

SOUTHERN EDWARDS PLATEAU HABITAT CONSERVATION PLAN

28 April 2009

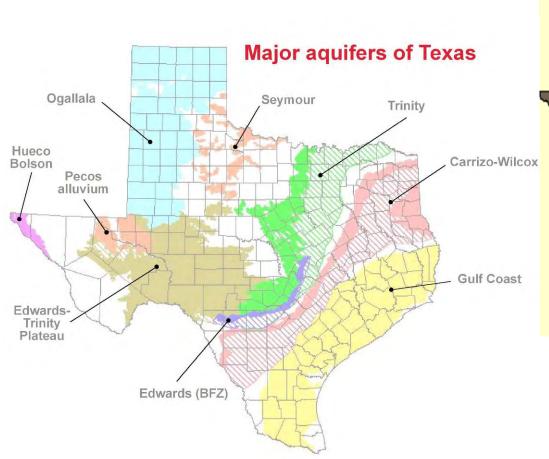
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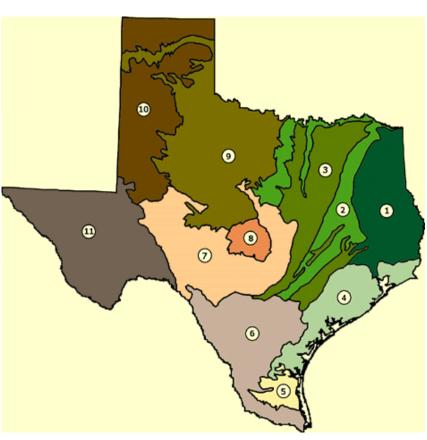


Overview

- Background
- What is the Endangered Species Law?
- What is an HCP?
- Why an HCP?
- How an HCP Works
- Conservation and Development, Strange Bedfellows
- Our Endangered Species and Species of Concern
- SEP- HCP Team (Bexar County City of San Antonio)
- SEP- HCP Tentative Schedule & Current Status
- Other HCPs
- Contact Information and Questions

Texas is the most Ecologically Diverse state in the nation





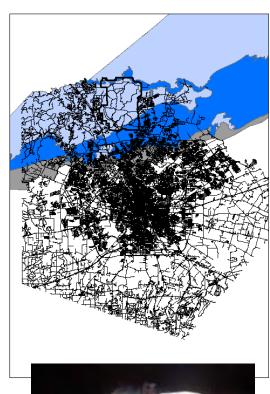


Ecological Diversity in Texas

- Texas has ...
- one of the highest mammalian diversity in North America
 - more than 140 native species
 - more than 100 species of introduced free ranging non-native species
- > Texas has more than 620 species of birds
 - more species of birds have been confirmed in Texas than in any other state (that's more species of birds than are found in all of Europe)
- high levels of plant diversity
 - > over 2,300 indigenous species
- more surface water than all but two states
 - > over 80,000 miles of rivers and streams
- the "most extraordinary herpetological region in the country"
 - due to its incredible range of reptile and amphibian species
 - more than half of the reptile and amphibian species in the U. S. can be found in Texas
- Texas has an amazing diversity of freshwater and marine life



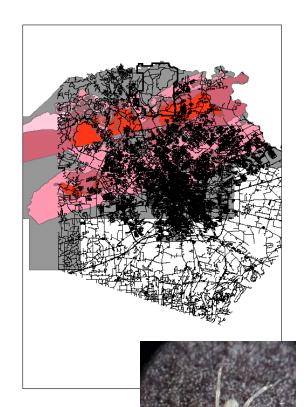
Where are the Endangered Species







Karst Zones



C. madla, HQ cave Madla's Cave meshweaver

Courtesy J. Krejca

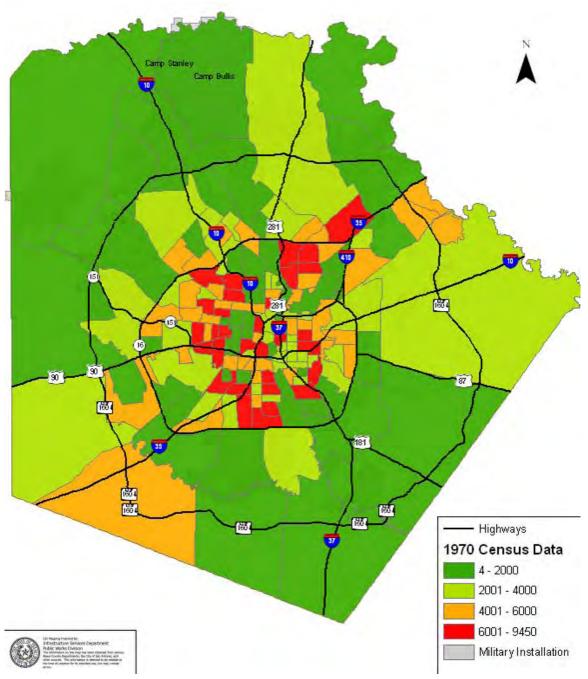
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The #1 threat to wildlife today...

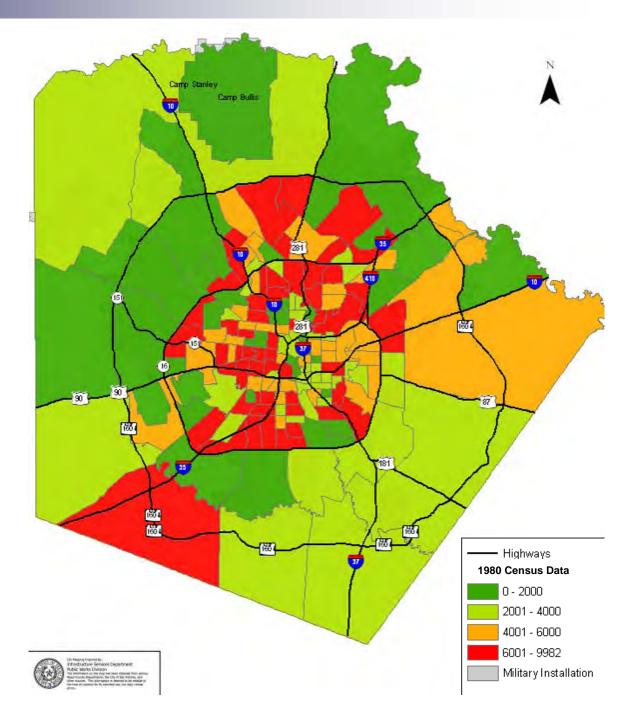


Texas loses more than 1 acre of habitat every 7 minutes, 24 hours a day, 7 days a week, 365 days a year. During this presentation, 10 acres of habitat will be lost

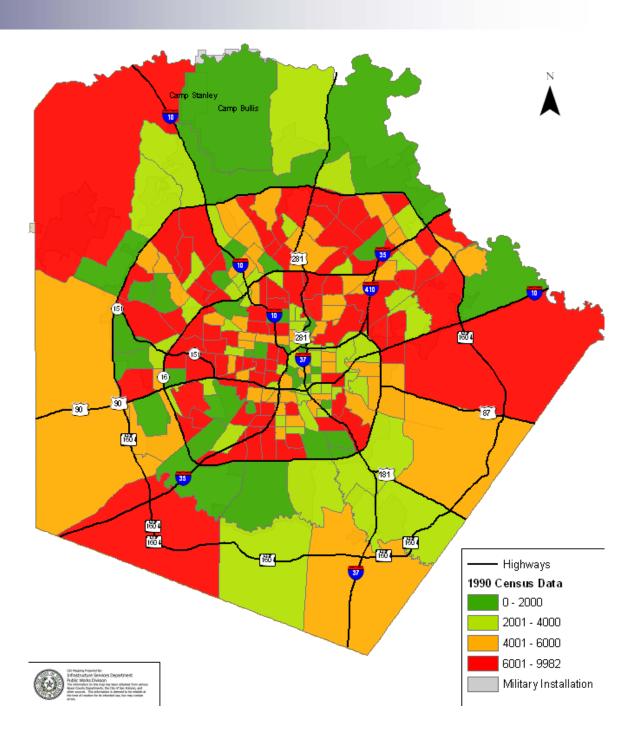




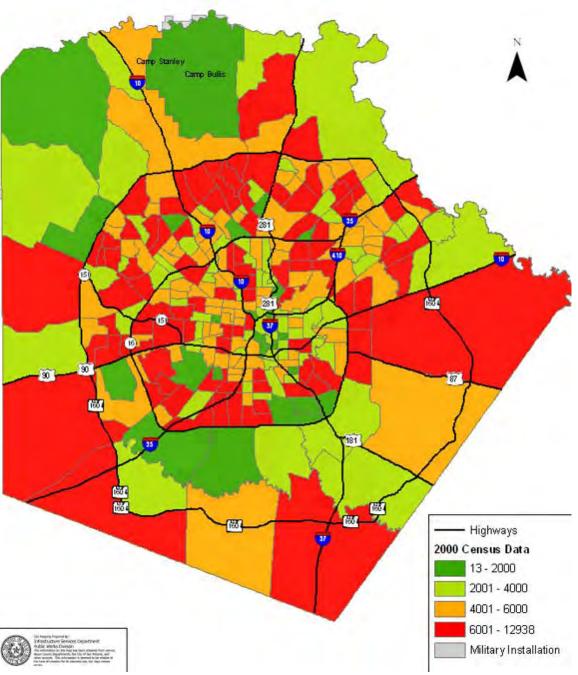




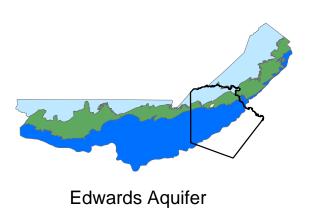


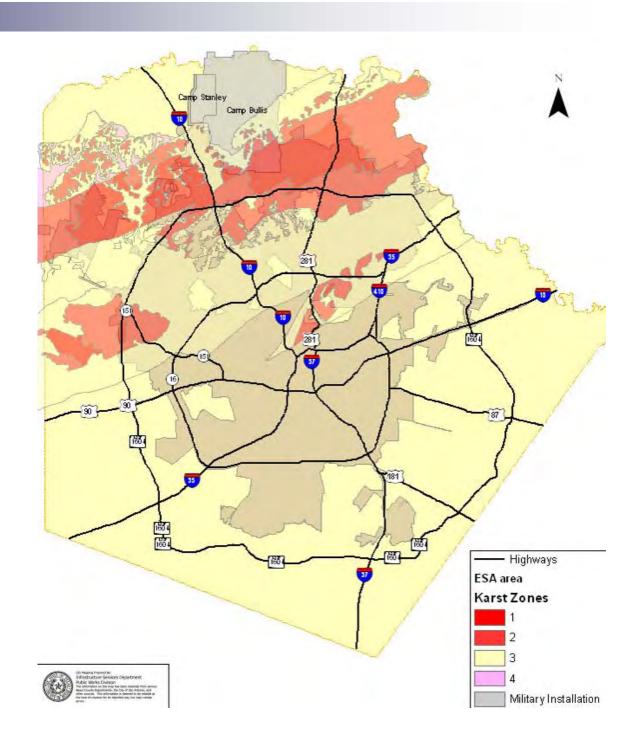






Bexar County Karst Zones







The Endangered Species Act (ESA)

- The U. S. Congress recognized and set out to halt the rapid loss of plants and animals that make up our nation's natural heritage in 1973
- It was determined that these species are valuable to the Nation (aesthetic, ecological, educational, historical, recreational, and scientific)
- The US Fish and Wildlife Service is the federal agency charged with administration and enforcement. USFWS had to develop a conservation strategy to include States and other interested parties with the goal being to conserve ecosystems upon which threatened and endangered species depend
- An amendment to the Act in 1982 created Habitat Conservation Plans that allow development while protecting rare species by ensuring mitigating conservation measures.
- Under the ESA, any activities that result in "take" of listed species or their habitat requires consultation with the USFWS
- Water resource issues must also be resolved in conjunction with species conservation

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ENDANGERED SPECIES ACT PROVISIONS

- ➤ Section 9 prohibits "take" of listed wildlife species
- Section 10(a) permits authorize "take" for non-federal actions
- ➤10(a) Permit Process
 - Preparation of habitat conservation plan (HCP)
 - National Environmental Policy Act (NEPA)
 - Citizen Advisory Committee
 - Biological Advisory Team
 - Public comment
- ➤ Required elements of an HCP
 - Identification of impacts
 - Steps applicant will take to minimize and mitigate the impacts
 - > Funding sources
 - Biological goals and objectives
 - > Monitoring
 - Adaptive management



What is a "Take"?

- "Take" is defined in the Endangered Species Act as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect any threatened or endangered species.
- Harm may include habitat modification that impacts a listed species through impairment of essential behavior (e.g., nesting or reproduction).



Who must comply with the ESA?

- Any landowner or individual engaging in activities that result in "take" are required to comply with the law.
- > This includes:
 - Private Landowners
 - Commercial Developers
 - Agricultural Users
 - Governmental Agencies
 - Infrastructure Providers



Listing Criteria – Five Factors

- Destruction, modification or curtailment of the species range or habitat
- Over-utilization for commercial, recreational, scientific, or educational purposes
- 3. Disease or predation
- 4. Inadequacy of existing regulatory mechanisms
- Other factors affecting the continued existence of the species





What is an "HCP"?

- A habitat conservation plan or "HCP" is a planning document that is a mandatory component of an application for incidental take of a listed species under the Endangered Species Act and regulations.
- The applicant's (Bexar County, The City of San Antonio, and other interested parties) HCP must describe
 - the impacts likely to result from activities the applicant plans to undertake or authorize
 - the measures the applicant will undertake to avoid, minimize, and mitigate to the maximum extent practicable for those impacts
- Issuance criteria must be met before the FWS can issue an incidental "take" permit.



What is an "HCP"? (cont)

- > The 10(a)(1)(B) permit authorizes the incidental take of a listed species and will allow "the entity (at that point the Permittee)" to authorize Participants (i.e., Developers) to conduct covered activities that will cause incidental take, so long as the Participants conform to the terms of the HCP and permit (i.e., mitigation of the "take").
- NOTE: The HCP is the plan of action the permit is the legal instrument that usually incorporates the HCP by reference.
- This process ensures adequate minimization and mitigation of the effects of the authorized incidental take to the maximum extent practicable.
- Permit duration of 30 years
- Participation is completely voluntary



What is an "HCP"? (cont)

Documents Required for the HCP

- Draft HCP
- Draft NEPA document
- Permit Application Form and Fee
- Certification that HCP documents are complete
- Federal Register Notice
- Implementation Agreement

Additional Required Documents

- Biological Opinion
- Findings Document
- NEPA Decision



Our HCP Goals

- Provide assistance in the recovery of the listed species
- Provide assistance to prevent new species (threatened species) from being listed
- Provide a tool that allows for cost effective compliance with federal law (the ESA)



What an HCP is not

- It is not mandatory
- It is not intended to stop development it is a tool to encourage compliant development
- ➤ It will not recover the species it is intended to aid in the recovery of the species
- It is not intended to be a drain on the taxpayers
 - it should be self supporting



Why an HCP?

- Balance development and conservation
- > Development provides funding for conservation
- Provides a tool for developers and landowners to easily and cost effectively comply with Federal Law
- Provides certainty by streamlining the approvals for public and private projects
- > Reduces time and cost associated with Endangered Species Act compliance
- > Allows us to control our own economic growth
- > Ensures preservation of open space and the natural character of the County
- ➤ For San Antonio, provides protection of our sole source of water the aquifer
- In Bexar County aquifer protection coincides with endangered species protection
- Facilitates recovery of listed species
- Allows for public participation in the process

Avoid Section 9 Law Enforcement



- Civil or criminal penalties
- Can enjoin the Federal government
- Third party lawsuits
- Typically involve unauthorized clearing of known or suspected occupied habitat
- ➤ In FY 2007, 8 cases involving endangered species
- Several currently ongoing in the San Antonio area



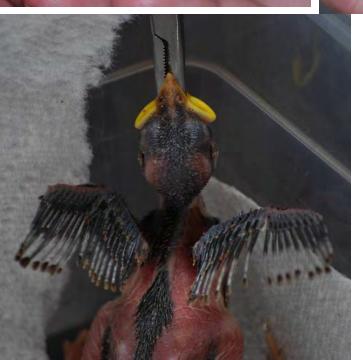


Who Benefits from an HCP?

- Conservation Groups
- > Governmental entities
- School districts
- > Political subdivisions
- > TxDOT
- Developers
- Landowners
- Citizens
- > TPWD
- > USFWS

EVERYONE









How an HCP would work

- You want to develop in an environmentally sensitive an area of Bexar County
- 2. You conduct an endangered species survey to determine if your development would result in a "take"
- 3. You choose to participate in our HCP in order to comply with the Endangered Species Act.
- 4. You submit an HCP participation application and supporting documents to a our local HCP administrator (TBD)
- 5. HCP administrator reviews the application, ensures you are in compliance with the HCP and determines your participation fee.
- 6. If you choose to participate, you pay mitigation fee and become part of our HCP **Likely a 2 week process

WITHOUT THE HCP

You work individually with the U.S. Fish and Wildlife Service to obtain an individual 10(a) permit - **Likely a 2 year process



Proposed HCP Funding Sources

- > Participation fees from developers for karst and bird mitigation
- ➤ Tax Benefit Financing
 - Baseline valuation determined
 - > Enhanced valuation of the property on an ongoing basis
 - Calculation of TBF
 - ➤ TBF set aside into Conservation Trust for future acquisition, operations and management
- > Federal grants, Land grants, and Donations



Conservation and Development, Strange Bedfellows?

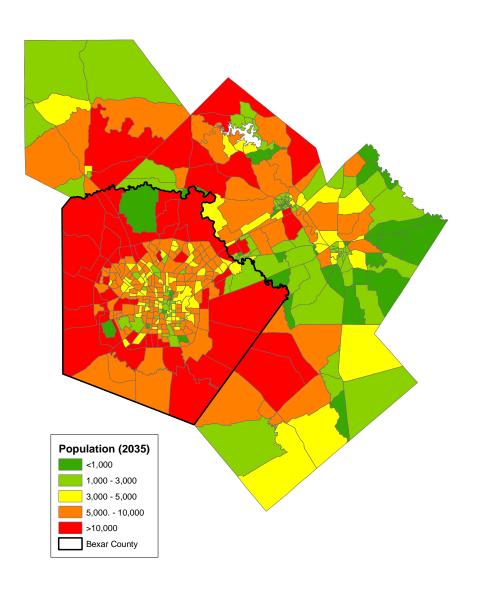
- > NO
- Conservation needs Development to fund the conservation activities
- Development needs Conservation to preserve the very reason people want to develop here

Conservation and Development Must Be Partners

Population 2005

Population (2005) <1,000 1,000 - 3,000 3,000 - 5,000 5,000 - 10,000 >10,000 Bexar County

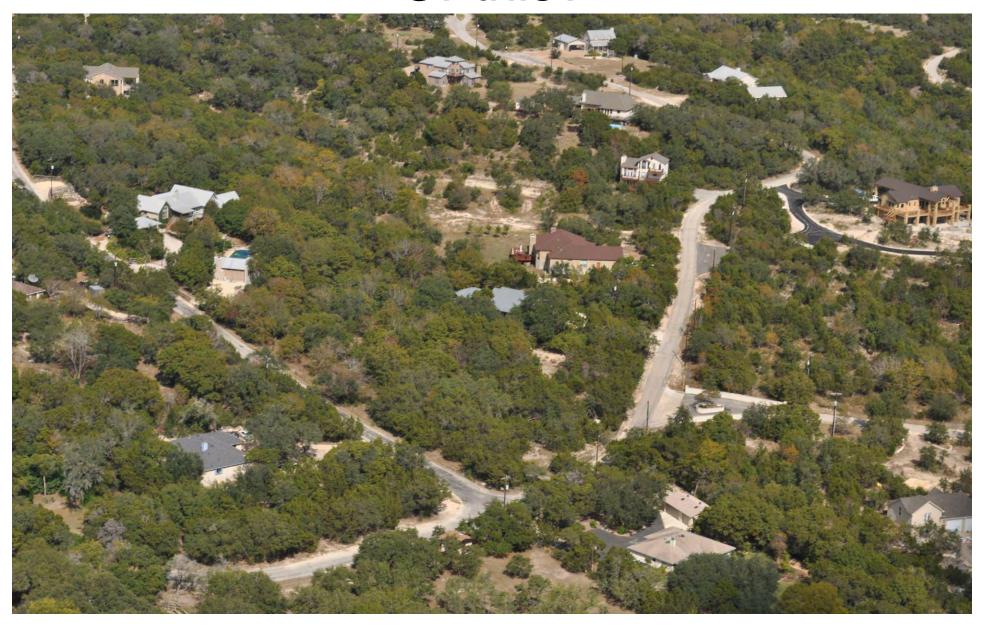
Projected Population 2035



What is our vision of Texas?



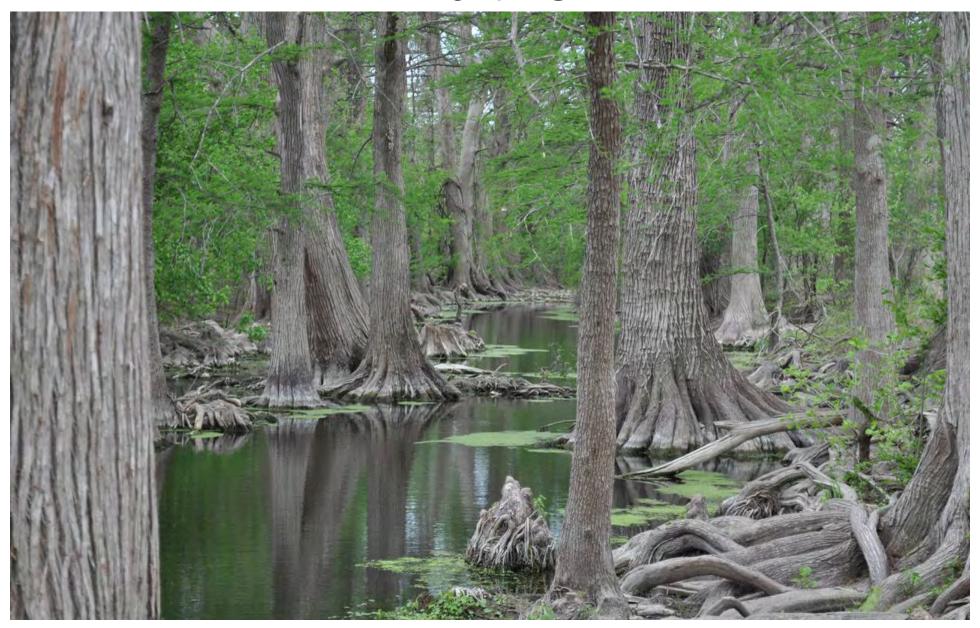
Or this?



And this?



And this?





With an HCP

There are NO Surprises

There will be NO additional conservation and mitigation measures required of developers

No additional restrictions on the use of natural resources, other than those agreed to in the HCP.

A Deal's a Deal!

What species need to be covered

- Endangered Species
 - > 3 Birds
 - > 10 karst invertebrates
 - ➤ 1 plant
- > 44 Other Species of Concern













Endangered Species in Bexar County

Birds

- Black-capped vireo (Vireo atricapilla)
- Golden-cheeked warbler (Dendroica chrysoparia)
- Whooping Crane (Grus americana)

Karst Creatures

- Braken Bat Cave Meshweaver (Cicurina venii)
- Cokendolpher Cave Harvestman (Texella cokendolpheri)
- Government Canyon Bat Cave Meshweaver (Cicurina vespera)
- Government Canyon Bat Cave Spider (Neoleptoneta microps)
- Helotes Mold Beetle (Batrisodes venyivi)
- Interior Least Tern (Sterna antillarum athalassos)
- Madla Cave Meshweaver (Cicurina madla)
- Rhadine exilis (no common name)
- Rhadine inifernalis (no common name)
- Robber Baron Cave Meshweaver (Cicurina baronia),

Plants

Texas Wild Rice (Zizania texana)







Additional Species in Bexar County

(as identified by TPWD)

- A cave obligate crustaean (Monodella texana)
- American Peregrine Falcon (Falco peregrinus tundrius)
- Cascade Caverns Salamander (Eurycea latitans)
- Comal Blind Salamander (Eurycea tridentifera)
- Peregrine Falcon (Falco pergrinus)
- Texas Salamander (Eurycea neotenes)
- Western Burrowing Owl (Athene cunicularia hypugaea)
- White-faced Ibis (Plegadis chihi)
- Wood Stork (Mycteria americana)
- Zone-tailed Hawk (Buteo albonotatus)







Additional Listed and Rare Species in Bandera, Kendall, Kerr and Medina counties

(as identified by TPWD)

- A mayfly (Baetodes alleni)
- > A mayfly (Plauditus futilis)
- > American Peregrine Falcon (Falco peregrinus anatum)
- Arctic Peregrine Falcon (Falco peregrinus tundrius)
- Baird's Sparrow (Ammodramus bairdii)
- Bald Eagle (Haliaeetus leucocephalus)
- Black Bear (*Ursus americanus*)
- > Blanco River Springs Salamander (*Eurycea pterophila*)
- Cascade Cave Amphipod (Stygobromus dejectus)
- Cave Myotis Bat (Myotis velifer)
- Edwards Plateau Shiner (*Cyprinella lepida*)
- Ezell's Cave Amphipod (Stygobromus flagellatus)
- Frio Pocket Gopher (Geomys texensis bakeri)
- Ghost-faced Bat (Mormoops megalophylla)
- Guadalupe Bass (Micropterus treculii)
- Guadalupe Darter (Percina sciera apristis)
- Headwater Catfish (Ictalurus lupus)
- Leonora's Dancer Damselfly (Argia leonorae)
- Long-legged Cave Amphipod (Stygobromus longipes)
- Mountain Plover (Charadrius montanus)
- > Nueces Roundnose Minnow (*Dionda serena*)
- Rawson's Metalmark (Calephelis rawsoni)
- Sage Sphinx (Sphinx eremitoides)
- > Texas Austrotinodes caddisfly (Austrotinodes texensis)
- > Texas Salamander (Eurycea neotenes)
- Valdina Farms Sinkhole Salamander (Eurycea troglodytes complex)



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Federally listed species that occur in springs down-gradient from Bexar County that would benefit from the protection and management of upstream recharge areas (e.g. San Marcos Springs, Comal Springs)

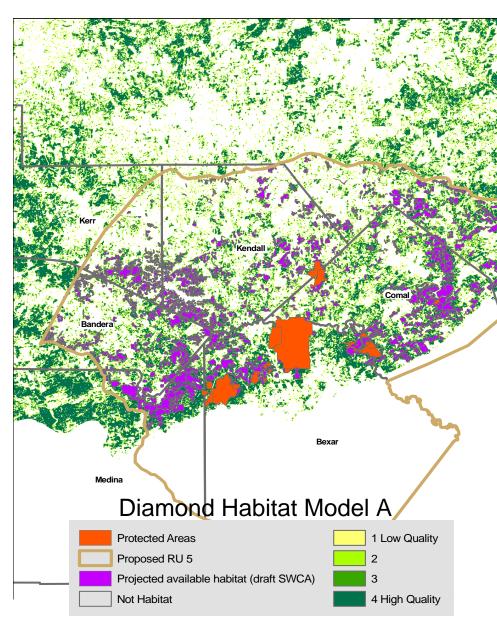
- Comal Springs Dryopid Beetle (Stygoparnus comalensis)
- Comal Springs Riffle Beetle (Heterelmis comalensis)
- Fountain Darter (Etheostoma fonticola)
- Peck's Cave Amphipod (Stygobromus pecki)
- San Marcos Gambusia (Gambusia georgei)
- San Marcos Salamander (Eurycea nana)
- Texas Blind Salamander (Eurycea rathbuni)
- Texas Wild Rice (Zizania texana)



Only one bird breeds only in the Lone Star State...



Golden-cheeked warblers





Scientists such as SWCA used existing aerials and incorporate considerations regarding patch size to project habitat "suitable" for recovery purposes

Karst Protection

"Karst" refers to limestone caves and sinkholes with underground streams

The Edwards Aquifer is the primary drinking water source for millions of **Central Texas residents**

Protecting Karst Critters protects the





The Team

Bexar County
City of San Antonio
Private Landowners



The U.S. Fish and Wildlife Service



Texas Parks and Wildlife

Camp Bullis

YOU?







Timeline 2009

RFQ Submittal Evaluation	Apr-09
Grant Release	May-09
Present RFQ Submittal To Court	May-09
Release RFQ/RFP selection	May-09
FWS releases grant through TPWS, TPWS releases grant to SEPHCP	Jun-09
Identify Funding for HCP - City & County	Jun-09
Work an Interlocal agreement between the City and County	May-09
Work Interlocal agreements with Other Counties in Recovery Unit 5	Jul-09
Project Organization	Oct-09
Summary of legal requirements	Nov-09



Timeline 2010

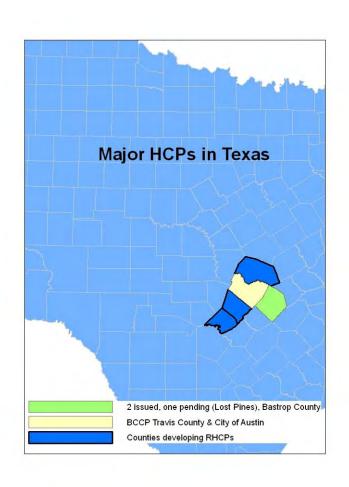
Formation of CAD	Jan-10
Formation of BAT	Jan-10
Develop Public Outreach/Participation Process	Jan-10
Baseline Data Acquisition and Preliminary Analysis	Feb-10
Methodology to define the suitable habitat areas	Feb-10
Initial Strategy/Framework Development	Mar-10
Preliminary Alternatives	Mar-10
Develop summary of initial recommendation (for CAD/BAT approval)	Apr-10
Prepare Preliminary Draft HCP	Sep-10
First Revised Draft HCP	Sep-10
Final Draft HCP	Dec-10
Initiate NEPA process	Dec-10



Timeline 2011

Prepare Draft EIS (DEIS)	Mar-11
Publish Notice of Availability (NOA) of regional HCP/DEIS application	Mar-11
Publish NOA of DEIS/ NOR of application (30 days)	Apr-11
Prepare Final EIS (FEIS)	Jun-11
Review and approval of application documents by applicant agencies	Jul-11
Submit application package	
(Final Draft HCP, PDEIS, application form, application fee)	Aug-11
Public Hearing on HCP (required by Texas Parks & Wildlife code)	Aug-11
Coordinate with USFWS on Biological Opinion, ROD, SOF,	
permit terms and conditions	Aug-11
Issuance of ROD, SOF, and Final TPWD Grant Report	Oct-11`

Other HCPs in Texas



RHCPs

- Williamson County
- BCCP (Travis County and City of Austin)
- Bastrop County

RHCPs (under development)

- Hays
- Comal

Many small acreage HCPs throughout central Texas





Contact Information

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QUESTIONS?

