

**Scientific Name:** Agave lechuguilla-dasylirion leiophyllum series **Occurrence #:** 4 **Eo Id:** 764

**Common Name:** Lechuguilla-sotol Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

LIMESTONE/SANDSTONE SLOPES, NORTHWEST END OF McKELLIGAN CANYON, SOUTH OF SOUTH FRANKLIN MOUNTAIN, EAST SIDE OF FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 14

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Agave lechuguilla-dasylirion leiophyllum series **Occurrence #:** 5 **Eo Id:** 6196

**Common Name:** Lechuguilla-sotol Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

LIMESTONE SLOPES, MOSTLY SOUTH-FACING, MOSTLY ON NORTH SIDE OF VINTON CANYON, WEST SIDE OF FRANKLIN MOUNTAINS, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 3

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Agave lechuguilla-dasylirion leiophyllum series **Occurrence #:** 6 **Eo Id:** 2585

**Common Name:** Lechuguilla-sotol Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

LOWER LIMESTONE SLOPES, SOUTH SIDE OF HITT CANYON AREA, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-22 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1990-05-22

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 17

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Agave lechuguilla-dasylirion leiophyllum series **Occurrence #:** 10 **Eo Id:** 3422

**Common Name:** Lechuguilla-sotol Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

ROUNDED LIMESTONE HILLS, WEST SIDE OF OLD TOM MAYS PARK, NOW IN FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-24 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1990-05-24

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 9

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Allolepis texana
**Occurrence #:** 3
**Eo Id:** 784
**Common Name:** Texas false saltgrass
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G2
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

Along the Rio Grande about 4 miles above El Paso.

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 1948-05-31
**Eo Type:**
**Eo Rank:** H
**Eo Rank Date:** 2006-12-07
**Observed Area:**

## Comments:

**General Description:** IN ALKALINE SOIL

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** "COMMON"

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WARNOCK, B.H. (7804). 1948. SPECIMEN # ? LL, TEX.

## Specimen:

UNIVERSITY OF TEXAS AT AUSTIN HERBARIUM. 1948. B.H. WARNOCK #7804, SPECIMEN # ? TEX-LL. 31 MAY 1948.

WARNOCK, B.H. (7804). 1948. SPECIMEN # ? LL, TEX. (S48WARTXTXUS)

# Element Occurrence Record

**Scientific Name:** Athene cunicularia hypugaea **Occurrence #:** 5 **Eo Id:** 3678

**Common Name:** western burrowing owl **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4T4 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

JUST EAST OF LEE TREVINO DRIVE AND SOUTH OF THE JUAN DE HERRERA LATERAL BRANCH IN EL PASO; CA. 1.1 AIR MILES WEST OF I-10

## Survey Information:

**First Observation:** 2001-02-05 **Survey Date:** **Last Observation:** 2001-02-05

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** OPEN AREA WITH A COUPLE OF PILES OF MISCELLANEOUS LANDSCAPING DEBRIS, OWL WAS USING AUGER HOLE THAT WAS MADE TO TAKE A CORE SAMPLE PRIOR TO CONSTRUCTION OF A CELL TOWER

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** ONE OWL OBSERVED

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

KUTZ, JULIE. 2001. DATA FOR SIGHTING OF BURROWING OWL IN EL PASO SENT TO DORINDA SCOTT. FEBRUARY 19, 2001.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Athene cunicularia hypugaea **Occurrence #:** 6 **Eo Id:** 4775

**Common Name:** western burrowing owl **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4T4 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

CA. 1.8 AIR MILES SOUTH OF YSLETA; CA. 1.4 AIR MILES NORTHWEST OF SOCORRO; BETWEEN FRANKLIN DRAIN AND SOUTH SIDE FEEDER LATERAL

## Survey Information:

**First Observation:** 2001-06-11 **Survey Date:** **Last Observation:** 2001-06-11

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** DISTURBED LAND AT EDGE OF INDUSTRIAL COMPLEX AND DRAINAGE CHANNEL

**Comments:** OBSERVER: STEPHANIE DRISCOLL OF URS CORPORATION, PICTURE WAS INCLUDED WITH ENVIRONMENTAL REVIEW

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 4-5 INDIVIDUALS - POSSIBLY FAMILY GROUP WITH AT LEAST THREE FLEDGLINGS

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

CHARPENTIER, JEAN PAUL. 2001. FAX WITH INFORMATION FOR A WESTERN BURROWING OWL RECORD IN EL PASO, TEXAS. AUGUST 14, 2001.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Bouteloua curtipendula-bouteloua eriopoda series
**Occurrence #:** 3
**Eo Id:** 4116
**Common Name:** Sideoats Grama-black Grama Series
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G4
**State Rank:** S3
**Federal Status:**

## Location Information:

**Directions**

EAST SIDE OF FRANKLIN MOUNTAINS STATE PARK, 3 MILES DUE NORTHWEST OF EL PASO

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:**
**Eo Type:**
**Eo Rank:** B
**Eo Rank Date:**
**Observed Area:** 4,500.00

## Comments:

**General Description:** SUCCULENT DESERT (LECHUGUILLA, SOTOL, YUCCA) SPECIES INTERMIXED WITH GRAMA GRASSLAND; GOOD QUALITY

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

RISKIND, DAVID, PH.D. TEXAS PARKS AND WILDLIFE DEPARTMENT 4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744 PH-512/479-4897 (WORK)

## Specimen:

# Element Occurrence Record

**Scientific Name:** Bouteloua curtipendula-bouteloua eriopoda series
**Occurrence #:** 17
**Eo Id:** 3645
**Common Name:** Sideoats Grama-black Grama Series
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G4
**State Rank:** S3
**Federal Status:**

## Location Information:

**Directions**

IGNEOUS AND CALCAREOUS SEDIMENTARY LOWER SLOPES, BOTH SIDES OF UPPER FUSSELMAN CANYON, SOUTH OF LOOP 375, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:**
**Survey Date:** 1989-10-31
**Last Observation:** 1989-11-01
**Eo Type:**
**Eo Rank:** B
**Eo Rank Date:** 1989-10-31
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 12

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Bouteloua curtipendula-bouteloua eriopoda series
**Occurrence #:** 18
**Eo Id:** 5131
**Common Name:** Sideoats Grama-black Grama Series
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G4
**State Rank:** S3
**Federal Status:**

## Location Information:

**Directions**

GRAVELLY TO ROCKY IGNEOUS SLOPES, SOUTH SIDE OF MOUTH OF WEST COTTONWOOD SPRINGS CANYON IN TOM MAYS PARK AREA, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:**
**Survey Date:** 1989-11-01
**Last Observation:** 1989
**Eo Type:**
**Eo Rank:** AB
**Eo Rank Date:** 1989-11-01
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 5

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea **Occurrence #:** 1 **Eo Id:** 7203

**Common Name:** resin-leaf brickellbush **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

UPPER END OF MCKELLIGON CANYON, FRANKLIN MOUNTAINS; CA 1500 FEET NORTHWEST OF CIRCLE AT NORTHWEST END OF ROAD IN CANYON

## Survey Information:

**First Observation:** 1931-10-28 **Survey Date:** **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** DRY LIMESTONE OUTCROPS AND TALUS; ALSO IN WASHES (PER WEEDIN 915)

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER AND FRUIT; 15 OCTOBER 1977 CONSIDERED COMMON BY WEEDIN, AND 2 NOVEMBER 1989 CONSIDERED FREQUENT BY CARR

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WEEDIN, J. F. (915). 1977. SPECIMEN # NONE TX.

## Specimen:

Southern Methodist University Herbarium. 1931. E. Whitehouse #10185, Specimen # none SMU. 28 October 1931.

Sul Ross State University Herbarium. 1977. J.F. Weedin #915, Specimen # none SR. 15 October 1977.

UNIVERSITY OF TEXAS AT AUSTIN, LUNDELL HERBARIUM. 1977. J.F. WEEDIN #915. SPECIMEN # NONE TEX-LL. 15 OCTOBER 1977.

UNIVERSITY OF TEXAS AT AUSTIN, LUNDELL HERBARIUM. 1989. W.R. CARR #10273 AND P. MCNEAL, SPECIMEN # NONE TEX-LL. 2 NOVEMBER 1989.

WEEDIN, J. F. (915). 1977. SPECIMEN # NONE TX. (S77WEETXTXUS)

[S31WHISMTXUS]

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 2
**Eo Id:** 1018
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

FRANKLIN MOUNTAINS, 1.1 MILE WEST OF THE JUNCTION OF GATEWAY SOUTH AND TRANS-MOUNTAIN ROAD, AND 1.2 MILE WEST OF THE JUNCTION OF WAR AND TRANS-MOUNTAIN ROAD

## Survey Information:

**First Observation:** 1977-11-20
**Survey Date:**
**Last Observation:** 1978-11-12
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:** SOUTH EXPOSURE AMONG RHYOLITE BOULDERS AND GRANITE ROCKS

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER AND FRUIT

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. (3810). 1978. SPECIMEN # NONE SR.

## Specimen:

Sul Ross State University Herbarium. 1977. R.D. Worthington (s.n.), Specimen # none SR. 20 November 1977.

Sul Ross State University Herbarium. 1978. R.D. Worthington #3731, 3732, Specimen # none SR. 14 October 1978.

Sul Ross State University Herbarium. 1978. R.D. Worthington #3810, Specimen # none SR. 12 November 1978.

WORTHINGTON, R. D. (3810). 1978. SPECIMEN # NONE SR. (S78WORSRTXUS)

[S77WORSRTXUS]

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea **Occurrence #:** 3 **Eo Id:** 7183

**Common Name:** resin-leaf brickellbush **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

WEST SIDE OF FRANKLIN MOUNTAINS NEAR CORONADO GOLF COURSE

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 198-

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 4
**Eo Id:** 5835
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

WEST SIDE OF FRANKLIN MOUNTAINS NEAR CORONADO GOLF COURSE

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 198-
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 5
**Eo Id:** 2177
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

WEST SIDE OF FRANKLIN MOUNTAINS NEAR CRAZYCAT MOUNTAIN

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 198?
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 6
**Eo Id:** 4404
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

WEST SIDE OF FRANKLIN MOUNTAINS NEAR FLAG HILL

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 198?
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 7
**Eo Id:** 1474
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

EAST SIDE OF FRANKLIN MOUNTAINS NEAR RANGER PEAK

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 198?
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia baccharidea
**Occurrence #:** 8
**Eo Id:** 8140
**Common Name:** resin-leaf brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

EAST SIDE OF FRANKLIN MOUNTAINS NEAR MOUNTAIN DRIVE

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 198?
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:** VISIT UTEP AND GET LABEL INFORMATION; LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 198?. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIMENS OF SPECIAL PLANTS IN UTEP HERBARIUM.

WORTHINGTON, R.D. 198-. PERSONAL COMMUNICATION TO JACKIE POOLE RE: SPECIAL PLANT SPECIMENS IN UTEP HERBARIUM.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Brickellia parvula **Occurrence #:** 1 **Eo Id:** 10425

**Common Name:** Mt. Davis brickellbush **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

On mountains above McKelligon Canyon, Franklin Mountains.

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 1952-10-16

**Eo Type:** **Eo Rank:** U **Eo Rank Date:** 2006-12-12

**Observed Area:**

## Comments:

**General Description:** Rock ledges.

**Comments:** Complete specimen citation: On mountains above McKelligon Canyon, Franklin Mts., rock ledges, 16 Oct. 1952, D.S. Correll 15082 (TEX-LL). NOTE: On 10 Aug. 2000, SRSC had tons of specimens from the Franklin Mountains of El Paso County, but time did not allow transcription.

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Correll, D.S. (15082). 1952. Specimen No. none. TEX-LL.

## Specimen:

Correll, D.S. (15082). 1952. Specimen No. none. TEX-LL. (S52CORTXTXUS)

# Element Occurrence Record

**Scientific Name:** Brickellia parvula
**Occurrence #:** 3
**Eo Id:** 10160
**Common Name:** Mt. Davis brickellbush
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3
**State Rank:** S1
**Federal Status:**

## Location Information:

**Directions**

Franklin Mountains, 0.3 airmiles NW of top of South Franklin Mountain.

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:** 1983-10-16
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:** Rocky canyon.

**Comments:** complete specimen citation: Franklin Mountains, 0.3 airmiles NW of top of South Franklin Mountain, ca. 6000 ft. elev., rocky canyon, 16 Oct. 1983, R.D. worthington 11565 (BRIT/SMU).

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Worthington, R.D. (11565). 1983. Specimen No. none. BRIT/SMU.

## Specimen:

Worthington, R.D. (11565). 1983. Specimen No. none. BRIT/SMU. (S83WORSMTXUS)

# Element Occurrence Record

**Scientific Name:** Conepatus leuconotus **Occurrence #:** 81 **Eo Id:** 14338

**Common Name:** western hog-nosed skunk **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

The specimen label states that it was located on Transmountain Road, 0.9 miles west of the number 9 mile marker. There is no number 9 TxDOT reference marker on Transmountain Road, therefore, the number 9 mile marker on Texas State Highway 10, closest to the west end of the Transmountain Road was used.

## Survey Information:

**First Observation:** no date **Survey Date:** no date **Last Observation:** no date

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** no date

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** No date: Skeleton of one male preserved specimen.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Ferguson, Adam. 2014. Texas Skunk Record Database regarding five specices of skunk in Texas.

## Specimen:

University of Texas at El Paso Biodiversity Collections, El Paso, TX; unknown (#unknown), Catalog #8318, no date, UTEP.

# Element Occurrence Record

**Scientific Name:** Cryptantha paysonii **Occurrence #:** 1 **Eo Id:** 7155

**Common Name:** Payson's hiddenflower **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

FRANKLIN MOUNTAINS, 4900 FEET

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 198?-03-22

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:** LOCATION FROM DOT MAP SUPPLIED BY WORTHINGTON

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER MARCH 22

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. (2372). 198?. SPECIMEN #2372, UNIVERSITY OF TEXAS AT EL PASO.

## Specimen:

University of Texas at El Paso Herbarium. 198?. R.D. Worthington #2372, Specimen # 3204 UTEP. 22 March 198?.

WORTHINGTON, R.D. (2372). 198?. SPECIMEN #2372, UNIVERSITY OF TEXAS AT EL PASO. (S8?WOREPTXUS)

# Element Occurrence Record

**Scientific Name:** Escobaria dasyacantha var. dasyacantha **Occurrence #:** 7 **Eo Id:** 4556

**Common Name:** dense cory cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3T3 **State Rank:** S3 **Federal Status:**

## Location Information:

**Directions**

FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 1921-05-28

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 2006-12-07

**Observed Area:**

## Comments:

**General Description:**

**Comments:** J.N. ROSE AND W.R. FITCH #17856; MRS. S.L. PATTISON S.N., 28 MAY 1921; CHARLES WRIGHT S.N. (SEVERAL COLLECTIONS)

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Benson, Lyman. 1969. Flora of Texas: Cactaceae. Volume 2, Part II, pp. 221-317, plates 1-14. C. L. Lundell and collaborators, editors. Texas Research Foundation, Renner, TX. 97 pp.

BENSON, L. 1969. CACTACEAE. IN LUNDELL, C. L. ET. AL. FLORA OF TEXAS, VOL. II. TEXAS RESEARCH FOUNDATION, RENNER.

**Specimen:**

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 1 **Eo Id:** 7001

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

O'HARA CANYON, FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1921 **Survey Date:** **Last Observation:** 1977

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

HEIL, K. D. 1984. USF& WS RECOVERY PLAN FOR CORYPHANTHA SNEEDII.

## Specimen:

Sul Ross State University Herbarium, Alpine. 1977. C. Champie (s.n.), Specimen # none SRSC.

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 2 **Eo Id:** 1775

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

ANTHONY'S NOSE, FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1980-PRE **Survey Date:** **Last Observation:** 1980-PRE

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:** LE

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1980. REPORT ON A SURVEY FOR SNEED PINCUSHION CACTUS, CORYPHANTHA SNEEDII VAR SNEEDII ON THE DONA ANA RANGE, DONA ANA COUNTY, NEW MEXICO.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 3 **Eo Id:** 6550

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

NORTH SLOPE, HEAD OF HITT CANYON, FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1982-PRE **Survey Date:** **Last Observation:** 1982-PRE

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. LETTER TO DR. R. KOLOGISKI CONCERNING CORYPHANTHA SNEEDII VAR SNEEDII.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 4 **Eo Id:** 6171

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

CANUTILLO, FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1969-PRE **Survey Date:** **Last Observation:** 1969-PRE

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Benson, Lyman. 1969. Flora of Texas: Cactaceae. Volume 2, Part II, pp. 221-317, plates 1-14. C. L. Lundell and collaborators, editors. Texas Research Foundation, Renner, TX. 97 pp.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 5 **Eo Id:** 2875

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

FROM 1800 FEET WEST-NORTHWEST TO 2400 FEET SOUTHWEST OF CENTER OF TRAFFIC CIRCLE AT NORTHWEST END OF McKELLIGAN CANYON ROAD, PRESUMABLY WITHIN FRANKLIN MOUNTAINS STATE PARK

## Survey Information:

**First Observation:** ? **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:** STEEP NORTH-FACING PORTIONS OF LIMESTONE SLOPES, ON DRY ROCK OUTCROPS

**Comments:**

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:** 9 CLUMPS SEEN AT 5 DIFFERENT LOCATIONS, EACH CLUMP WITH 25-75 STEMS; THIS WAS NOT AN INTENSIVE SURVEY

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

WORTHINGTON, R. D. 1980. REPORT ON A SURVEY FOR SNEED PINCUSHION CACTUS, CORYPHANTHA SNEEDII VAR SNEEDII ON THE DONA ANA RANGE, DONA ANA COUNTY, NEW MEXICO.

**Specimen:**

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 6 **Eo Id:** 6736

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

LOW POINT OF THE CREST OF THE FRANKLIN MOUNTAINS JUST SOUTH OF SOUTH FRANKLIN MOUNTAIN

## Survey Information:

**First Observation:** 1981-PRE **Survey Date:** **Last Observation:** 1981-PRE

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1980. REPORT ON A SURVEY FOR SNEED PINCUSHION CACTUS, CORYPHANTHA SNEEDII VAR SNEEDII ON THE DONA ANA RANGE, DONA ANA COUNTY, NEW MEXICO.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 7 **Eo Id:** 302

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

FRANKLIN MOUNTAINS, 0.3 MAP MILE SOUTHEAST OF THE CITY [SMELTERTOWN] WATERTANK AT EAST END OF CORONADO COUNTRY CLUB GOLF COURSE; MESA TO SUNLAND PARK TO SHADOW MOUNTAIN TO THUNDERBIRD TO TANK

## Survey Information:

**First Observation:** 1978-05-22 **Survey Date:** 1986-06-14 **Last Observation:** 1986-06-14

**Eo Type:** **Eo Rank:** AB **Eo Rank Date:** 1986-06-14

**Observed Area:** 5.00

## Comments:

**General Description:** DRY, WEST-FACING, STEEP, ROCKY, LIMESTONE, DESERT SLOPE; NEAR POWERLINE; IN FULL SUN OR SHADE OF ROCKS; WITH AGAVE LECHEGUILLA, DASYLIRION LEIOPHYLLUM, PARTHENIUM INCANUM

**Comments:** RESEMBLES DIMINUTIVE C. STROBILIFORMIS

**Protection Comments:** LISTED ENDANGERED BY THE USF& WS

**Management Comments:**

## Data:

**EO Data:** DORMANT; 7 CLUMPS; OCCURS WITH C. STROBILIFORMIS, NO HYBRIDS OBSERVED, BUT RELATIONSHIP UNCLEAR

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

POOLE, J. M. 1986. FIELD SURVEY TO FRANKLIN MOUNTAINS OF JUNE 14, 1986.

## Specimen:

University of Texas Herbarium, El Paso. 1978. R.D. Worthington #2852, Specimen #3252 EP. 22 May 1978.

University of Texas Herbarium, El Paso. 1982. R.D. Worthington #8164, Specimen #18676 EP. 25 April 1982.

[S82WOREPTXUS]

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 8 **Eo Id:** 7646

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

EAST- TO NORTHEAST-FACING SLOPES CA. 1.2-1.3 AIR MILES NORTH-NORTHWEST OF 6927 FEET SUMMIT OF ANTHONY'S NOSE, SOUTH OF HITT CANYON, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-22 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** A **Eo Rank Date:** 1990-05-22

**Observed Area:**

## Comments:

**General Description:** ON EXPOSURES OF EL PASO LIMESTONE (AND BLISS SANDSTONE?) ON STEEP SLOPES IN LECHUGUILLA-SOTOL AND SCRUB OAK COMMUNITIES

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 105 PLANTS (CLUMPS) COUNTED IN CASUAL SURVEY

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii **Occurrence #:** 9 **Eo Id:** 8590

**Common Name:** Sneed's pincushion cactus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:** E

**Global Rank:** G2G3QT2Q **State Rank:** S2 **Federal Status:** LE

## Location Information:

**Directions**

FRANKLIN MOUNTAINS STATE PARK

## Survey Information:

**First Observation:** 199? **Survey Date:** **Last Observation:** 199?

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii
**Occurrence #:** 10
**Eo Id:** 8648
**Common Name:** Sneed's pincushion cactus
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:**
**TX Protection Status:** E
**Global Rank:** G2G3QT2Q
**State Rank:** S2
**Federal Status:** LE

## Location Information:

**Directions**

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:**
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

## Specimen:

# Element Occurrence Record

**Scientific Name:** Escobaria sneedii var. sneedii
**Occurrence #:** 11
**Eo Id:** 8649
**Common Name:** Sneed's pincushion cactus
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:**
**TX Protection Status:** E
**Global Rank:** G2G3QT2Q
**State Rank:** S2
**Federal Status:** LE

## Location Information:

**Directions**

## Survey Information:

**First Observation:**
**Survey Date:**
**Last Observation:**
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

## Specimen:

# Element Occurrence Record

**Scientific Name:** Euphorbia geyeri var. wheeleriana **Occurrence #:** 1 **Eo Id:** 7801

**Common Name:** Wheeler's spurge **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5T2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

69 MILES WEST OF JUNCTION OF HIGHWAY 180 AND 1437, ON 180

## Survey Information:

**First Observation:** 1972 **Survey Date:** **Last Observation:** 1972-08-14

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** RED SAND HILLS ALONG ROADSIDE

**Comments:** VERY NEAR EL PASO ON HIGHWAY 180; ORIGINAL SOURCE STATES THAT SPECIES WAS OBSERVED IN HUDSPETH COUNTY

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FRUIT

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

## Specimen:

University of Texas at Austin, Lundell Herbarium. 1972. J.D. Bacon #1408 and R.L. Hartman, Specimen # none TEX-LL. 14 August 1972.

# Element Occurrence Record

**Scientific Name:** Euphorbia geyeri var. wheeleriana **Occurrence #:** 3 **Eo Id:** 8587

**Common Name:** Wheeler's spurge **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5T2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

ALONG US ROUTE 62/180, 15-17 MILES EAST OF EL PASO NEAR FOOTHILLS OF HUECO MOUNTAINS

## Survey Information:

**First Observation:** 1942-08-16 **Survey Date:** **Last Observation:** 1952-07-28

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** AMONG SHIFTING SAND DUNES AND IN OTHER SANDY SITUATIONS OF WHAT WARNOCK AND JOHNSTON (1969) CALLED THE JORNADA DEL MUERTO

**Comments:** COMPLETE SPECIMEN CITATIONS: AMONG SHIFTING SAND DUNES NEAR FOOTHILLS OF HUECO MOUNTAINS, 17 MILES EAST OF EL PASO, 16 AUGUST 1942, U.T. WATERFALL 3900 (GH); AND, IN DEEP SAND ALONG CARLSBAD HIGHWAY CA. 15 MILES EAST OF EL PASO, ALTITUDE 4000 FEET, 28 JULY 1952, B.H. WARNOCK 10900 (SMU, SRSC, TEX); BOTH SPECIMENS CITED IN THE ARTICLE CONTAINING THE TYPE DESCRIPTION (SEE BEST SOURCE)

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WARNOCK, B.H. AND M.C. JOHNSTON. 1969. EUPHORBIA EXSTIPULATA VAR. LATA AND EUPHORBIA GEYERI VAR. WHEELERIANA WARNOCK & JOHNSTON, NEW TAXA FROM WESTERN TEXAS. SOUTHWESTERN NATURALIST 14(1): 127-128.

**Specimen:**

GRAY HERBARIUM. 1942. U.T. WATERFALL #3900, SPECIMEN # NONE GH.

SOUTHERN METHODIST UNIVERSITY HERBARIUM. 1952. B.H. WARNOCK #10900, SPECIMEN # NONE SMU.

SUL ROSS STATE UNIVERSITY HERBARIUM. 1952. B.H. WARNOCK #10900, SPECIMEN # NONE SRSC.

UNIVERSITY OF TEXAS HERBARIUM. 1952. B.H. WARNOCK #10900, SPECIMEN # NONE TEX.

# Element Occurrence Record

**Scientific Name:** Fallugia paradoxa series **Occurrence #:** 2 **Eo Id:** 1234

**Common Name:** Apache-plume Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

BOTTOM OF ARROYO, UPPER FUSSELMAN CANYON, SOUTH SIDE OF LOOP 375, 0.3 MILE EAST OF SMUGGLERS GAP, NORTH OF SOUTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-10-31 **Last Observation:** 1989-11-01

**Eo Type:** **Eo Rank:** BC **Eo Rank Date:** 1989-10-31

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 11

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Fallugia paradoxa series **Occurrence #:** 3 **Eo Id:** 7399

**Common Name:** Apache-plume Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

ARROYO BOTTOM, WEST OF MUNDYS GAP, WEST TO TOM MAYS PARK, WEST SLOPE OF FRANKLIN MOUNTAINS, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-01 **Last Observation:** 1989-11-01

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-01

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 6

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Fallugia paradoxa series **Occurrence #:** 4 **Eo Id:** 5203

**Common Name:** Apache-plume Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

ARROYO BOTTOM, MOUTH OF VINTON CANYON WEST TO PARK BOUNDARY, NORTH OF ROAD FROM WESTWAY, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 2

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Fallugia paradoxa series **Occurrence #:** 5 **Eo Id:** 953

**Common Name:** Apache-plume Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

ARROYOS ON SOUTH SIDE OF HITT CANYON, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-22 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** BC **Eo Rank Date:** 1990-05-22

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 16

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Ictalurus sp. 1 **Occurrence #:** 6 **Eo Id:** 13209

**Common Name:** Chihuahua catfish **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G1G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

Data aggregated from Fishes of Texas specimens. No directions added.

## Survey Information:

**First Observation:** 1954-06-12 **Survey Date:** 1954-06-12 **Last Observation:** 1954-06-12

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 1954-06-12

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 12 Jun 1954: 3 specimens collected.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

## Specimen:

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs, Victor G. Springer (#unknown), Catalog # 4240, 12 Jun 1954, TNHC.

# Element Occurrence Record

**Scientific Name:** Juniperus monosperma series
**Occurrence #:** 4
**Eo Id:** 6553
**Common Name:** Oneseed Juniper Series
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** GNR
**State Rank:** S4
**Federal Status:**

## Location Information:

**Directions**

UPPER SLOPES, EAST SIDE OF FRANKLIN MOUNTAINS, NEAR ANTHONY'S NOSE (LAT-LONG PROVIDED BY AUTHOR)

## Survey Information:

**First Observation:** 1973
**Survey Date:**
**Last Observation:** 1974
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:** RELICT GRASSLAND/EVERGREEN SHRUBLAND

**Comments:** SEE ALSO CRAWFORD (1974) AN ECOLOGICAL ANALYSIS OF AN OAK-JUNIPER COMMUNITY IN THE FRANKLIN MOUNTAINS, EL PASO COUNTY, TEXAS, MS THESIS, UTEP, 90 PP.

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** PROVIDED IN THESIS, WHICH SEE; RUMORED TO BE DOMINATED BY FESTUCA LIGULATA, BUT NO EO FOR THIS REPORT WILL BE GENERATED UNTIL SPECIMEN (IF ANY) IS SEEN

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Applehons, Dennis J. 1973. Grassland vegetation of a relict community in the Franklin Mountains, El Paso County, Texas. M.S. Thesis, University of Texas, El Paso. 59 pp.

CRAWFORD, R.C. 1974. AN ECOLOGICAL ANALYSIS OF AN OAK-JUNIPER COMMUNITY IN THE FRANKLIN MOUNTAINS, EL PASO COUNTY, TEXAS. M.S. THESIS, UT-EL PASO. 90 PP.

**Specimen:**

# Element Occurrence Record

**Scientific Name:** Larrea tridentata-parthenium incanum series **Occurrence #:** 10 **Eo Id:** 7582

**Common Name:** Creosote-mariola Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5 **State Rank:** S5 **Federal Status:**

## Location Information:

**Directions**

OUTWASH FAN, BOTH SIDES OF UNPAVED ROAD FROM WESTWAY EAST INTO VINTON CANYON, WEST SIDE FRANKLIN MOUNTAINS, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** BC **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 1

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Larrea tridentata-parthenium incanum series **Occurrence #:** 11 **Eo Id:** 425

**Common Name:** Creosote-mariola Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5 **State Rank:** S5 **Federal Status:**

## Location Information:

**Directions**

GENTLE BAJADA SLOPES, SOUTH SIDE OF HITT CANYON WEST OF WATER TANK, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-23 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** C **Eo Rank Date:** 1990-05-23

**Observed Area:**

## Comments:

**General Description:** DISTURBANCE TYPE REPLACING SIDEOATS GRAMA-BLACK GRAMA SERIES GRASSLAND IN GRAZED AREA

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 15

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Macrhybopsis aestivalis **Occurrence #:** 47 **Eo Id:** 13579

**Common Name:** speckled chub **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3G4 **State Rank:** S3S4 **Federal Status:**

## Location Information:

**Directions**

Data aggregated from Fishes of Texas specimens. No directions added.

## Survey Information:

**First Observation:** 1954-06-12 **Survey Date:** 1954-06-12 **Last Observation:** 1954-06-12

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 1954-06-12

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 12 Jun 1954: 5 specimens collected.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

## Specimen:

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs, Victor G. Springer (#unknown), Catalog # 4239, 12 Jun 1954, TNHC.

Texas Natural History Collections, University of Texas at Austin, Austin, TX; Clark Hubbs, Victor G. Springer (#unknown), Catalog # 4619, 12 Jun 1954, TNHC.

# Element Occurrence Record

**Scientific Name:** Ondatra zibethicus ripensis **Occurrence #:** 7 **Eo Id:** 1459

**Common Name:** Pecos River muskrat **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5T3T4 **State Rank:** S2S3 **Federal Status:**

## Location Information:

**Directions**

IN THE IRRIGATION DITCHES ALONG THE RIO GRANDE AROUND EL PASO AREA FROM ANTHONY (NORTH OF EL PASO) TO CLINT (SOUTH OF EL PASO)

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 1975-1976

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** IRRIGATION DITCHES

**Comments:** 185 SPECIMENS COLLECTED 26 DECEMBER 1975-10 JANUARY 1976

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 106 SPECIMENS WITH SEX NOT RECORDED, 46 FEMALE SPECIMENS, 33 MALE SPECIMENS

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

LUTZ, SCOTT. 1995. PERSONAL CORRESPONDENCE BY PHONE BETWEEN PEGGY HORNER AND SCOTT LUTZ (UNIVERSITY OF WISCONSIN-MADISON, PREVIOUSLY OF TEXAS TECH AND TEXAS A& M). CONVERSATION INCLUDED MORE INFORMATION CONCERNING THE PECOS RIVER MUSKRAT SPECIMENS COLLECTED AROUND EL PASO, TEXAS IN 1975-76. SPECIMENS HOUSED AT TEXAS A& M COOPERATIVE WILDLIFE COLLECTION.

## Specimen:

TEXAS A & M UNIVERSITY, TEXAS COOPERATIVE WILDLIFE COLLECTION. 1975-1976. R.S. LUTZ AND D. HEFT, CATALOG # ? TCWC. 26 DECEMBER 1975-10 JANUARY 1976.

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 1 **Eo Id:** 442

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

ALONG I-10, 2.7 ROAD MILES NORTH OF JUNCTION WITH N. MESA AND 50 YARDS EAST OF FEEDER ROAD

## Survey Information:

**First Observation:** 1978-10-28 **Survey Date:** **Last Observation:** 1982-03-28

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** LOW DUNES OVER GRAVEL BAJADA, SCATTERED CREOSOTE BUSH, YUCCA ELATA AND OTHER SHRUBS

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R.D. 1982. SPECIMEN # 18689 EP

## Specimen:

University of Texas at El Paso Herbarium. 1978. R.D. Worthington #3789, Specimen # 6071 UTEP. 28 October 1978.

University of Texas at El Paso Herbarium. 1979. R.D. Worthington #4470, Specimen # 9455 UTEP. 11 May 1979.

University of Texas at El Paso Herbarium. 1982. R.D. Worthington #8060, Specimen # 18689 UTEP. 28 March 1982.

WORTHINGTON, R. D. 1982. SPECIMEN # 18689 EP (S82WOREPTXUS)

[S78WOREPTXUS]

[S79WOREPTXUS]

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 4 **Eo Id:** 6698

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

ANTHONY

## Survey Information:

**First Observation:** 1982-PRE **Survey Date:** **Last Observation:** 1982-PRE

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Benson, L. 1982. The cacti of the United States and Canada. Stanford University Press, Stanford, CA. 1,044 pp.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 5 **Eo Id:** 6088

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

CANUTILLO

## Survey Information:

**First Observation:** 1930 **Survey Date:** **Last Observation:** 1930-08?

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 2006-12-07

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Benson, L. 1982. The cacti of the United States and Canada. Stanford University Press, Stanford, CA. 1,044 pp.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria
**Occurrence #:** 6
**Eo Id:** 1300
**Common Name:** sand prickly-pear
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G2
**State Rank:** S2
**Federal Status:**

## Location Information:

**Directions**

FRONTERA (IN 1852-ON THE RIO GRANDE IN NEW MEXICO, NOW- IN NORTHWEST EL PASO)

## Survey Information:

**First Observation:** 1852
**Survey Date:**
**Last Observation:** 1852-05-15
**Eo Type:**
**Eo Rank:** H
**Eo Rank Date:** 2006-12-07
**Observed Area:**

## Comments:

**General Description:** SANDY RIDGES

**Comments:** FRONTERA USED BY U.S. BOUNDARY COMMISSION AS AN ASTRONOMICAL OBSERVATORY FROM 1851-1853; DESTROYED IN 1854.

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**


Benson, L. 1982. The cacti of the United States and Canada. Stanford University Press, Stanford, CA. 1,044 pp.

Webb, Walter P. 1952. The handbook of Texas, volume 1. The Texas State Historical Association, Austin. 977 pp.


## Specimen:

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 9 **Eo Id:** 7542

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

ARTCRAFT ROAD (TEXAS 178) BETWEEN HIGHWAY 20 (DONIPHAN DRIVE) AND I-10, EL PASO

## Survey Information:

**First Observation:** 199? **Survey Date:** **Last Observation:** 1998-04-20

**Eo Type:** **Eo Rank:** X **Eo Rank Date:** 1998-04-20

**Observed Area:**

## Comments:

**General Description:**

**Comments:** 'LARGE QUANTITY' WAS TRANSPLANTED TO THE CHIHUAHUAN DESERT GARDEN AT THE CITY OF EL PASO'S WILDERNESS PARK MUSEUM; THE CACTI DID NOT SURVIVE AT THIS LOCATION; 'A FEW PLANTS' WERE TRANSPLANTED AT TXDOT DISTRICT HQ GROUNDS IN CENTRAL EL PASO; THIS OFFICE WAS RELOCATED IN DECEMBER 2000; IN APRIL 2001, THE CACTI WERE TRANSPLANTED TO THE NEW OFFICE LOCATION; THE PLANTS ARE GROWING (SEE EOR 010)

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 20 APRIL 1998, 'LARGE QUANTITY' OF THE CACTI TRANSPLANTED TO OTHER LOCATIONS; BELIEVED EXTIRPATED DUE TO HIGHWAY UPGRADE AND EXPANSION

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TELLES-GOINS, MARY. 2002. EL PASO DISTRICT STAFF MAKE ROOM FOR THORNY, BUT COLORFUL INDIVIDUALS. TXDOT NEWSLETTER. ENVISION, SUMMER/FALL 2002.

**Specimen:**

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 10 **Eo Id:** 7541

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

TXDOT EL PASO DISTRICT HQ, 13301 GATEWAY BLVD, EL PASO; GATEWAY BLVD PARALLELS I-10; SOUTHEAST OF YSLETA

## Survey Information:

**First Observation:** 2001-04 **Survey Date:** **Last Observation:** 2003-05-08

**Eo Type:** **Eo Rank:** **Eo Rank Date:** 2001-04-01

**Observed Area:**

## Comments:

**General Description:** TRANSPLANTED TO AREA BY OFFICE BUILDINGS RECEIVING DRIP IRRIGATION

**Comments:** THESE CACTI ORIGINALLY OCCURRED ON ARTCRAFT ROAD (TEXAS 178) (SEE EOR 009); MAJORITY OF PLANTS WERE TRANSPLANTED TO THE CHIHUAHUAN DESERT GARDEN AT THE CITY OF EL PASO'S WILDERNESS PARK MUSEUM, THESE PLANTS DID NOT SURVIVE; 'A FEW PLANTS' WERE ALSO TRANSPLANTED TO THE TXDOT EL PASO DISTRICT HQ AT 212 NORTH CLARK, EL PASO; AFTER OFFICES WERE RELOCATED, THE CACTI WERE TRANSPLANTED TO THE NEW LOCATION; PLANTS RECEIVE DRIP IRRIGATION

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** APRIL 2001, 'TWO LARGE PATCHES' TRANSPLANTED TO NEW TXDOT HQ LOCATION; 8 MAY 2003, CA. 20 PLANTS WHICH ARE GROWING, BLOOMING

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**


TELLES-GOINS, MARY. 2002. EL PASO DISTRICT STAFF MAKE ROOM FOR THORNY, BUT COLORFUL INDIVIDUALS. TXDOT NEWSLETTER. ENVISION, SUMMER/FALL 2002.

TELLES-GOINS, MARY. 2003. TELEPHONE CONVERSATION WITH SANDY BIRNBAUM DISCUSSING LOCATIONS AND SURVIVAL OF TRANSPLANTED OPUNTIA ARENARIA POPULATION IN EL PASO. 8 MAY 2003.

**Specimen:**

# Element Occurrence Record

**Scientific Name:** Opuntia arenaria **Occurrence #:** 11 **Eo Id:** 5201

**Common Name:** sand prickly-pear **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

ONE ROAD MILE SOUTH OF JUNCTION OF DONIPHAN (HIGHWAY 20) WITH TRANS MOUNTAIN ROAD (HIGHWAY 375) IN CANUTILLO AT EAST SIDE OF TEXAS HIGHWAY DEPARTMENT YARD

## Survey Information:

**First Observation:** 1991-05 **Survey Date:** **Last Observation:** 1991-05

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** STABLE DUNE AREA

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** SPECIMEN COLLECTED

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, RICHARD D. 2004. E-MAIL TO JACKIE POOLE WITH INFORMATION ABOUT OPUNTIA ARENARIA POPULATION LOCATIONS. 23 JANUARY 2004.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Peniocereus greggii var. greggii **Occurrence #:** 12 **Eo Id:** 6446

**Common Name:** desert night-blooming cereus **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3G4T2 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

DESERT SURROUNDING FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** **Survey Date:** **Last Observation:** 19??

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:** SEE ALSO CHAMPIE, C. 1973. STRANGERS IN THE FRANKLINS, P.40.

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** RARE; FLOWERS IN APRIL

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

CHAMPIE, C. 19??. CACTI AND SUCCULENTS OF EL PASO. ABBEY GARDEN PRESS, SANTA BARBARA, CA. 100 PP.

CHAMPIE, C. 1973. STRANGERS IN THE FRANKLINS.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Quercus pungens-cercocarpus montanus series **Occurrence #:** 1 **Eo Id:** 6879

**Common Name:** Scrub Oak-mountain Mahogany Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

NORTH- AND EAST-FACING IGNEOUS SLOPES, NEAR MUNDYS GAP, CA. 1 MILE NORTH OF NORTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-01 **Last Observation:** 1989-11-01

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-01

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 7

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Quercus pungens-cercocarpus montanus series **Occurrence #:** 2 **Eo Id:** 5966

**Common Name:** Scrub Oak-mountain Mahogany Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

NORTH-FACING LIMESTONE SLOPES, SOUTH SIDE OF VINTON CANYON, WEST SIDE OF FRANKLIN MOUNTAINS, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-02 **Last Observation:** 1989-11-02

**Eo Type:** **Eo Rank:** AB **Eo Rank Date:** 1989-11-02

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 4

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Quercus pungens-cercocarpus montanus series **Occurrence #:** 3 **Eo Id:** 2349

**Common Name:** Scrub Oak-mountain Mahogany Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

MOSTLY NORTH-FACING LIMESTONE SLOPES, NORTHWEST FLANK OF SOUTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-01 **Last Observation:** 1989-11-01

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-01

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 13

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Quercus pungens-cercocarpus montanus series **Occurrence #:** 4 **Eo Id:** 5213

**Common Name:** Scrub Oak-mountain Mahogany Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

EAST-FACING LIMESTONE SLOPES, ON/NEAR SUMMITS IMMEDIATELY NORTH OF MUNDYS GAP NORTH OF NORTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1989-11-01 **Last Observation:** 1989-11-01

**Eo Type:** **Eo Rank:** B **Eo Rank Date:** 1989-11-01

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 8

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Quercus pungens-cercocarpus montanus series **Occurrence #:** 5 **Eo Id:** 1629

**Common Name:** Scrub Oak-mountain Mahogany Series **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G4 **State Rank:** S4 **Federal Status:**

## Location Information:

**Directions**

STEEP UPPER LIMESTONE SLOPES, SOUTH SIDE OF HITT CANYON AREA, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** 1990-05-22 **Survey Date:** 1990-05-22 **Last Observation:** 1990-05-22

**Eo Type:** **Eo Rank:** AB **Eo Rank Date:** 1990-05-22

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 18

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Rhinichthys cataractae **Occurrence #:** 9 **Eo Id:** 14012

**Common Name:** longnose dace **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5 **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

Data aggregated from Fishes of Texas specimens. No directions added.

## Survey Information:

**First Observation:** 1988-02-24 **Survey Date:** 1988-02-24 **Last Observation:** 1988-02-24

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 1988-02-24

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 24 Feb 1988: 1 specimen was collected.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Rhinichthys cataractae
**Occurrence #:** 10
**Eo Id:** 14014
**Common Name:** longnose dace
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G5
**State Rank:** S2
**Federal Status:**

## Location Information:

**Directions**

Data aggregated from Fishes of Texas specimens. No directions added.

## Survey Information:

**First Observation:** 1954-06-12
**Survey Date:** 1954-06-12
**Last Observation:** 1954-06-12
**Eo Type:**
**Eo Rank:** H
**Eo Rank Date:** 1954-06-12
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 12 Jun 1954: 1 specimen was collected.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Fishes of Texas. 2015. Database download from the Fishes of Texas online database (http://www.fishesoftexas.org/home/) of SGCN species on 11 May 2015. University of Texas, Texas Natural History Collections, Excel spreadsheet.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Salvia summa
**Occurrence #:** 9
**Eo Id:** 2912
**Common Name:** great sage
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3?
**State Rank:** S2
**Federal Status:**

## Location Information:

**Directions**

SANDSTONE OR LIMESTONE OUTCROPS EXPOSED AT 6400 FEET, CA. 300-500 FEET EAST OF 6502 PEAK ON WEST FLANK OF SOUTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** 1981-05-30
**Survey Date:** 1989-10-31
**Last Observation:** 1989-10-31
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:** NORTH-FACING EXPOSURES AND ON VERY TOP OF RUBBLE SLOPE

**Comments:** EASY HIKE FROM TRANS-MOUNTAIN HIGHWAY (LOOP 375)

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 25 PLANTS SEEN IN CASUAL SURVEY; DIDN'T CHECK ADJACENT AREAS AT THIS ELEVATION

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

Southern Methodist University Herbarium. 1981. R.D. Worthington #7135, Specimen # none SMU. 30 May 1981.

University of Texas at Austin Herbarium. 1981. R.D. Worthington #7136, Specimen # none TEX. 30 May 1981.

University of Texas at Austin Herbarium. 1989. W.R. Carr #10210 and P. McNeal, Specimen # ? TEX. 31 October 1989.

[S81WORSMTXUS]

# Element Occurrence Record

**Scientific Name:** Salvia summa **Occurrence #:** 12 **Eo Id:** 6058

**Common Name:** great sage **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G3? **State Rank:** S2 **Federal Status:**

## Location Information:

**Directions**

AMONG BOULDERS IN ARROYO ON EAST-FACING LIMESTONE SLOPE, CA. 1.4 AIR MILES NORTH-NORTHWEST OF SUMMIT 6927 ON ANTHONY'S NOSE, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:** **Survey Date:** 1990-05-22 **Last Observation:** 1990

**Eo Type:** **Eo Rank:** C **Eo Rank Date:** 1990-05-22

**Observed Area:**

## Comments:

**General Description:** SHALLOW SOIL AND GRAVEL IN PARTIAL SHADE OR FULL SUN

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** NONE

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Salvia summa
**Occurrence #:** 13
**Eo Id:** 143
**Common Name:** great sage
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G3?
**State Rank:** S2
**Federal Status:**

## Location Information:

**Directions**

CA. 2000 FEET WEST OF NORTH END OF TRAFFIC CIRCLE AT NORTH END OF OLD TOM MAYS COUNTY PARK, WEST SIDE OF FRANKLIN MOUNTAINS, FRANKLIN MOUNTAINS SP

## Survey Information:

**First Observation:**
**Survey Date:** 1990-05-24
**Last Observation:** 1990
**Eo Type:**
**Eo Rank:** C
**Eo Rank Date:** 1990-05-24
**Observed Area:**

## Comments:

**General Description:** AMONG LIMESTONE BOULDERS IN BED OF ARROYO

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** NUMBER OF PLANTS UNCERTAIN; MOST ARE DRIED UP AND LEAFLESS DURING DRY SEASON

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. FRANKLIN MOUNTAINS STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 1 **Eo Id:** 827

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

0.6 AIR MILE NORTHEAST OF THE TOP OF NORTH FRANKLIN MOUNTAIN IN THE FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1971-08-21 **Survey Date:** **Last Observation:** 1978-10-07

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** NORTH FACING CLIFF, LANORIA FORMATION ROCKS

**Comments:** NEW MEXICO STATE UNIV. SPECIMEN (S71TODLC) NOT OBSERVED BY TXNHP

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. USF& WS STATUS REPORT ON SILENE PLANKII.

## Specimen:

NEW MEXICO STATE UNIVERSITY HERBARIUM, LAS CRUCES. 1971. DR. THOMAS K. TODSEN #?, SPECIMEN # ? NMC. 21 AUGUST 1971.

SUL ROSS STATE UNIVERSITY HERBARIUM, ALPINE. 1978. R.D. WORTHINGTON #3699, SPECIMEN # NONE SRSC. 7 OCTOBER 1978.

University of Texas at El Paso Herbarium. 1978. R.D. Worthington #3699, Specimen # 3652 UTEP. 7 October 1978.

[S71TODLCTXUS]

[S78WORSRTXUS]

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 2 **Eo Id:** 7378

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

0.3 AIR MILE WEST-NORTHWEST OR NORTH-NORTHWEST TO NORTHWEST OF THE TOP OF NORTH FRANKLIN MOUNTAIN

## Survey Information:

**First Observation:** 1978 **Survey Date:** **Last Observation:** 1978-09-10

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** NORTH FACE OF RHYOLITE CLIFF

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. USF& WS STATUS REPORT ON SILENE PLANKII.

## Specimen:

University of Texas at Austin Herbarium. 1978. R.D. Worthington #3467, Specimen # none TEX. 10 September 1978.

University of Texas at El Paso Herbarium. 1978. R.D. Worthington #3467, Specimen # 3607 UTEP. 10 September 1978.

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 3 **Eo Id:** 5585

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

VICINITY OF COTTONWOOD SPRING, WEST SIDE OF FRANKLIN MTS., ABOVE CANUTILLA

## Survey Information:

**First Observation:** 1952 **Survey Date:** **Last Observation:** 1952-10-15

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** IN MATS OF SELAGINELLA ON ROCK FACE

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** IN FLOWER AND FRUIT

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

CORRELL, D. S. (15033). N.D. SPECIMEN # NONE SM.

## Specimen:

CORRELL, D. S. (15033). N.D. SPECIMEN # NONE SM. (S??CORSMTXUS)

SOUTHERN METHODIST UNIVERSITY HERBARIUM. 1952. D.S. CORRELL #15033, SPECIMEN # NONE SMU. 15 OCTOBER 1952.

University of Texas at Austin, Lundell Herbarium. 1952. D.S. Correll #15033, Specimen # none TEX-LL. 15 October 1952.

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 4 **Eo Id:** 2353

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

0.2 MILE NORTH OF THE TOP OF NORTH FRANKLIN MOUNTAIN, FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1981 **Survey Date:** **Last Observation:** 1981-03-15

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** RHYOLITE ROCK FACE, NORTH EXPOSURE

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. USF& WS STATUS REPORT ON SILENE PLANKII.

## Specimen:

University of Texas at El Paso Herbarium. 1981. R.D. Worthington #6879, Specimen # 15358 UTEP. 15 March 1981.

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 5 **Eo Id:** 7835

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

0.25 AIR MILES NORTH NORTHWEST TOP NORTH FRANKLIN MOUNTAINS

## Survey Information:

**First Observation:** 1977 **Survey Date:** **Last Observation:** 1977-11-12

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:** NORTHWEST EXPOSURE ON RHYOLITE

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. USF& WS STATUS REPORT ON SILENE PLANKII.

## Specimen:

University of Texas at El Paso Herbarium. 1977. R.D. Worthington #43, Specimen # 1025 UTEP. 12 November 1977.

# Element Occurrence Record

**Scientific Name:** Silene plankii **Occurrence #:** 6 **Eo Id:** 550

**Common Name:** Plank's catchfly **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

0.35 [AIR] MILE SOUTH OF NORTH FRANKLIN MOUNTAIN SUMMIT, JUST WEST OF FORT BLISS BOUNDARY

## Survey Information:

**First Observation:** ? **Survey Date:** **Last Observation:**

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:**

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

WORTHINGTON, R. D. 1981. USF& WS STATUS REPORT ON SILENE PLANKII.

## Specimen:

# Element Occurrence Record

**Scientific Name:** Sonorella metcalfi **Occurrence #:** 1 **Eo Id:** 1120

**Common Name:** Franklin Mountain talus snail **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G2 **State Rank:** S1 **Federal Status:**

## Location Information:

**Directions**

NORTH FRANKLIN MOUNTAIN, IN A NORTHWEST ARM OF FUSSELMAN CANYON, ABOVE SPRING

## Survey Information:

**First Observation:** 1972-05-11 **Survey Date:** **Last Observation:** 1972-05-11

**Eo Type:** **Eo Rank:** **Eo Rank Date:**

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** COLLECTOR ARTIE L. METCALF, 11 MAY 1972; HOLOTYPE 760816 U.S.N.M., PARATYPES 99172 DELAWARE MUSEUM OF NATURAL HISTORY, 338227 ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, 4374 UTEP

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

MILLER, WALTER B. 1976. NEW SPECIES OF SONORELLA (PULMONATA:HELMINTHOGLYPTIDAE) FROM NEW MEXICO AND TEXAS. THE NAUTILUS, VOL. 90(2), APRIL 30, 1976.

## Specimen:

Academy of Natural Sciences, Philadelphia, PA. 1972. Artie L. Metcalf, Catalog # 338227 PAC. 11 May 1972.

Delaware Museum of Natural History, Wilmington. 1972. Artie L. Metcalf, Catalog # 99172 DMNH. 11 May 1972. Paratypes.

U.S. National Museum of Natural History, Smithsonian, Washington, D.C. 1972. Artie L. Metcalf, Catalog # 760816 USNMNH. 11 May 1972. Holotype.

University of Texas at El Paso. 1972. Artie L. Metcalf, Catalog # 4374 UTEP. 11 May 1972.

# Element Occurrence Record

**Scientific Name:** Spilogale gracilis
**Occurrence #:** 36
**Eo Id:** 14262
**Common Name:** western spotted skunk
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G5
**State Rank:** S5
**Federal Status:**

## Location Information:

**Directions**

The specimen label states that it was located on the University of Texas at El Paso Campus, El Paso, TX.

## Survey Information:

**First Observation:** 1967-03-01
**Survey Date:** 1967-03-01
**Last Observation:** 1967-03-01
**Eo Type:**
**Eo Rank:** H
**Eo Rank Date:** 1967-03-01
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 1 March 1967: Skin and skeleton of one female preserved specimen.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Ferguson, Adam. 2014. Texas Skunk Record Database regarding five specices of skunk in Texas.

## Specimen:

University of Texas El Paso Biodiversity Collections, El Paso, TX; Arthur H. Harris (#4443), Catalog #368, 1 March 1967, UTEP.

# Element Occurrence Record

**Scientific Name:** Spilogale gracilis **Occurrence #:** 38 **Eo Id:** 14263

**Common Name:** western spotted skunk **Track Status:** Track all extant and selected historical EOs

**Identification Confirmed:** Y - Yes **TX Protection Status:**

**Global Rank:** G5 **State Rank:** S5 **Federal Status:**

## Location Information:

**Directions**

The specimens were located east of Tom Mays Park. Directions were created by database staff. The directions are generalized as this record consists of multiple observations.

## Survey Information:

**First Observation:** 1974-08-12 **Survey Date:** 1986-09-01 **Last Observation:** 1986-09-01

**Eo Type:** **Eo Rank:** H **Eo Rank Date:** 1986-09-01

**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** 12 August 1974: Skin and skeleton of one male preserved specimen; 1 September 1986: Skin and skeleton of one male preserved specimen.

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

Ferguson, Adam. 2014. Texas Skunk Record Database regarding five specices of skunk in Texas.

## Specimen:

University of Texas El Paso Biodiversity Collections, El Paso, TX; John C. Bokich (#195), Catalog #3829, 12 August 1974, UTEP.

University of Texas El Paso Biodiversity Collections, El Paso, TX; Richard D. Worthington (#13), Catalog #8340, 1 September 1986, UTEP.

# Element Occurrence Record

**Scientific Name:** Vulpes macrotis
**Occurrence #:** 14
**Eo Id:** 1778
**Common Name:** kit fox
**Track Status:** Track all extant and selected historical EOs
**Identification Confirmed:** Y - Yes
**TX Protection Status:**
**Global Rank:** G4
**State Rank:** S1S2
**Federal Status:**

## Location Information:

**Directions**

15 MILES EAST OF EL PASO ON HIGHWAY 180/62

## Survey Information:

**First Observation:** 1972-11-10
**Survey Date:**
**Last Observation:** 1972-11-10
**Eo Type:**
**Eo Rank:**
**Eo Rank Date:**
**Observed Area:**

## Comments:

**General Description:**

**Comments:**

**Protection Comments:**

**Management Comments:**

## Data:

**EO Data:** ONE FEMALE (SKIN AND SKELETON)

## Community Information:

| Scientific Name: | Stratum: | Dominant: | Lifeform: | Composition Note: |
|---|---|---|---|---|

## Reference:

**Citation:**

HARRIS, ARTHUR H. 1995. PERSONAL CORRESPONDENCE WITH PEGGY HORNER IN REGARD TO VULPES MACROTIS.

## Specimen:

UNIVERSITY OF TEXAS AT EL PASO MUSEUM. 1972. D. DVORAK #2, CATALOG # 3632 UTEP. 10 NOVEMBER 1972.