



**Land Fragmentation** 2017 – Conservation Easement Workshop



### Land Fragmentation

### Breaking up of land into smaller or separate pieces

# FRAGMENTATION AND EDGE EFFECT

Increased edge effect
Increasing generalists
Increased parasitism
Increased predation
Specialists lost
Ecological trap



# May benefit

- White-tailed deer
- Some game birds
- Small mammals
- Small/medium predators
- Invader Species

## May harm

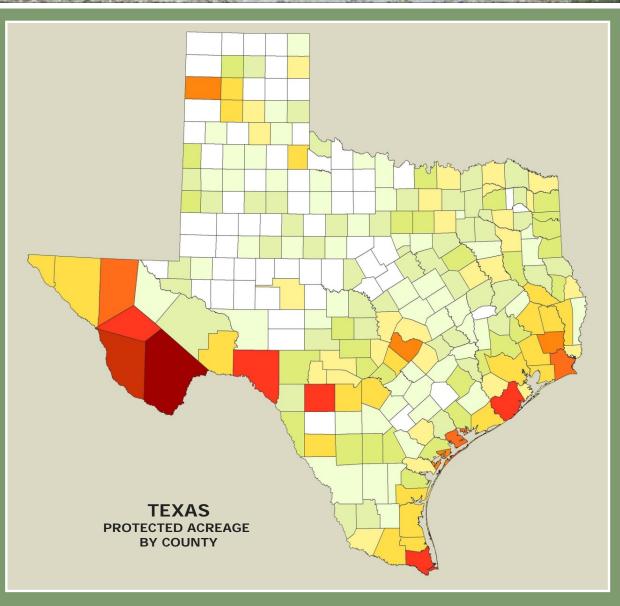
- Interior forest species
- Grassland species
- Habitat specialists
- Threatened or endangered species



Conservation land in Texas totals over 4 million acres

Just 2.4 percent of state

Not geographically balanced; more than half of acreage located in ten counties (Brewster, Presidio, Val Verde, Jeff Davis, Cameron, Brazoria, Uvalde, Jefferson, Calhoun, Culberson)

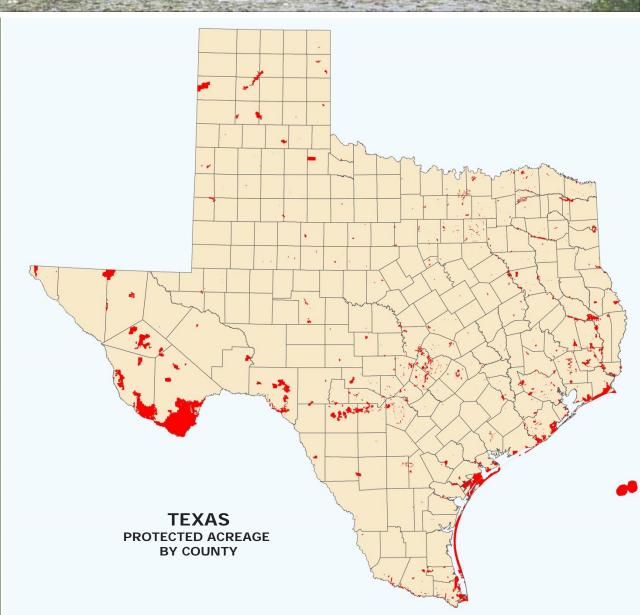




Conservation land in Texas does not fully protect the state's biodiversity

Most parks and preserves far from the state's population

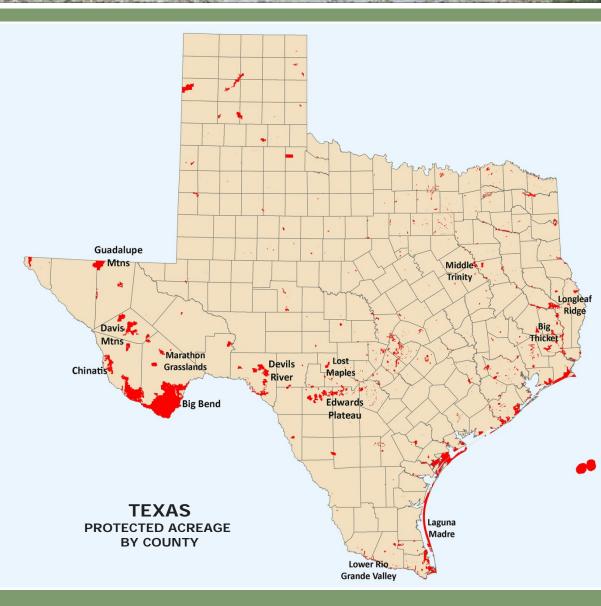
Most conservation lands in Texas are limited in size





#### HIGHEST NUMBER OF CONSERVATION TARGETS

- 1. Edwards Plateau Karst (~190)
- 2. Big Bend/Rio Grande (90)
- 3. Lower Rio Grande Valley (50)
- 4. Davis Mountains (43)
- 5. Guadalupe Mtns/Salt Basin (41)
- 6. Laguna Madre/Sand Sheet (41)
- 7. Longleaf Ridge (31)
- 8. Trinity/Carrizo Sands (26)
- 9. Sierra Vieja/Chinatis (24)
- 10. Big Thicket/Sandylands (22)
- 11. Devils River (22)
- 12. Lost Maples/Love Creek (19)
- 13. Marathon Grasslands (17)





## Organization National Park Service Texas Parks and Wildlife Dept. **US** Forest Service US Fish and Wildlife Service Local Government The Nature Conservancy Texas Forest Service TOTAL

Acres 1,227,088 1,048,045 675,000 429,092 127,218 100,065 13,638 3,620,146



Organization	<u>Acres</u>
The Nature Conservancy	378,042
Texas Agric. Land Trust	224,900
City of San Antonio	133,447
Texas Land Conservancy	85,000
US Dept. of Agric.	69,502
US Fish and Wildlife	47,960
Other Land Trusts	
TOTAL	1,047,773



### Why Conservation Easements

- Cost Effective
- Public Benefits
- Income/Estate/Property Tax Savings