

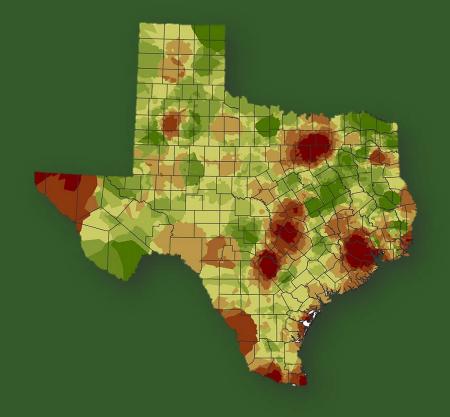








How and Why Texas is Changing



Roel R. Lopez

Value of Rural Lands

- Rural working lands –critical role in providing water, food, energy, and national security
- Effective conservation requires innovative solutions to sustaining private rural working lands.
- Review of data to give a perspective on challenges
 - More people...
 - Less farms and ranches...
 - Changing landowners....
- Opportunities and approaches





Texas Land Trends

Trends in land use (1997-2012)

Primary datasets used

County Appraisal District

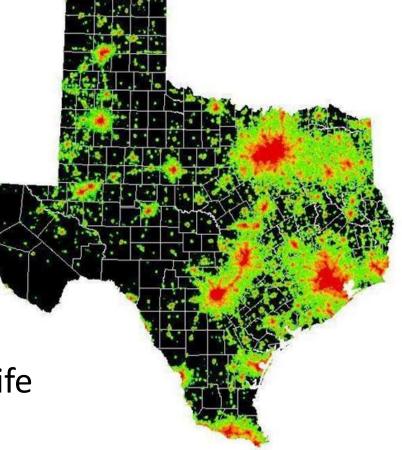
USDA NASS Census of Ag

Texas Landowner Survey

Relationships among

- Land Value
- Land Ownership
- Land Use

 Working Lands – farms, ranches, family forests, wildlife (e.g., 1D, 1D1)



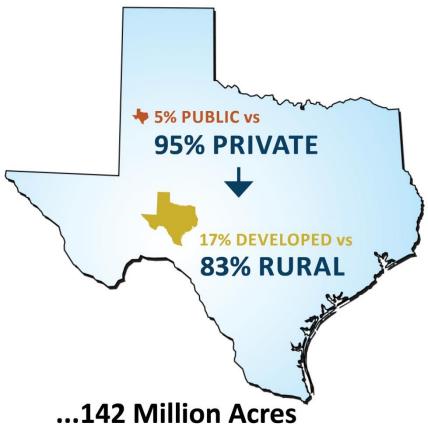


More People....



Changing Texas

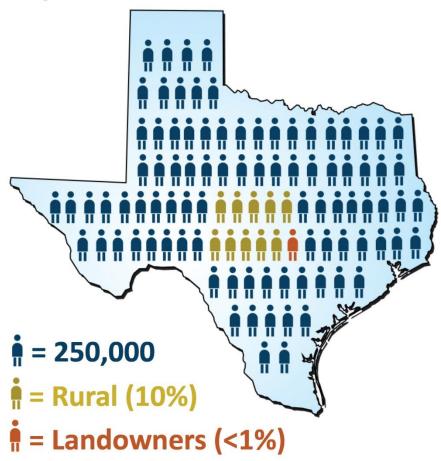
171 Million Acres...



...142 Million Acres

Private Working Lands

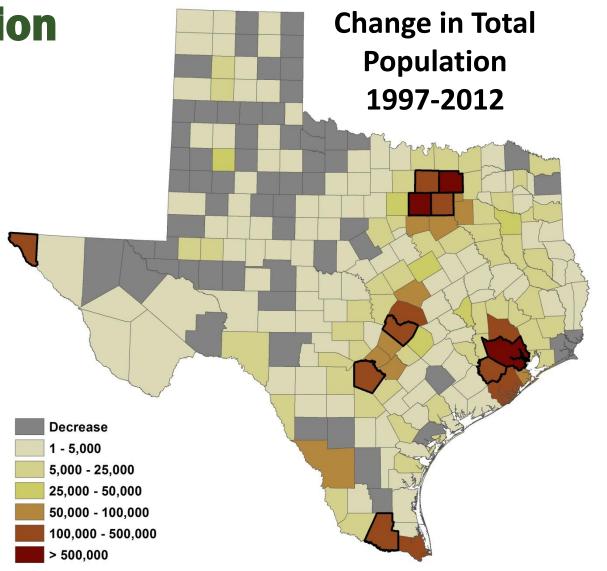
Population: 26 Million...





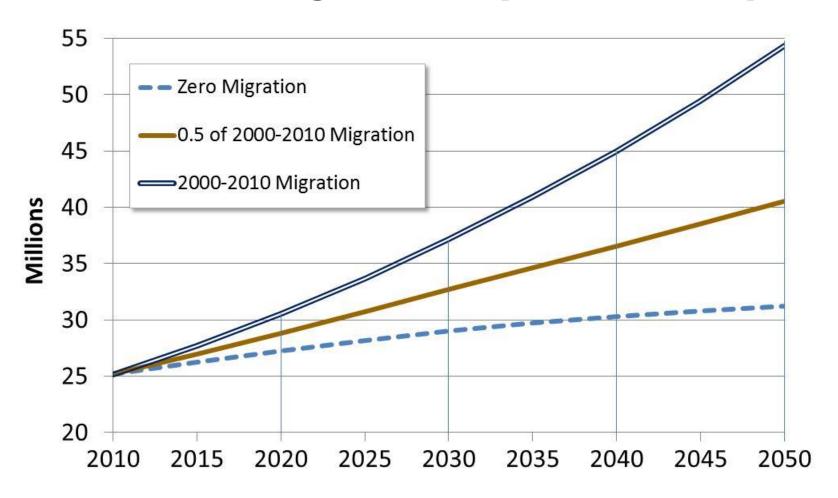
Texas Population

- 1997 19 Million
- 2012 26 Million
- 36% increase
- 500,000/year
- 65% of increase occurred within Top Ten
 Populated
 Counties





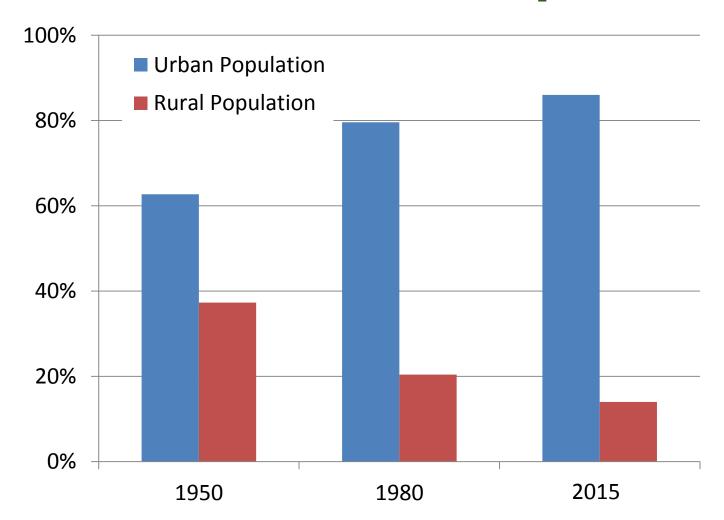
Texas Projections (2010-2050)



Source: State Demographer

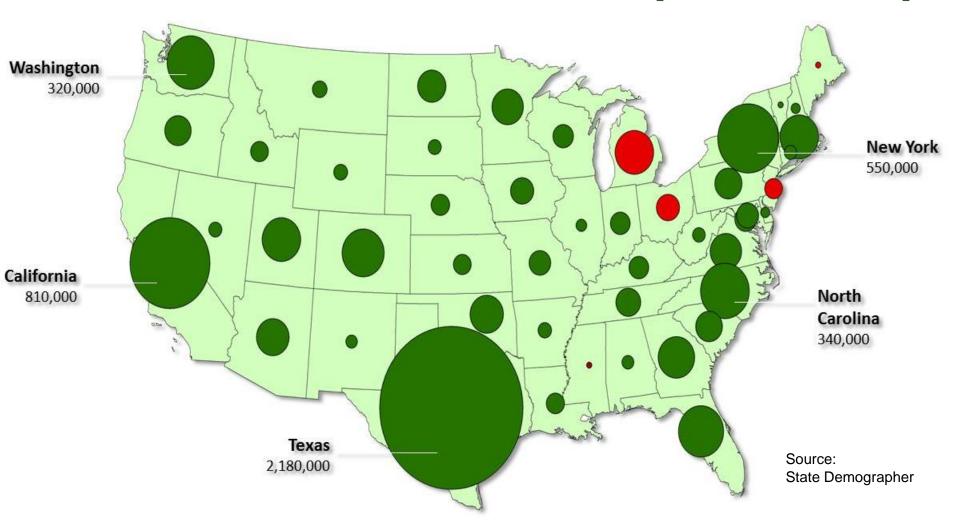


Texas Rural and Urban Populations





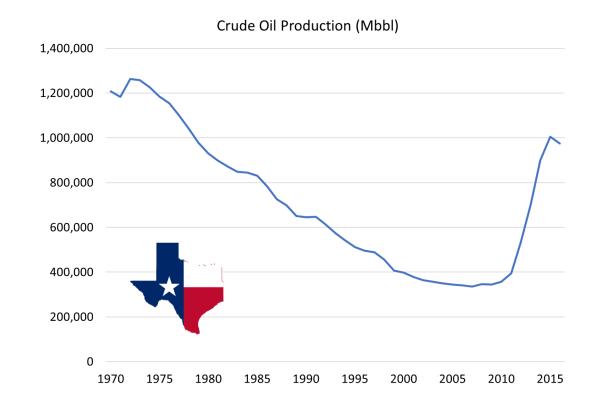
Texas Leads U.S. Job Growth (2004-2014)





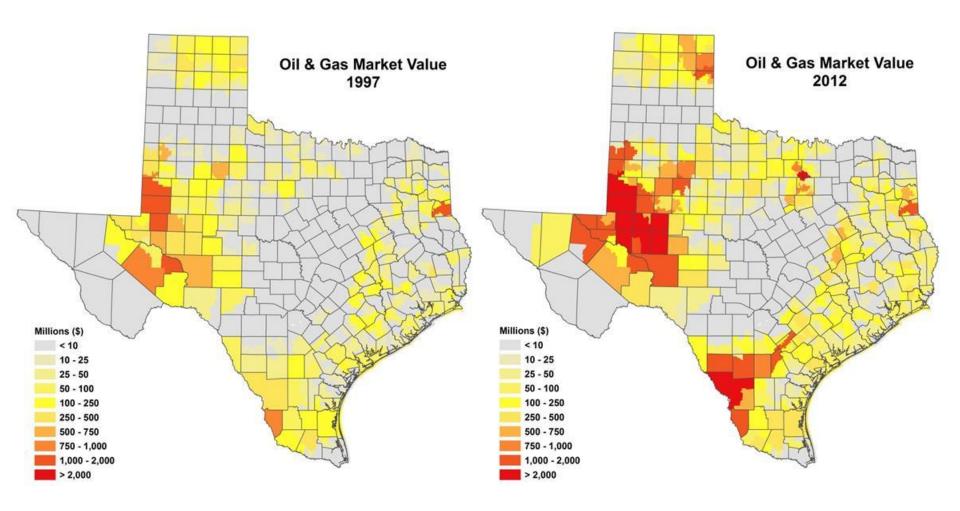
Oil and Gas

- Economic Driver —Texas is leading crude oil production state in part to 3 large shale gas plays
- Eagle FordShale
 - \$87B in revenue (2014)
 - Natural gas
 production has
 doubled and
 oil production
 has increased
 6X.



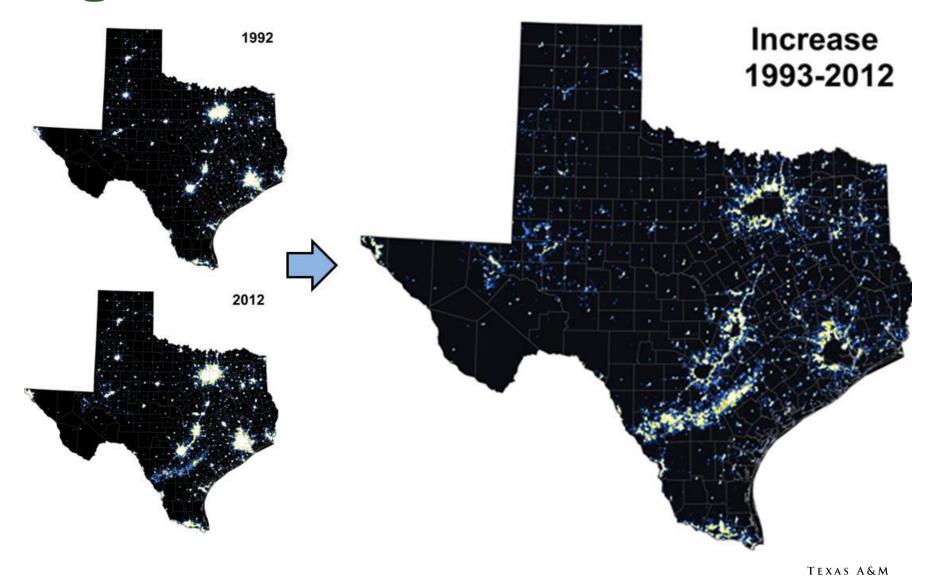


Oil and Gas





Night Time Illumination





Less Farms and Ranches....



Change in Working Lands - Process

Economic growth

Population growth

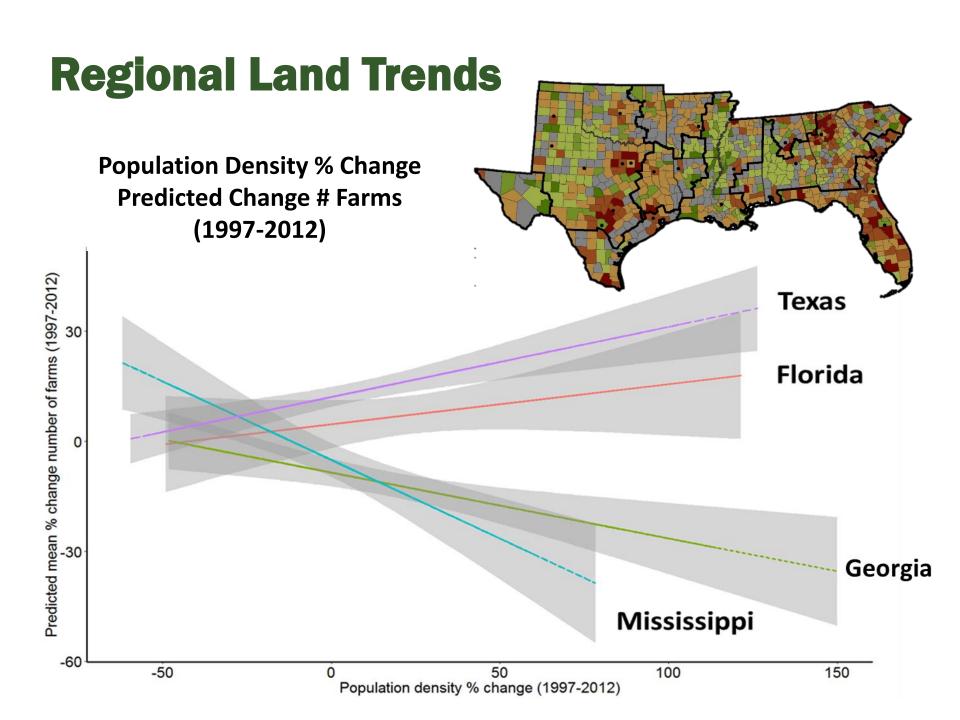
Increased demand for rural land

High land values

to subdivide or sell

Ownership Fragment/Conversion

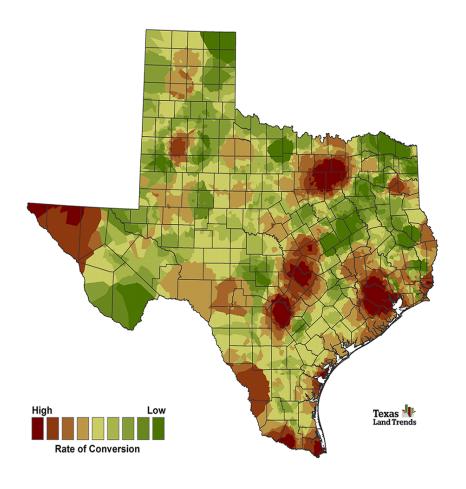




Working Land Loss – Conversion

- 1997 143 Million acres
- 2012 142 Million acres
- Loss ~1 Million acres

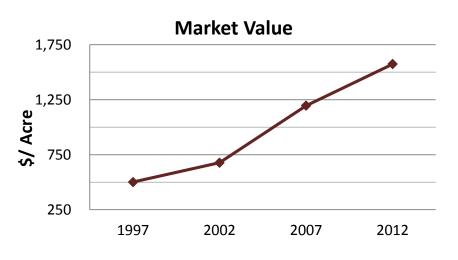


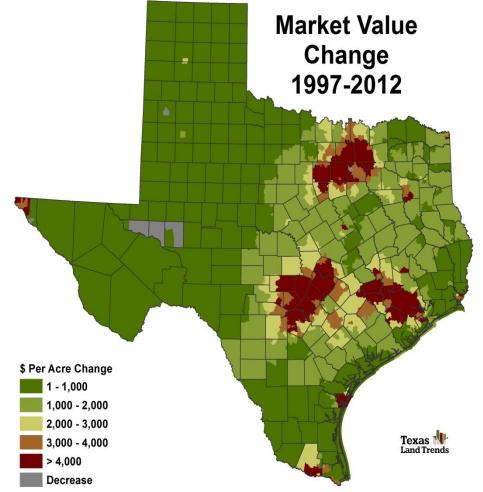




Market Value - Driver

- 1997 \$501/Acre
- 2012 \$1,573/Acre
- Gain of \$1,072/Acre



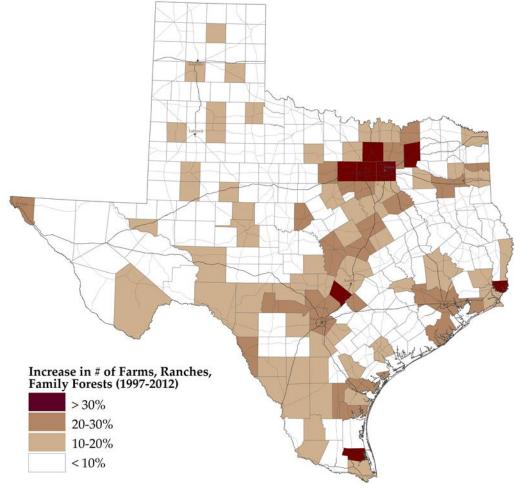




Working Land Loss – Fragmentation

- 25,000+ <u>new</u> farms and ranches (1997-2012)
- 4.5M acres impacted

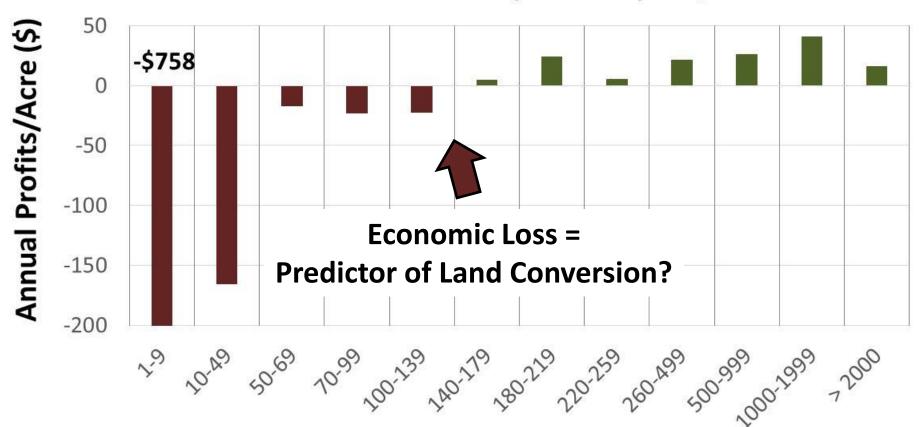






Farm and Ranch Proceeds - Driver

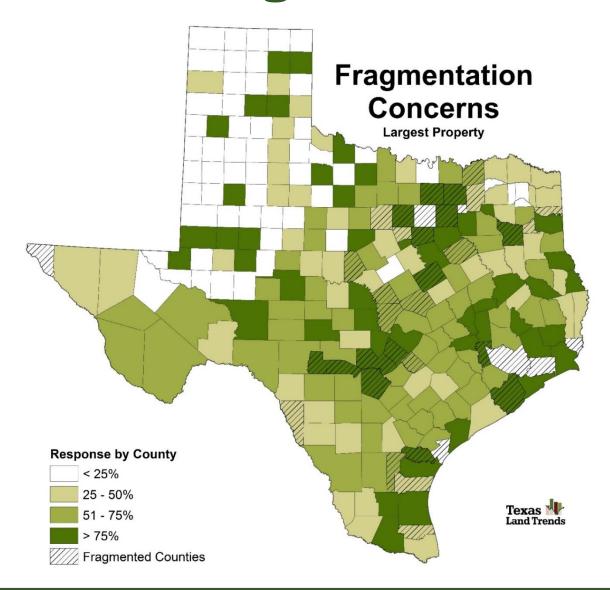
Net Farm and Ranch Proceeds by Ownership Size, 2012



Operation Size (Acres)

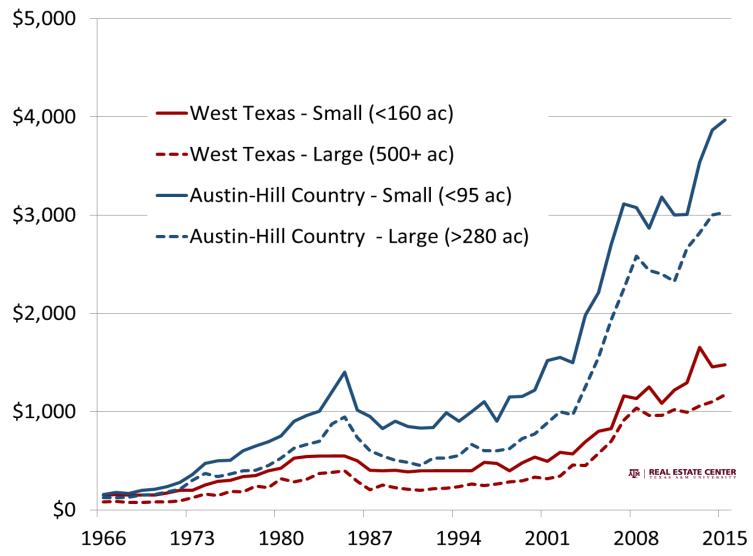


Landowners – Fragmentation Concerns





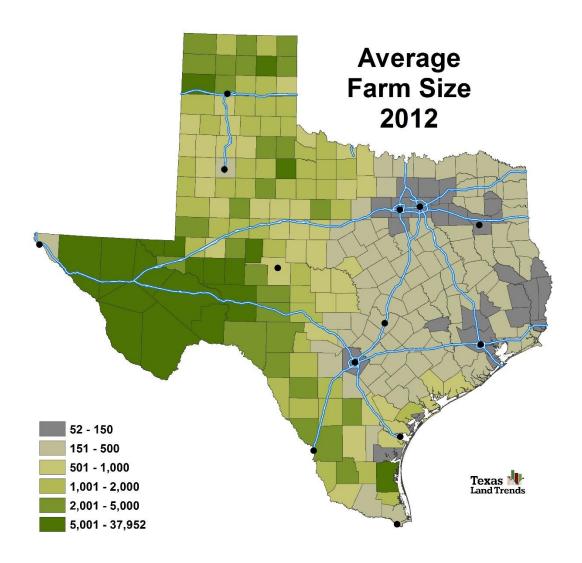
Rural Land Trend Prices (Small vs. Large)





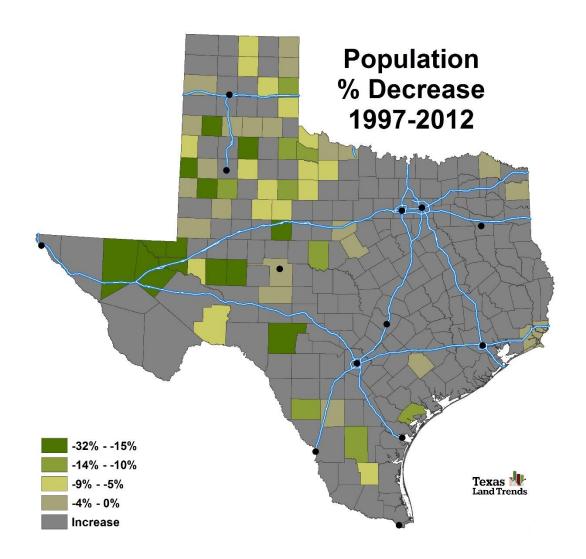


Average Farm Size - Top 25 Counties



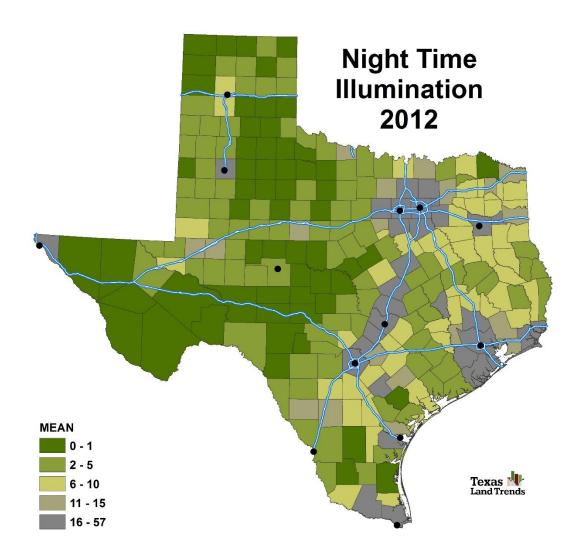


Population Percent Change – Top 25 Counties



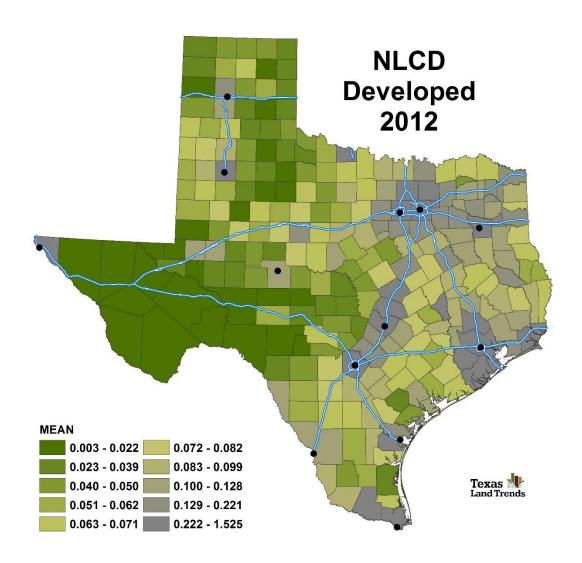


Night Time Illumination – Top 25 Counties





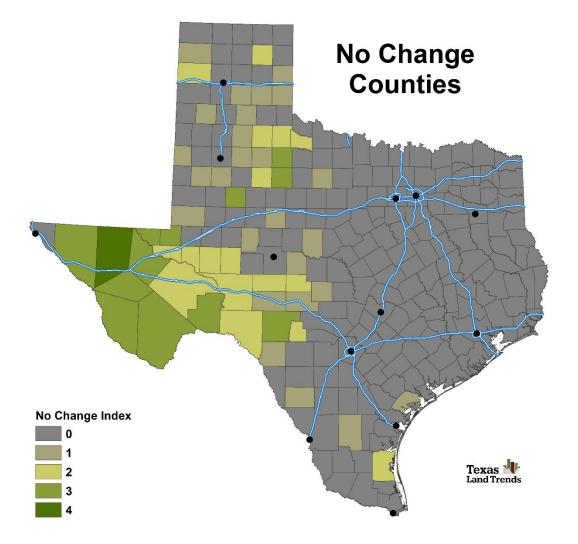
NLCD Developed Lands – Top 25 Counties





No Change Index - Top 25 Counties

- 1. Largest average farm/ranches...
- 2. Largest decrease in population...
- 3. Lowest night time illumination...
- 4. Lowest development...



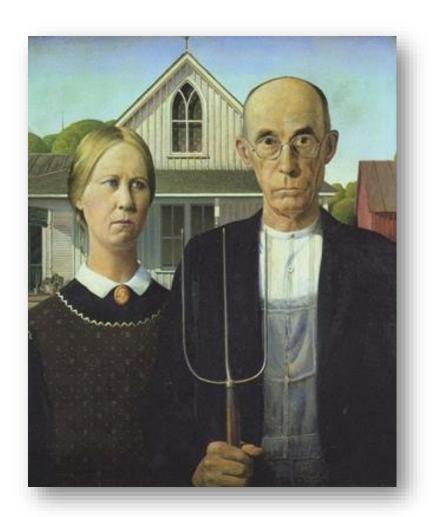


Changing Landowners....



Landowner Demographics

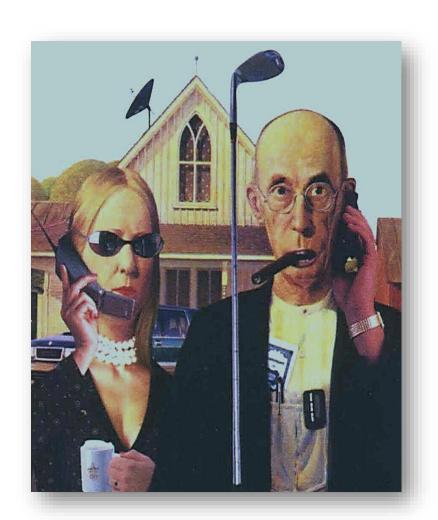
- Average farmer 57 years old
- Average forest landowner – 65 years old.
- In the next 20 years,
 U.S. will see the largest intergenerational transfer of rural lands in its history.





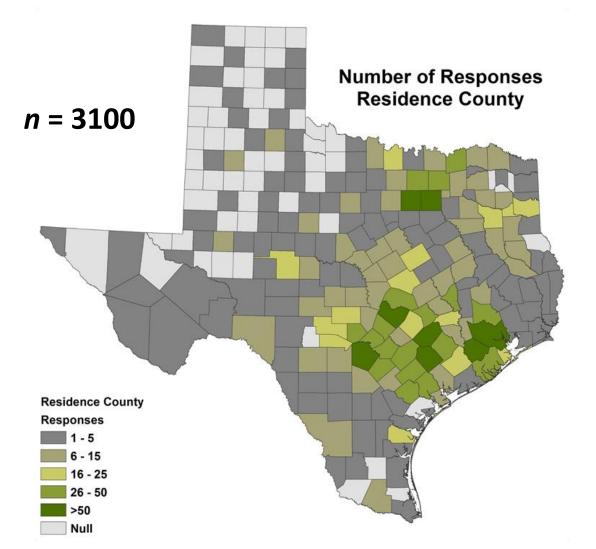
Future Texas Landowner?

- Younger generation less tied to the land.
- Goals and objectives the same? Concerns?
 - New Ownership (25%)Owned <10 years
 - Absentee Ownership (40%)
- Texas Landowner Survey attempts to understand some of these trends.
 - Age, Tie-to-Land, Purpose





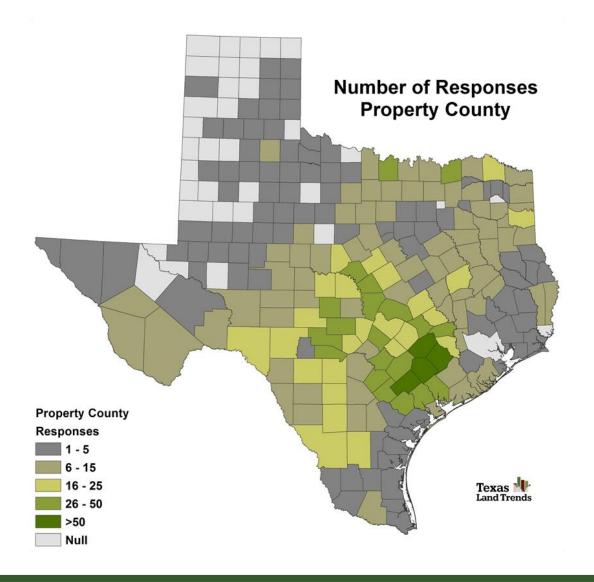
Questionnaire Overview



- Web-based questionnaire
 - Goal: Better serve landowners/meet needs
- Divided into 4 topic areas:
 - Landowner demographics
 - Land management
 - Landowner concerns
 - LandLoss/Fragmentation
- Almost all Texas counties (84%) represented

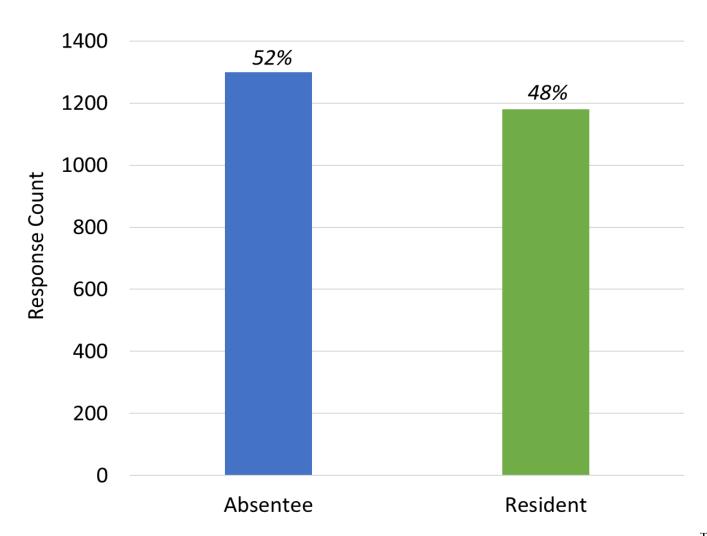


County of Largest Property



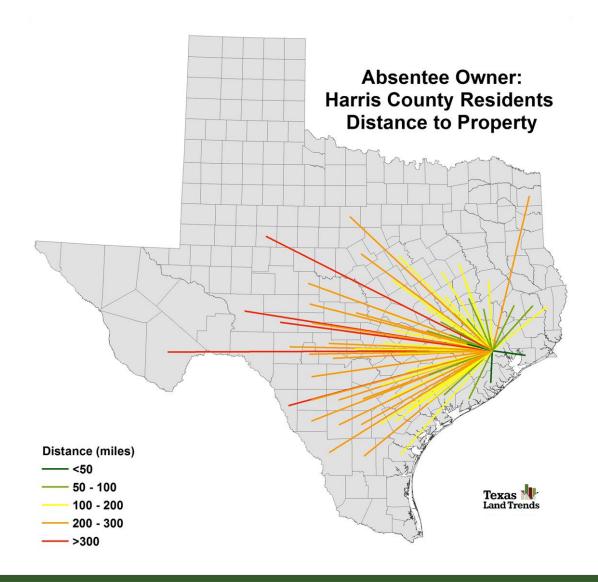


Questionnaire Responses by Type



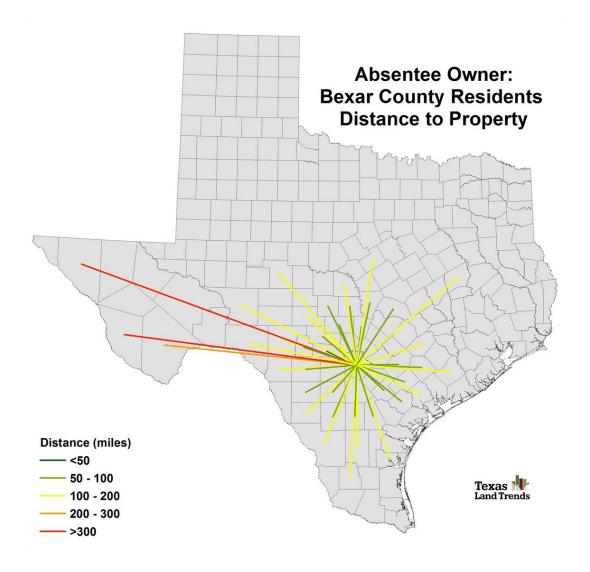


Average Distance from Houston



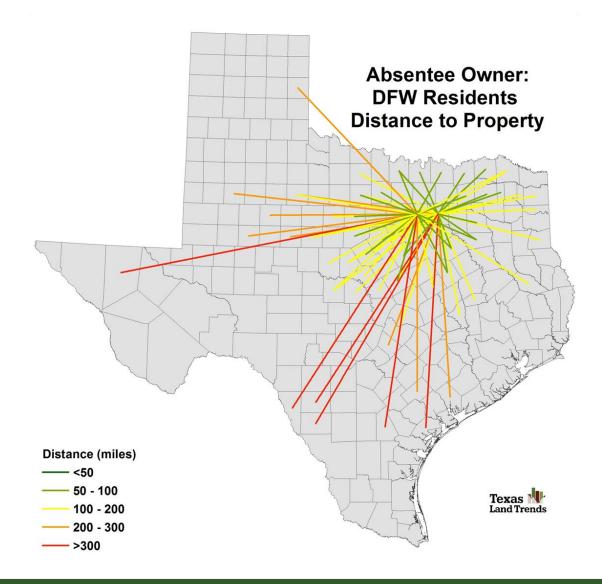


Average Distance from San Antonio



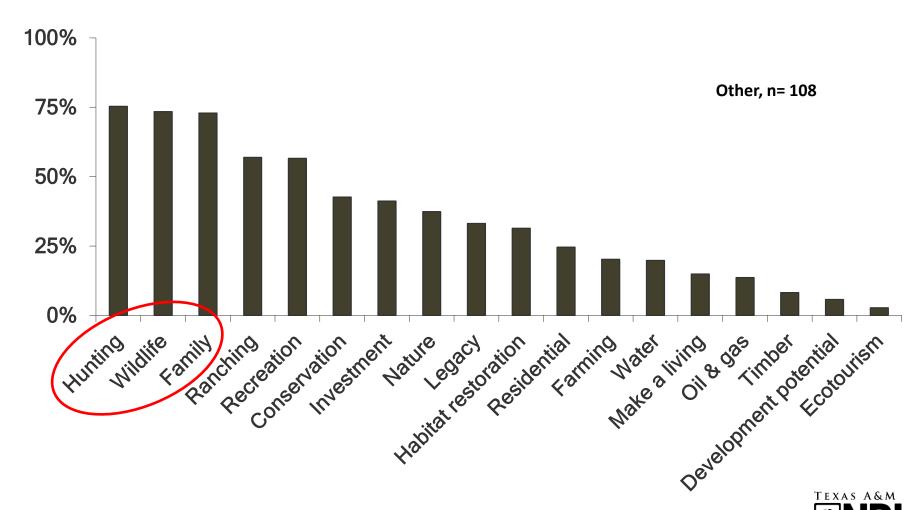


Average Distance from Dallas-Ft Worth

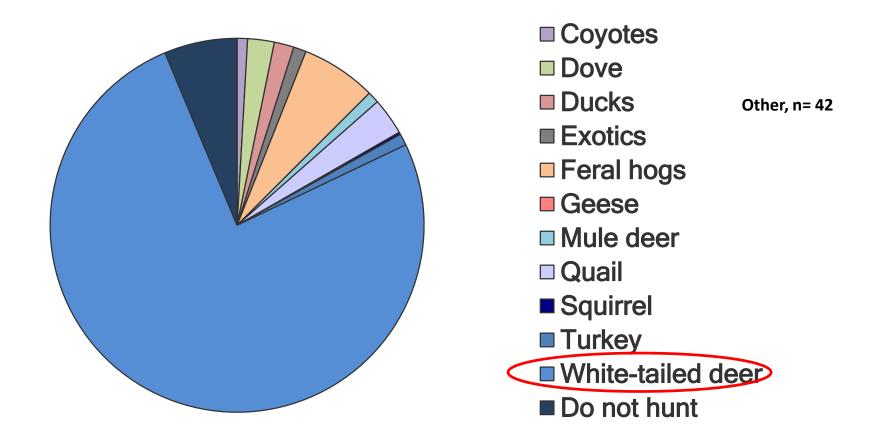




Which of the following reasons for owning land apply to you?



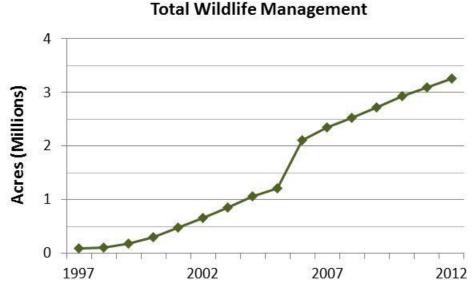
Primary wildlife species of interest?

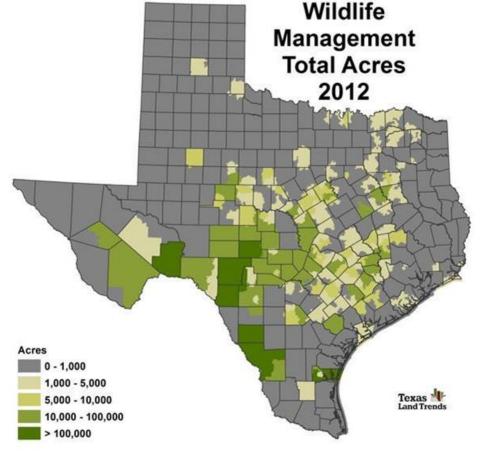




Wildlife Valuation Trends

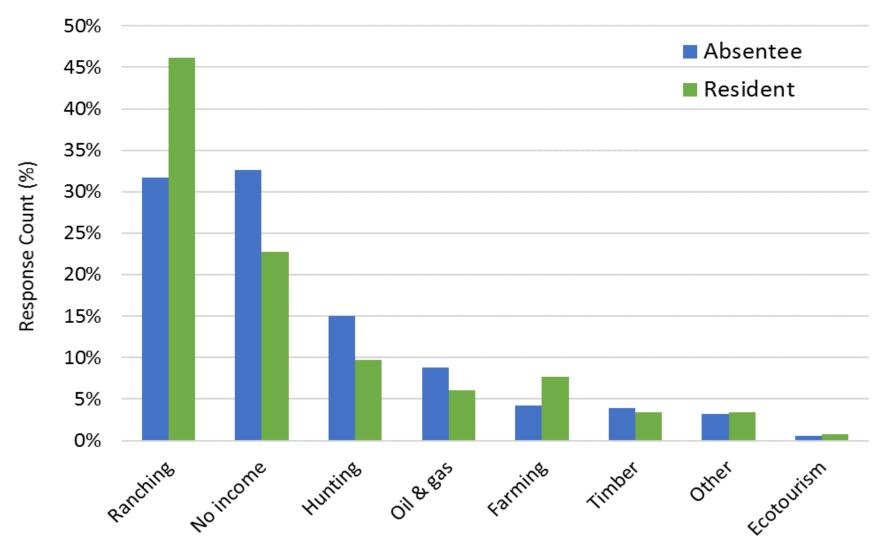
- 1997 92K acres
- 2012 3.3 Million acres
- Gain of 3.2 Million acres





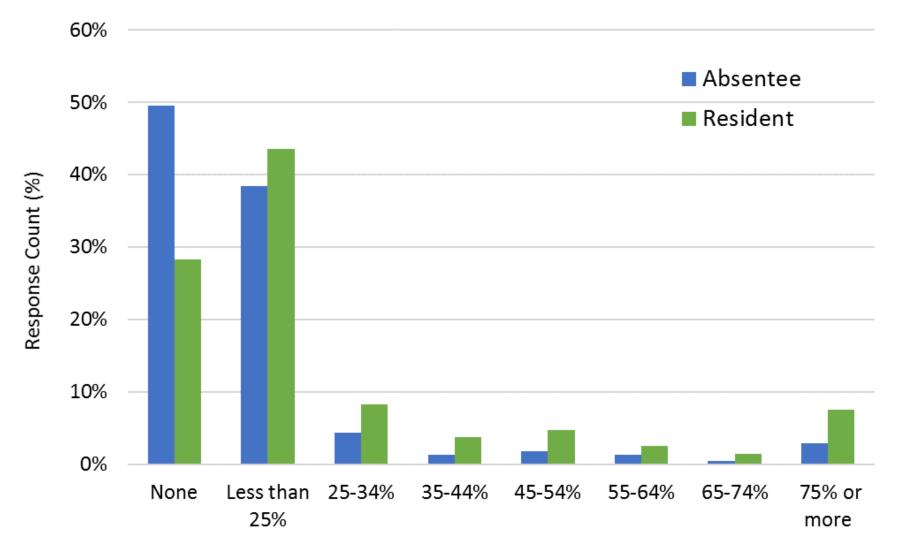


Sources of income from property?



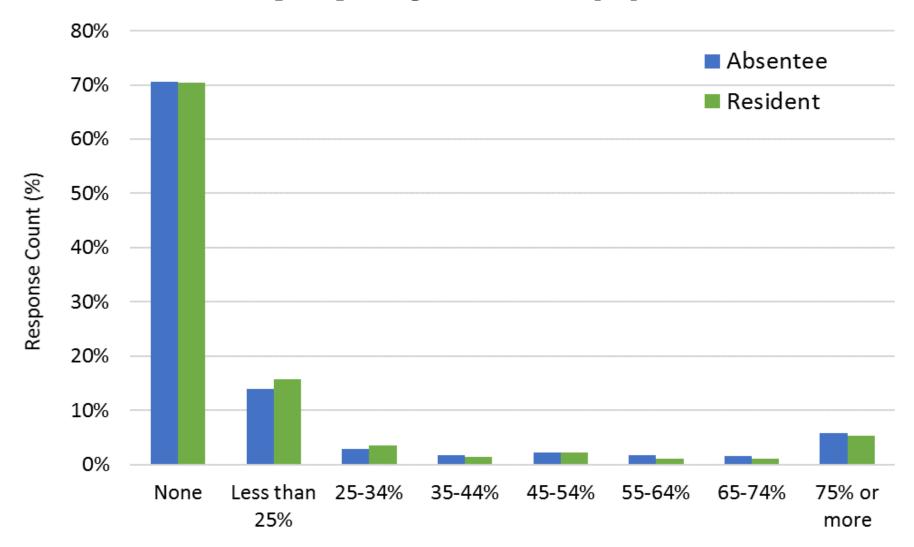


How much of annual income (%) from property?



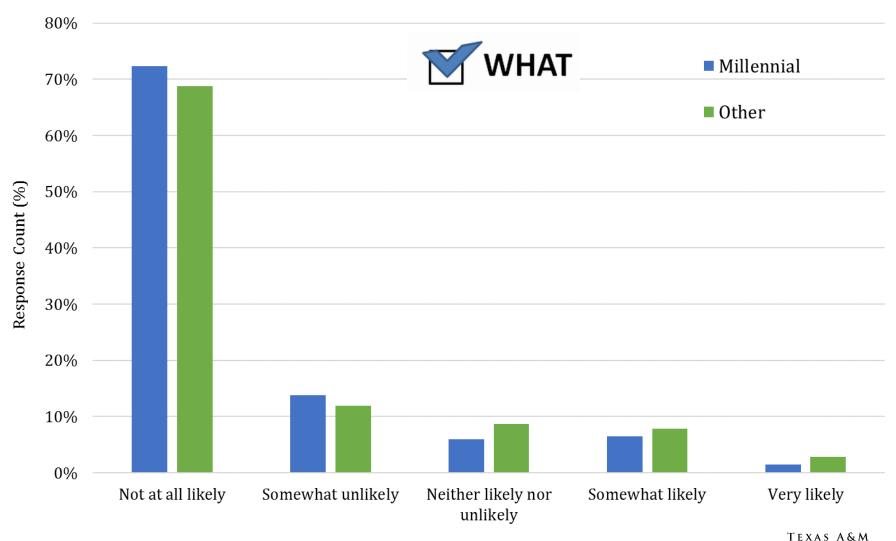


How much of property income (%) from wildlife?

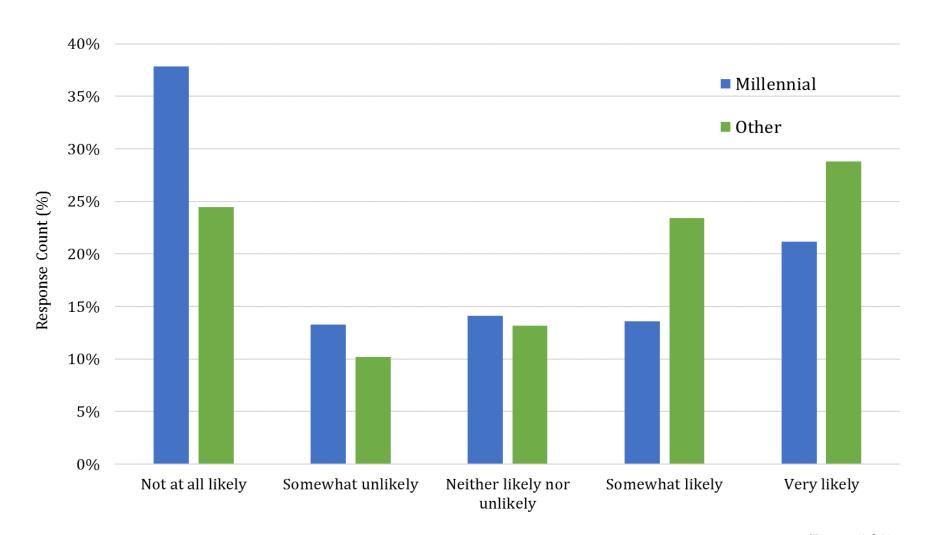




In the next 10 years, how likely are you to... sell your land?



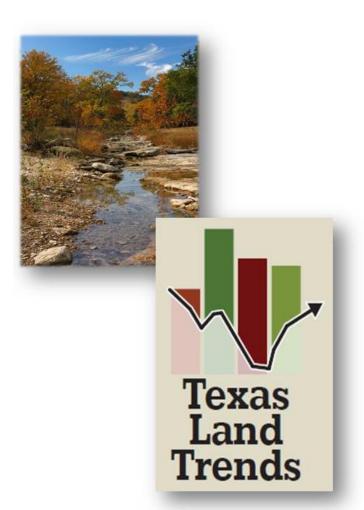
In the next 10 years, how likely are you to... transfer your land to family/loved one?





Final Thoughts...

- More People Increasing human population, shifts in ethnicity and urban residents.
- Impacts to Farms and Ranches Loss of working lands, fragmentation and conversion BUT not in all places...
- Changing Landowner
 Perspectives Aging
 landowners, different objectives,
 largest intergenerational transfer.
- Communicate the public benefits of private lands...





Promoting Private Lands Stewardship through Research, Education, and Policy.



http://nri.tamu.edu/ http://txlandtrends.org/

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