



# Texas Natural Diversity Database (TXNDD)

## Wildlife Division

## Wildlife Diversity Program

TXNDD Administrator:

Bob Gottfried

TXNDD Data managers:

Sandy Birnbaum

Cullen Hanks

Dorinda Scott

Land Stewardship Assistance in  
Houston Toad Habitat Workshop

January 15, 2010



Timber (canebrake) rattlesnake



Karen Hardin, TPWD

## What is the Texas Natural Diversity Database?

The TXNDD is a GIS integrated Oracle database which stores spatial and tabular information for:

- ❖ Threatened and Endangered Species
- ❖ Rare species of concern
- ❖ Rare natural vegetation communities
- ❖ Other rare natural resources

Sandhill woollywhite



Jason Singhurst, TPWD

# History & Current Standards of the TXNDD:

- ❖ The Nature Conservancy developed Natural Heritage Programs in the mid-1970s
- ❖ Originated in The General Land Office in 1983
- ❖ Formerly known as the Biological & Conservation Data system (BCD)
- ❖ Currently administered by NatureServe
- ❖ International network with standardized methodologies



# Where do we get data?

## ❖ Primary references

TPWD biologists

## ❖ Secondary references

Other governmental agencies

NGOs

Private consultants

Private landowners

Researchers

Reports

Specimen collections

Scientific journals

**Majority of data comes from secondary references**

01/28/2008 Version Date

Office Use Only	
Date Received: _____ (yyyy-mm-dd)	
Sourcecode: U _____ TXUS	
ROR transcribed/updated by: _____ (initials) _____ (date)	
Scientist Reviewer: _____ (initials) ID id: _____	

Texas Natural Diversity Database Reporting Form  
Wildlife Diversity Program  
Texas Parks and Wildlife Department  
4200 Smith School Road  
Austin, TX 78744 (512) 389-8111

We Need Your Help. If you have information on the location of a rare plant or animal and would like to help us build the Texas Natural Diversity Database, please complete the form below. Thank you!

### Instructions:

1. Complete this form for first hand field observations only.
2. **DO NOT COMPLETE THIS FORM** if the source of your information is a report, letter, conversation or other document. Send us the documentation.
3. Rare Birds: Complete this form only for observations during the breeding season or at large concentration areas during migration or in winter.
4. Attach a copy of a map (USGS 1:24,000 topographic map preferred) and mark the location of the rare species or its boundary (if known).  
Note, you may print copies of topo maps from the internet at <http://www.toposon.com>. Please use 1:24,000 or 1:25,000 scale only.

### Source of Your Information: (check one of the following)

- Firsthand field observation Does the identification need to be confirmed?  yes  no
- Other: Please do not complete this form; send us a copy of the documentation instead. If source is a conversation with someone, send us a note.

### Form Completed By:

Name	Date	Phone

### Identification:

Complete only one form per rare plant or animal per site. If you need a list of rare species we are currently tracking, contact our office.

Name of the rare plant or animal:			
Method of ID: (Source of key, photo, name of expert, other):			
Date First Observed:		Date Last Observed:	

### Observer:

Name	Address	Phone

### Location:

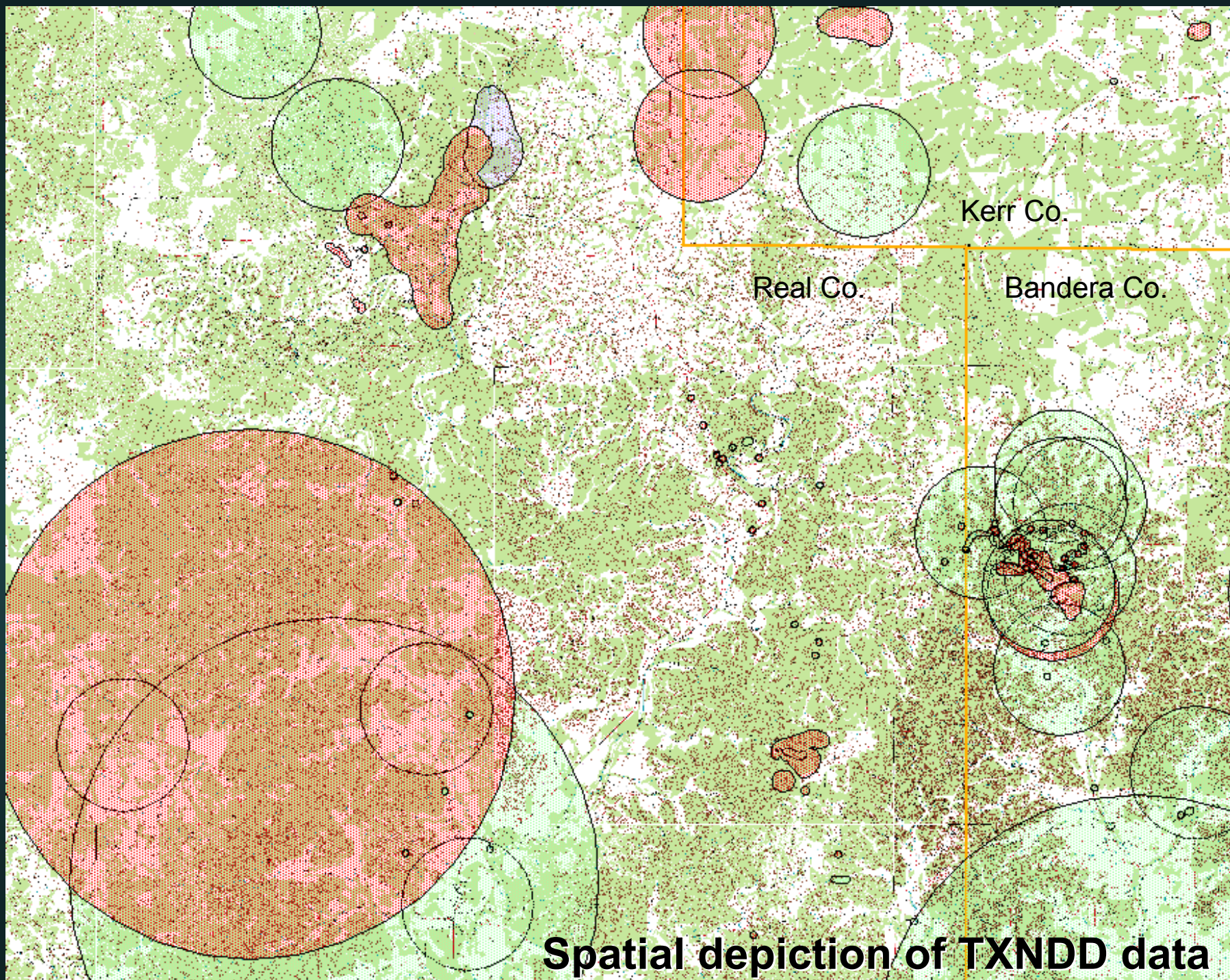
GPS data	Latitude		Longitude	
	Accuracy		GPS Brand	

Survey Site Name (locale or place name):	
--	--

Directions (describe in detail the precise location of the species or community; begin with an easily identifiable starting point, include nearby landmarks, street names, and mileages):

--

County:		Town:	
Name of USGS 7.5' topo (if known):			



Kerr Co.

Real Co.

Bandera Co.

**Spatial depiction of TXNDD data**



Summary

Higher Taxonomy Code: PDLAM    Nation: US    Subnation: TX    Element ID: 10459

Subnational Scientific Name: *Salvia pentstemonoides*    Global Rank: G1

Subnational Common Name: big red sage    Subnat'l Rank: S1

MA/Ownership   
  Additional Topics   
  Documentation   
  Version/QC   
  Other Spatial Attr.   
  Optional   
  LO Permission   
  Assoc. Species   
  EO Properties

Identifiers   
  Site/Directions   
  Locators   
  Rep. Detail   
  Rep. Extent   
  Sources   
  Survey Information   
  EO Rank   
  Description   
  Protection

**Managed Area**

MA ID	MA Name	MA Type	Contained
537	LOST MAPLES STATE NATURAL AREA	SPWNA	Y - Yes

More Management:

Management Comments:

**Ownership**

Owner Type	Owner Name	Note
S - State/pro	Texas Parks	

Owner Comments:

OwnerInfo\_BCD

Element Occurrence ID: 6190  
 Shape ID: 7473  
 Universal Key: TPW-6190

# TXNDD tabular data

# Data Accessibility

## Who uses the data?

TPWD Habitat Assessment Program  
TxDOT  
Private consultants  
U.S. Fish & Wildlife Service  
TPWD Wildlife Diversity biologists  
Researchers



Bald eagle

Data is used  
**DAILY!!**

- ❖ Information requests (~1200/fiscal year)
- ❖ Project planning
- ❖ Meet federal requirements
- ❖ Determine federal listing statuses

Timber (canebrake) rattlesnake



Steve Arey, USFWS

# How is the TXNDD relevant to the private landowner?

Data in the TXNDD is used to guide conservation decisions & development projects

You can contribute data to the TXNDD

You are a key player in conserving Texas' rare species

## Goals of the TXNDD:

- ❖ To be the single most complete repository for rare species data in Texas
- ❖ To provide rare species data to conservation partners and others impacting the Texas landscape

Navasota ladies'-tresses



© 2003, Phil Schappert



Sandhill woollywhite

## QUESTIONS?

### My contact information:

sandy.birnbaum@tpwd.state.tx.us

512-389-8729



### County lists:

Hunting & Wildlife – Endangered Species – Rare, Threatened, and Endangered Species of Texas by County

[http://www.tpwd.state.tx.us/landwater/land/maps/gis/ris/endangered\\_species/](http://www.tpwd.state.tx.us/landwater/land/maps/gis/ris/endangered_species/)