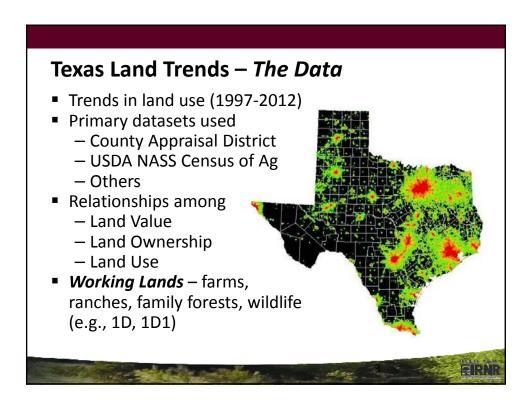


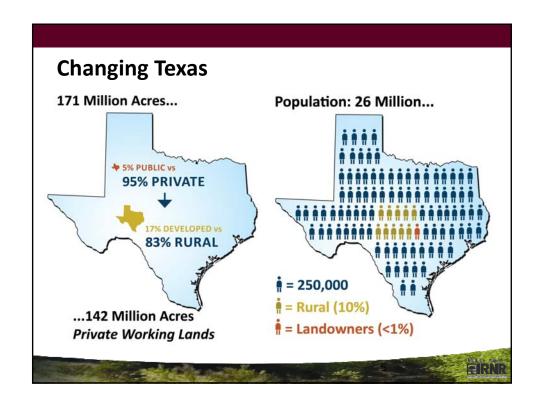
Value of Rural Lands

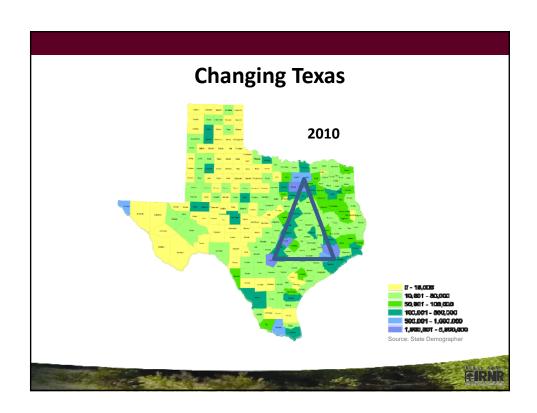
- Rural working lands play an unseen yet critical role in water/food sustainability and national/energy security.
- Effective conservation will require innovative solutions to sustaining private rural working lands.
- Presentation Outline:
 - Changes in human demographics
 - Changes in land uses
 - Changes in landowner values

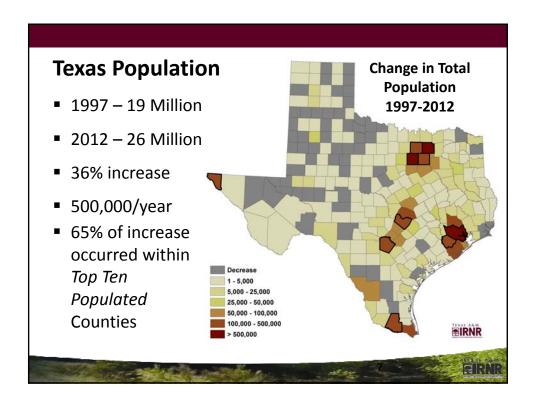


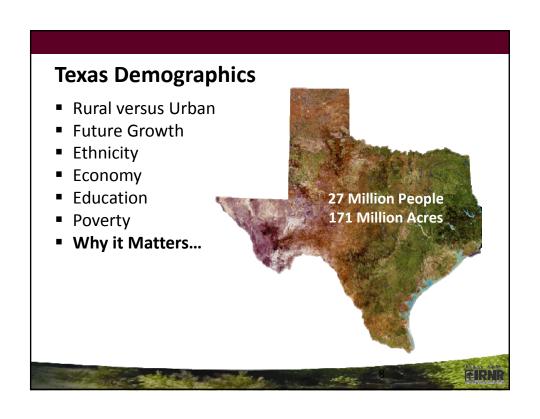


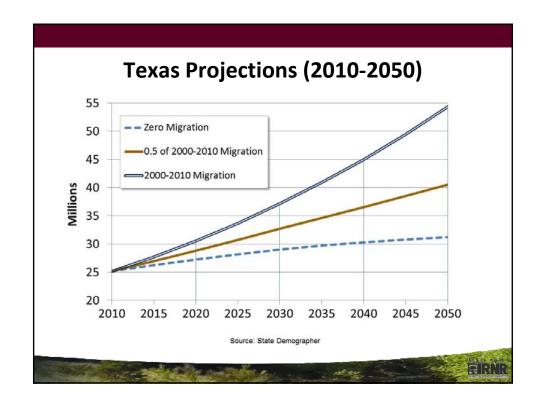


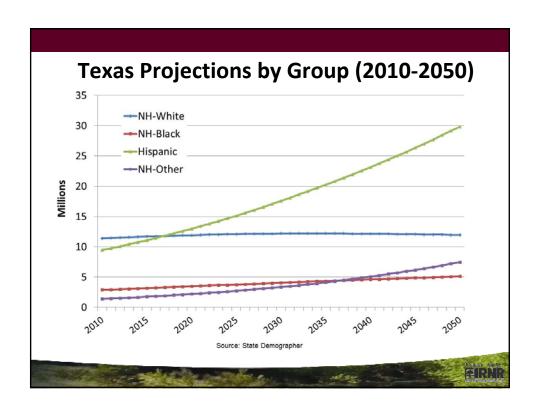


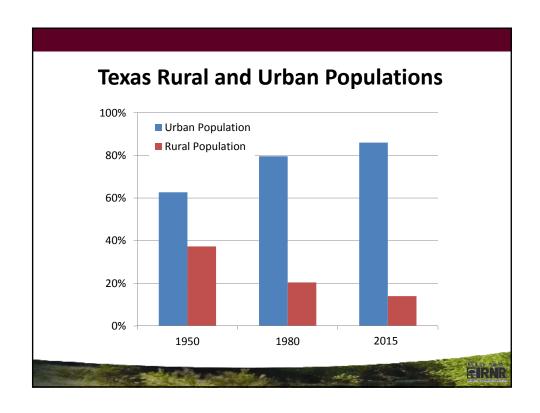




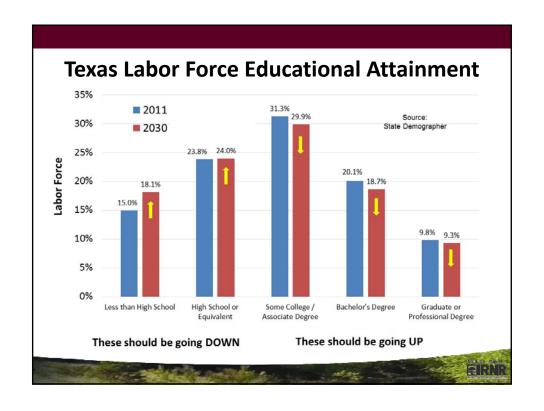


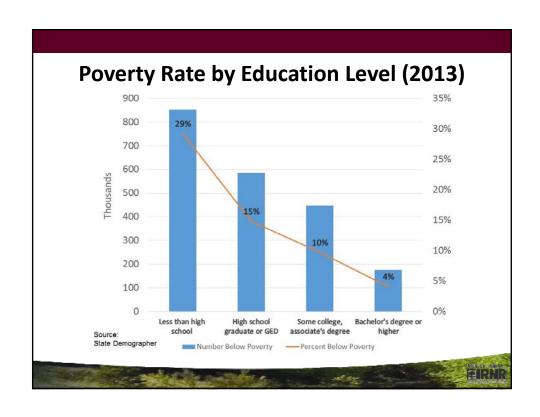


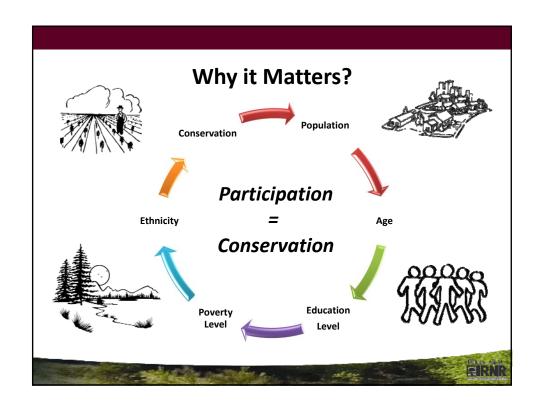


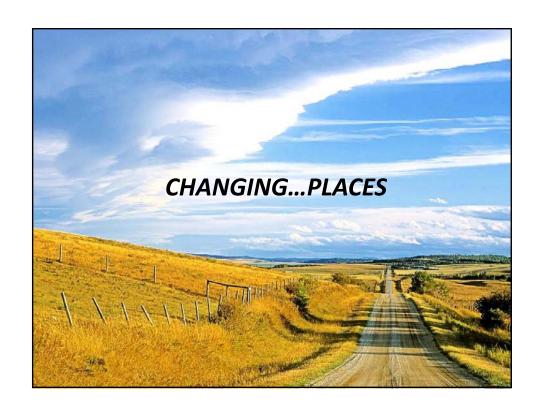




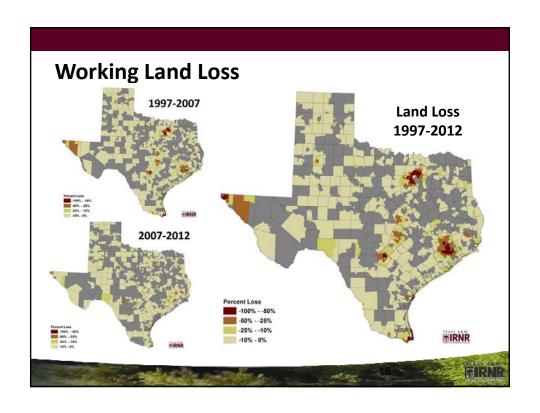


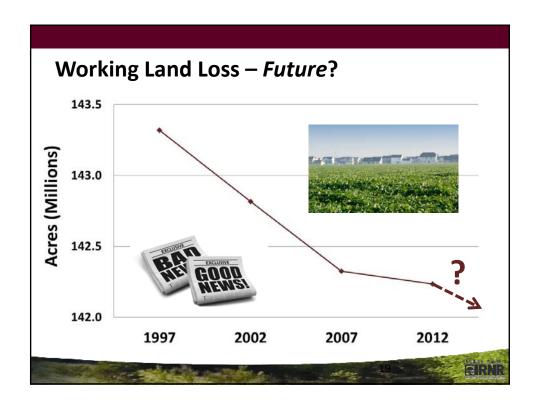














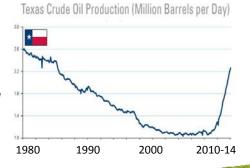


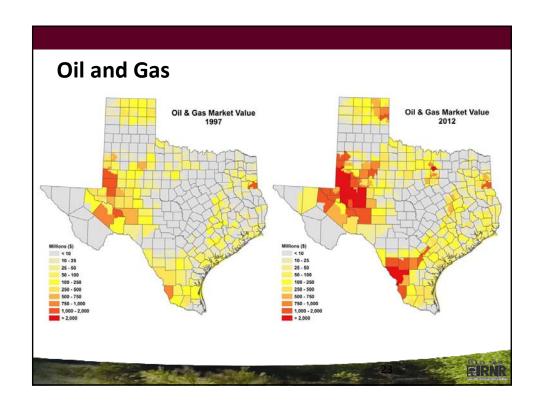
Oil and Gas

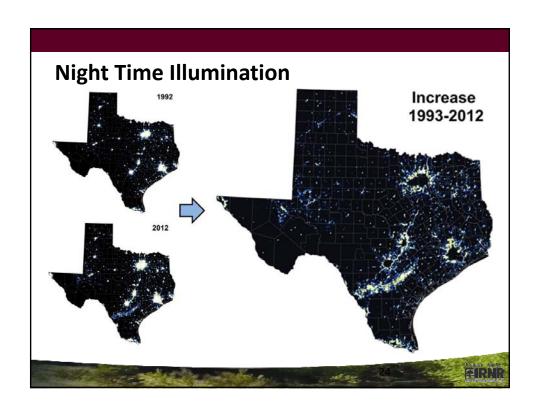
- Game Changer—Texas is leading crude oil production state in part to 3 large shale gas plays
 - Barnett, Haynesville and Eagle Ford
- U.S. oil production expected to exceed that of Saudi

Arabia by 2017

- Eagle Ford Shale Story
 - \$87B in revenue (2014)
 - Since 2014, natural gas production has doubled and oil production has increased 6X.

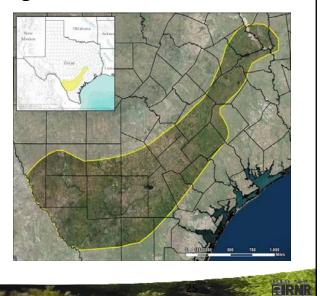




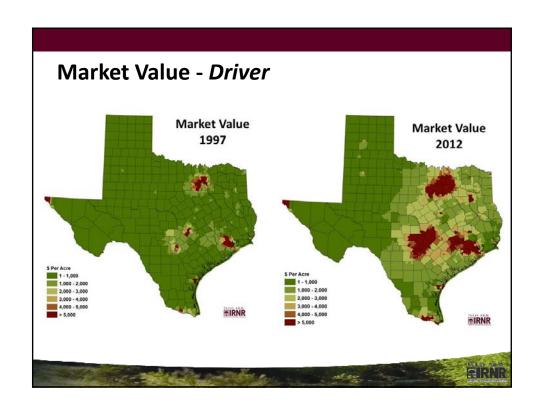


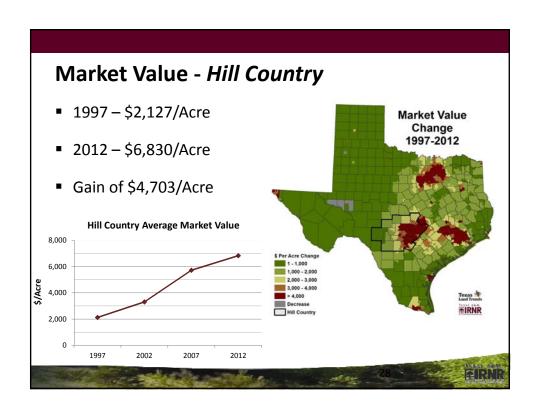
Oil and Gas – Eagle Ford Shale

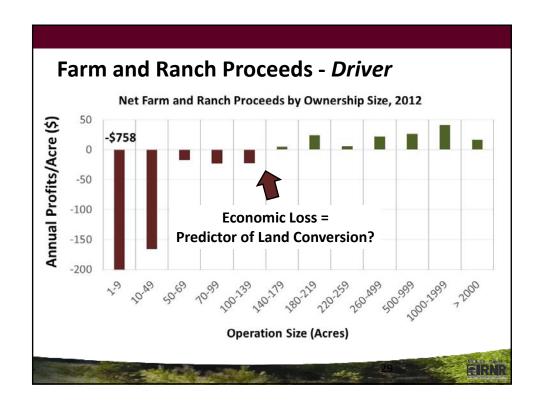
- Landsat 1993-2014 - CDA
- Estimated increase:
 - 23,000 well pads
 - 84,000 acres
 - 65% of construction occurred2011-2014

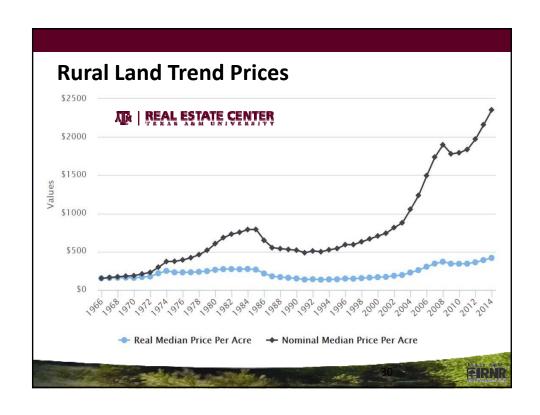


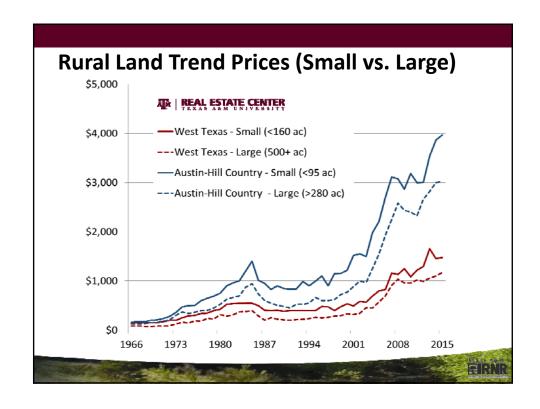


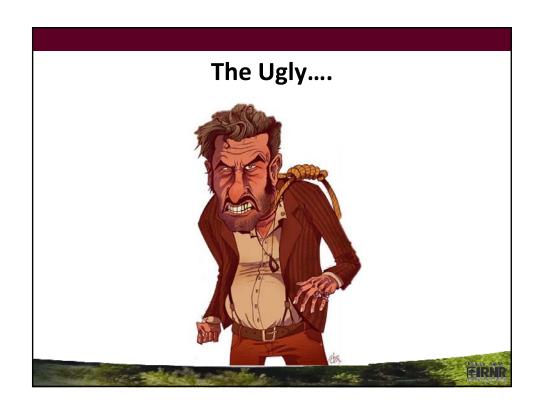




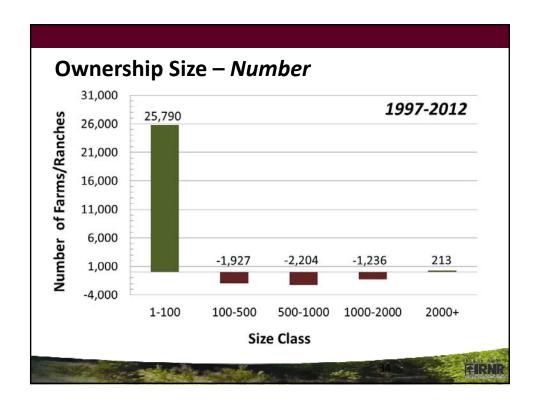


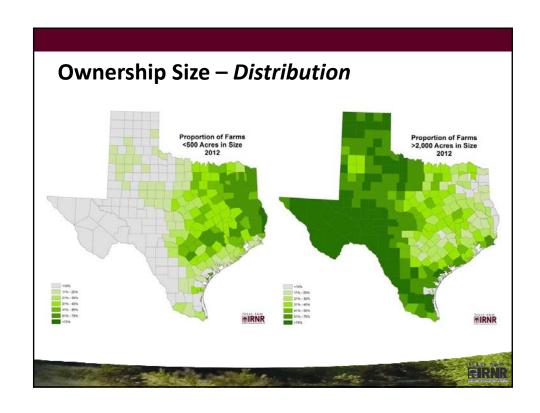










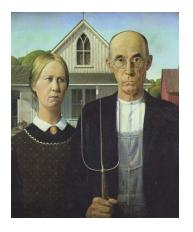






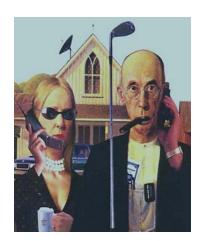
Landowner Demographics

- In 2007, the average farmer 57 years old; average forest landowners 65 years old.
- During the next two decades, the U.S. will witness the largest intergenerational transfer of rural lands in its history.



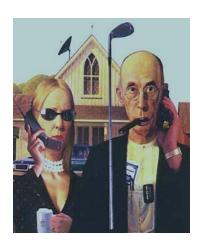
Landowner Demographics

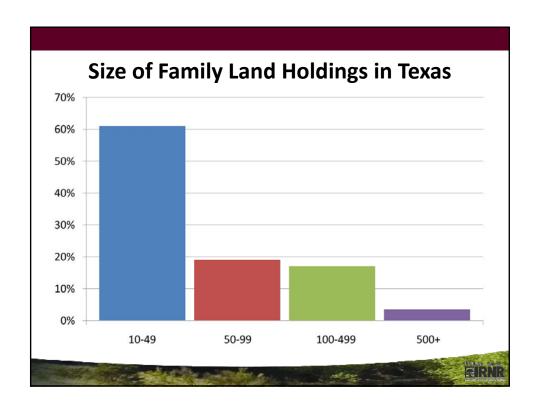
- Future private landowner?
- Younger generation less tied to the land.
- Concerns estate taxes on holdings
- Buyers/developers who want to make a better return on their investments than farming or ranching can provide.

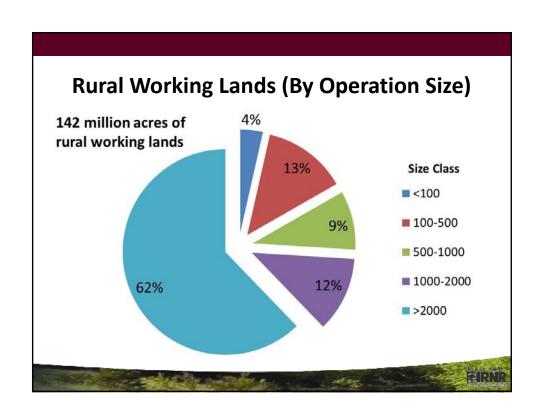


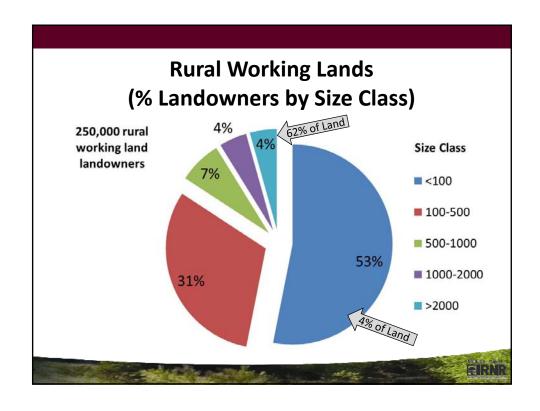
Landowner Demographics

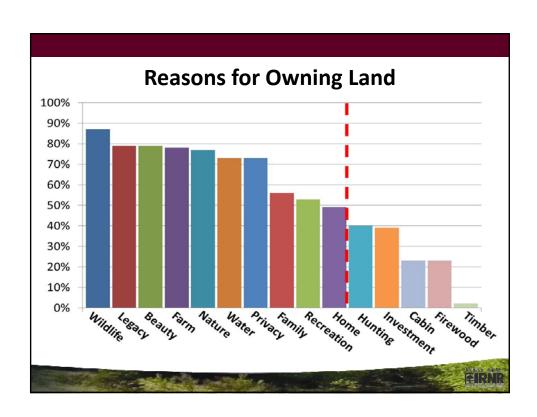
- Absentee ownerships
 - 45% of ownerships
- Part of farm
 - 42% of ownerships
- New ownerships (<10 yrs)
 - 25% of ownerships

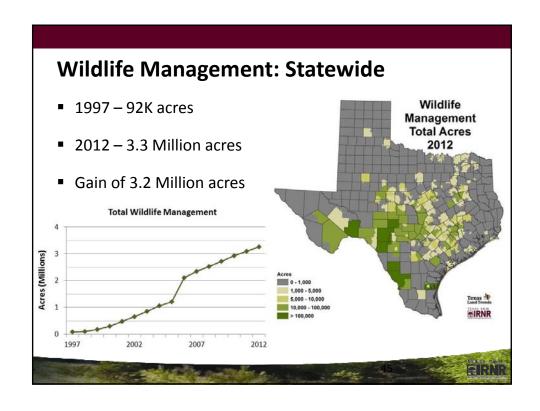


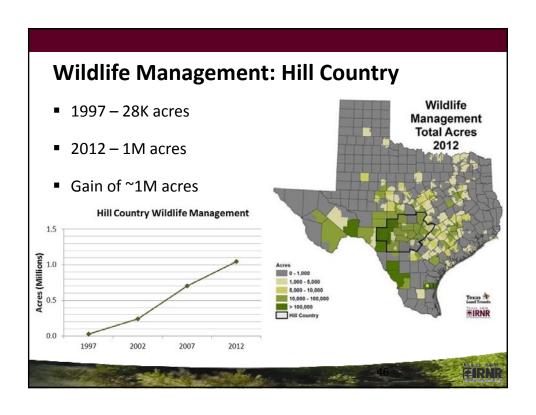


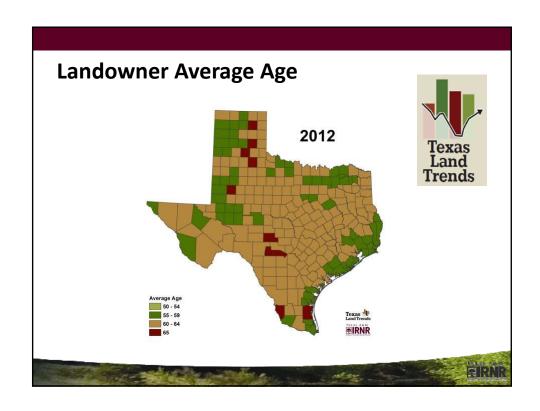


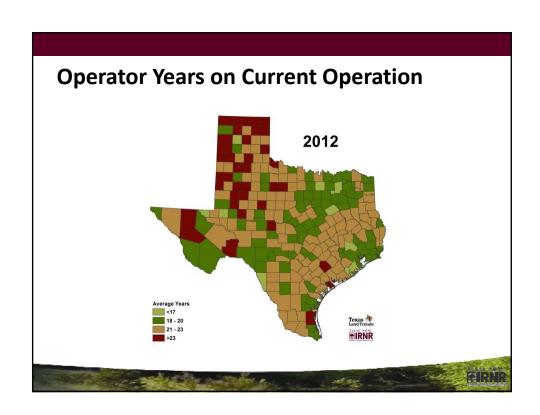


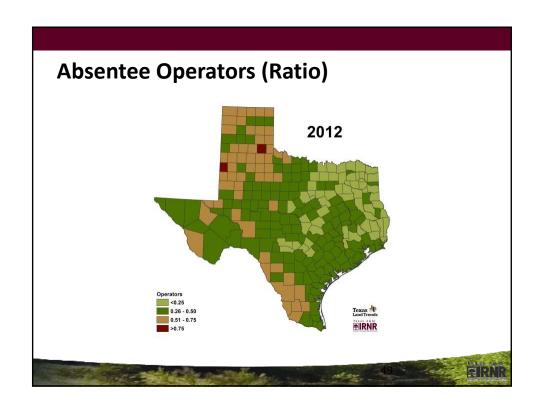


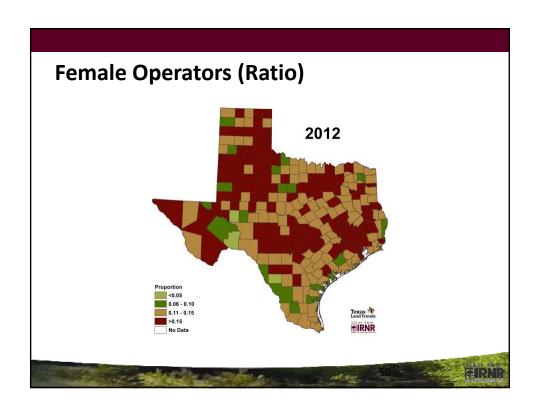






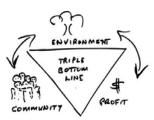






The Challenge...

- Rapid Change in Rural Landscapes. How do we maintain rural lands with increasing human population?
- Different Actors Landowners and Urban Texas. How do we engage broader audience?
- Game Changers Water, T&E, and Energy. How do we balance demands? How do we take these challenges and create opportunities?





The **Grand** Challenges...

- Changing Places Loss of working lands, fragmentation and conversion.
- Changing Perspectives –
 Aging landowners, different objectives, largest intergenerational transfer.
- Changing People Increasing human population, shifts in ethnicity and urban residents.
- Communicate the public benefits of <u>private</u> lands...

