

Housing Needs Assessment
Tillman County

Prepared For:

Oklahoma Housing Finance Agency
Oklahoma Department of Commerce
100 NW 63rd Street, Ste. 200
Oklahoma City, OK 73116

Effective Date of the Analysis:

December 7, 2015

This "Statewide Affordable Housing Market Study" was financed in whole or in part by funds from the U.S. Department of Housing and Urban Development as administered by the Oklahoma Department of Commerce and Oklahoma Housing Finance Agency.





December 31, 2015

Mr. Dennis Shockley, Executive Director
Oklahoma Housing Finance Agency
100 NW 63rd Street, Ste. 200
Oklahoma City, OK 73116

SUBJECT: Housing Needs Assessment
 Tillman County
 IRR - Tulsa/OKC File No. 140-2015-0084

Dear Mr. Shockley:

As per our Agreement with Oklahoma Housing Finance Agency (OHFA), we have completed a residential housing market analysis (the "Analysis") for use by OHFA and the Oklahoma Department of Commerce (ODOC). Per our Agreement, OHFA and ODOC shall have unrestricted authority to publish, disclose, distribute and otherwise use, in whole or in part, the study and reports, data or other materials included in the Analysis or otherwise prepared pursuant to the Agreement and no materials produced in whole, or in part, under the Agreement shall be subject to copyright in the United States or any other country. Integra Realty Resources – Tulsa/OKC will cause the Analysis (or any part thereof) and any other publications or materials produced as a result of the Agreement to include substantially the following statement on the first page of said document:

This "Statewide Affordable Housing Market Study" was financed in whole or in part by funds from the U.S. Department of Housing and Urban Development as administered by the Oklahoma Department of Commerce and Oklahoma Housing Finance Agency.

Attached hereto, please find the Tillman County Residential Housing Market Analysis. Owen S. Ard, MAI personally inspected the Tillman County area during the month of December 2015 to collect the data used in the preparation of the Tillman County Market Analysis. The University of Oklahoma College of Architecture Division of Regional and City Planning provided consultation, assemblage and analysis of the data for IRR-Tulsa/OKC.

Mr. Dennis Shockley
Oklahoma Housing Finance Agency
December 31, 2015
Page 2

This market study is true and correct to the best of the professional's knowledge and belief, and there is no identity of interest between Owen S. Ard, MAI, David A. Puckett, or Integra Realty Resources – Tulsa/OKC and any applicant, developer, owner or developer.

If you have any questions or comments, please contact the undersigned. Thank you for the opportunity to be of service.

Respectfully submitted,

Integra Realty Resources - Tulsa/OKC

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Table of Contents

Introduction and Executive Summary	1	Housing Units Number of Bedrooms and Tenure	30
General Information	4	Housing Units Tenure and Household Income	30
Purpose and Function of the Market Study	4	Housing Units by Year of Construction and Tenure	31
Effective Date of Consultation	4	Substandard Housing	32
Scope of the Assignment	4	Vacancy Rates	33
Data Sources	4	Building Permits	34
Tillman County Analysis	6	New Construction Activity	35
Area Information	6	Homeownership Market	36
Access and Linkages	6	Housing Units by Home Value	36
Educational Facilities	7	Tillman County Median Home Values by Census Tract	37
Medical Facilities	7	Home Values by Year of Construction	38
Demographic Analysis	10	Frederick Single Family Sales Activity	38
Population and Households	10	Foreclosure Rates	39
Population by Race and Ethnicity	11	Rental Market	41
Population by Age	11	Gross Rent Levels	41
Families by Presence of Children	13	Frederick Rental Survey Data	42
Population by Presence of Disabilities	14	Summary of HUD Subsidized Properties	43
Group Quarters Population	16	Projected Housing Need	48
Household Income Levels	17	Consolidated Housing Affordability Strategy (CHAS)	48
Household Income Trend	18	Cost Burden by Income Threshold	48
Poverty Rates	19	Substandard Conditions / Overcrowding by Income Threshold	50
Economic Conditions	20	Cost Burden by Household Type	53
Employment and Unemployment	20	Housing Problems by Household Type	55
Employment Level Trends	20	Housing Problems by Race / Ethnicity	57
Unemployment Rate Trends	21	CHAS Conclusions	59
Employment and Wages by Industrial Supersector	22	Overall Anticipated Housing Demand	61
Working Families	26	Frederick Anticipated Demand	61
Major Employers	26	Tillman County Anticipated Demand	61
Commuting Patterns	27		
Housing Stock Analysis	29		
Existing Housing Units	29		
Housing by Units in Structure	29		



Table of Contents

Special Topics	63
Tillman County Disaster Resiliency Assessment	64
C.2.1.2; C.2.1.6; C.2.1.7;C.2.1.8 Shelters from Disaster Event	70
C.2.1.3 Public Policy and Governance to Build Disaster Resiliency	70
C.2.1.4 Local Emergency Response Agency Structure	70
C.2.1.5 Threat & Hazard Warning Systems Social Vulnerability	70
Homelessness	76
By Continuum of Care	76
A Snap Shot of Homelessness in the State	79
Rural Areas	83
At Risk For Homelessness	85
Findings and Recommendations	87
Fair Housing	90
Summary	90
Key Findings:	90
Recommendations:	90
Appendix 1: County affordable housing Summaries	105
Lead-Based Paint Hazards	109
Tillman County Findings	111
Conclusions	122
Addenda	
A. Acknowledgments	
B. Qualifications	

Introduction and Executive Summary

This report is part of a Statewide Affordable Housing Market Study commissioned by the Oklahoma Department of Commerce (ODOC) in partnership with the Oklahoma Housing Finance Agency (OHFA), as an outgrowth of the 2013 tornado outbreak in Oklahoma. It was funded by the U.S. Department of Housing and Urban Development (USHUD) through the Community Development Block Grant – Disaster Recovery program (CDBG-DR). This study was conducted by a public/private partnership between Integra Realty Resources – Tulsa/OKC, the University of Oklahoma College of Architecture, Division of Regional and City Planning, and DeBruler Inc. IRR-Tulsa/OKC, The University of Oklahoma, and DeBruler Inc. also prepared a prior statewide study in 2001, also commissioned by ODOC in partnership with OHFA.

This study is a value-added product derived from the original 2001 statewide housing study that incorporates additional topics and datasets not included in the 2001 study, which impact affordable housing throughout the state. These topic areas include:

- Disaster Resiliency
- Homelessness
- Assessment of Fair Housing
- Evaluation of Residential Lead-Based Paint Hazards

These topics are interrelated in terms of affordable housing policy, housing development, and disaster resiliency and recovery. Homeless populations are more vulnerable in the event of a disaster, as are many of the protected classes under the Fair Housing Act. Lead-based paint is typically more likely to be present in housing units occupied by low-to-moderate income persons, and can also present an environmental hazard in the wake of a disaster. Effective affordable housing policy can mitigate the impact of natural and manmade disasters by encouraging the development and preservation of safe, secure, and disaster-resilient housing for Oklahoma’s most vulnerable populations.

Housing Market Analysis Specific Findings:

1. The population of Tillman County is projected to decline by -0.70% per year over the next five years.
2. Median Household Income in Tillman County is estimated to be \$36,317 in 2015, compared with \$47,049 estimated for the State of Oklahoma. The poverty rate in Tillman County is estimated to be 20.22%, compared with 16.85% for Oklahoma.
3. Homeowner and rental vacancy rates in Tillman County are higher than the state averages.
4. Home values and rental rates in Tillman County are significantly lower than the state averages.
5. Average sale price for homes in Frederick was \$43,255 in 2015, with an average price per square foot of \$27.50. The average year of construction for homes sold in 2015 is estimated to be 1956.
6. Approximately 22.88% of renters and 16.10% of owners are housing cost overburdened.

Disaster Resiliency Specific Findings:

1. Create a shelter registry for location of individual and business-based shelters (online or paper)
2. Tornadoes (1959-2014): Number: 74 Injuries: 138 Fatalities: 12 Damages (1996-2014): \$760,000.00
3. Social Vulnerability: Above the state score; at the census tract level, the Frederick area and western portion of the county have particularly higher scores
4. Floodplain: updated flood maps not available; National Climatic Data Center storm event statistics record 12 flooding events in Tillman County during 1995-2007. The reported damage totaled \$1.262 million

Homelessness Specific Findings

1. Tillman County is located in the Southwest Oklahoma Continuum of Care.
2. There are an estimated 239 homeless individuals in this area, 177 of which are identified as sheltered.
3. There are at least 8 homeless households comprised of children only.
4. There is also a high homeless veteran population (25) in this region.
5. Investment should be made for more temporary and permanent housing for homeless veterans.

Fair Housing Specific Findings

1. No fair housing issues noted.

Lead-Based Paint Specific Findings

1. We estimate there are 812 occupied housing units in Tillman County with lead-based paint hazards.
2. 443 of those housing units are estimated to be occupied by low-to-moderate income households.
3. We estimate that 80 of those low-to-moderate income households have children under the age of 6 present.

Report Format and Organization

The first section of this report comprises the housing market analysis for Tillman County. This section is divided into general area information, followed by population, household and income trends and analysis, then followed by area economic conditions. The next area of analysis concerns the housing stock of Tillman County, including vacancy rates, construction activity and trends, and analyses of the homeowner and rental markets. This section is followed by five-year forecasts of housing need for owners and renters, as well as specific populations such as low-to-moderate income households, the elderly, and working families.

The next section of this report addresses special topics of concern:

- Disaster Resiliency
- Homelessness

- Fair Housing
- Lead-Based Paint Hazards

This last section is followed by a summary of the conclusions of this report for Tillman County.

General Information

Purpose and Function of the Market Study

The purpose of this market study is to evaluate the need for affordable housing units in Tillman County, Oklahoma. The analysis will consider existing supply and projected demand and overall market trends in the Tillman County area.

Effective Date of Consultation

The Tillman County area was inspected and research was performed during December, 2015. The effective date of this analysis is December 7, 2015. The date of this report is December 31, 2015. The market study is valid only as of the stated effective date or dates.

Scope of the Assignment

1. The Tillman County area was inspected during December, 2015. The inspection included visits to all significant population centers in the county and portions of the rural county areas.
2. Regional, city and neighborhood data is based on information retained from national, state, and local government entities; various Chambers of Commerce, news publications, and other sources of economic indicators.
3. Specific economic data was collected from all available public agencies. Population and household information was collected from national demographic data services as well as available local governments. Much data was gathered regarding market specific items from personal interviews.
4. Development of the applicable analysis involved the collection and interpretation of verified data from local property owners/managers, realtors, and other individuals active within the area real estate market.
5. The analyst's assemblage and analysis of the defined data provided a basis from which conclusions as to the supply of and demand for residential housing were made.

Data Sources

Specific data sources used in this analysis include but are not limited to:

1. The 2000 and 2010 Decennial Censuses of Population and Housing
2. The 2009-2013 American Community Survey (ACS)
3. U.S. Census Bureau Residential Construction Branch, Manufacturing and Construction Division
4. The United States Department of Labor, Bureau of Labor Statistics, including the Local Area Unemployment Statistics and the Quarterly Census of Employment and Wages programs
5. The U.S. Department of Housing and Urban Development, including the Comprehensive Housing Affordability Strategy (CHAS), and the 2013 Picture of Subsidized Households
6. Continuum of Care Assistance Programs

7. The National Oceanic and Atmospheric Administration
8. Nielsen SiteReports (formerly known as Claritas)
9. The Oklahoma State Department of Health
10. The Oklahoma Department of Human Services
11. The Federal Reserve Bank of Kansas City, Oklahoma City Branch
12. The Federal Reserve Bank of New York



Tillman County Analysis

Area Information

The purpose of this section of the report is to provide a basis for analyzing and estimating trends relating to Tillman County. The primary emphasis is concentrated on those factors that are of significance to residential development users. Residential and commercial development in the community is influenced by the following factors:

1. Population and economic growth trends.
2. Existing commercial supply and activity.
3. Natural physical elements.
4. Political policy and attitudes toward community development.

Location

Tillman County is located in Southwest Oklahoma. The county is bordered on the north by Jackson, Kiowa, and Comanche counties, on the west by Jackson County, on the south by Texas, and on the east by Comanche and Cotton counties. The Tillman County Seat is Frederick, which is located in the central part of the county. This location is approximately 237 miles southwest of Tulsa and 133 miles southwest of Oklahoma City.

Tillman County has a total area of 879 square miles (871 square miles of land, and 8 square miles of water), ranking 35th out of Oklahoma's 77 counties in terms of total area. The total population of Tillman County as of the 2010 Census was 7,992 persons, for a population density of 9 persons per square mile of land.

Access and Linkages

The county has average accessibility to state and national highway systems. Multiple major highways intersect within Tillman. These are US-183, US-70, OK-5C, OK-5, OK-54, OK-36, and OK-54. The nearest interstate highway is I-44, which is located east of the county. The county also has an intricate network of county roadways.

Public transportation is provided by Red River Transportation, which operates a demand-response service throughout the county. The local market perceives public transportation as average compared to other communities in the region of similar size. However, the primary mode of transportation in this area is private automobiles by far.

Frederick Regional Airport is located just east of Frederick. The airport operates four primary concrete and asphalt runways measuring 6,099, 4,812, 4,578, and 3,180 feet in length and averages 174 aircraft operations per day (almost all military in nature). The nearest full-service commercial airport is the Wichita Falls Regional Airport, located 58.2 miles southeast in Wichita Falls.

Educational Facilities

All of the county communities have public school facilities. Frederick is served by Frederick Public Schools which operates one high school, one middle school, and one elementary school. Higher education offerings in Frederick include the Wayland Baptist University and the Western Oklahoma State College in Altus, located 34.8 miles northwest.

Medical Facilities

Medical services are provided by Memorial Hospital and Physicians Group, a critical-care hospital offering surgical, emergency, and in and outpatient's services. The smaller county communities typically have either small outpatient medical services or doctor's officing in the community.

Tillman County Area Map



Demographic Analysis

Population and Households

The following table presents population levels and annualized changes in Tillman County and Oklahoma. This data is presented as of the 2000 Census, the 2010 Census, with 2015 and 2020 estimates and forecasts provided by Nielsen SiteReports.

Population Levels and Annual Changes							
	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Frederick	4,637	3,940	-1.62%	3,760	-0.93%	3,674	-0.46%
Tillman County	9,287	7,992	-1.49%	7,554	-1.12%	7,295	-0.70%
State of Oklahoma	3,450,654	3,751,351	0.84%	3,898,675	0.77%	4,059,399	0.81%

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

The population of Tillman County was 7,992 persons as of the 2010 Census, a -1.49% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Tillman County to be 7,554 persons, and projects that the population will show -0.70% annualized decline over the next five years. The population of Tillman County has declined in every decennial census since 1930 and this trend is expected to continue in the near term.

The population of Frederick was 3,940 persons as of the 2010 Census, a -1.62% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Frederick to be 3,760 persons, and projects that the population will show -0.46% annualized decline over the next five years.

The next table presents data regarding household levels in Tillman County over the same periods of time. This data is presented both for all households (family and non-family) as well as family households alone.

Households Levels and Annual Changes							
Total Households	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Frederick	1,797	1,568	-1.35%	1,518	-0.65%	1,498	-0.26%
Tillman County	3,594	3,216	-1.11%	3,065	-0.96%	2,976	-0.59%
State of Oklahoma	1,342,293	1,460,450	0.85%	1,520,327	0.81%	1,585,130	0.84%
Family Households	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Frederick	1,212	1,020	-1.71%	995	-0.50%	984	-0.22%
Tillman County	2,486	2,136	-1.51%	2,033	-0.98%	1,976	-0.57%
State of Oklahoma	921,750	975,267	0.57%	1,016,508	0.83%	1,060,736	0.86%

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

As of 2010, Tillman County had a total of 3,216 households, representing a -1.11% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Tillman County to have 3,065

households. This number is expected to experience a -0.59% annualized rate of decline over the next five years.

As of 2010, Frederick had a total of 1,568 households, representing a -1.35% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Frederick to have 1,518 households. This number is expected to experience a -0.26% annualized rate of decline over the next five years.

Population by Race and Ethnicity

The next table presents data regarding the racial and ethnic composition of Tillman County based on the U.S. Census Bureau's American Community Survey.

2013 Population by Race and Ethnicity

Single-Classification Race	Frederick		Tillman County	
	No.	Percent	No.	Percent
Total Population	3,898		7,898	
White Alone	3,067	78.68%	6,106	77.31%
Black or African American Alone	309	7.93%	655	8.29%
Amer. Indian or Alaska Native Alone	99	2.54%	191	2.42%
Asian Alone	10	0.26%	31	0.39%
Native Hawaiian and Other Pac. Isl. Alone	0	0.00%	4	0.05%
Some Other Race Alone	223	5.72%	366	4.63%
Two or More Races	190	4.87%	545	6.90%
Population by Hispanic or Latino Origin	Frederick		Tillman County	
	No.	Percent	No.	Percent
Total Population	3,898		7,898	
Hispanic or Latino	1,270	32.58%	1,841	23.31%
<i>Hispanic or Latino, White Alone</i>	828	65.20%	1,079	58.61%
<i>Hispanic or Latino, All Other Races</i>	442	34.80%	762	41.39%
Not Hispanic or Latino	2,628	67.42%	6,057	76.69%
<i>Not Hispanic or Latino, White Alone</i>	2,239	85.20%	5,027	82.99%
<i>Not Hispanic or Latino, All Other Races</i>	389	14.80%	1,030	17.01%

Source: U.S. Census Bureau, 2009-2013 American Community Survey, Tables B02001 & B03002

In Tillman County, racial and ethnic minorities comprise 36.35% of the total population. Within Frederick, racial and ethnic minorities represent 42.56% of the population.

Population by Age

The next tables present data regarding the age distribution of the population of Tillman County. This data is provided as of the 2010 Census, with estimates and forecasts provided by Nielsen SiteReports.

Tillman County Population By Age								
	2010	Percent	2015	Percent	2020	Percent	2000 - 2015	2015 - 2020
	Census	of Total	Estimate	of Total	Forecast	of Total	Ann. Chng.	Ann. Chng.
Population by Age	7,992		7,554		7,295			
Age 0 - 4	495	6.19%	488	6.46%	482	6.61%	-0.28%	-0.25%
Age 5 - 9	529	6.62%	502	6.65%	465	6.37%	-1.04%	-1.52%
Age 10 - 14	594	7.43%	518	6.86%	485	6.65%	-2.70%	-1.31%
Age 15 - 17	357	4.47%	326	4.32%	312	4.28%	-1.80%	-0.87%
Age 18 - 20	285	3.57%	295	3.91%	291	3.99%	0.69%	-0.27%
Age 21 - 24	333	4.17%	394	5.22%	408	5.59%	3.42%	0.70%
Age 25 - 34	873	10.92%	870	11.52%	871	11.94%	-0.07%	0.02%
Age 35 - 44	926	11.59%	798	10.56%	764	10.47%	-2.93%	-0.87%
Age 45 - 54	1,167	14.60%	974	12.89%	806	11.05%	-3.55%	-3.72%
Age 55 - 64	1,019	12.75%	969	12.83%	916	12.56%	-1.00%	-1.12%
Age 65 - 74	784	9.81%	804	10.64%	883	12.10%	0.51%	1.89%
Age 75 - 84	442	5.53%	429	5.68%	427	5.85%	-0.60%	-0.09%
Age 85 and over	188	2.35%	187	2.48%	185	2.54%	-0.11%	-0.21%
<i>Age 55 and over</i>	<i>2,433</i>	<i>30.44%</i>	<i>2,389</i>	<i>31.63%</i>	<i>2,411</i>	<i>33.05%</i>	<i>-0.36%</i>	<i>0.18%</i>
<i>Age 62 and over</i>	<i>1,532</i>	<i>19.17%</i>	<i>1,524</i>	<i>20.17%</i>	<i>1,585</i>	<i>21.72%</i>	<i>-0.10%</i>	<i>0.79%</i>
Median Age	40.7		39.8		39.4		-0.45%	-0.20%

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of Tillman County is 39.8 years. This compares with the statewide figure of 36.6 years. Approximately 6.46% of the population is below the age of 5, while 20.17% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 0.79% per year.

Frederick Population By Age								
	2010 Census	Percent of Total	2015 Estimate	Percent of Total	2020 Forecast	Percent of Total	2000 - 2015 Ann. Chng.	2015 - 2020 Ann. Chng.
Population by Age	3,940		3,760		3,674			
Age 0 - 4	262	6.65%	255	6.78%	259	7.05%	-0.54%	0.31%
Age 5 - 9	292	7.41%	262	6.97%	241	6.56%	-2.14%	-1.66%
Age 10 - 14	294	7.46%	279	7.42%	251	6.83%	-1.04%	-2.09%
Age 15 - 17	178	4.52%	162	4.31%	170	4.63%	-1.87%	0.97%
Age 18 - 20	142	3.60%	149	3.96%	158	4.30%	0.97%	1.18%
Age 21 - 24	176	4.47%	199	5.29%	208	5.66%	2.49%	0.89%
Age 25 - 34	450	11.42%	463	12.31%	450	12.25%	0.57%	-0.57%
Age 35 - 44	459	11.65%	398	10.59%	394	10.72%	-2.81%	-0.20%
Age 45 - 54	526	13.35%	451	11.99%	395	10.75%	-3.03%	-2.62%
Age 55 - 64	490	12.44%	456	12.13%	425	11.57%	-1.43%	-1.40%
Age 65 - 74	349	8.86%	374	9.95%	420	11.43%	1.39%	2.35%
Age 75 - 84	225	5.71%	209	5.56%	206	5.61%	-1.46%	-0.29%
Age 85 and over	97	2.46%	103	2.74%	97	2.64%	1.21%	-1.19%
<i>Age 55 and over</i>	<i>1,161</i>	<i>29.47%</i>	<i>1,142</i>	<i>30.37%</i>	<i>1,148</i>	<i>31.25%</i>	<i>-0.33%</i>	<i>0.10%</i>
<i>Age 62 and over</i>	<i>721</i>	<i>18.30%</i>	<i>720</i>	<i>19.14%</i>	<i>754</i>	<i>20.51%</i>	<i>-0.03%</i>	<i>0.92%</i>
Median Age	38.8		37.8		37.5		-0.52%	-0.16%

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of Frederick is 37.8 years. This compares with the statewide figure of 36.6 years. Approximately 6.78% of the population is below the age of 5, while 19.14% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 0.92% per year.

Families by Presence of Children

The next table presents data for Tillman County regarding families by the presence of children.

2013 Family Type by Presence of Children Under 18 Years

	Frederick		Tillman County	
	No.	Percent	No.	Percent
Total Families:	1,036		2,055	
Married-Couple Family:	723	69.79%	1,534	74.65%
With Children Under 18 Years	293	28.28%	591	28.76%
No Children Under 18 Years	430	41.51%	943	45.89%
Other Family:	313	30.21%	521	25.35%
Male Householder, No Wife Present	92	8.88%	148	7.20%
With Children Under 18 Years	67	6.47%	74	3.60%
No Children Under 18 Years	25	2.41%	74	3.60%
Female Householder, No Husband Present	221	21.33%	373	18.15%
With Children Under 18 Years	108	10.42%	156	7.59%
No Children Under 18 Years	113	10.91%	217	10.56%
<hr/>				
Total Single Parent Families	175		230	
Male Householder	67	38.29%	74	32.17%
Female Householder	108	61.71%	156	67.83%

Source: U.S. Census Bureau, 2009-2013 American Community Survey, Table B11003

As shown, within Tillman County, among all families 11.19% are single-parent families, while in Frederick, the percentage is 16.89%.

Population by Presence of Disabilities

The following table compiles data regarding the non-institutionalized population of Tillman County by presence of one or more disabilities.

2013 Age by Number of Disabilities

	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Non-Institutionalized Population:	3,780		7,558		3,702,515	
Under 18 Years:	906		1,818		933,738	
With One Type of Disability	12	1.32%	14	0.77%	33,744	3.61%
With Two or More Disabilities	39	4.30%	43	2.37%	11,082	1.19%
No Disabilities	855	94.37%	1,761	96.86%	888,912	95.20%
18 to 64 Years:	2,254		4,375		2,265,702	
With One Type of Disability	201	8.92%	433	9.90%	169,697	7.49%
With Two or More Disabilities	208	9.23%	390	8.91%	149,960	6.62%
No Disabilities	1,845	81.85%	3,552	81.19%	1,946,045	85.89%
65 Years and Over:	620		1,365		503,075	
With One Type of Disability	111	17.90%	303	22.20%	95,633	19.01%
With Two or More Disabilities	114	18.39%	327	23.96%	117,044	23.27%
No Disabilities	395	63.71%	735	53.85%	290,398	57.72%
Total Number of Persons with Disabilities:	685	18.12%	1,510	19.98%	577,160	15.59%

Source: U.S. Census Bureau, 2009-2013 American Community Survey, Table C18108

Within Tillman County, 19.98% of the civilian non-institutionalized population has one or more disabilities, compared with 15.59% of Oklahomans as a whole. In Frederick the percentage is 18.12%. Compared with the rest of the state, Tillman County has a somewhat larger percentage of persons with one or more disabilities.

We have also compiled data for the veteran population of Tillman County by presence of disabilities, shown in the following table:

2013 Population by Veteran and Disability Status

	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Population Age 18+ For Whom Poverty Status is Determined	2,874		5,740		2,738,788	
Veteran:	335	11.66%	646	11.25%	305,899	11.17%
<i>With a Disability</i>	132	39.40%	258	39.94%	100,518	32.86%
<i>No Disability</i>	203	60.60%	388	60.06%	205,381	67.14%
Non-veteran:	2,539	88.34%	5,094	88.75%	2,432,889	88.83%
<i>With a Disability</i>	502	19.77%	1,195	23.46%	430,610	17.70%
<i>No Disability</i>	2,037	80.23%	3,899	76.54%	2,002,279	82.30%

Source: 2009-2013 American Community Survey, Table C21007

Within Tillman County, the Census Bureau estimates there are 646 veterans, 39.94% of which have one or more disabilities (compared with 32.86% at a statewide level). In Frederick, there are an estimated 335 veterans, 39.40% of which are estimated to have a disability. Compared with the rest of the state, veterans in Tillman County have a somewhat higher likelihood of having one or more disabilities.

Group Quarters Population

The next table presents data regarding the population of Tillman County living in group quarters, such as correctional facilities, skilled-nursing facilities, student housing and military quarters.

	Frederick		Tillman County	
	No.	Percent	No.	Percent
Total Population	3,940		7,992	
Group Quarters Population	115	2.92%	267	3.34%
Institutionalized Population	115	2.92%	256	3.20%
Correctional facilities for adults	86	2.18%	197	2.46%
Juvenile facilities	0	0.00%	30	0.38%
Nursing facilities/Skilled-nursing facilities	29	0.74%	29	0.36%
Other institutional facilities	0	0.00%	0	0.00%
Noninstitutionalized population	0	0.00%	11	0.14%
College/University student housing	0	0.00%	0	0.00%
Military quarters	0	0.00%	0	0.00%
Other noninstitutional facilities	0	0.00%	11	0.14%

Source: 2010 Decennial Census, Table P42

The percentage of the Tillman County population in group quarters is generally similar to the statewide figure, which was 2.99% in 2010.

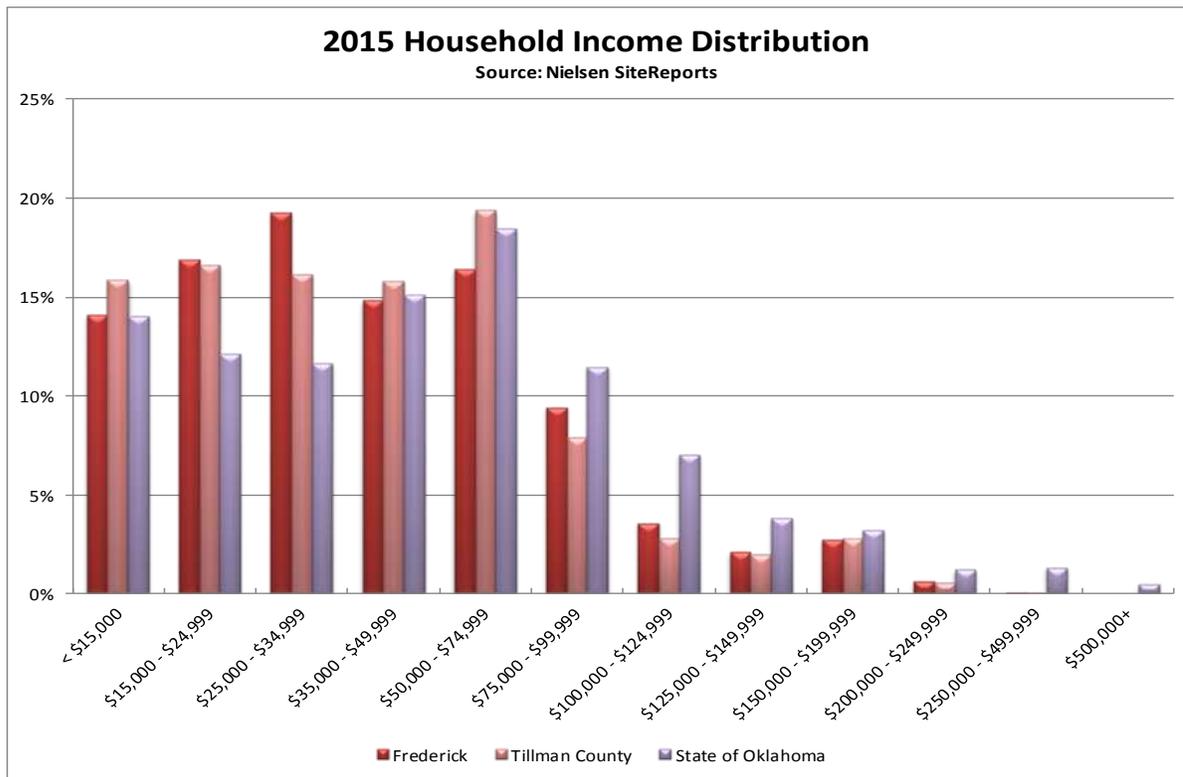
Household Income Levels

Data in the following chart shows the distribution of household income in Tillman County, as well as median and average household income. Data for Oklahoma is included as a basis of comparison. This data is provided by Nielsen SiteReports for 2015.

2015 Household Income Distribution						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Households by HH Income	1,518		3,065		1,520,327	
< \$15,000	214	14.10%	486	15.86%	213,623	14.05%
\$15,000 - \$24,999	256	16.86%	509	16.61%	184,613	12.14%
\$25,000 - \$34,999	292	19.24%	495	16.15%	177,481	11.67%
\$35,000 - \$49,999	225	14.82%	484	15.79%	229,628	15.10%
\$50,000 - \$74,999	249	16.40%	594	19.38%	280,845	18.47%
\$75,000 - \$99,999	143	9.42%	242	7.90%	173,963	11.44%
\$100,000 - \$124,999	54	3.56%	87	2.84%	106,912	7.03%
\$125,000 - \$149,999	32	2.11%	62	2.02%	57,804	3.80%
\$150,000 - \$199,999	42	2.77%	86	2.81%	48,856	3.21%
\$200,000 - \$249,999	10	0.66%	18	0.59%	18,661	1.23%
\$250,000 - \$499,999	1	0.07%	2	0.07%	20,487	1.35%
\$500,000+	0	0.00%	0	0.00%	7,454	0.49%
Median Household Income	\$34,897		\$36,317		\$47,049	
Average Household Income	\$48,514		\$47,490		\$63,390	

Source: Nielsen SiteReports

As shown, median household income for Tillman County is estimated to be \$36,317 in 2015. By way of comparison, the median household income of Oklahoma is estimated to be \$47,049. For Frederick, median household income is estimated to be \$34,897. Compared with the rest of the state, the income distribution of Tillman County is skewed more heavily towards the income brackets under \$35,000 per year, with relatively few households earning over \$100,000 per year.



Household Income Trend

Next we examine the long-term growth of incomes in Tillman County, from the results of the 2000 Census (representing calendar year 1999), through the current 2015 estimates provided by Nielsen SiteReports. This data is then annualized into a compounded annual growth rate to estimate nominal annual household income growth over this period of time. We then compare the rate of annual growth with the rate of inflation over the same period of time (measured using the Consumer Price Index for all urban consumers, South Region, Size Class D, from May 1999 through May 2015). Subtracting the annual rate of inflation from the nominal rate of annual income growth yields a “real” rate of income growth which takes into account the effect of increasing prices of goods and services.

	1999 Median HH Income	2015 Median HH Income	Nominal Growth	Inflation Rate	Real Growth
Frederick	\$22,190	\$34,897	2.87%	2.40%	0.47%
Tillman County	\$24,828	\$36,317	2.41%	2.40%	0.01%
State of Oklahoma	\$33,400	\$47,049	2.16%	2.40%	-0.23%

Sources: 2000 Decennial Census, Summary File 3, Table P53; Nielsen SiteReports; CPI All Urban Consumers, South Region, Size Class D

As shown, median household income in Tillman County effectively matched the rate of inflation from 1999 through 2015, which is notable as Oklahoma as a whole saw a modest decline in median household income after accounting for inflation. Over the same period, the national median household income increased from \$41,994 to \$53,706 (for a nominal annualized growth rate of 1.55%)



while the Consumer Price Index increased at an annualized rate of 2.26%, for a “real” growth rate of -0.72%.

Poverty Rates

Overall rates of poverty in Tillman County and Oklahoma are shown in the following table. This data is included from the 2013 American Community Survey, as well as the 2000 Census to show how these rates have changed over the last decade. We also include poverty rates for single-parent families by gender of householder.

Poverty Rates	2000 Census	2013 ACS	Change (Basis Points)	2013 Poverty Rates for Single-Parent Families	
				Male Householder	Female Householder
Frederick	23.26%	20.95%	-231	56.72%	28.70%
Tillman County	21.87%	20.22%	-166	58.11%	39.10%
State of Oklahoma	14.72%	16.85%	213	22.26%	47.60%

Sources: 2000 Decennial Census Table P87, 2009-2013 American Community Survey Tables B17001 & B17023

The poverty rate in Tillman County is estimated to be 20.22% by the American Community Survey. This is a decline of -166 basis points since the 2000 Census. Within Frederick, the poverty rate is estimated to be 20.95%. It should be noted that increasing poverty rates over this period of time is a national trend: between the 2000 Census and the 2013 American Community Survey, the poverty rate of the United States increased from 12.38% to 15.37%, an increase of 299 basis points. Although Tillman County saw a decline in its poverty rate over this period of time, it is still notably above the poverty rates of the state and nation.

Economic Conditions

Employment and Unemployment

The following table presents total employment figures and unemployment rates for Tillman County, with figures for Oklahoma and the United States for comparison. This data is as of May 2015.

Employment and Unemployment						
	May-2010 Employment	May-2015 Employment	Annual Growth	May-2010 Unemp. Rate	May-2015 Unemp. Rate	Change (bp)
Tillman County	3,183	3,383	1.23%	6.2%	4.2%	-200
State of Oklahoma	1,650,748	1,776,187	1.48%	6.8%	4.4%	-240
United States (thsds)	139,497	149,349	1.37%	9.3%	5.3%	-400

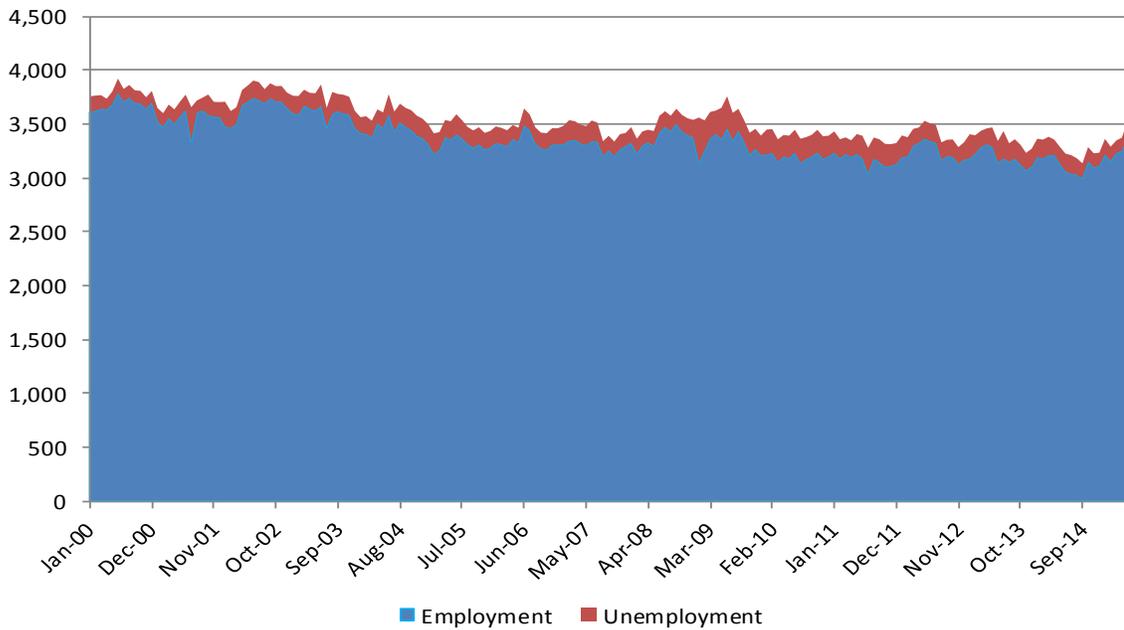
Sources: Bureau of Labor Statistics, Local Area Unemployment Statistics and Current Population Survey

As of May 2015, total employment in Tillman County was 3,383 persons. Compared with figures from May 2010, this represents annualized employment growth of 1.23% per year. The unemployment rate in May was 4.2%, a decrease of -200 basis points from May 2010, which was 6.2%. Over the last five years, both the statewide and national trends have been improving employment levels and declining unemployment rates, and Tillman County has largely mirrored this trend.

Employment Level Trends

The following chart shows total employment and unemployment levels in Tillman County from January 2000 through May 2015, as reported by the Bureau of Labor Statistics, Local Area Unemployment Statistics program.

Employment and Unemployment in Tillman County
January 2000 through May 2015



Source: Bureau of Labor Statistics, Local Area Unemployment Statistics

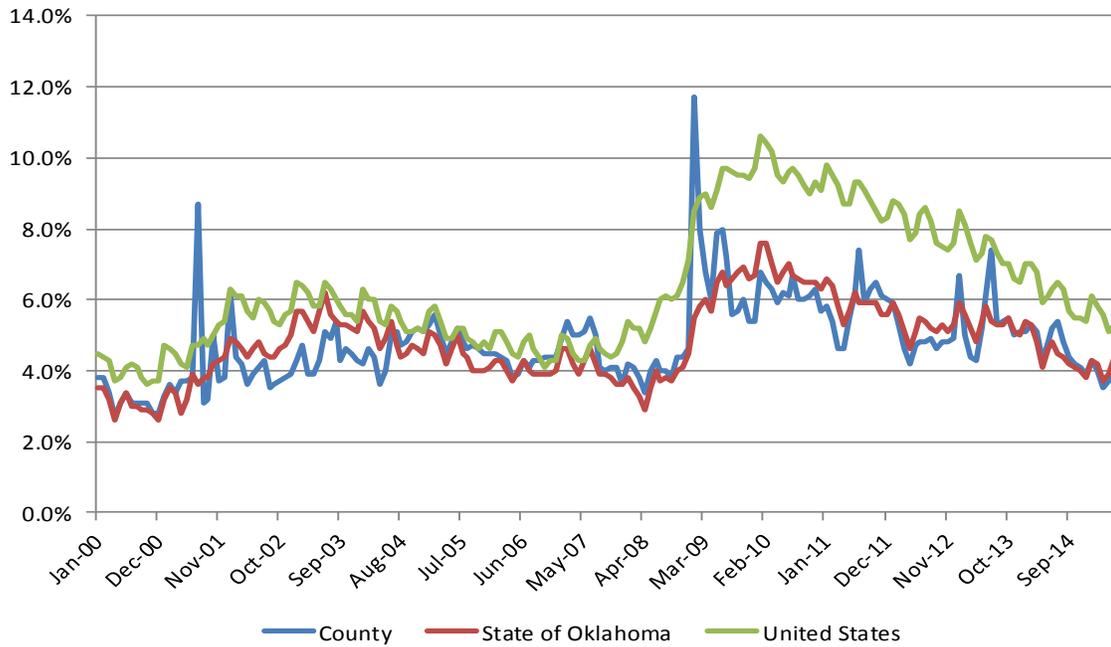
As shown, total employment in Tillman County has generally declined over the last fifteen years. The county has shown an increase in total employment levels over the last 12-18 months, growing to its current level of 3,383 persons, though it is not likely this trend will continue over the long term. The number of unemployed persons in May 2015 was 147, out of a total labor force of 3,530 persons.

Unemployment Rate Trends

The next chart shows historic unemployment rates for Tillman County, as well as Oklahoma and the United States for comparison. This data covers the time period of January 2000 through May 2015, and has not been seasonally adjusted.



**Unemployment Rates in Tillman County, Oklahoma and the United States
January 2000 through May 2015**



Sources: Bureau of Labor Statistics, Local Area Unemployment Statistics and Current Population Survey

As shown, unemployment rates in Tillman County increased moderately from 2000 through 2003, and then generally declined until the 4th quarter of 2008 as the effects of the national economic recession were felt. Unemployment rates began to decline again in 2010, to their current level of 4.2%. On the whole, unemployment rates in Tillman County track very well with statewide figures. Compared with the United States, unemployment rates in Tillman County and Oklahoma are and have historically been below the national average.

Employment and Wages by Industrial Supersector

The next table presents data regarding employment in Tillman County by industry, including total number of establishments, average number of employees in 2014, average annual pay, and location quotients for each industry compared with the United States. This data is furnished by the Bureau of Labor Statistics, Quarterly Census of Employment and Wages program.

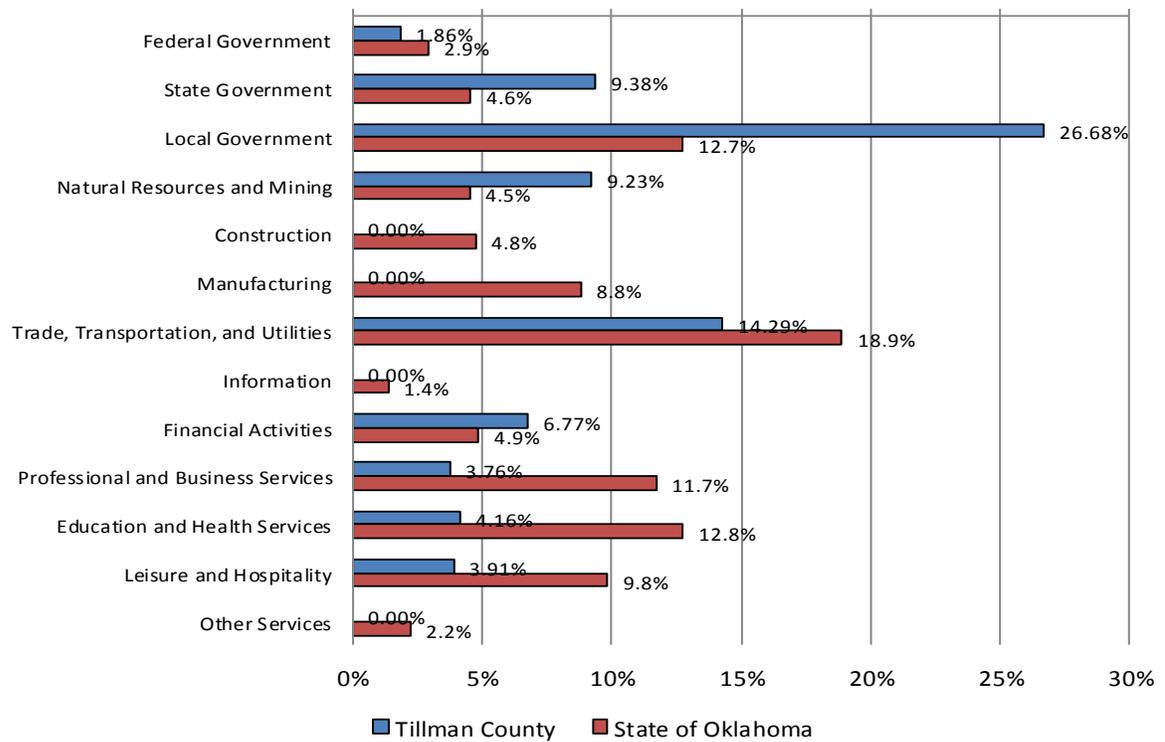


Employees and Wages by Supersector - 2014

Supersector	Establishments	Avg. No. of Employees	Percent of Total	Avg. Annual Pay	Location Quotient
Federal Government	10	37	1.86%	\$40,604	0.93
State Government	10	187	9.38%	\$34,277	2.82
Local Government	21	532	26.68%	\$29,540	2.65
Natural Resources and Mining	21	184	9.23%	\$30,290	6.08
Construction	7	N/A	N/A	N/A	N/A
Manufacturing	3	N/A	N/A	N/A	N/A
Trade, Transportation, and Utilities	44	285	14.29%	\$34,272	0.75
Information	3	N/A	N/A	N/A	N/A
Financial Activities	17	135	6.77%	\$43,510	1.21
Professional and Business Services	17	75	3.76%	\$25,156	0.27
Education and Health Services	10	83	4.16%	\$26,663	0.28
Leisure and Hospitality	11	78	3.91%	\$12,448	0.37
Other Services	14	N/A	N/A	N/A	N/A
Total	187	1,994		\$32,952	1.00

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages

Employment Sectors - 2014



Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages



Among private employers, the largest percentage of persons (14.29%) are employed in Trade, Transportation, and Utilities. The average annual pay in this sector is \$34,272 per year. The industry with the highest annual pay is Financial Activities, with average annual pay of \$43,510 per year.

The rightmost column of the previous table provides location quotients for each industry for Tillman County, as compared with the United States. Location quotients (LQs) are ratios used to compare the concentration of employment in a given industry to a larger reference, in this case the United States. They are calculated by dividing the percentage of employment in a given industry in a given geography (Tillman County in this instance), by the percentage of employment in the same industry in the United States. For example, if manufacturing in a certain county comprised 10% of total employment, while in the United States manufacturing comprised 5% of total employment, the location quotient would be 2.0:

$$10\% (\text{county manufacturing } \%) / 5\% (\text{U.S. manufacturing } \%) = 2.0$$

Location quotients greater than 1.0 indicate a higher concentration of employment compared with the nation, and suggest that the industry in question is an important contributor to the local economic base. Quotients less than 1.0 indicate that the industry makes up a smaller share of the local economy than the rest of the nation.

Within Tillman County, among all industries the largest location quotient is in Natural Resources and Mining, with a quotient of 6.08. This sector includes agricultural employment. Note that the BLS data shows 3 employers in manufacturing but no details for that sector: the BLS typically redacts data for employment sectors with only a small number of establishments, and it is likely that manufacturing is an important contributor to the Tillman County economy due to the larger number of persons employed at Henniges Automotive.

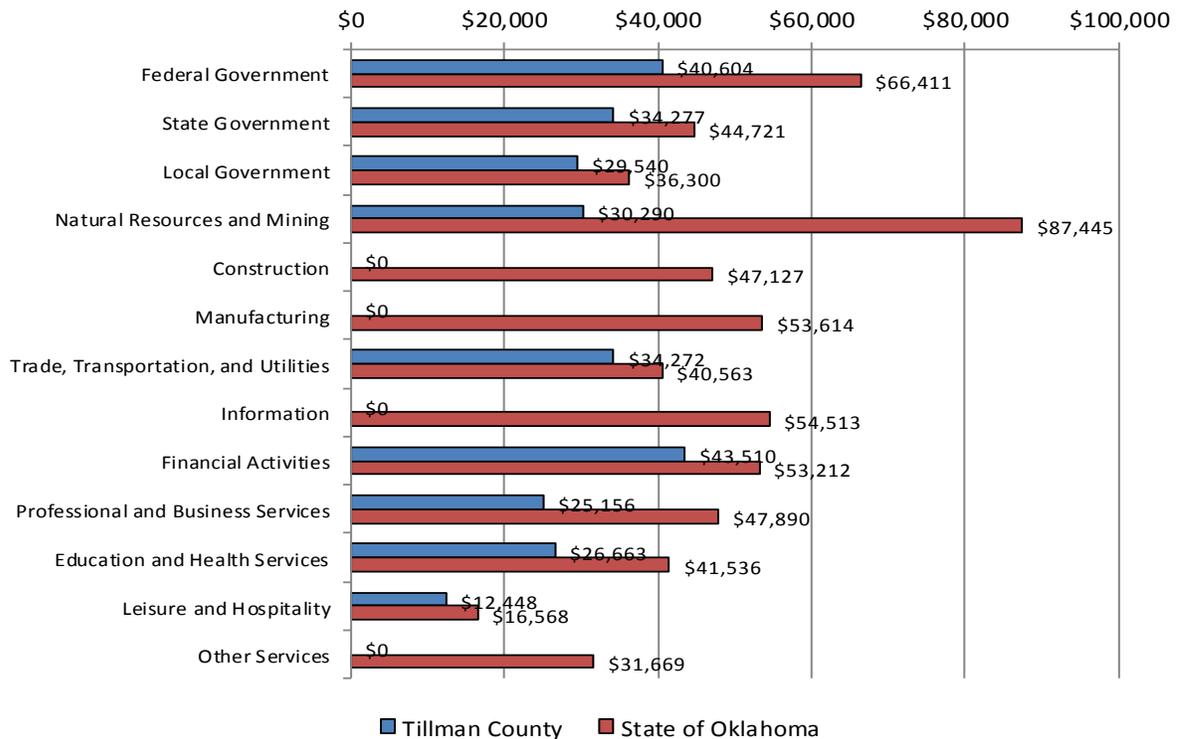
The next table presents average annual pay in Tillman County by industry, in comparison with Oklahoma as a whole and the United States.

Comparison of 2014 Average Annual Pay by Supersector

Supersector	Tillman County	State of Oklahoma	United States	Percent of State	Percent of Nation
Federal Government	\$40,604	\$66,411	\$75,784	61.1%	53.6%
State Government	\$34,277	\$44,721	\$54,184	76.6%	63.3%
Local Government	\$29,540	\$36,300	\$46,146	81.4%	64.0%
Natural Resources and Mining	\$30,290	\$87,445	\$59,666	34.6%	50.8%
Construction	N/A	\$47,127	\$55,041	N/A	N/A
Manufacturing	N/A	\$53,614	\$62,977	N/A	N/A
Trade, Transportation, and Utilities	\$34,272	\$40,563	\$42,988	84.5%	79.7%
Information	N/A	\$54,513	\$90,804	N/A	N/A
Financial Activities	\$43,510	\$53,212	\$85,261	81.8%	51.0%
Professional and Business Services	\$25,156	\$47,890	\$66,657	52.5%	37.7%
Education and Health Services	\$26,663	\$41,536	\$45,951	64.2%	58.0%
Leisure and Hospitality	\$12,448	\$16,568	\$20,993	75.1%	59.3%
Other Services	N/A	\$31,669	\$33,935	N/A	N/A
Total	\$32,952	\$43,774	\$51,361	75.3%	64.2%

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages

Average Annual Pay - 2014



Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages



In comparison with the rest of Oklahoma, Tillman County has lower average wages in each employment sector without exception. This is especially pronounced in natural resources and mining, which is likely due to the large amount of agricultural employment in the county.

Working Families

The following table presents data on families by employment status, and presence of children.

Families by Employment Status and Presence of Children						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Families	1,036		2,055		961,468	
With Children <18 Years:	468	45.17%	821	39.95%	425,517	44.26%
Married Couple:	293	62.61%	591	71.99%	281,418	66.14%
Both Parents Employed	176	60.07%	322	54.48%	166,700	59.24%
One Parent Employed	117	39.93%	263	44.50%	104,817	37.25%
Neither Parent Employed	0	0.00%	6	1.02%	9,901	3.52%
Other Family:	175	37.39%	230	28.01%	144,099	33.86%
Male Householder:	67	38.29%	74	32.17%	36,996	25.67%
Employed	43	64.18%	47	63.51%	31,044	83.91%
Not Employed	24	35.82%	27	36.49%	5,952	16.09%
Female Householder:	108	61.71%	156	67.83%	107,103	74.33%
Employed	93	86.11%	129	82.69%	75,631	70.62%
Not Employed	15	13.89%	27	17.31%	31,472	29.38%
Without Children <18 Years:	568	54.83%	1,234	60.05%	535,951	55.74%
Married Couple:	430	75.70%	943	76.42%	431,868	80.58%
Both Spouses Employed	140	32.56%	296	31.39%	167,589	38.81%
One Spouse Employed	167	38.84%	364	38.60%	138,214	32.00%
Neither Spouse Employed	123	28.60%	283	30.01%	126,065	29.19%
Other Family:	138	24.30%	291	23.58%	104,083	19.42%
Male Householder:	25	20.33%	74	26.15%	32,243	25.58%
Employed	16	64.00%	50	67.57%	19,437	60.28%
Not Employed	9	36.00%	24	32.43%	12,806	39.72%
Female Householder:	113	81.88%	217	74.57%	71,840	69.02%
Employed	62	54.87%	89	41.01%	36,601	50.95%
Not Employed	51	45.13%	128	58.99%	35,239	49.05%
<i>Total Working Families:</i>	<i>814</i>	<i>78.57%</i>	<i>1,560</i>	<i>75.91%</i>	<i>740,033</i>	<i>76.97%</i>
<i> With Children <18 Years:</i>	<i>429</i>	<i>52.70%</i>	<i>761</i>	<i>48.78%</i>	<i>378,192</i>	<i>51.10%</i>
<i> Without Children <18 Years:</i>	<i>385</i>	<i>47.30%</i>	<i>799</i>	<i>51.22%</i>	<i>361,841</i>	<i>48.90%</i>

Source: 2009-2013 American Community Survey, Table B23007

Within Tillman County, there are 1,560 working families, 48.78% of which have children under the age of 18 present. This compares with 51.10% in Oklahoma as a whole.

Major Employers

Major employers in the Tillman County area are presented in the following table, as reported by the Cameron University School of Business.

Major Employers in Tillman County

Company	Industry / Description	City / Town	No. Employees
Henniges Automotive Oklahoma	Hard rubber molded rubber products	Frederick	350-450
Southwest Oklahoma Juvenile Center	Public high school & juvenile center	Manitou	148
Frederick Public Schools	Education	Frederick	135
Tipton Public School	Education	Tipton	71
Grandfield Public Schools	Education	Grandfield	58
Van Der Laan Dairy	Dairy farming	Frederick	42
Sonic Drive-In	Fast food restaurant	Frederick	37
Tillman Producers Co-Op	Cotton mill	Davidson	36
Rural Enterprises	Corp. or regional mgmt office	Frederick	36
The Tipton Home, Inc.	Residential care	Tipton	35
Southwest Rural Electric	Power generation	Tipton	32
Pioneer Telephone Cooperative	Wired communication carrier	Frederick	26

Source: Cameron University School of Business

The largest single employer in the area is Henniges Automotive by far, followed by the Southwest Oklahoma Juvenile Center and the Frederick public school district.

Commuting Patterns

Travel Time to Work

The next table presents data regarding travel time to work in Tillman County.

Workers 16 Years and Over by Commuting Time to Work

	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Commuting Workers:	1,529		2,943		1,613,364	
Less than 15 minutes	1,032	67.50%	1,593	54.13%	581,194	36.02%
15 to 30 minutes	210	13.73%	537	18.25%	625,885	38.79%
30 to 45 minutes	92	6.02%	389	13.22%	260,192	16.13%
45 to 60 minutes	75	4.91%	200	6.80%	74,625	4.63%
60 or more minutes	120	7.85%	224	7.61%	71,468	4.43%

Source: 2009-2013 American Community Survey, Table B08303

Within Tillman County, the largest percentage of workers (54.13%) travel fewer than 15 minutes to work. Although Tillman County has an active labor market, it appears some persons living in the county commute to other labor markets such as Lawton and Altus.

Means of Transportation

Data in the following table presents data regarding means of transportation for employed persons in Tillman County.

Workers 16 Years and Over by Means of Transportation to Work

	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Workers Age 16+	1,552		3,074		1,673,026	
Car, Truck or Van:	1,357	87.44%	2,697	87.74%	1,551,461	92.73%
<i>Drove Alone</i>	<i>1,210</i>	<i>89.17%</i>	<i>2,377</i>	<i>88.13%</i>	<i>1,373,407</i>	<i>88.52%</i>
<i>Carpooled</i>	<i>147</i>	<i>10.83%</i>	<i>320</i>	<i>11.87%</i>	<i>178,054</i>	<i>11.48%</i>
Public Transportation	13	0.84%	13	0.42%	8,092	0.48%
Taxicab	0	0.00%	0	0.00%	984	0.06%
Motorcycle	0	0.00%	0	0.00%	3,757	0.22%
Bicycle	21	1.35%	21	0.68%	4,227	0.25%
Walked	105	6.77%	133	4.33%	30,401	1.82%
Other Means	33	2.13%	79	2.57%	14,442	0.86%
Worked at Home	23	1.48%	131	4.26%	59,662	3.57%

Source: 2009-2013 American Community Survey, Table B08301

As shown, the vast majority of persons in Tillman County commute to work by private vehicle, with a small percentage of persons working from home.

Housing Stock Analysis

Existing Housing Units

The following table presents data regarding the total number of housing units in Tillman County. This data is provided as of the 2000 Census, the 2010 Census, with a 2015 estimate furnished by Nielsen SiteReports.

Total Housing Units					
	2000 Census	2010 Census	Annual Change	2015 Estimate	Annual Change
Frederick	2,145	1,981	-0.79%	1,959	-0.22%
Tillman County	4,342	4,077	-0.63%	4,024	-0.26%
State of Oklahoma	1,514,400	1,664,378	0.95%	1,732,484	0.81%

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

Since the 2010, Nielsen estimates that the number of housing units in Tillman County declined by - 0.26% per year, to a total of 4,024 housing units in 2015. In terms of new housing unit construction, Tillman County underperformed Oklahoma as a whole between 2010 and 2015, with an overall decline in total housing which will likely continue as housing units are demolished or fall into a state of disrepair such that they are no longer habitable.

Housing by Units in Structure

The next table separates housing units in Tillman County by units in structure, based on data from the Census Bureau's American Community Survey.

2013 Housing Units by Units in Structure						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Housing Units	2,054		4,063		1,669,828	
1 Unit, Detached	1,816	88.41%	3,549	87.35%	1,219,987	73.06%
1 Unit, Attached	0	0.00%	21	0.52%	34,434	2.06%
Duplex Units	0	0.00%	46	1.13%	34,207	2.05%
3-4 Units	20	0.97%	24	0.59%	42,069	2.52%
5-9 Units	136	6.62%	151	3.72%	59,977	3.59%
10-19 Units	0	0.00%	0	0.00%	57,594	3.45%
20-49 Units	11	0.54%	11	0.27%	29,602	1.77%
50 or More Units	0	0.00%	2	0.05%	30,240	1.81%
Mobile Homes	71	3.46%	259	6.37%	159,559	9.56%
Boat, RV, Van, etc.	0	0.00%	0	0.00%	2,159	0.13%
Total Multifamily Units	167	8.13%	234	5.76%	253,689	15.19%

Source: 2009-2013 American Community Survey, Table B25024

Within Tillman County, 87.35% of housing units are single-family, detached. 5.76% of housing units are multifamily in structure (two or more units per building), while 6.37% of housing units comprise mobile homes, RVs, etc.

Within Frederick, 88.41% of housing units are single-family, detached. 8.13% of housing units are multifamily in structure, while 3.46% of housing units comprise mobile homes, RVs, etc.

Compared with the rest of the state, Tillman County's housing stock has a larger proportion of single family residences, with relatively few multifamily structures and a lower percentage of mobile homes.

Housing Units Number of Bedrooms and Tenure

Data in the following table presents housing units in Tillman County by tenure (owner/renter), and by number of bedrooms.

2013 Housing Units by Tenure and Number of Bedrooms

	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Occupied Housing Units	1,536		3,013		1,444,081	
Owner Occupied:	1,095	71.29%	2,214	73.48%	968,736	67.08%
No Bedroom	11	1.00%	12	0.54%	2,580	0.27%
1 Bedroom	9	0.82%	25	1.13%	16,837	1.74%
2 Bedrooms	304	27.76%	641	28.95%	166,446	17.18%
3 Bedrooms	640	58.45%	1,228	55.47%	579,135	59.78%
4 Bedrooms	131	11.96%	290	13.10%	177,151	18.29%
5 or More Bedrooms	0	0.00%	18	0.81%	26,587	2.74%
Renter Occupied:	441	28.71%	799	26.52%	475,345	32.92%
No Bedroom	0	0.00%	0	0.00%	13,948	2.93%
1 Bedroom	15	3.40%	47	5.88%	101,850	21.43%
2 Bedrooms	215	48.75%	331	41.43%	179,121	37.68%
3 Bedrooms	199	45.12%	381	47.68%	152,358	32.05%
4 Bedrooms	12	2.72%	27	3.38%	24,968	5.25%
5 or More Bedrooms	0	0.00%	13	1.63%	3,100	0.65%

Source: 2009-2013 American Community Survey, Table B25042

The overall homeownership rate in Tillman County is 73.48%, while 26.52% of housing units are renter occupied. In Frederick, the homeownership rate is 71.29%, while 28.71% of households are renters. Tillman County's homeownership rate is somewhat higher than the state as a whole and fairly typical of rural counties in the state.

Housing Units Tenure and Household Income

The next series of tables analyze housing units by tenure, and by household income.

Tillman County Owner/Renter Percentages by Income Band in 2013

Household Income	Total Households	Total Owners	Total Renters	% Owners	% Renters
Total	3,013	2,214	799	73.48%	26.52%
Less than \$5,000	85	28	57	32.94%	67.06%
\$5,000 - \$9,999	120	59	61	49.17%	50.83%
\$10,000-\$14,999	314	190	124	60.51%	39.49%
\$15,000-\$19,999	177	95	82	53.67%	46.33%
\$20,000-\$24,999	207	133	74	64.25%	35.75%
\$25,000-\$34,999	545	385	160	70.64%	29.36%
\$35,000-\$49,999	479	399	80	83.30%	16.70%
\$50,000-\$74,999	661	551	110	83.36%	16.64%
\$75,000-\$99,999	208	178	30	85.58%	14.42%
\$100,000-\$149,999	150	134	16	89.33%	10.67%
\$150,000 or more	67	62	5	92.54%	7.46%
Income Less Than \$25,000	903	505	398	55.92%	44.08%

Source: 2009-2013 American Community Survey, Table B25118

Within Tillman County as a whole, 44.08% of households with incomes less than \$25,000 are estimated to be renters, while 55.92% are estimated to be homeowners.

Frederick Owner/Renter Percentages by Income Band in 2013

Household Income	Total Households	Total Owners	Total Renters	% Owners	% Renters
Total	1,536	1,095	441	71.29%	28.71%
Less than \$5,000	47	6	41	12.77%	87.23%
\$5,000 - \$9,999	52	13	39	25.00%	75.00%
\$10,000-\$14,999	161	75	86	46.58%	53.42%
\$15,000-\$19,999	121	56	65	46.28%	53.72%
\$20,000-\$24,999	94	56	38	59.57%	40.43%
\$25,000-\$34,999	331	230	101	69.49%	30.51%
\$35,000-\$49,999	223	191	32	85.65%	14.35%
\$50,000-\$74,999	315	285	30	90.48%	9.52%
\$75,000-\$99,999	120	111	9	92.50%	7.50%
\$100,000-\$149,999	58	58	0	100.00%	0.00%
\$150,000 or more	14	14	0	100.00%	0.00%
Income Less Than \$25,000	475	206	269	43.37%	56.63%

Source: 2009-2013 American Community Survey, Table B25118

Within Frederick, 56.63% of households with incomes less than \$25,000 are estimated to be renters, while 43.37% are estimated to be homeowners.

Housing Units by Year of Construction and Tenure

The following table provides a breakdown of housing units by year of construction, and by owner/renter (tenure), as well as median year of construction.

2013 Housing Units by Tenure and Year of Construction						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Occupied Housing Units	1,536		3,013		1,444,081	
Owner Occupied:	1,095	71.29%	2,214	73.48%	968,736	67.08%
Built 2010 or Later	2	0.18%	7	0.32%	10,443	1.08%
Built 2000 to 2009	40	3.65%	129	5.83%	153,492	15.84%
Built 1990 to 1999	47	4.29%	93	4.20%	125,431	12.95%
Built 1980 to 1989	152	13.88%	275	12.42%	148,643	15.34%
Built 1970 to 1979	183	16.71%	343	15.49%	184,378	19.03%
Built 1960 to 1969	100	9.13%	213	9.62%	114,425	11.81%
Built 1950 to 1959	305	27.85%	448	20.23%	106,544	11.00%
Built 1940 to 1949	119	10.87%	297	13.41%	50,143	5.18%
Built 1939 or Earlier	147	13.42%	409	18.47%	75,237	7.77%
Median Year Built:		1959		1959		1977
Renter Occupied:	441	28.71%	799	26.52%	475,345	32.92%
Built 2010 or Later	0	0.00%	0	0.00%	5,019	1.06%
Built 2000 to 2009	11	2.49%	23	2.88%	50,883	10.70%
Built 1990 to 1999	7	1.59%	25	3.13%	47,860	10.07%
Built 1980 to 1989	50	11.34%	68	8.51%	77,521	16.31%
Built 1970 to 1979	102	23.13%	160	20.03%	104,609	22.01%
Built 1960 to 1969	86	19.50%	156	19.52%	64,546	13.58%
Built 1950 to 1959	61	13.83%	124	15.52%	54,601	11.49%
Built 1940 to 1949	98	22.22%	137	17.15%	31,217	6.57%
Built 1939 or Earlier	26	5.90%	106	13.27%	39,089	8.22%
Median Year Built:		1964		1962		1975
Overall Median Year Built:		1959		1960		1976

Sources: 2009-2013 American Community Survey, Tables B25035, B25036 & B25037

Within Tillman County, 5.28% of housing units were built after the year 2000. This compares with 15.22% statewide. Within Frederick the percentage is 3.45%.

90.81% of housing units in Tillman County were built prior to 1990, while in Frederick the percentage is 93.03%. These figures compare with the statewide figure of 72.78%. Compared with the rest of the state, Tillman County has a significantly older housing stock, with very little new construction over the last 25 years.

Substandard Housing

The next table presents data regarding substandard housing in Tillman County. The two most commonly cited figures for substandard housing are a lack of complete plumbing, and/or a lack of a complete kitchen. We have also included statistics regarding homes heated by wood, although this is a less frequently cited indicator of substandard housing since some homes (particularly homes for seasonal occupancy) are heated by wood but otherwise not considered substandard.

The Census Bureau definition of inadequate plumbing is any housing unit lacking any one (or more) of the following three items:

1. Hot and cold running water
2. A flush toilet
3. A bathtub or shower

Inadequate kitchens are defined by the Census Bureau as housing units lacking any of the three following items:

1. A sink with a faucet
2. A stove or range
3. A refrigerator

2013 Substandard Housing Units

	Occupied	Inadequate Plumbing		Inadequate Kitchen		Uses Wood for Fuel	
	Units	Number	Percent	Number	Percent	Number	Percent
Frederick	1,536	0	0.00%	2	0.13%	22	1.43%
Tillman County	3,013	4	0.13%	12	0.40%	46	1.53%
State of Oklahoma	1,444,081	7,035	0.49%	13,026	0.90%	28,675	1.99%

Sources: 2009-2013 American Community Survey, Tables B25040, B25048 & B25052

Within Tillman County, 0.13% of occupied housing units have inadequate plumbing (compared with 0.49% at a statewide level), while 0.40% have inadequate kitchen facilities (compared with 0.90% at a statewide level). It is likely that there is at least some overlap between these two figures, among units lacking both complete plumbing and kitchen facilities.

Vacancy Rates

The next table details housing units in Tillman County by vacancy and type. This data is provided by the American Community Survey.

2013 Housing Units by Vacancy						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Housing Units	2,054		4,063		1,669,828	
Total Vacant Units	518	25.22%	1,050	25.84%	225,747	13.52%
For rent	70	13.51%	99	9.43%	43,477	19.26%
Rented, not occupied	18	3.47%	23	2.19%	9,127	4.04%
For sale only	76	14.67%	96	9.14%	23,149	10.25%
Sold, not occupied	0	0.00%	3	0.29%	8,618	3.82%
For seasonal, recreational, or occasional use	0	0.00%	34	3.24%	39,475	17.49%
For migrant workers	0	0.00%	0	0.00%	746	0.33%
Other vacant	354	68.34%	795	75.71%	101,155	44.81%
Homeowner Vacancy Rate	6.49%		4.15%		2.31%	
Rental Vacancy Rate	13.23%		10.75%		8.24%	

Source: 2009-2013 American Community Survey, Tables B25001, B25003 & B25004

Within Tillman County, the overall housing vacancy rate is estimated to be 25.84%. The homeowner vacancy rate is estimated to be 4.15%, while the rental vacancy rate is estimated to be 10.75%.

In Frederick, the overall housing vacancy rate is estimated to be 25.22%. The homeowner vacancy rate is estimated to be 6.49%, while the rental vacancy rate is estimated to be 13.23%.

Compared with the rest of the state, both homeowner and rental vacancy rates are higher than statewide figures, though the county also has a higher proportion of housing units in the "Other Vacant" category which includes housing units that are not occupied, but also not being offered for sale or for rent.

Building Permits

The next series of tables present data regarding new residential building permits issued in Frederick. This data is furnished by the U.S. Census Bureau Residential Construction Branch, Manufacturing and Construction Division. Please note that average costs reported only represent physical construction costs for the housing units, and do not include land prices, most soft costs (such as finance fees), or builder's profit.

Frederick

New Residential Building Permits Issued, 2004-2014

Year	Single Family Units	Avg. Construction Cost	Multifamily Units	Avg. Multifamily Construction Cost
2004	0	N/A	0	N/A
2005	0	N/A	0	N/A
2006	1	\$130,000	0	N/A
2007	0	N/A	0	N/A
2008	0	N/A	0	N/A
2009	0	N/A	0	N/A
2010	0	N/A	0	N/A
2011	0	N/A	0	N/A
2012	0	N/A	0	N/A
2013	0	N/A	0	N/A
2014	1	\$68,000	0	N/A

Source: United States Census Bureau Building Permits Survey

In Frederick, building permits for 2 housing units were issued between 2004 and 2014, both single family homes. It is possible that more permits were issued during this time frame, but weren't reported to the Census Bureau for any reason. It should be noted that building permits would not be required in unincorporated areas of Tillman County, and our own survey of data from the Tillman County Assessor's office suggests that the overwhelming majority of new housing units constructed in the county were built on acreages in rural areas of the county, outside of the jurisdiction of Frederick or any other permitting authority.

New Construction Activity

For Ownership:

The majority of new housing construction in Tillman County has occurred on rural acreages in unincorporated areas of the county, typically homes greater than 2,000 square feet in size. A review of data from the Tillman County Assessor shows some limited infill development in Frederick, Grandfield and Tipton, but new construction has been sporadic and appears largely confined to custom-built homes.

For Rent:

No new rental developments have been constructed in Tillman County in many years, and to the best of our knowledge none are currently planned for construction. The Grand Hotel in Frederick was renovated in 2000 for senior housing, with 29 one-bedroom units and 5 efficiency units. This was the most significant addition to the Tillman County rental stock within the last 15 years.

Homeownership Market

This section will address the market for housing units for purchase in Tillman County, using data collected from both local and national sources.

Housing Units by Home Value

The following table presents housing units in Tillman County by value, as well as median home value, as reported by the Census Bureau's American Community Survey.

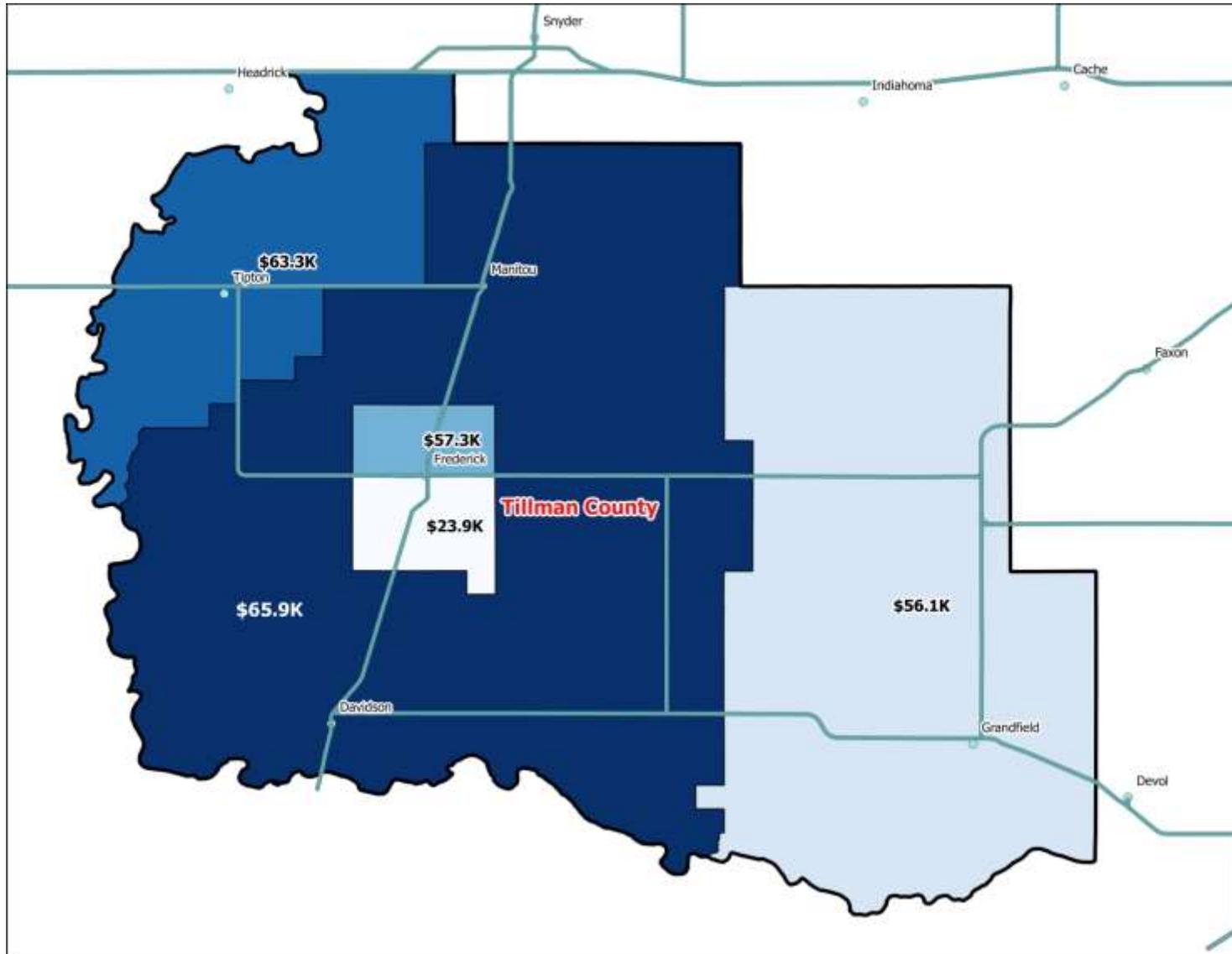
2013 Housing Units by Home Value						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Owner-Occupied Units:	1,095		2,214		968,736	
Less than \$10,000	49	4.47%	111	5.01%	20,980	2.17%
\$10,000 to \$14,999	110	10.05%	167	7.54%	15,427	1.59%
\$15,000 to \$19,999	62	5.66%	96	4.34%	13,813	1.43%
\$20,000 to \$24,999	155	14.16%	193	8.72%	16,705	1.72%
\$25,000 to \$29,999	79	7.21%	114	5.15%	16,060	1.66%
\$30,000 to \$34,999	109	9.95%	187	8.45%	19,146	1.98%
\$35,000 to \$39,999	0	0.00%	80	3.61%	14,899	1.54%
\$40,000 to \$49,999	38	3.47%	119	5.37%	39,618	4.09%
\$50,000 to \$59,999	86	7.85%	143	6.46%	45,292	4.68%
\$60,000 to \$69,999	63	5.75%	178	8.04%	52,304	5.40%
\$70,000 to \$79,999	59	5.39%	113	5.10%	55,612	5.74%
\$80,000 to \$89,999	32	2.92%	112	5.06%	61,981	6.40%
\$90,000 to \$99,999	73	6.67%	98	4.43%	51,518	5.32%
\$100,000 to \$124,999	54	4.93%	146	6.59%	119,416	12.33%
\$125,000 to \$149,999	43	3.93%	103	4.65%	96,769	9.99%
\$150,000 to \$174,999	46	4.20%	110	4.97%	91,779	9.47%
\$175,000 to \$199,999	14	1.28%	33	1.49%	53,304	5.50%
\$200,000 to \$249,999	0	0.00%	43	1.94%	69,754	7.20%
\$250,000 to \$299,999	0	0.00%	26	1.17%	41,779	4.31%
\$300,000 to \$399,999	0	0.00%	5	0.23%	37,680	3.89%
\$400,000 to \$499,999	5	0.46%	5	0.23%	13,334	1.38%
\$500,000 to \$749,999	0	0.00%	5	0.23%	12,784	1.32%
\$750,000 to \$999,999	0	0.00%	0	0.00%	3,764	0.39%
\$1,000,000 or more	18	1.64%	27	1.22%	5,018	0.52%
Median Home Value:	\$34,200		\$52,800		\$112,800	

Sources: 2009-2013 American Community Survey, Tables B25075 and B25077

The median value of owner-occupied homes in Tillman County is \$52,800. This is -53.2% lower than the statewide median, which is \$112,800. The median home value in Frederick is estimated to be \$34,200. Compared with the rest of the state, home values in Tillman County are significantly lower.

The geographic distribution of home values in Tillman County can be visualized by the following map. As can be seen, home values are lowest in the immediate vicinity of Frederick, and highest in the central, unincorporated areas of the county surrounding Frederick.

Tillman County Median Home Values by Census Tract



Home Values by Year of Construction

The next table presents median home values in Tillman County by year of construction. Note that missing data fields indicate the Census Bureau had inadequate data to estimate a median value that age bracket.

2013 Median Home Value by Year of Construction

	Frederick Median Value	Tillman County Median Value	State of Oklahoma Median Value
Total Owner-Occupied Units:			
Built 2010 or Later	-	-	\$188,900
Built 2000 to 2009	-	\$156,300	\$178,000
Built 1990 to 1999	\$91,600	\$99,100	\$147,300
Built 1980 to 1989	\$33,800	\$56,100	\$118,300
Built 1970 to 1979	\$33,500	\$45,000	\$111,900
Built 1960 to 1969	\$96,000	\$58,300	\$97,100
Built 1950 to 1959	\$33,900	\$46,300	\$80,300
Built 1940 to 1949	\$22,300	\$34,000	\$67,900
Built 1939 or Earlier	\$33,600	\$49,900	\$74,400

Note: Dashes indicate the Census Bureau had insufficient data to estimate a median value.

Source: 2009-2013 American Community Survey, Table 25107

Frederick Single Family Sales Activity

The next series of tables provides data regarding single family home sales activity in Frederick. This data was furnished by County Records, Inc. from publicly available data. The data is separated by two, three and four bedroom homes, and then total data for all bedroom types.

Frederick Single Family Sales Activity

Two Bedroom Units

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	27	29	42	18	22
Average Sale Price	\$25,195	\$24,212	\$22,851	\$19,876	\$24,977
Average Square Feet	1,269	1,242	1,162	1,111	1,300
Average Price/SF	\$19.85	\$19.49	\$19.67	\$17.89	\$19.21
Average Year Built	1952	1951	1951	1954	1952

Source: Tillman County Assessor, via County Records, Inc.

Frederick Single Family Sales Activity
Three Bedroom Units

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	34	40	39	35	23
Average Sale Price	\$47,282	\$39,900	\$39,515	\$47,624	\$58,848
Average Square Feet	1,752	1,468	1,444	1,593	1,756
Average Price/SF	\$26.99	\$27.18	\$27.36	\$29.90	\$33.51
Average Year Built	1957	1962	1965	1963	1960

Source: Tillman County Assessor, via County Records, Inc.

Frederick Single Family Sales Activity
Four Bedroom Units

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	1	3	4	1	2
Average Sale Price	\$130,000	\$91,253	\$66,250	\$36,667	\$65,000
Average Square Feet	3,106	2,502	2,397	1,392	2,470
Average Price/SF	\$41.85	\$36.47	\$27.64	\$26.34	\$26.32
Average Year Built	1968	1964	1964	1945	1950

Source: Tillman County Assessor, via County Records, Inc.

Frederick Single Family Sales Activity
All Bedroom Types

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	67	72	86	57	47
Average Sale Price	\$38,547	\$36,111	\$32,568	\$37,344	\$43,255
Average Square Feet	1,527	1,420	1,348	1,374	1,573
Average Price/SF	\$25.24	\$25.43	\$24.16	\$27.18	\$27.50
Average Year Built	1954	1958	1958	1960	1956

Source: Tillman County Assessor, via County Records, Inc.

Between 2011 and 2014, the average sale has varied somewhat but has generally been between \$36,000 and \$38,000. The average sale price in 2015 was \$43,255 for an average price per square foot of \$27.50/SF. The average year of construction is typically between 1955 and 1960, which agrees with data furnished by the Census Bureau.

Foreclosure Rates

The next table presents foreclosure rate data for Tillman County, compiled by the Federal Reserve Bank of New York. This data is effective as of May 2014.

Foreclosure Rates

Geography	% of Outstanding Mortgages in Foreclosure, May 2014
Tillman County	3.2%
State of Oklahoma	2.1%
United States	2.1%
Rank among Counties in Oklahoma*:	12

* Rank among the 64 counties for which foreclosure rates are available

Source: Federal Reserve Bank of New York, Community Credit Profiles

According to the data provided, the foreclosure rate in Tillman County was 3.2% in May 2014. The county ranked 12 out of 64 counties in terms of highest foreclosure rates in Oklahoma. This rate compares with the statewide and nationwide foreclosure rates, both of which were 2.1%. With among the highest foreclosure rates in Oklahoma, Tillman County's home sales market has likely been negatively impacted foreclosures, which is most probably exacerbated by comparatively lower incomes than the rest of the state, and higher poverty rates.

Rental Market

This section will discuss supply and demand factors for the rental market in Tillman County, based on publicly available sources as well as our own surveys of landlords and rental properties in the area.

Gross Rent Levels

The following table presents data regarding gross rental rates in Tillman County. Gross rent is the sum of contract rent, plus all utilities such as electricity, gas, water, sewer and trash, as applicable (telephone, cable, and/or internet expenses are not included in these figures).

2013 Rental Units by Gross Rent						
	Frederick		Tillman County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Rental Units:	441		799		475,345	
With cash rent:	317		544		432,109	
Less than \$100	0	0.00%	0	0.00%	2,025	0.43%
\$100 to \$149	0	0.00%	1	0.13%	2,109	0.44%
\$150 to \$199	53	12.02%	59	7.38%	4,268	0.90%
\$200 to \$249	0	0.00%	5	0.63%	8,784	1.85%
\$250 to \$299	0	0.00%	5	0.63%	8,413	1.77%
\$300 to \$349	0	0.00%	16	2.00%	9,107	1.92%
\$350 to \$399	5	1.13%	33	4.13%	10,932	2.30%
\$400 to \$449	46	10.43%	54	6.76%	15,636	3.29%
\$450 to \$499	51	11.56%	77	9.64%	24,055	5.06%
\$500 to \$549	16	3.63%	25	3.13%	31,527	6.63%
\$550 to \$599	16	3.63%	33	4.13%	33,032	6.95%
\$600 to \$649	57	12.93%	74	9.26%	34,832	7.33%
\$650 to \$699	42	9.52%	70	8.76%	32,267	6.79%
\$700 to \$749	0	0.00%	13	1.63%	30,340	6.38%
\$750 to \$799	9	2.04%	27	3.38%	27,956	5.88%
\$800 to \$899	5	1.13%	15	1.88%	45,824	9.64%
\$900 to \$999	17	3.85%	17	2.13%	34,153	7.18%
\$1,000 to \$1,249	0	0.00%	0	0.00%	46,884	9.86%
\$1,250 to \$1,499	0	0.00%	15	1.88%	14,699	3.09%
\$1,500 to \$1,999	0	0.00%	5	0.63%	10,145	2.13%
\$2,000 or more	0	0.00%	0	0.00%	5,121	1.08%
No cash rent	124	28.12%	255	31.91%	43,236	9.10%
Median Gross Rent		\$511		\$544		\$699

Sources: 2009-2013 American Community Survey, Tables B25063 and B25064

Median gross rent in Tillman County is estimated to be \$544, which is -22.2% less than Oklahoma's median gross rent of \$699/month. Median gross rent in Frederick is estimated to be \$511.

Median Gross Rent by Year of Construction

The next table presents data from the American Community Survey regarding median gross rent by year of housing unit construction. Note that dashes in the table indicate the Census Bureau had insufficient data to provide a median rent figure for that specific data field.

2013 Median Gross Rent by Year of Construction

	Frederick Median Rent	Tillman County Median Rent	State of Oklahoma Median Rent
Total Rental Units:			
Built 2010 or Later	-	-	\$933
Built 2000 to 2009	\$454	\$483	\$841
Built 1990 to 1999	-	\$688	\$715
Built 1980 to 1989	-	\$413	\$693
Built 1970 to 1979	\$480	\$475	\$662
Built 1960 to 1969	\$634	\$633	\$689
Built 1950 to 1959	\$610	\$575	\$714
Built 1940 to 1949	\$611	\$602	\$673
Built 1939 or Earlier	-	\$693	\$651

Note: Dashes indicate the Census Bureau had insufficient data to estimate a median gross rent.

Source: 2009-2013 American Community Survey, Table 25111

The highest median gross rent in Tillman County is among housing units constructed before 1939 (likely representing single family rental homes), which is \$693 per month. In order to be affordable, a household would need to earn at least \$27,720 per year to afford such a unit.

Frederick Rental Survey Data

The next table shows the results of our rental survey of Frederick. There is very limited multifamily housing in Frederick.

Frederick Rental Properties - Affordable

Name	Type	Year Built	Bedrooms	Rate	Vacancy
Great Plains	USDA / LIHTC - Family	1991	1	30%	N/A
Great Plains	USDA / LIHTC - Family	1991	2	30%	N/A
Great Plains	USDA / LIHTC - Family	1991	3	30%	N/A
Grand Apartments	Affordable - Elderly	1929	Studio	N/A	N/A
Grand Apartments	Affordable - Elderly	1929	1	N/A	N/A

Great Plains Apartments is rent-assisted by the USDA, and is also subject to the Affordable Housing Tax Credit program. Rental rates are based on 30% of the tenant's income. We were unable to confirm its current occupancy. Grand Apartments is a historic hotel which was renovated in the late 1990s as affordable housing for seniors, though it does not appear to be directly subsidized. It is operated by the Community Action Development Corporation, and reportedly it stays fully occupied much of the time.

Summary of HUD Subsidized Properties

The following tables present data for housing units and households subsidized by the United States Department of Housing and Urban Development, for Tillman County, the State of Oklahoma, and the United States. This data is taken from HUD's "Picture of Subsidized Households" data for 2013, the most recent year available.

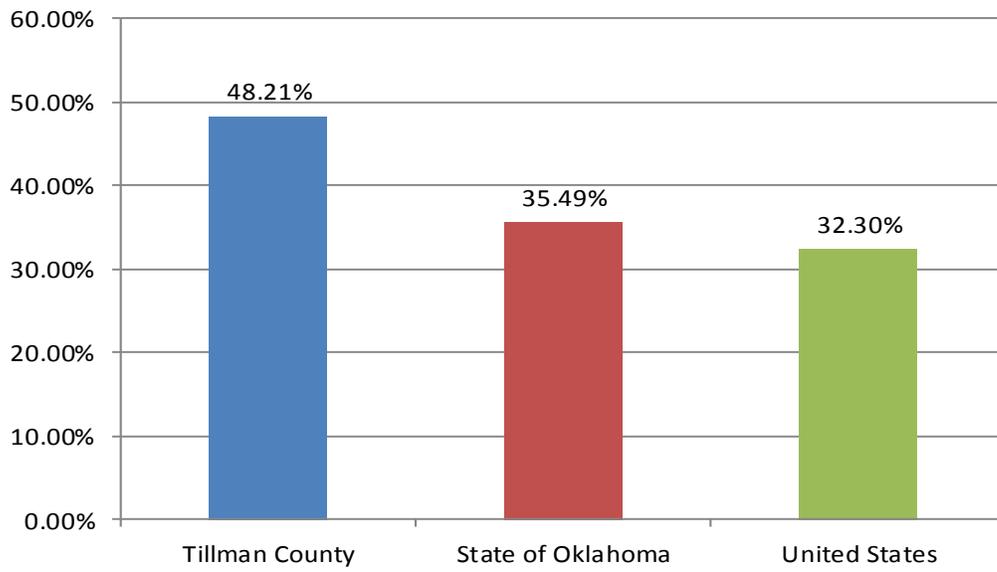
HUD Programs in Tillman County

	# Units	Occupancy Rate	Avg. Household Income	Tenant Contribution	Federal Contribution	% of Total Rent
Tillman County						
Public Housing	62	98%	\$15,943	\$201	\$272	42.55%
Housing Choice Vouchers	4	N/A	N/A	N/A	N/A	N/A
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	0	N/A	N/A	N/A	N/A	N/A
Section 236	0	N/A	N/A	N/A	N/A	N/A
Multi-Family Other	23	32%	N/A	N/A	N/A	N/A
Summary of All HUD Programs	89	82%	\$14,501	\$214	\$230	48.21%
State of Oklahoma						
Public Housing	13,088	96%	\$11,328	\$215	\$371	36.71%
Housing Choice Vouchers	24,651	93%	\$10,766	\$283	\$470	37.57%
Mod Rehab	158	89%	\$7,272	\$129	\$509	20.17%
Section 8 NC/SR	4,756	93%	\$10,730	\$242	\$465	34.24%
Section 236	428	89%	\$8,360	\$192	\$344	35.82%
Multi-Family Other	7,518	91%	\$7,691	\$176	\$448	28.18%
Summary of All HUD Programs	50,599	94%	\$10,360	\$242	\$440	35.49%
United States						
Public Housing	1,150,867	94%	\$13,724	\$275	\$512	34.91%
Housing Choice Vouchers	2,386,237	92%	\$13,138	\$346	\$701	33.04%
Mod Rehab	19,148	87%	\$8,876	\$153	\$664	18.78%
Section 8 NC/SR	840,900	96%	\$12,172	\$274	\$677	28.80%
Section 236	126,859	93%	\$14,347	\$211	\$578	26.74%
Multi-Family Other	656,456	95%	\$11,135	\$255	\$572	30.80%
Summary of All HUD Programs	5,180,467	94%	\$12,892	\$304	\$637	32.30%

Source: U.S. Dept. of Housing and Urban Development, Picture of Subsidized Households - 2013

Among all HUD programs, there are 89 housing units located within Tillman County, with an overall occupancy rate of 82%. The average household income among households living in these units is \$14,501. Total monthly rent for these units averages \$444, with the federal contribution averaging \$230 (51.79%) and the tenant's contribution averaging \$214 (48.21%).

Percentage of Total Rent Paid by Tenant - HUD Subsidized Properties



Source: 2013 HUD Picture of Subsidized Households

The following table presents select demographic variables among the households living in units subsidized by HUD.

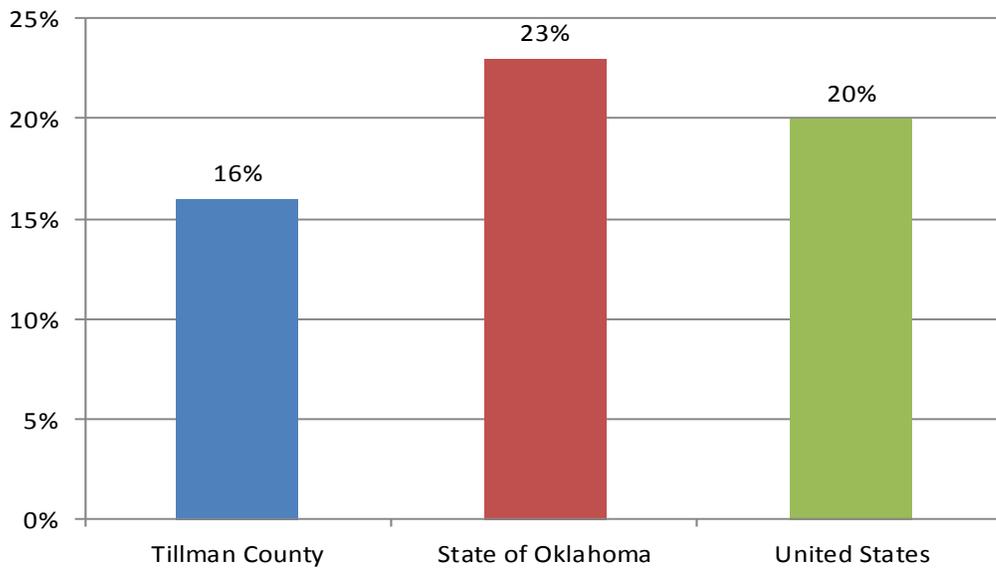


Demographics of Persons in HUD Programs in Tillman County						
Tillman County	# Units	% Single Mothers	% w/ Disability	% Age 62+	% Age 62+ w/ Disability	% Minority
Public Housing	62	17%	17%	37%	26%	24%
Housing Choice Vouchers	4	N/A	N/A	N/A	N/A	25%
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	0	N/A	N/A	N/A	N/A	N/A
Section 236	0	N/A	N/A	N/A	N/A	N/A
Multi-Family Other	23	N/A	N/A	N/A	N/A	11%
Summary of All HUD Programs	89	12%	16%	51%	13%	21%
State of Oklahoma						
Public Housing	13,088	33%	22%	28%	63%	44%
Housing Choice Vouchers	24,651	46%	25%	17%	77%	60%
Mod Rehab	158	46%	17%	13%	67%	42%
Section 8 NC/SR	4,756	14%	32%	52%	28%	25%
Section 236	428	32%	22%	24%	32%	33%
Multi-Family Other	7,518	42%	12%	22%	25%	47%
Summary of All HUD Programs	50,599	38%	23%	25%	53%	50%
United States						
Public Housing	1,150,867	36%	20%	31%	48%	71%
Housing Choice Vouchers	2,386,237	44%	22%	22%	68%	67%
Mod Rehab	19,148	28%	27%	24%	69%	71%
Section 8 NC/SR	840,900	18%	21%	56%	19%	45%
Section 236	126,859	25%	13%	47%	16%	59%
Multi-Family Other	656,456	31%	13%	44%	16%	63%
Summary of All HUD Programs	5,180,467	36%	20%	33%	40%	64%

Source: U.S. Dept. of Housing and Urban Development, Picture of Subsidized Households - 2013

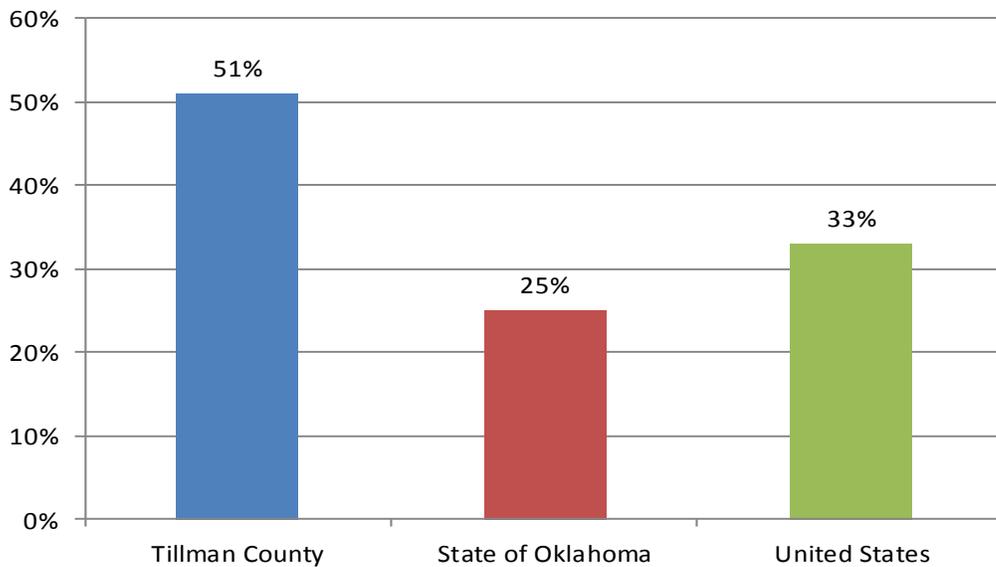
12% of housing units are occupied by single parents with female heads of household. 16% of households have at least one person with a disability. 51% of households have either a householder or spouse age 62 or above. Of the households age 62 or above, 13% have one or more disabilities. Finally, 21% of households are designated as racial or ethnic minorities.

Percentage of Households with Disabilities - HUD Subsidized Properties



Source: 2013 HUD Picture of Subsidized Households

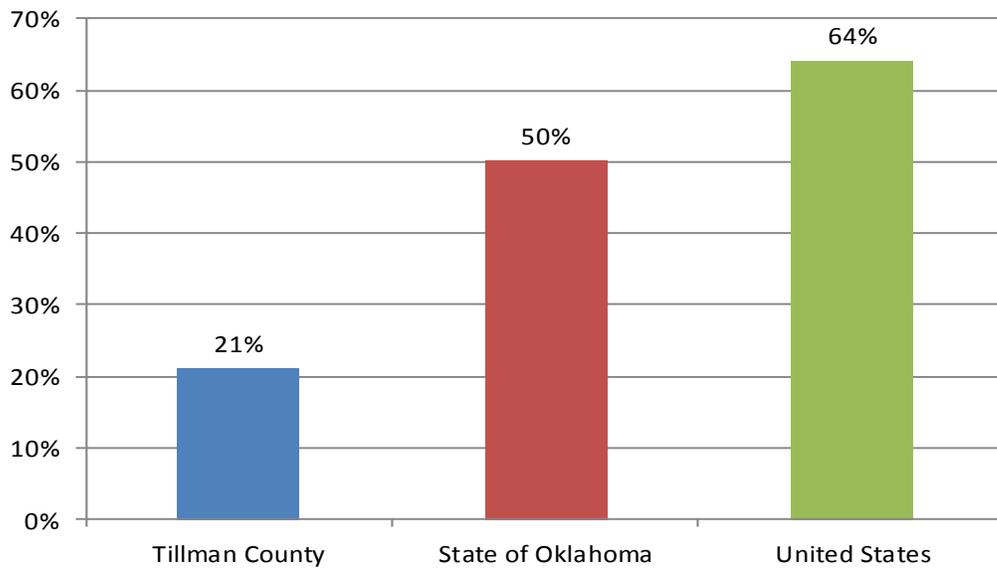
Percentage of Households Age 62+ - HUD Subsidized Properties



Source: 2013 HUD Picture of Subsidized Households



Percentage of Minority Households - HUD Subsidized Properties



Source: 2013 HUD Picture of Subsidized Households



Projected Housing Need

Consolidated Housing Affordability Strategy (CHAS)

This section will analyze data from the U.S. Department of Housing and Urban Development's Consolidated Housing Affordability Strategy (CHAS) dataset for Tillman County. This data is typically separated into household income thresholds, defined by HUD Area Median Family Income (HAMFI). HUD Area Median Family Income (HAMFI) is equivalent to Area Median Income (AMI) for the purposes of this report. This data is considered the best indicator of housing need available which separates need into household income thresholds as defined by HUD.

Cost Burden by Income Threshold

The next table presents CHAS data for Tillman County regarding housing cost burden as a percentage of household income. Renter costs are considered to be the sum of contract rent and any utilities not paid by the landlord (such as electricity, natural gas, and water, but not including telephone service, cable service, internet service, etc.). Homeowner costs include mortgage debt service (or similar debts such as deeds of trust or contracts for deed), utilities, property taxes and property insurance.

Households are considered to be cost overburdened if their housing costs (renter or owner) are greater than 30% of their gross household income. A household is "severely" overburdened if their housing costs are greater than 50% of their gross household income.

Tillman County : CHAS - Housing Cost Burden by HAMFI				
Household Income / Cost Burden	Owners		Renters	
	Number	Percent	Number	Percent
Income < 30% HAMFI	150		145	
Cost Burden Less Than 30%	55	36.67%	50	34.48%
Cost Burden Between 30%-50%	50	33.33%	4	2.76%
Cost Burden Greater Than 50%	35	23.33%	85	58.62%
Not Computed (no/negative income)	4	2.67%	4	2.76%
Income 30%-50% HAMFI	200		225	
Cost Burden Less Than 30%	120	60.00%	145	64.44%
Cost Burden Between 30%-50%	30	15.00%	50	22.22%
Cost Burden Greater Than 50%	50	25.00%	30	13.33%
Not Computed (no/negative income)	0	0.00%	0	0.00%
Income 50%-80% HAMFI	360		205	
Cost Burden Less Than 30%	315	87.50%	195	95.12%
Cost Burden Between 30%-50%	40	11.11%	10	4.88%
Cost Burden Greater Than 50%	4	1.11%	0	0.00%
Not Computed (no/negative income)	0	0.00%	0	0.00%
Income 80%-100% HAMFI	270		75	
Cost Burden Less Than 30%	250	92.59%	70	93.33%
Cost Burden Between 30%-50%	10	3.70%	4	5.33%
Cost Burden Greater Than 50%	10	3.70%	0	0.00%
Not Computed (no/negative income)	0	0.00%	0	0.00%
All Incomes	2,075		800	
Cost Burden Less Than 30%	1,735	83.61%	610	76.25%
Cost Burden Between 30%-50%	215	10.36%	68	8.50%
Cost Burden Greater Than 50%	119	5.73%	115	14.38%
Not Computed (no/negative income)	4	0.19%	4	0.50%

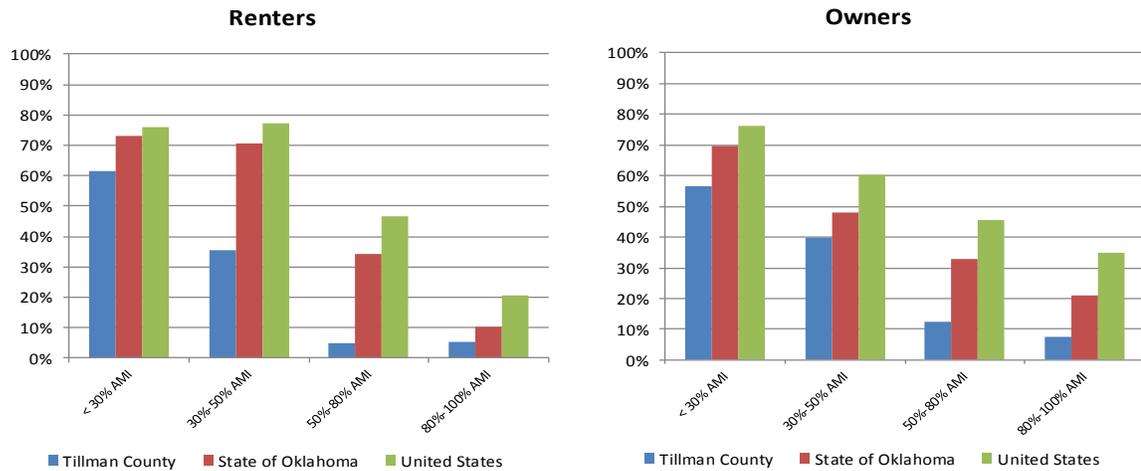
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 8

The next table summarizes the data from the previous table for households with cost burden greater than 30% of gross income, followed by a chart comparing these figures for Tillman County with the State of Oklahoma as a whole, and the United States.

Tillman County : Households by Income by Cost Burden				
Household Income Threshold	Owners		Renters	
	Total	% w/ Cost > 30% Income	Total	% w/ Cost > 30% Income
Income < 30% HAMFI	150	56.67%	145	61.38%
Income 30%-50% HAMFI	200	40.00%	225	35.56%
Income 50%-80% HAMFI	360	12.22%	205	4.88%
Income 80%-100% HAMFI	270	7.41%	75	5.33%
All Incomes	2,075	16.10%	800	22.88%

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 8

Households by Income Threshold: Percentage with Housing Cost Over 30% of Income



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 6

Substandard Conditions / Overcrowding by Income Threshold

The following table summarizes data regarding substandard housing conditions and overcrowding, separated by owner/renter and HAMFI income threshold. Substandard housing conditions are defined by HUD as any housing unit lacking either complete plumbing or a complete kitchen.

A housing unit without “complete plumbing” is any housing unit lacking one or more of the following features (they do not need to all be present in the same room):

1. Hot and cold running water
2. A flush toilet
3. A bathtub or shower

A lack of a complete kitchen is any housing unit lacking any one or more of the three following items:

1. A sink with a faucet
2. A stove or range
3. A refrigerator

Households are considered to be “overcrowded” if the household has more than 1.0 persons per room (note that this definition is “room” including bedrooms, living rooms and kitchens, as opposed to only “bedrooms”), and is “severely overcrowded” if the household has more than 1.5 persons per room.



Tillman County : CHAS - HAMFI by Substandard Conditions / Overcrowding				
Household Income / Housing Problem	Owners		Renters	
	Number	Percent	Number	Percent
Income < 30% HAMFI	150		145	
Between 1.0 and 1.5 Persons per Room	0	0.00%	0	0.00%
More than 1.5 Persons per Room	4	2.67%	0	0.00%
Lacks Complete Kitchen or Plumbing	4	2.67%	4	2.76%
Income 30%-50% HAMFI	200		225	
Between 1.0 and 1.5 Persons per Room	0	0.00%	15	6.67%
More than 1.5 Persons per Room	4	2.00%	0	0.00%
Lacks Complete Kitchen or Plumbing	4	2.00%	0	0.00%
Income 50%-80% HAMFI	360		205	
Between 1.0 and 1.5 Persons per Room	10	2.78%	0	0.00%
More than 1.5 Persons per Room	0	0.00%	0	0.00%
Lacks Complete Kitchen or Plumbing	0	0.00%	0	0.00%
Income 80%-100% HAMFI	270		75	
Between 1.0 and 1.5 Persons per Room	4	1.48%	0	0.00%
More than 1.5 Persons per Room	0	0.00%	0	0.00%
Lacks Complete Kitchen or Plumbing	0	0.00%	0	0.00%
All Incomes	2,075		800	
Between 1.0 and 1.5 Persons per Room	18	0.87%	40	5.00%
More than 1.5 Persons per Room	12	0.58%	0	0.00%
Lacks Complete Kitchen or Plumbing	12	0.58%	4	0.50%

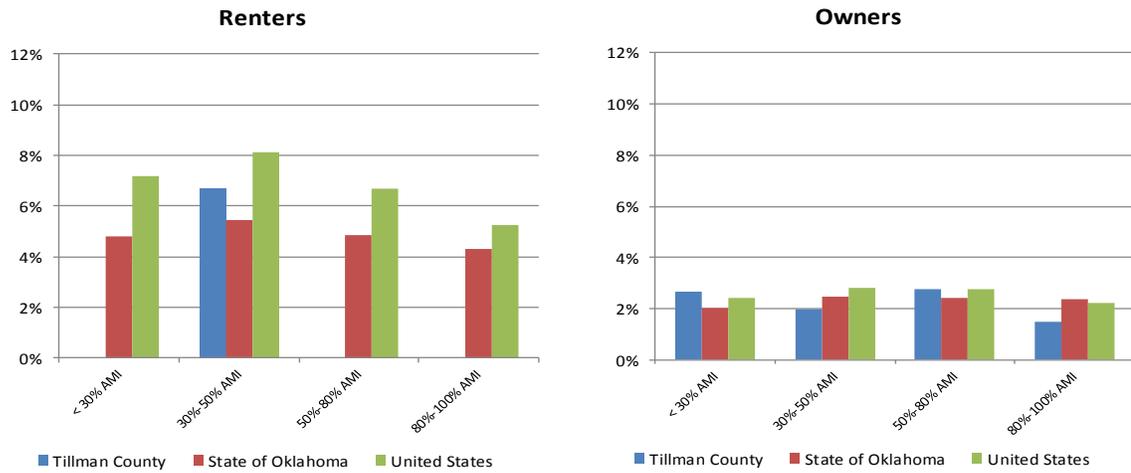
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 3

The next table summarizes this data for overcrowding (i.e. all households with greater than 1.0 persons per room), with a chart comparing this data between Tillman County, Oklahoma and the nation.

Tillman County : Households by Income by Overcrowding					
Household Income Threshold	Total	Owners		Renters	
		% > 1.0 Persons per Room	Total	% > 1.0 Persons per Room	Total
Income < 30% HAMFI	150	2.67%	145	0.00%	
Income 30%-50% HAMFI	200	2.00%	225	6.67%	
Income 50%-80% HAMFI	360	2.78%	205	0.00%	
Income 80%-100% HAMFI	270	1.48%	75	0.00%	
All Incomes	2,075	1.45%	800	5.00%	

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 3

Households by Income Threshold: Percentage with More than 1.0 Persons per Room



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 3

The table following summarizes this data for substandard housing conditions, with a comparison chart between Tillman County, the state and the nation.

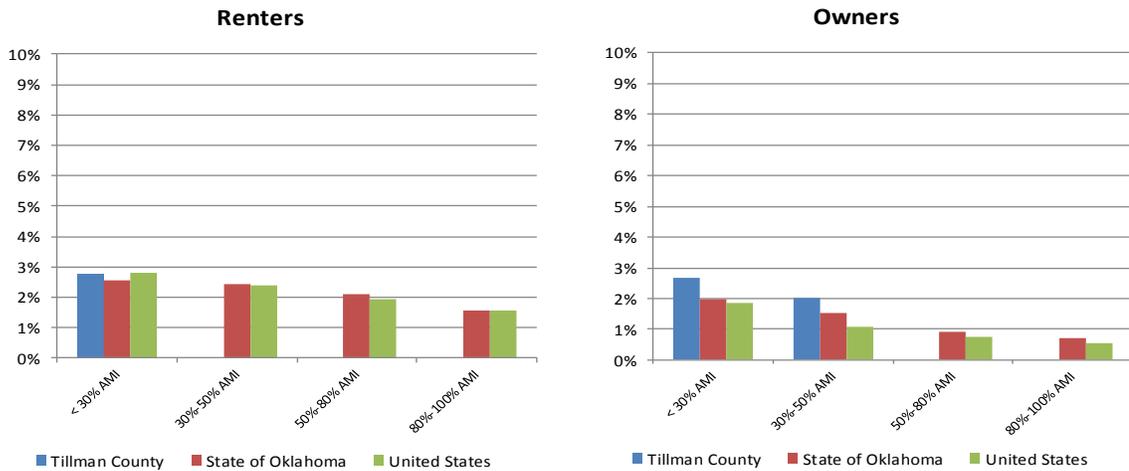
Tillman County : Households by Income by Substandard Conditions

Household Size/Type	Total	Owners		Renters	
		% Lacking Kitchen or Plumbing	Total	% Lacking Kitchen or Plumbing	Total
Income < 30% HAMFI	150	2.67%	145	2.76%	145
Income 30%-50% HAMFI	200	2.00%	225	0.00%	225
Income 50%-80% HAMFI	360	0.00%	205	0.00%	205
Income 80%-100% HAMFI	270	0.00%	75	0.00%	75
All Incomes	2,075	0.58%	800	0.50%	800

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 3



Households by Income Threshold: Percentage Lacking Complete Plumbing and/or Kitchen



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 3

Cost Burden by Household Type

The following table provides a breakdown of households by HAMFI, and by household type and size, and by housing cost burden. The categories of household type provided by HUD are:

- Elderly Family: Households with two persons, either or both age 62 or over.
- Small Family: 2 persons, neither age 62 or over, or families with 3 or 4 persons of any age.
- Large Family: families with 5 or more persons.
- Elderly Non-Family (single persons age 62 or over, or unrelated elderly individuals)
- Non-Elderly, Non-Family: all other households.



Tillman County : CHAS - Housing Cost Burden by Household Type / HAMFI						
Income, Household Size/Type	Total	Owners			Renters	
		No. w/ Cost > 30% Income	Pct. w/ Cost > 30% Income	Total	No. w/ Cost > 30% Income	Pct. w/ Cost > 30% Income
Income < 30% HAMFI	150	87	58.00%	145	87	60.00%
Elderly Family	15	14	93.33%	0	0	N/A
Small Family (2-4 persons)	45	20	44.44%	75	34	45.33%
Large Family (5 or more persons)	4	4	100.00%	10	4	40.00%
Elderly Non-Family	60	24	40.00%	30	29	96.67%
Non-Family, Non-Elderly	25	25	100.00%	30	20	66.67%
Income 30%-50% HAMFI	200	81	40.50%	225	77	34.22%
Elderly Family	60	25	41.67%	10	4	40.00%
Small Family (2-4 persons)	15	8	53.33%	70	30	42.86%
Large Family (5 or more persons)	10	4	40.00%	45	4	8.89%
Elderly Non-Family	95	40	42.11%	80	35	43.75%
Non-Family, Non-Elderly	20	4	20.00%	15	4	26.67%
Income 50%-80% HAMFI	360	52	14.44%	205	8	3.90%
Elderly Family	95	24	25.26%	15	4	26.67%
Small Family (2-4 persons)	85	14	16.47%	65	4	6.15%
Large Family (5 or more persons)	40	10	25.00%	0	0	N/A
Elderly Non-Family	80	0	0.00%	15	0	0.00%
Non-Family, Non-Elderly	60	4	6.67%	110	0	0.00%
Income 80%-100% HAMFI	270	22	8.15%	75	4	5.33%
Elderly Family	50	0	0.00%	4	0	0.00%
Small Family (2-4 persons)	130	14	10.77%	40	4	10.00%
Large Family (5 or more persons)	15	0	0.00%	0	0	N/A
Elderly Non-Family	15	8	53.33%	4	0	0.00%
Non-Family, Non-Elderly	60	0	0.00%	25	0	0.00%
All Incomes	2,075	342	16.48%	800	176	22.00%
Elderly Family	535	108	20.19%	49	8	16.33%
Small Family (2-4 persons)	785	76	9.68%	330	72	21.82%
Large Family (5 or more persons)	159	38	23.90%	85	8	9.41%
Elderly Non-Family	330	72	21.82%	133	64	48.12%
Non-Family, Non-Elderly	265	48	18.11%	195	24	12.31%

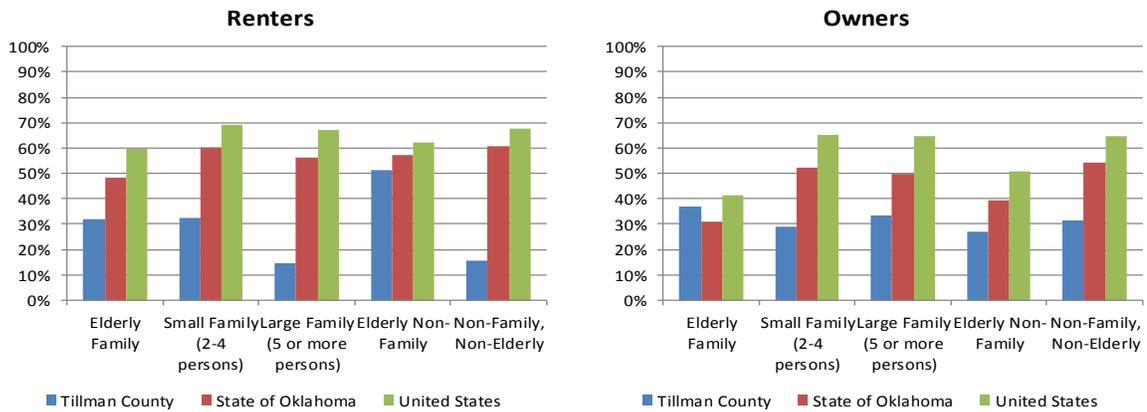
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Tillman County : Households under 80% AMI by Cost Burden

Household Size/Type	Total	Owners		Renters	
		No. w/ Cost > 30% Income	Pct. w/ Cost > 30% Income	No. w/ Cost > 30% Income	Pct. w/ Cost > 30% Income
Income < 80% HAMFI	710	220	30.99%	575	29.91%
Elderly Family	170	63	37.06%	25	8
Small Family (2-4 persons)	145	42	28.97%	210	68
Large Family (5 or more persons)	54	18	33.33%	55	8
Elderly Non-Family	235	64	27.23%	125	64
Non-Family, Non-Elderly	105	33	31.43%	155	24

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Households Under 80% of AMI: Percentage Housing Cost Overburdened



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Housing Problems by Household Type

The next set of tables presents data by household type and whether or not the household is experiencing *any* housing problems. Housing problems are defined by HUD as any household meeting any of the three following criteria:

1. Housing costs greater than 30% of income (cost-overburdened).
2. Living in a housing unit lacking complete plumbing or a complete kitchen (substandard housing unit).
3. Living in a housing unit with more than 1.0 persons per room (overcrowding).



Tillman County : CHAS - Housing Problems by Household Type and HAMFI						
Income, Household Size/Type	Total	Owners			Renters	
		No. w/ Housing Problems	Pct. w/ Housing Problems	Total	No. w/ Housing Problems	Pct. w/ Housing Problems
Income < 30% HAMFI	150	89	59.33%	145	89	61.38%
Elderly Family	15	15	100.00%	0	0	N/A
Small Family (2-4 persons)	45	20	44.44%	75	35	46.67%
Large Family (5 or more persons)	4	4	100.00%	10	4	40.00%
Elderly Non-Family	60	25	41.67%	30	30	100.00%
Non-Family, Non-Elderly	25	25	100.00%	30	20	66.67%
Income 30%-50% HAMFI	200	82	41.00%	225	83	36.89%
Elderly Family	60	30	50.00%	10	4	40.00%
Small Family (2-4 persons)	15	4	26.67%	70	30	42.86%
Large Family (5 or more persons)	10	4	40.00%	45	15	33.33%
Elderly Non-Family	95	40	42.11%	80	30	37.50%
Non-Family, Non-Elderly	20	4	20.00%	15	4	26.67%
Income 50%-80% HAMFI	360	59	16.39%	205	8	3.90%
Elderly Family	95	25	26.32%	15	4	26.67%
Small Family (2-4 persons)	85	10	11.76%	65	4	6.15%
Large Family (5 or more persons)	40	20	50.00%	0	0	N/A
Elderly Non-Family	80	0	0.00%	15	0	0.00%
Non-Family, Non-Elderly	60	4	6.67%	110	0	0.00%
Income Greater than 80% of HAMFI	1,365	134	9.82%	220	29	13.18%
Elderly Family	370	45	12.16%	25	0	0.00%
Small Family (2-4 persons)	640	40	6.25%	125	4	3.20%
Large Family (5 or more persons)	105	30	28.57%	30	25	83.33%
Elderly Non-Family	95	4	4.21%	4	0	0.00%
Non-Family, Non-Elderly	160	15	9.38%	35	0	0.00%
All Incomes	2,075	364	17.54%	795	209	26.29%
Elderly Family	540	115	21.30%	50	8	16.00%
Small Family (2-4 persons)	785	74	9.43%	335	73	21.79%
Large Family (5 or more persons)	159	58	36.48%	85	44	51.76%
Elderly Non-Family	330	69	20.91%	129	60	46.51%
Non-Family, Non-Elderly	265	48	18.11%	190	24	12.63%

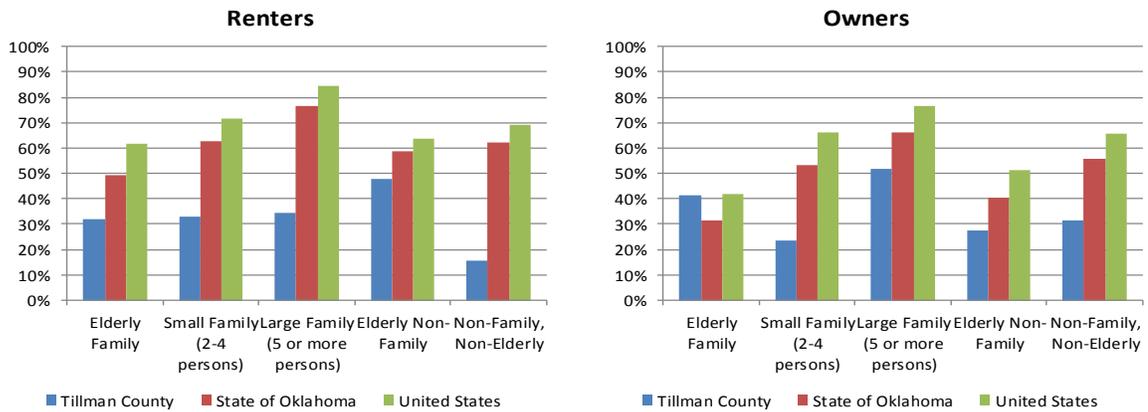
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 16

Tillman County : Households under 80% AMI by Housing Problems

Household Size/Type	Total	Owners		Renters		
		No. w/ Housing Problems	Pct. w/ Housing Problems	No. w/ Housing Problems	Pct. w/ Housing Problems	
Income < 80% HAMFI	710	230	32.39%	575	31.30%	
Elderly Family	170	70	41.18%	25	8	32.00%
Small Family (2-4 persons)	145	34	23.45%	210	69	32.86%
Large Family (5 or more persons)	54	28	51.85%	55	19	34.55%
Elderly Non-Family	235	65	27.66%	125	60	48.00%
Non-Family, Non-Elderly	105	33	31.43%	155	24	15.48%

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Households Under 80% of AMI: Percentage with Housing Problems



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Housing Problems by Race / Ethnicity

Data presented in the following tables summarizes housing problems (as previously defined), by HAMFI threshold, and by race/ethnicity, for Tillman County. Under CFR 91.305(b)(1)(ii)(2), racial or ethnic groups have disproportionate need if “the percentage of persons in a category of need who are members of a particular racial or ethnic group in a category of need is at least 10 percentage points higher than the percentage of persons in the category as a whole.”



Tillman County : CHAS - Housing Problems by Race / Ethnicity and HAMFI						
Income, Race / Ethnicity	Total	Owners			Renters	
		No. w/ Housing Problems	Pct. w/ Housing Problems	Total	No. w/ Housing Problems	Pct. w/ Housing Problems
Income < 30% HAMFI	149	90	60.4%	144	90	62.5%
White alone, non-Hispanic	79	75	94.9%	48	40	83.3%
Black or African-American alone	4	0	0.0%	10	10	100.0%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	0	0	N/A	4	4	100.0%
Pacific Islander alone	0	0	N/A	0	0	N/A
Hispanic, any race	60	10	16.7%	85	40	47.1%
Other (including multiple races)	8	4	50.0%	0	0	N/A
Income 30%-50% HAMFI	200	85	42.5%	225	90	40.0%
White alone, non-Hispanic	155	65	41.9%	175	60	34.3%
Black or African-American alone	24	20	83.3%	20	10	50.0%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	4	0	0.0%	0	0	N/A
Pacific Islander alone	0	0	N/A	0	0	N/A
Hispanic, any race	4	0	0.0%	19	15	78.9%
Other (including multiple races)	10	0	0.0%	4	4	100.0%
Income 50%-80% HAMFI	360	55	15.3%	205	10	4.9%
White alone, non-Hispanic	285	25	8.8%	125	10	8.0%
Black or African-American alone	4	4	100.0%	40	0	0.0%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	4	0	0.0%	10	0	0.0%
Pacific Islander alone	0	0	N/A	0	0	N/A
Hispanic, any race	60	25	41.7%	35	0	0.0%
Other (including multiple races)	10	0	0.0%	0	0	N/A
Income 80%-100% HAMFI	270	25	9.3%	74	4	5.4%
White alone, non-Hispanic	165	25	15.2%	34	4	11.8%
Black or African-American alone	40	0	0.0%	10	0	0.0%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	4	0	0.0%	0	0	N/A
Pacific Islander alone	0	0	N/A	0	0	N/A
Hispanic, any race	55	0	0.0%	30	0	0.0%
Other (including multiple races)	4	0	0.0%	4	0	0.0%
All Incomes	2,079	370	17.8%	798	219	27.4%
White alone, non-Hispanic	1,624	290	17.9%	477	114	23.9%
Black or African-American alone	107	24	22.4%	95	20	21.1%
Asian alone	4	0	0.0%	0	0	N/A
American Indian alone	26	4	15.4%	18	8	44.4%
Pacific Islander alone	0	0	N/A	4	0	0.0%
Hispanic, any race	268	39	14.6%	199	70	35.2%
Other (including multiple races)	47	4	8.5%	8	4	50.0%

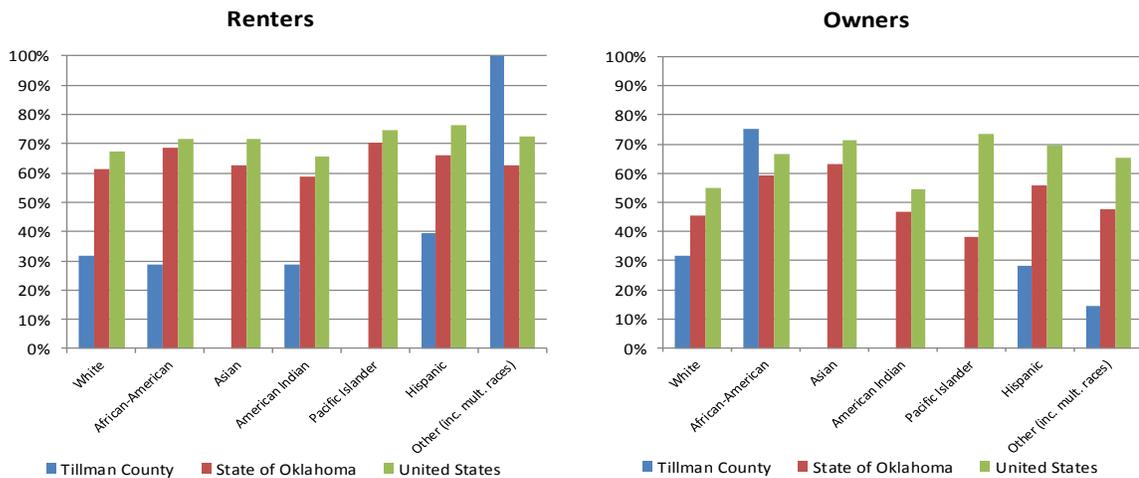
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 1

Tillman County : Households under 80% AMI by Race/Ethnicity

Household Size/Type	Total	Owners		Renters	
		No. w/ Housing Problems	Pct. w/ Housing Problems	No. w/ Housing Problems	Pct. w/ Housing Problems
Income < 80% HAMFI	709	230	32.44%	574	33.10%
White alone, non-Hispanic	519	165	31.79%	348	31.61%
Black or African-American alone	32	24	75.00%	70	28.57%
Asian alone	0	0	N/A	0	N/A
American Indian alone	8	0	0.00%	14	28.57%
Pacific Islander alone	0	0	N/A	0	N/A
Hispanic, any race	124	35	28.23%	139	39.57%
Other (including multiple races)	28	4	14.29%	4	100.00%

Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

Households Under 80% of AMI: Percentage with Housing Problems by Race



Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

CHAS Conclusions

The previous data notes many areas of need (and severe need) among the existing population of Tillman County. The greatest needs are among households with incomes less than 30% of Area Median Income. Several other areas of note:

- Among households with incomes less than 50% of Area Median Income, there are 169 renter households that are cost overburdened, and 165 homeowners that are cost overburdened.
- Among **elderly** households with incomes less than 50% of Area Median Income, there are 68 renter households that are cost overburdened, and 103 homeowners that are cost overburdened.



- 39.6% of Hispanic renters with incomes less than 80% of Area Median Income have one or more housing problems, and 75.0% of African American homeowners with incomes less than 80% of Area Median Income have one or more housing problems.

Overall Anticipated Housing Demand

Future demand for housing units in Tillman County can be estimated from population and household growth. Population estimates are based on known factors such as noted increases in the city employment base and indications from demographic services. In this case we have considered data from both the U.S. Census Bureau and Nielsen SiteReports. The estimates of changes in households and population were presented in a previous section of this report. The anticipated future demand is estimated for Frederick, as well as Tillman County as a whole. The calculations are shown in the following tables.

Frederick Anticipated Demand

As indicated throughout the report, the population, households and number of housing units have decreased over the last fifteen years. The following table summarizes population, household, and housing unit changes.

Frederick Historical Population and Housing Changes					
	2000 Census	2010 Census	% Change	2015 Estimate	% Change
Population	4,637	3,940	-1.62%	3,760	-0.93%
Households	1,797	1,568	-1.35%	1,518	-0.65%
Housing Units	2,145	1,981	-0.79%	1,959	-0.22%

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

As shown, the number of housing units is declining at a faster rate than the population is decreasing. The city of Frederick lost 7.6% of its housing stock from 2000 to 2010. The older average age of the housing stock indicates that the condition of the housing units will continue to decline at a rapid rate in the future. If population decline stabilizes in the future, available housing will be increasingly difficult to find in the city of Frederick.

Tillman County Anticipated Demand

As indicated throughout the report, the population, households and number of housing units have decreased over the last fifteen years. The total population of Tillman County has not posted a net increase since the period between the 1920 and 1930 censuses. The following table summarizes population, household, and housing unit changes.

Tillman County Historical Population and Housing Changes					
	2000 Census	2010 Census	% Change	2015 Estimate	% Change
Population	9,287	7,992	-1.49%	7,554	-1.12%
Households	3,594	3,216	-1.11%	3,065	-0.96%
Housing Units	4,342	4,077	-0.63%	4,024	-0.26%

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

As mentioned previously, the population is declining at a rate faster than the number of housing units declined. The loss of housing units may be attributed to demolitions outpacing new construction. The

percentage loss of households was not as high as the percentage population loss due to declining average household size. It is unlikely that the average household size will significantly decrease in the future.

Although a large portion of the housing stock was torn down during the 2000s, there were 861 more housing units than households in the county according to the 2010 Census. It is the opinion of this analyst that minimal demand exists for new housing units. This opinion is based on the projection that the population of Tillman County will continue to decline in the future. However, the housing stock of Tillman County is rapidly aging and deteriorating. A small amount of affordable new housing would improve the county's housing infrastructure and give more housing options to current residents of Tillman County.

Special Topics

Tillman County Disaster Resiliency Assessment

The purpose of this section is to assess at the county level key components of disaster resiliency. Housing location and quality as well as planning activities can help reduce impacts from disaster events and allow for faster recovery. Disasters can include tornadoes, extreme weather, high winds, as well as man-made events. These events may largely be inevitable, but the ability to reduce damage and casualties as well recovery can be improved with good planning.

C.0 Comprehensive Plans & Hazard Mitigation Plans

There are 7 key cities within the county (Frederick, Grandfield, Tipton, Davidson, Manitou, Hollister, Loveland).

Comprehensive plans are the guiding documents for cities of various sizes to address key aspects of their community from land use, transportation, environment, housing, and economic development.

The other key plan for a city to manage, mitigate and plan for recovery related to disasters is a **Hazard Mitigation Plan** (or Emergency Management Plan). Often low density counties, the Hazard Mitigation Plan is done at the county level, though some cities may augment the county plan with a city plan.

Tillman County does have a Hazard Mitigation Plan.

C.2.1.1. Historical Data on Natural Disasters and Other Hazards

Data on historical damages and casualties is typically collected as part of a **Hazard Mitigation Plan** preparation to determine the appropriate planning measures and actions to take before and after an event.

Dam Failures

“Thirty six dams exist in Tillman County. None are classified as significant or high hazard.

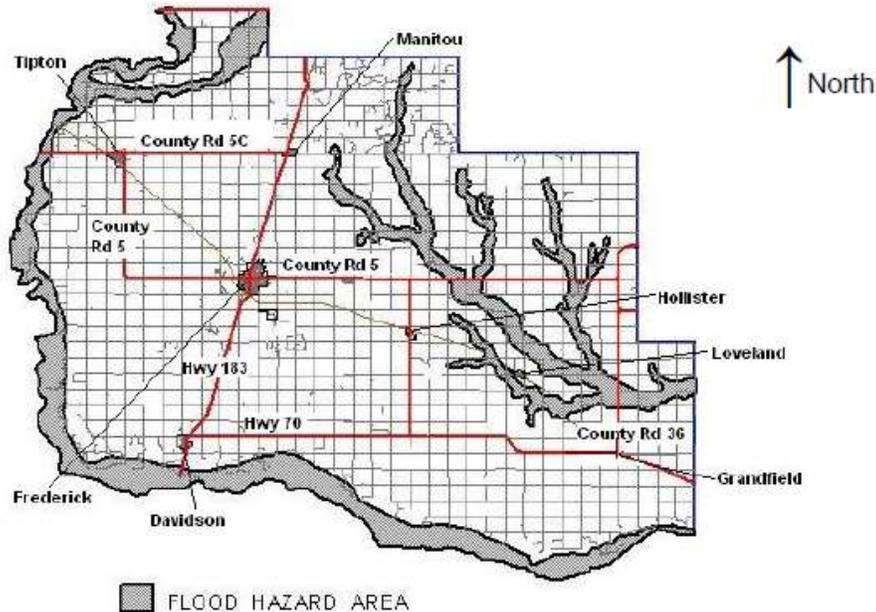
Inundation zones identified but because of low hazard dams information is not available.

There are not any previous occurrences of dam failure and no other extent is available.” HMP, P. 19

“Dam failures have not occurred in any years between 1950 and 2007. Damages to personal property is zero.” P. 21

Flooding

XIV. Figure: Flood Zones of Tillman County.



HMP, p. 40

“National Climatic Data Center storm event statistics record 12 flooding events in Tillman County during 1995-2007. The reported damage totaled \$1.262 million.” HMP, p. 42

“Previous Occurrences of Flooding.

- September 22, 1997 - After 9.5 inches of rain fell in less than 24 hours, with most of the rain falling in a four hour period from 21:30 CST on the 22nd to 01:30 CST on the 23rd, streets of Tipton looked more like rivers than roads. Water up to five feet deep flowed down Main Street in downtown Tipton. **At least 19 residences, four businesses, a post office, and a church were flooded.** Highway 5 near town was also impassable. **Damage was reported at \$125,000.**
- May 27, 1999 - **Several houses were reported to be flooded in Frederick in Tillman County, and two homes needed to be evacuated.** Portions of State Route 36, and State Route 5 in Tillman County were also reported to be covered by water. **Damage was reported at \$60,000.**
- June 10, 1999 - In Frederick in Tillman County, flooding was reported on S. Main St.
- October 22, 2000 – Railroad tracks north of Frederick were washed out due to rushing water. Highway 183 was closed between Frederick and Manitou, while State Highway 5c was closed between Manitou and Tipton. No damage amount was reported. October 22, 2000 – In the city of Tipton in Tillman County, six homes were flooded and several streets were covered with a half foot of water. A couple was rescued from their home three miles east of Manitou in Tillman County, while a family was rescued from their home one mile east of Frederick in Tillman County, both due to high water. A vehicle

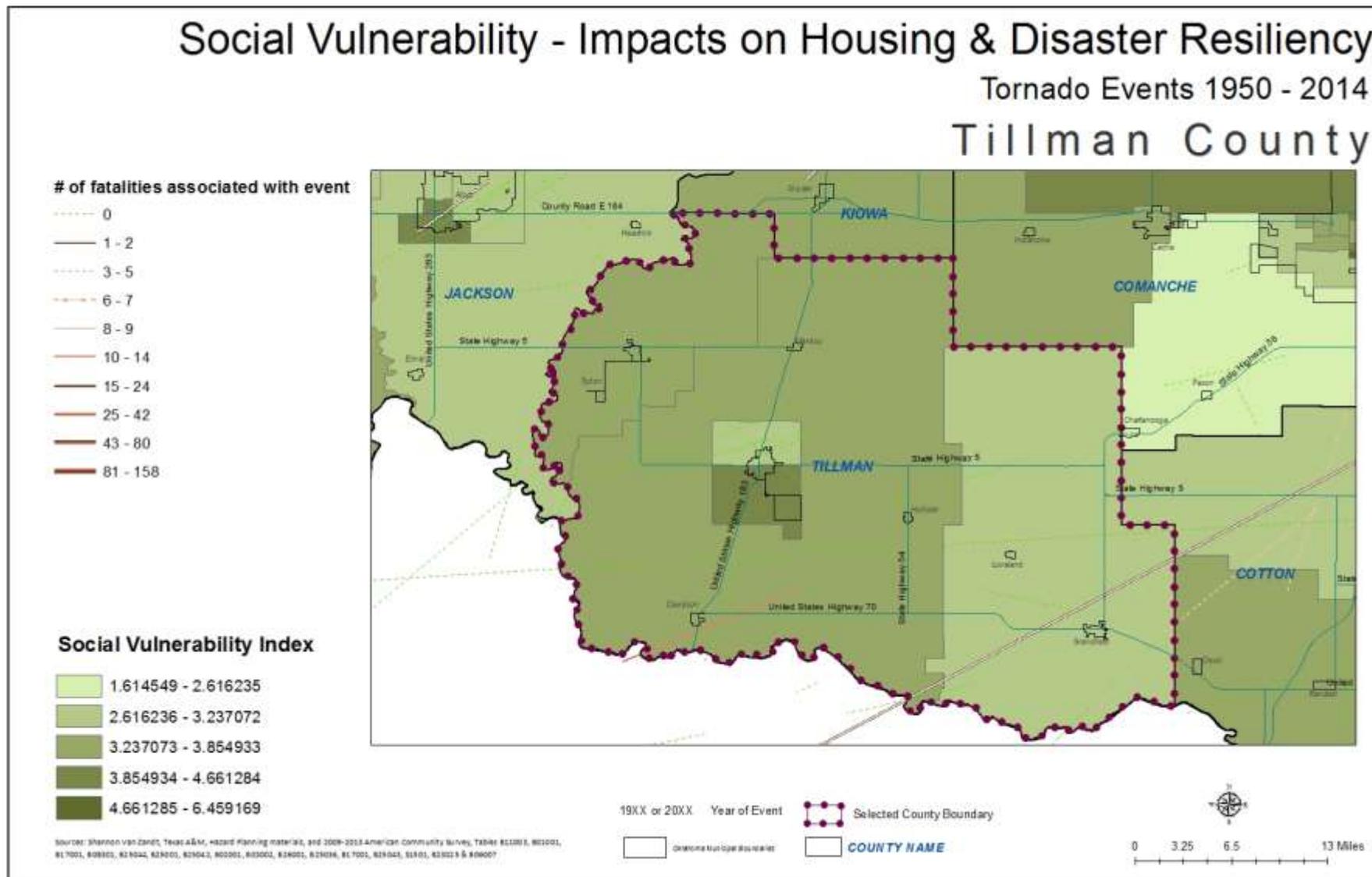
traveling on Red River Gin Road, three miles south of Frederick in Tillman County, was swept off the road and into a creek. Both occupants were rescued by boat and treated for injuries, one for a broken leg and the other for lacerations. Many roads, including large segments of Highway 183, were closed during this time. **Damage was reported at \$75,000.**" HMP, p. 42

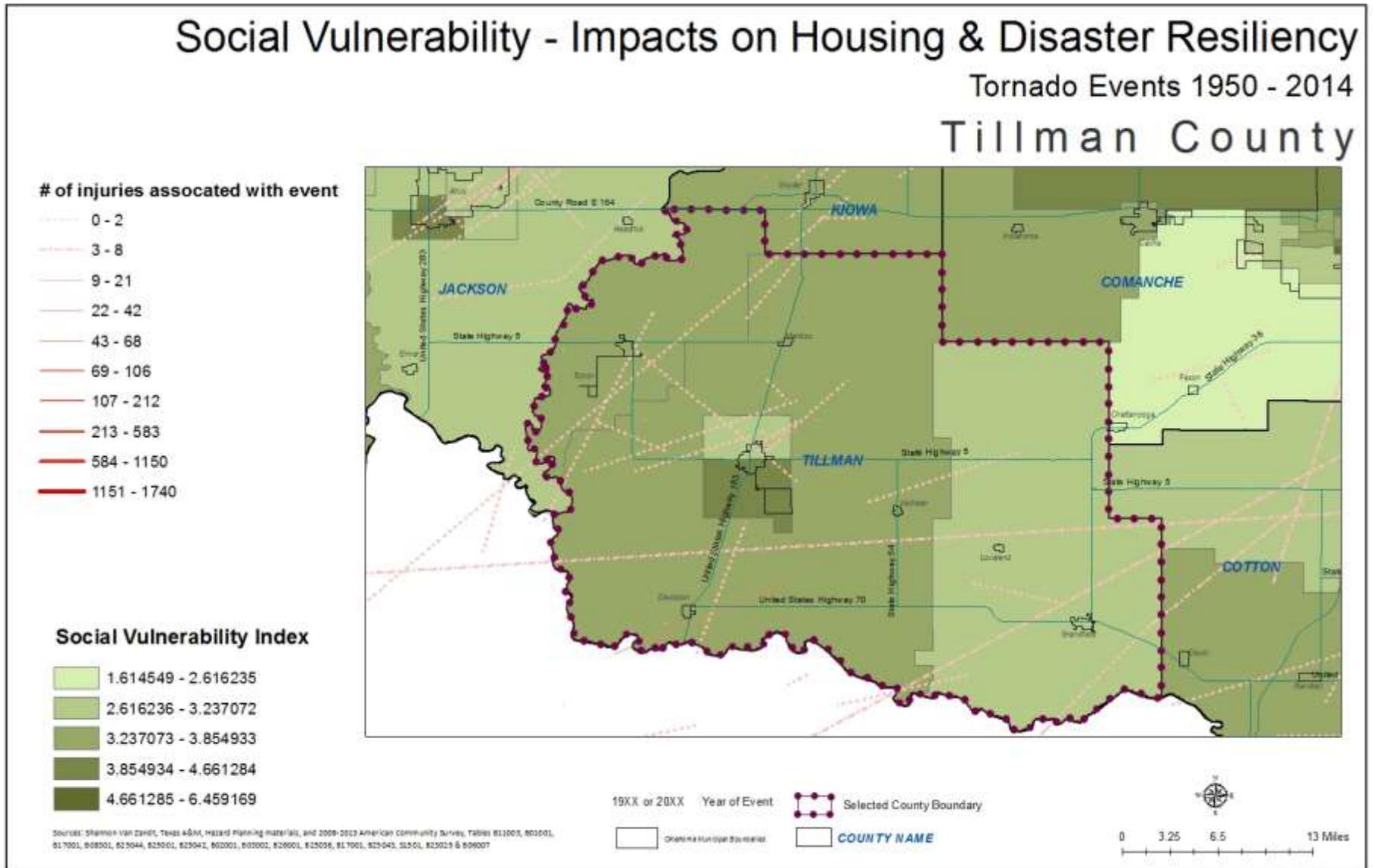
"The boundary of a **100-year frequency flood** was digitized into an ArcView map layer. That map layer was superimposed over newest available aerial photographs of Tillman County. The resulting map was visually searched for homes. **This search found located zero homes.** From County assessor records a **list of 37 rural non-home land parcels with "improvements" was identified. The locations were digitized into an Arc View map layer. The 100-year flood frequency map layer was superimposed to identify any of these „improvements" in flood hazard. There were none in the flood hazard area.** Since Tillman County has not previously had a flood insurance program there are no repetitive loss structures." (HMP, p43)

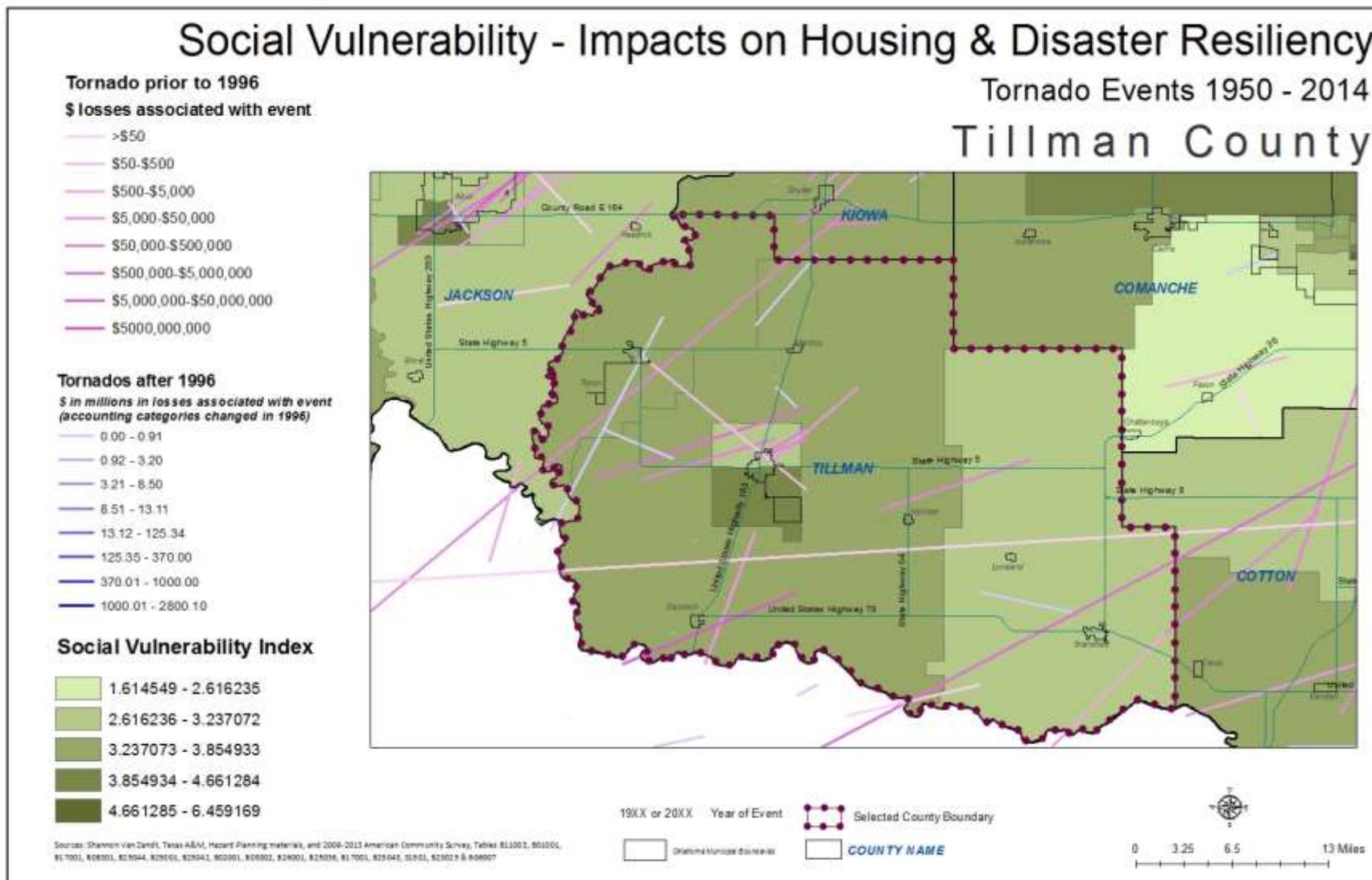
Tornados

NOAA data shows the following historic data on disaster events for the county:

Historic data on tornados between 1950-2014 there are 74 tornados documented. There were 138 injuries that occurred connected to these tornados, with 68 of those injuries happening in the 1978 tornado. There were 12 fatalities connected to tornadoes during this time period, 11 of which occurred in 1978. Property losses between 1950-1996 ranged from \$1,804,105.00 to \$18,041,250.00 . (The accounting methods used for losses changed in 1996.) The losses estimated between 1996-2014 was \$760,000.00 .







C.2.1.2; C.2.1.6; C.2.1.7;C.2.1.8 Shelters from Disaster Event

Tillman County was considering a bid for a public shelter construction (12/2015), final decision not determined.

Tillman County HMP includes the following recommendations:

- **Action Item # T-HW 2:** Educate the public in the benefits of installing residential and commercial storm shelters and safe rooms. (p. 91)
- **Action Item # T-HW 5:** Install residential and commercial storm shelters. (10 new storm shelters) (p.92)

C.2.1.3 Public Policy and Governance to Build Disaster Resiliency

Information not available.

C.2.1.4 Local Emergency Response Agency Structure

Information not available.

C.2.1.5 Threat & Hazard Warning Systems

- Sirens (12 sirens in Tillman County) <http://www.ksw.com/story/29119029/frederick-explains-why-sirens-didnt-go-off?clienttype=mobile>
- Phone notification (nixle)
- Emergency Broadcast System / radio transmissions
- Facebook

Social Vulnerability

Based on the research work done by the Texas A&M University Hazard Reduction and Recovery Center, an added component is being included in this section. Social vulnerability can place households at a further disadvantage during and after a disaster. This analysis is assessing for the county the levels of social vulnerability based on demographic indicators to highlight 'hotspots' or counties that have higher social vulnerability. That combined with Hazard Mitigation Plans – or lack thereof – can highlight places where additional work is needed to reduce impacts on households.

Social Vulnerability Analysis - Tillman County

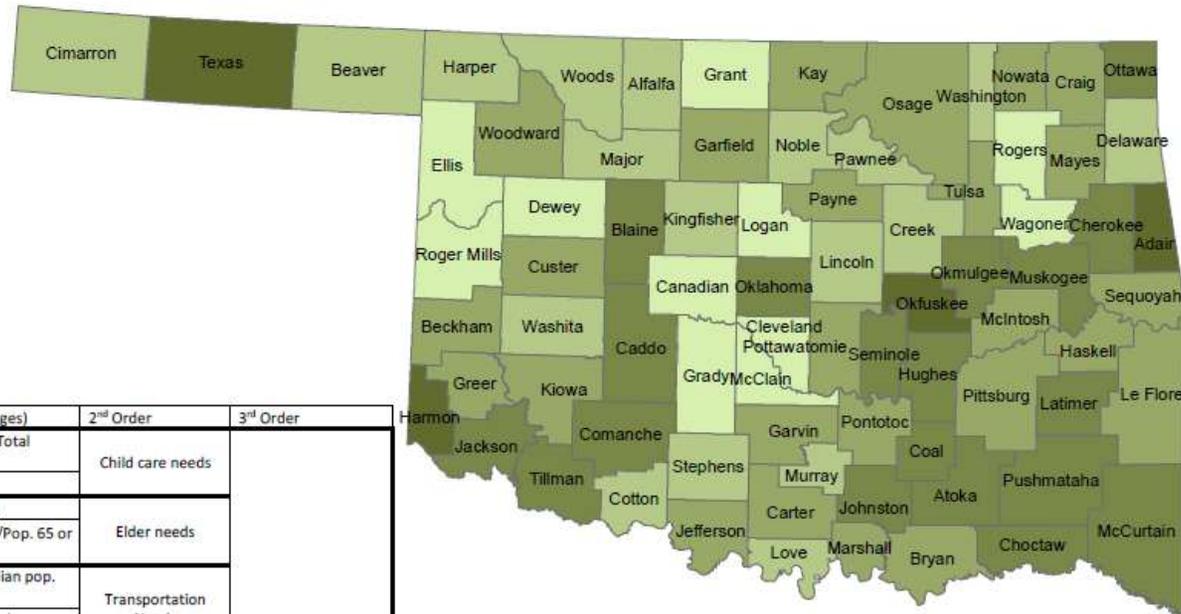
Base Social Vulnerability Indicators (%)		2nd Order	3rd Order
1.) Single Parent Households	11.19%	0.177	3.543 Social Vulnerability 'Hotspot' or Area of Concern
2.) Population Under 5	6.53%	(Child Care Needs)	
3.) Population 65 or Above	17.73%	0.312	
4.) Population 65 or Above & Below Poverty Rate	13.48%	(Elder Needs)	
5.) Workers Using Public Transportation	0.42%	0.069	
6.) Occupied Housing Units w/o Vehicle	6.47%	(Transportation Needs)	
7.) Housing Unit Occupancy Rate	74.16%	2.59	

8.) Rental Occupancy Rate	26.52%	(Temporary Shelter and Housing Recovery Needs)	
9.) Non-White Population	36.35%		
10.) Population in Group Quarters	4.60%		
11.) Housing Units Built Prior to 1990	90.81%		
12.) Mobile Homes, RVs, Vans, etc.	6.37%		
13.) Poverty Rate	20.22%		
14.) Housing Units Lacking Telephones	3.92%	0.395 (Civic Capacity Needs)	
15.) Age 25+ With Less Than High School Diploma	22.70%		
16.) Unemployment Rate	8.56%		
17.) Age 5+ Which Cannot Speak English Well or Not At All	4.31%		

Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables B11003, B01001, B17001, B08301, B25044, B25001, B25042, B02001, B03002, B26001, B25036, B17001, B25043, S1501, B23025 & B06007



Social Vulnerability Index

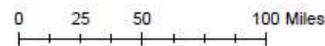


Levels of Social Vulnerability Analysis

Base Social Vulnerability Indicators (Percentages)	2 nd Order	3 rd Order
1. Single parent households with children/ Total Households	Child care needs	Social vulnerability "Hotspot" or area of concern
2. Population 5 or below/Total Population		
3. Population 65 or above/Total Population		
4. Population 65 or above & below poverty/Pop. 65 or above	Elder needs	
5. Workers using public transportation/Civilian pop. 16+ and employed	Transportation Needs	
6. Occupied housing units without a vehicle / Occupied housing units (Hus)		
7. Occupied housing units / Total housing units	Temporary Shelter and housing Recovery needs	
8. Persons in renter occupied housing units/ Total housing units		
9. Non-white population/Total population		
10. Population in group quarters / Total population		
11. Housing units built 20 years ago / Total housing units		
12. Mobile Homes/ Total housing units		
13. Persons in poverty / Total population	Civic Capacity needs	
14. Occupied housing units without a telephone/ Total occupied HU		
15. Population above 25 with less than high school/ Total pop above 25		
16. Population 16+ in labor force an unemployed/ Pop in Labor force 16+		
17. Population above 5 that speak English not well or not at all / Pop.>5		

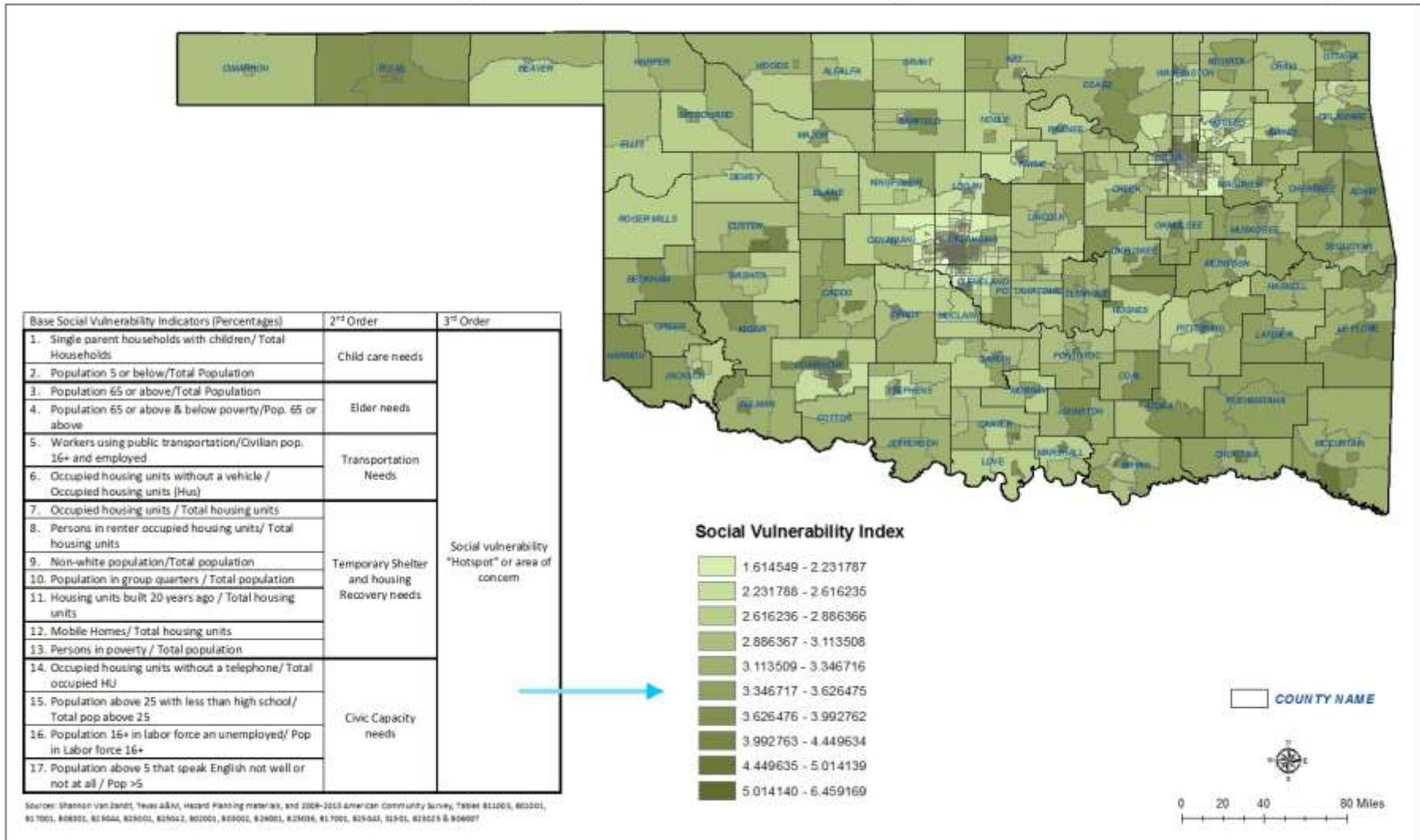
Legend Social Vulnerability "Hot Spots"

- 2.6340 - 2.9760
- 2.9761 - 3.2170
- 3.2171 - 3.4180
- 3.4181 - 3.6370
- 3.6371 - 3.9500



Source: Shannon Van Zandt, Texas A&M, Hazard Planning materials; 2009-2013 American Community Survey, Tables B01003, B01001, B17001.

Social Vulnerability - Impacts on Housing & Disaster Resiliency



Social Vulnerability - Impacts on Housing & Disaster Resiliency

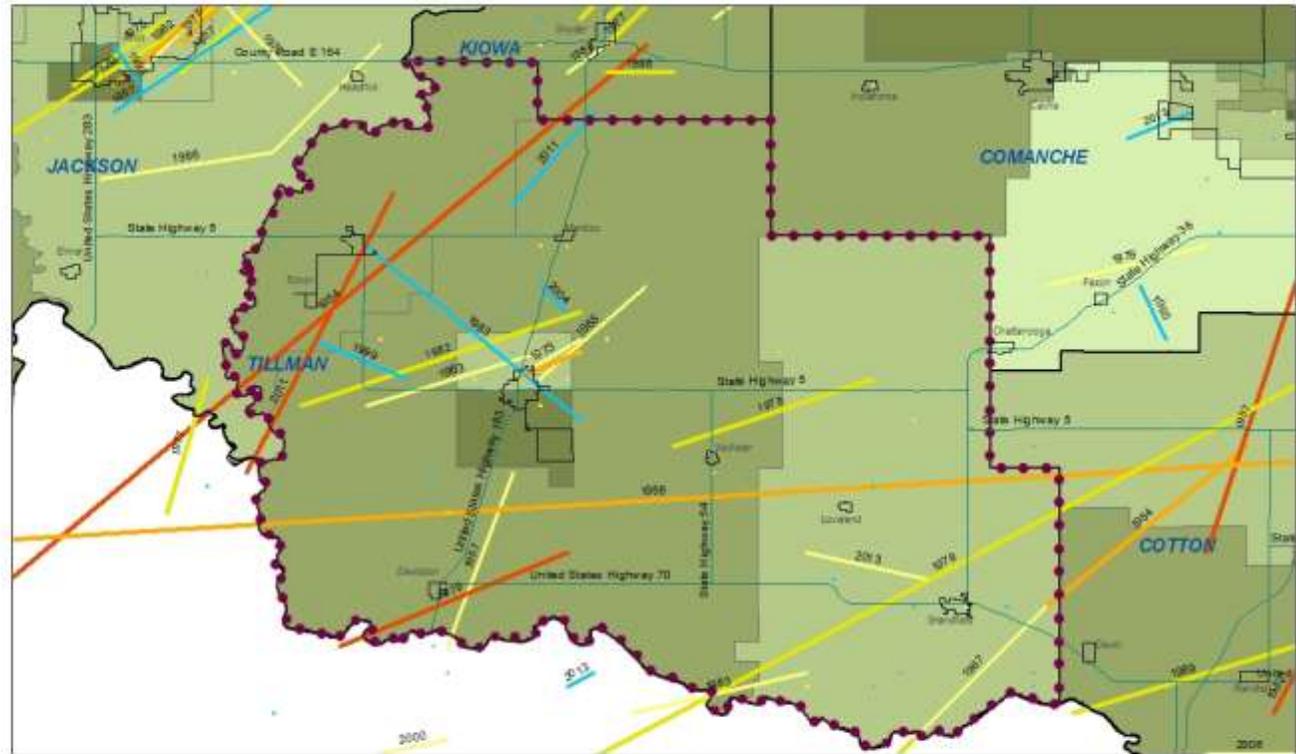
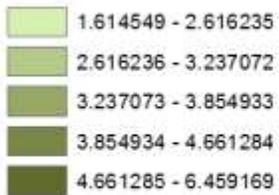
Tornado Events 1950 - 2014

Tillman County

Tornado Magnitude



Social Vulnerability Index



19XX or 20XX Year of Event

Selected County Boundary

CHANDLER MUNICIPAL JURISDICTIONS

COUNTY NAME



0 3.25 6.5 13 Miles

Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables B11003, B03001, B17001, B08501, B23044, B25001, B25042, B02001, B03001, B20001, B25016, B17001, B23043, S1501, B25023 & B08007

Social vulnerability combined with the devastating impacts of a natural or man-made disaster can compound a household's ability to recover and in fact can place those individuals at an even greater gap or disadvantage prior to the event (Shannon Van Zandt, Texas A&M, Hazard Planning).

This county has an elevated score per this index for social vulnerability when comparing as a county to other counties in the state. Looking at the census tract level, the Frederick area and western portion of the county have particularly higher scores for social vulnerability. Combine that with the tornados, as one physical hazard or event that occurs, people in these areas may have additional difficulties during an event due to transportation and family needs. Additionally recovery for socially vulnerable populations can be slow and may require additional outside assistance.

Recommendations for this county:

- Continue to update and maintain the county HMP and include attention to areas within the county that in addition to physical vulnerability may have compounding social vulnerability factors.
- Efforts to strengthen building codes related to tornadoes and natural disasters should be considered.
- Planning for shelters from disaster events for multifamily, HUD and LIHTC units, in addition to all housing in the community should be incorporated with any effort to increase housing.

Homelessness

By Continuum of Care

Oklahoma is comprised of eight Continuums of Care (CoC). These entities manage the provision of services to the homeless, among other functions. By definition, CoCs involve nonprofit homeless providers; victim service providers; faith-based organizations; governments; businesses; advocates; public housing agencies; school districts; social service providers; mental health agencies; hospitals; universities; affordable housing developers; law enforcement and other organizations that serve the homeless and those at risk of becoming homeless (Continuum of Care Network pamphlet, 2015). These entities are governed by a community plan that helps them deliver services to the homeless and/or to prevent a return to the homeless. CoCs provide a variety of services aimed at outreach, engagement and assessment, including emergency shelter, rapid re-housing, transitional housing, and permanent housing, among others (Continuum of Care Network pamphlet, 2015).

The data below describes the characteristics of those receiving or eligible for the CoC in which Tillman County is located. This data is collected by the CoCs on last day of January each year and reported on an annual basis. It is currently the best source of data available at the State level of understanding the demographics of these populations.

OK 506 Southwest Oklahoma

OK 506 represents the southwest region of Oklahoma, including Roger Mills, Beckham, Washita, Kiowa, Tillman, Cotton, Jefferson, Stephens, Garvin, McClain, Grady, Caddo, Comanche, Greer, Harmon, and Jackson counties. This region of Oklahoma has a small homeless population generally. However, there are at least 8 homeless households comprised of children only. While these households are sheltered, additional analysis would be useful to understand the trend that may be leading to homeless youth in this region. There is also a high homeless veteran population (25) in this region. There may be a correlation between the number of homeless veterans in this CoC and the presence of a military base in Comanche County, as well as a Veterans' Hospital in the area. Given the presence of these services in this area, investment should be made for more temporary and permanent housing for homeless veterans. There are Veterans' Hospitals in this CoC where veterans can receive services. This may play a big role on why there is a significant amount of homeless veterans in this CoC.

<i>OK 506 Southwest OK Regional</i>	Emergency Shelter(sheltered)		Unsheltered	Total
Households without children	43	48	59	150
Households with at least 1 adult & 1 child	16	10	1	27
Households with only children	8	0	0	8
total homeless households	67	58	60	185
Persons in households without children	43	48	59	150
persons age 18-24	0	21	2	23
persons over age 24	43	27	57	127
Persons in households with at least 1 adult & 1 child	45	33	3	81
children under age 18	26	22	1	49
persons age 18-24	5	2	0	7
persons over 24	14	9	2	25
persons in households with only 1 children	8	0	0	8
Total homeless persons	96	81	62	239
Subpopulations	Sheltered		Unsheltered	Total
Chronically Homeless	10		20	30
Chronically Homeless Individuals	10		20	30
Chronically Homeless Persons in Families	0		0	0
Severely Mentally Ill	14		10	24
Chronic Substance Abuse	8		6	14
Veterans	5		20	25
HIV/AIDS	0		0	0
Victims of Domestic Violence	19		0	19

CoC Number: OK-506

CoC Name: Southwest Oklahoma Regional CoC

Summary of all beds reported by Continuum of Care:

	Family Units ¹	Family Beds ¹	Adult-Only Beds	Child-Only Beds	Total Yr-Round Beds	Seasonal	Overflow / Voucher	Subset of Total Bed Inventory		
								Chronic Beds ²	Veteran Beds ³	Youth Beds ³
Emergency, Safe Haven and Transitional Housing	27	170	127	10	307	0	15	n/a	5	10
Emergency Shelter	16	134	92	10	236	0	15	n/a	4	10
Transitional Housing	11	36	35	0	71	n/a	n/a	n/a	1	0
Permanent Housing	0	0	9	0	9	n/a	n/a	0	0	0
Permanent Supportive Housing*	0	0	9	0	9	n/a	n/a	0	0	0
Grand Total	27	170	136	10	316	0	15	0	5	10

CoC beds reported by Program Type:

Emergency Shelter for Families⁴

Provider Name	Facility Name	Family Units ¹	Family Beds ¹	Adult-Only Beds	Child-Only Beds	Seasonal	Overflow / Voucher	Total Beds	Subset of Total Bed Inventory		
									Chronic Beds ²	Veteran Beds ³	Youth Beds ³
Family Promise	Emergency Shelter	1	14	0	0	0	0	14	n/a	1	0
Total		1	14	0	0	0	0	14	n/a	1	0

COC Conclusion

Each of the CoC's represents a unique area. It's important to note that the Point In Time data serves as a baseline. It is likely that the homeless population is much larger than counted. Generally, the State's homeless population is over the age of 24. In some areas of the State, there is a disproportionately high rate of homeless youth. More detailed exploration is necessary to understand the reasons which led them to this State and the needs of homeless youth. Domestic violence victims comprise a significant portion of the homeless population in the State. In some areas, the presence of social service providers for this subpopulation has reduced homeless rates. The same is true with respect to homeless veterans. As anticipated, the majority of the homeless population across the state can be classified as: mentally ill, chronically homeless, and chronic substance abusers. The needs of these difficult to house homeless must remain a priority across the State.

A Snap Shot of Homelessness in the State

Point in Time data was last collected on January 29, 2015 across the State. On that date, counts revealed a homeless populations of more than 3,000 residents. The majority of those counted (2,603 individuals) were classified as households without children. The majority of this group lives in emergency shelters (1,652) or transitional housing (376) with 575 classified as unsheltered.

The number of households with children is seemingly small totaling 343. The vast majority of those in this classification live at emergency shelters (201) or transitional housing (104) with only 38 classified as unsheltered. Homeless service providers in Oklahoma City and Tulsa emphasized that this group was likely undercounted across the State because they are less visible than other categories of homeless. They emphasized that emergency shelters, as presently designed, do not meet the needs of families with children in terms of both privacy and safety.

The Point in Time data reveals less than 100 households comprised of only children. Of these 74 counted households, 35 live in emergency shelters and 39 are unsheltered. This population is likely significantly undercounted as youth who are homeless typically seek to avoid identification for fear of being returned to their homes. These young people often have specific needs for supportive services that are difficult to deliver because the population remains unseen. Homeless advocates in the State hold up Tulsa as a good example of the State for serving homeless youth. OKC's Be the Change is also a leader in identifying and providing needed service to homeless youth in the metropolitan region. The problem of homeless youth is not just isolated to large urban areas. Mid-sized and smaller cities also look for innovative ways to service. Cities like El Reno and Enid have their own drop in centers for homeless youth. Social networks in smaller cities fill similar functions.

Oklahoma City public schools also tracks homeless students within the district. There are homeless students attending 78 elementary and middle schools in Oklahoma City. This data suggests that the majority of the city's homeless students are African American or Hispanic. There are 664 homeless African American students, 724 homeless Hispanic students, and 254 homeless Caucasian students. There are ten high schools in OKC that have reported having homeless students. Douglass and Capitol Hill high schools have the highest homeless student populations. Douglass has 50 homeless African American students. Capitol Hill has 49 homeless Hispanic students. The majority of these students can be classified as "couch homeless" or doubled up, meaning that they are finding

shelter with extended family members, friends, and other non-relatives for a brief amount of time due to hardship.

The majority of Oklahoma's homeless population is over 24 years old. This classification system is not particularly useful in helping to assess the number and needs of the elderly population, which is reported to be a substantial subset of this population.

The Point in Time data categorizes the homeless population into two categories: Hispanic/Latino and Non-Hispanic/Non-Latino. The lion's share of homeless in Oklahoma are Non-Hispanic/Non-Latino (3,528). In Oklahoma City, 62% of the homeless served are classified a Caucasian. Twenty-five percent of the homeless population is African American. Seven percent of the homeless in OKC identify as Native American. Less than one percent of those identified as homeless in OKC are Asian. By contrast, a relative small fraction of the State's homeless population is Hispanic/Latino. The Point in Time data identified a relatively small Hispanic homeless population, including less than 250 individuals. This follows OKC counts that identify 7% of the city's homeless population as Hispanic. Homeless advocates in OKC indicate that social networks, including churches and extended families, keep the number of homeless in the Hispanic population proportionately lower than their Non-Hispanic/Non-Latino counterparts. However, these individual likely classify as "couch homeless" and are in a continued state of being vulnerable to becoming homeless.

The PIC data indicates that are more homeless males (2,237) than females (1,535). This follows national trends. Care should be taken when interpreting this data, as women are less likely to participate in Point in Time counts. There is a growing population of homeless in Oklahoma that identifies as transgender. PIC data identified 5 individuals identifying as transgender. This population is likely much higher and will continue to grow due to family and national attitudes about this population. Transgender populations may require special housing accommodations, especially in the emergency shelter context, to provide for their social and emotional needs.

Another group of homeless individuals that merits special consideration in the distribution of resources is those identified as having special needs. This classification includes persons with "physical, mental or behavioral disabilities, persons with HIV/AIDS and/or persons with alcohol or drug addictions. The Point in Time data estimates that there are nearly 1300 homeless persons with special needs in OKC alone.

The Point in Time data is coarse and does not do an effectively track homeless populations with specific needs, such as those persons who are homeless and living with HIV/AIDS. This special population of homeless is likely growing in Oklahoma. According to the Oklahoma State Department of Health there were an estimated 5,375 cases of persons living with HIV/AIDS by the end of 2013. There were a total of 437 newly diagnosed HIV/AIDS cases in 2013 for the state of Oklahoma. The vast majority of populations living with HIV/AIDS (nearly 72%) reside in urban areas. In OKC alone, the Point in Time data identified at least 25 homeless individuals living with HIV/AIDS. This is likely an undercount. Based on this information and anecdotal data from homeless service providers, special effort must be made to understand the housing, medical, and supportive services needs of homeless persons living with HIV/AIDS.

Shelter is crucial for homeless persons with HIV/AIDS in the management of this illness. However, traditional shelter setting(s) may not be suitable to house this population. Those with suppressed immune systems are vulnerable to the spread of infectious diseases which may be present in open shelters. In addition, shelter personally may not be properly trained in handling AIDS related issues. For these reasons, as well as resources made available by the federal government, homeless persons living with HIV/AIDs are often given housing choice vouchers, created by HOPWA, so that they secure housing on the private market. This can be challenging in constrained rental markets like Norman, for example, where affordable housing options are limited. It is estimated that more than 60 individuals living in OKC with HIV/AIDs are homeless because they have been unable to find a landlord that will accept their housing choice voucher.

State Name: Oklahoma**Point-in Time Date: 1/29/2015****Summary by household type reported:**

	Sheltered		Unsheltered	Total
	Emergency Shelter	Transitional Housing*		
Households without children ¹	1,652	376	575	2,603
Households with at least one adult and one child ²	201	104	38	343
Households with only children ³	35	0	39	74
Total Homeless Households	1,888	480	652	3,020

Summary of persons in each household type:

Persons in households without children¹	1,676	397	623	2,696
Persons Age 18 to 24	214	61	110	385
Persons Over Age 24	1,462	336	513	2,311
Persons in households with at least one adult and one child²	595	293	108	996
Children Under Age 18	373	176	57	606
Persons Age 18 to 24	40	29	13	82
Persons Over Age 24	182	88	38	308
Persons in households with only children³	38	0	47	85
Total Homeless Persons	2,309	690	778	3,777

Demographic summary by ethnicity:

	Sheltered		Unsheltered	Total
	Emergency Shelter	Transitional Housing*		
Hispanic / Latino	154	43	52	249
Non-Hispanic / Non-Latino	2,155	647	726	3,528
Total	2,309	690	778	3,777

Demographic summary by gender:

Female	1,004	272	259	1,535
Male	1,302	416	519	2,237
Transgender	3	2	0	5
Total	2,309	690	778	3,777

Rural Areas

Homelessness in the rural areas of the State is much more difficult to calculate. Given the population density of the State, the majority of services that serve the homeless are concentrated in urban and semi-urban areas. Even if beds are available, many rural homeless lack knowledge about the services or a means to travel to receive the same. As a part of this study, OU students were dispatched into the 77 counties in the State to, among other issues, attempt to understand the degree to which there is rural homelessness in the State. Their qualitative inquiries yielded very little data, in part, because rural homeless is difficult to identify and often ignored. For the purposes of this report, a literature review was prepared on the topic of rural homelessness in the United States. The goals of this academic review is to assist policymakers and service providers in the State in uncovering the dimensions of this illusive population.

In the U.S., the rural homeless population is predominantly Caucasian. This population is comprised of single mothers, widowed wives and husbands, divorced and separated men and women, and young people. A study examining rural homelessness in Ohio found that nearly 40% of those who classify as homeless were divorced, separated, or widowed (First, Richard J., John C. Rife, and Beverly G. Toomey, 1994, pg. 101). Ohio's rural homeless were also relatively young. Close to 80% of homeless population in this study was between the ages of 18 and 39 years old (First et al, 1994, pg. 101). Rural homelessness is often less visible than urban homelessness because these populations commonly take shelter are at a friend's house, in their vehicles, or on abandoned properties. These populations can also be found on "...campgrounds or in hollows, desert canyons, farmers' fields, state parks, and highway rest areas" (Milbourne and Cloke, 2006, pg. 17).

The causes of rural homelessness mirror, in most ways, the plight of the urban homeless. The study of homelessness in rural Ohio revealed family problems and substance abuse issues as primary causes of rural homelessness. The incidence of homelessness resulting from situations of domestic violence is high in rural areas (Cummins et al, 1998). Substance abuse issues are a common cause for homelessness in rural America. The literature reveals that this population tends to be homeless because they have isolated themselves from family and people who want to help (First et al, 1994). In the case of both domestic violence and substance abuse, it is often difficult for these individuals to find shelter and the supportive services they require in rural areas where options are limited, if available at all. The thought of moving to an urban area to find both shelter and supportive services is sometimes not considered at all by these vulnerable populations.

Rural areas are also more prone to the kind of poverty that puts individuals and families at risk for homelessness. The number of people living at or below the poverty line in rural places is higher than anywhere else in the United States (Moore, 2001). The statement "rural homelessness is a microcosm of national economic and political developments" cannot be truer for American rural communities (Vissing, 1996, pg. 103). The disinvestment of small towns and their inability to attract long-term sustainable business development, cripples a small town's economy. In effect, this is a main contributor for why poverty is such a common theme for rural communities. As a result, the State should carefully consider its investments in rural Oklahoma. While there is a need for shelter in these places, the construction of this housing type should be weighed with long term opportunities for employment in the area.

It is not surprising that rural areas typically lack both emergency shelters and temporary housing options. Services that provide temporary housing and provide relief and support services for those who cannot find food are virtually nonexistent in rural communities across the United States (Moore, 2001). Sheltering the homeless is undercapitalized in rural areas because communities do not see a concentration of homeless individuals (Vissing, 1996, pg. 146). As a result, the homeless must satisfice where they are. For instance, for families who are homeless, some of them use a friend's house to store clothes or to seek shelter, while some receive assistance from churches (Cummins et al, 1998). Others migrate to urban areas where services are available and more accessible (Rollinson, Paul A., and John T. Pardeck, 2006).

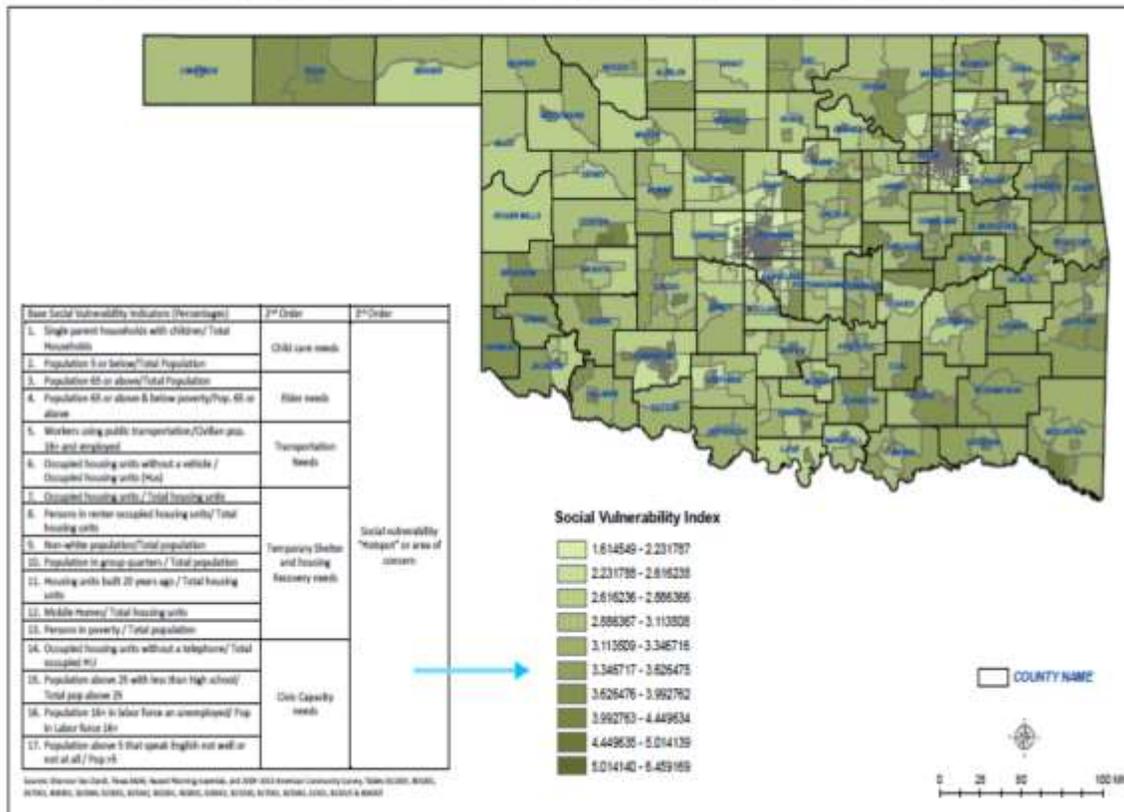
The absence of affordable housing in rural areas is a root cause of homelessness (Levinson, David, and Marcy Ross, 2007). In fact, it was noticed that many of the people were receiving monetary assistance or previously had some money saved up to spend on housing, but these measures were not enough to keep them afloat (First et al, 1994, pg. 101). Housing costs rise in rural areas typically rise as a result of competition for a limited amount of housing stock. In some rural areas, low income families are spending 70% of their household incomes on housing, sometimes substandard housing (Vissing, 1996, pg. 124). As Levinson et al explain, "housing costs are lower but so are incomes, with the result of placing a heavier rent burden in the community" (Levinson, David, and Marcy Ross, 2007, pg. 45). Renters in rural communities, as a result, are far more susceptible to becoming homeless than their urban or suburban counterparts because they do not have the financial safety net sometimes associated with homeownership (Fitchen, 1991, pg. 193).

While this brief review of the literature describes the state of homelessness across rural America, many of the lessons learned are easily translated to an Oklahoma context. The condition and supply of affordable housing units is relatively poor in many rural portions of the State. Rent burden, as more fully characterized in the Consolidated Housing Affordability Strategy (CHAS) section of this report, is high. This leaves families living and working in relatively weak economies vulnerable to homelessness. Once homeless, supportive services in these areas are relatively limited, especially for the chronically homeless, those with substance abuse problems, and victims of domestic violence. Services available to these populations in urban areas may not be attractive to individuals and families who are accustomed to life in rural communities. Where practicable, more consideration must be given to providing supportive services and temporary and permanent housing to homeless populations wishing to remain in rural areas.

At Risk For Homelessness

Poverty is the primary factor that places Oklahoma families at risk of being homeless. There are many factors experienced by those living in poverty which leave residents more or less vulnerable to homelessness. For the purposes of this study, a social vulnerability index has been constructed to measure the likelihood or risk that residents living in poverty might find themselves homeless. This index includes factors such as single headed households, concentration of young and elderly residents, the reliance on public transportation, private vehicle availability, racial composition, housing type, presence or absence of a telephone in the household, amongst other factors. This index is additive and seeks to understand the collective impact of these factors in estimating the vulnerability of a local population. While employed in more significant detail in the section of this report focusing on disaster resiliency, this tool is useful in identifying areas of the State where populations may be most vulnerable to homelessness. The index utilized in this section is different from the one crafted in the Disaster Resiliency chapter of this report in that it estimates social vulnerability at the county level, rather than by census tract. The decision to study vulnerability to homelessness at the county level was made to help policymakers understand, more generally, where resources and economic interventions are most necessary to stave off the potential effects of homelessness. This maps presents vulnerability to homelessness on the county level, depicting the most vulnerable counties in dark green.

Social Vulnerability - Impacts on Housing & Disaster Resiliency



The Oklahoma families most likely at risk are those living in public and subsidized housing. They live below the poverty line. Even those who are employed, remain vulnerable to homeless because an unexpected expense, like a medical emergency, threatens their ability to pay for their share of rent owed or utilities. A missed payment can easily lead to eviction and homeless.

Through the U.S. Department of Housing and Urban Development, Oklahoma service providers have been vested with more than 24,000 housing choice vouchers. Their spatial distribution is outlined below. Of significance is the size of the waiting lists for public housing units and housing choice vouchers in cities across the State. These individuals are the most vulnerable to being homeless.

		Authorized Vouchers	Public Housing Waiting List	Voucher waiting list
Ada	OK024	110	Unknown	Unknown
Bristow	OK033	87	Unknown	Unknown
Broken Bow	OK006	217	Unknown	Unknown
Fort Gibson	OK118	44	Unknown	Unknown
Henryetta	OK142	115	Unknown	Unknown
Hugo	OK044	178	14	56
Lawton	OK005	92	Unknown	Unknown
McAlester	OK062	73	118	36
Miami	OK027	243	126	179
Muskogee	OK099	843	Unknown	230
Norman	OK139	1,185	Unknown	313
Oklahoma City	OK002	4,219	830	8021
Oklahoma HFA	OK901	10,708	Unknown	11,155
Ponca City	OK111	134	70	148
Seminole	OK032	189	53	44
Shawnee	OK095	497	320	623
Stillwater	OK146	656	550	420
Stilwell	OK067	29	Unknown	Unknown
Tecumseh	OK148	31	90	171
Tulsa	OK073	4,808	4951	5859
Wewoka	OK096	154	Unknown	
Oklahoma		24,612		

Findings and Recommendations

The chronically homeless population remains high in Oklahoma and follows national trends. While this population does not appear to be growing, the needs of the chronically homeless merit continued attention. Ample emergency shelters and soup kitchens must be made available for these sizable population in both urban and rural contexts. Social service providers should be clustered, to the extent possible, where these groups of homeless populations cluster. Given the future projections for the increase in the number of cold and hot days in the region, social service providers must provide places that allow these individuals to seek refuge from the elements.

Those living with HIV/AIDS tend to underreport their status and needs. Given the cost of medical care these individuals face, the need for permanent and stable housing is critical. Housing providers must work to ensure that there are enough units for this undercounted population. Working with county health care providers, OHFA is much more likely to estimate the size and needs of this population of homeless and potentially homeless persons. Special care must be taken to ascertain the barriers these individuals face when using vouchers to secure housing in the marketplace.

Victims of domestic violence require temporary and transitional housing statewide. CoCs with high supportive services tend to better accommodate the housing needs for these population. Cleveland County provides a good model for the State. However, many homeless victims of domestic violence live in rural areas that are underserved. Efforts must be undertaken to work with social services provides, schools, churches, and the police to help identify these individuals and to lead them to available housing and supportive services.

While not mentioned in the PIC data, estimates must be prepared to calculate the number and needs of homeless populations with felonies. In particular, there has been a rise nationally in the number of homeless sex offenders. Zoning regulations and discrimination from the private market has pushed many registered sex offenders to the periphery of many communities. Given their criminal histories, this population of homeless is harder to house but should not be forgotten for health and safety of these individuals and the communities they inhabit.

The size of the homeless veteran population seems to be decreasing as a result of national initiatives to end homelessness for veterans in Oklahoma. The needs of homeless veterans are highest in areas of the State near VA facilities. Temporary and permanent housing should be constructed at a higher rate in these areas to meet demand. Care should be taken to make certain that the housing constructed is built to meet the psychological needs of veterans, particularly those suffering from PTSD.

Rural homelessness, in general, is a challenge to assess and characterize. The rate of homelessness in rural areas is most likely much higher than annual counts demonstrate. The majority of rural homeless likely find shelter out of public view. Some may shelter in their cars, in undeveloped areas or in the homes of those who allow them to stay. They are not likely to find their way to urban areas given their lack of transportation options and preferences for rural living. Programs that are developed to provide shelter to the rural homeless must be developed to allow sheltering in place where possible. Sheltering in place should only be allowed, however, in places where individuals are likely to be able to find what they need, including opportunities to work.

Very little is known about the age distribution of homeless over the age of 24. It is likely that the homeless population, including those who are chronically homeless, is aging. Elderly homeless individuals have special needs. Counts must be more sensitive to understanding the size and needs of this population. This does not mean arbitrarily building units to house this population unless a need can be demonstrated for the same.

Waiting lists for public housing and section 8 vouchers are high across the State. This is not uncommon to Oklahoma. However, when we are considering the size of the population that is at risk to homelessness, these waiting lists are an important factor to consider. Resources should be spent in a manner which is preventative so that these individuals' and families' needs are met before they become homeless.

The absence of affordable housing alternatives across some parts of the State is the largest threat to homelessness. In markets that are constrained by an aging housing stock or those that are rapidly growing, individuals and families who live on the economic margins are at risk for becoming homeless. Communities must work to ensure that zoning regulations promote the development of housing types serving all income levels, including the providing of temporary and permanent housing to meet the needs of the presently homeless and those at risk for becoming the same. Funding distributions should be targeted to communities with the highest needs who are willing to do what is necessary to meet the needs of the homeless and those at risk for the same.

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Fair Housing

Summary

Fair housing addresses discrimination in the provision of housing as well as discrimination in access to opportunities provided by the location of affordable housing. Recent actions by the United States Department of Housing and Urban Development (HUD) and the United States Supreme Court focus our attention on localized access to opportunity.

These findings are intended to aid the Oklahoma Housing Finance Agency (OHFA) determine the location of new affordable housing in relation to vulnerable populations and explore ways to expand the opportunities available to help communities of existing affordable housing achieve self-sufficiency.

Key Findings:

- 70% of affordable housing units are located in census tracts marked by poverty
- 62% of affordable housing is located in census tracts where a majority of the residents are not white
- 13% of affordable housing units have no access to transit services and 56% have access to limited service, on-demand transit
- 2.6% of affordable housing units have limited access to a hospital
- 7.8% of affordable housing units are located in food deserts

Recommendations:

Continued efforts to improve the quality of life for affordable housing residents and reduce discrimination associated with affordable housing will likely need to include strategies that integrate new affordable housing as well as support existing communities of affordable housing. This will likely include public policies and funding designed to integrate low-income and workforce housing into a more diverse set of communities. Additionally, those living existing affordable housing communities need increased opportunities to stay in place, become self-sufficient, and participate in determining the future of their neighborhood. OHFA may consider partnering with other state, non-profit, and for-profit agencies to explore strategies for helping communities thrive economically, socially, and environmentally.

What is Fair Housing?

Fair housing addresses discrimination in the provision of housing as well as discrimination in access to opportunities provided by the location of affordable housing. On one hand, this protects the ability of individuals to obtain housing regardless of personal characteristics such as race, skin color, national origin, gender, familial status, or disability. It also focuses attention on more subtle forms of discrimination that cluster low-income housing in ways that inhibit the ability of communities to access services and amenities that support self-sufficiency and autonomy.

Recent actions by the United States Department of Housing and Urban Development (HUD) and the United States Supreme Court focus our attention on localized access to opportunity. In 2014, HUD released the Affirmatively Furthering Fair Housing (AFFH) rule for public comment. The draft rule

“directs HUD’s program participants to take significant actions to overcome historic patterns of segregation, achieve truly balanced and integrated living patterns, promote fair housing choice, and foster inclusive communities that are free from discrimination” (HUD 2015). In 2015, the United States Supreme Court provided legal support for actions taken to remedy patterns that impede the upward mobility and opportunity of low-income individuals and communities. In the case of Texas Department of Housing and Community Affairs v. The Inclusive Communities Project the court reiterated the need to address disparate impacts in considering the location of affordable housing and reinforced the importance of AFFH (Bostic 2015). Housing discrimination from this perspective is not only felt by individual residents, it can also be the result of actions that work to limit the opportunities to improve the quality of life in local communities.

Approach

In Oklahoma, a combination of federal and state programs work to support the opportunities provided to individuals and families who rest safely and comfortably in an apartment or home. Here we use publicly available data for units that are part of the Low Income Housing Tax Credit (LIHTC) Program, the Rural Rental Housing Loans, or OHFA administered programs such as Oklahoma Affordable Housing Tax Credit (AHTC), the HOME investment partnership program, the Section 8 Housing Choice Voucher Program, and multi-family bonds. Collectively, these programs represent state efforts to assist individuals who are unable to afford housing.

Indicators of disparate impact vary but seem to contingent upon the contextual characteristics of a particular neighborhood. In an effort to help communities investigate and understand community level disparate impacts, HUD created a Fair Housing Assessment Tool (http://www.huduser.gov/portal/affht_pt.html#affh). The assessment tool includes measures on indicators of disparate impacts based on the clustering of potentially vulnerable populations, including:

- Race/Ethnicity of Residents
- National Origin of Residents
- English Proficiency of Residents
- Job Accessibility
- Transit Accessibility
- Level of Poverty
- Environmental Exposure (e.g. pollution, crime, food, health care, etc.)
- Disability

This report uses the Fair Housing Assessment Tool in conjunction with readily available data to initiate a more thorough investigation of the potential for disparate impacts in the state. The findings are intended to aid the Oklahoma Housing Finance Agency regarding future location of new fair housing in relation to vulnerable populations and the future opportunities available to help communities of existing affordable housing achieve self-sufficiency.

Data

Data for this report are compiled from a variety of sources including the United States Census, the University of Oklahoma Center for Spatial Analysis, and primary data collected as part of ongoing research efforts at the University of Oklahoma. Data are aggregated into census tracts and reported statewide as well as by county (see Appendix 1).

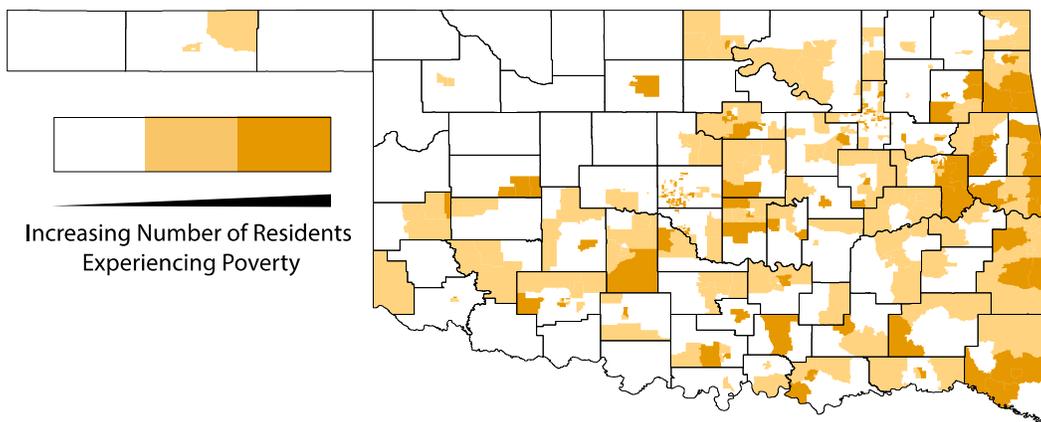
1. Urban/Rural

A majority of the affordable housing in Oklahoma is situated in rural communities. Urban communities including Edmond, Lawton, Norman, Oklahoma City, and Tulsa are home to just over 1/3 of the affordable housing units in the state.

	Total Affordable Housing Units	Situated an Urban Setting	Situated in a Rural Setting
OHFA	35,292	11,699 (33.1%)	23,593 (66.9%)
515	5,384	0	5,384 (100%)
LIHTC	23,537	8,255 (35.1%)	15,282 (64.9%)
Total	64,213	19,954 (31.1%)	44,259 (68.9%)

2. Poverty

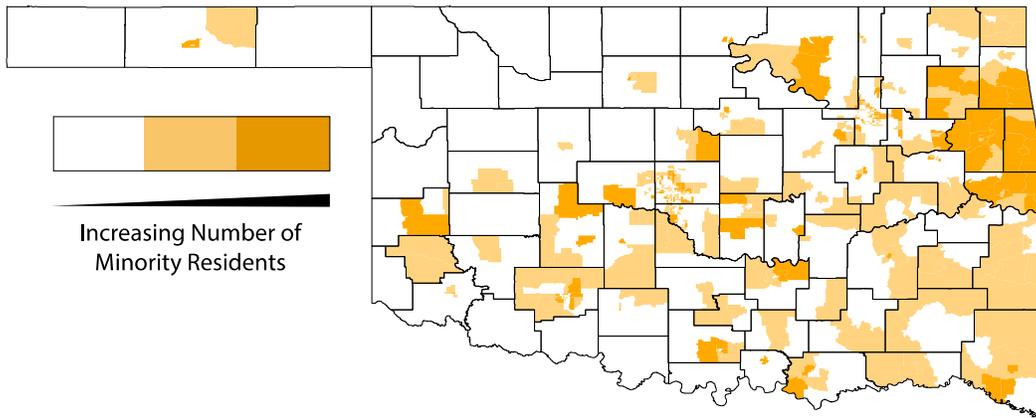
Approximately 70% of affordable housing units in Oklahoma are located in census tracts where the number of residents living in poverty is above the state average. About half of these units are located in areas of extreme poverty, where the number of individuals who are economically vulnerable exceeds 994, more than one standard deviation (411) from the mean (583).



	Total Affordable Housing Units	Situated in Poverty	Situated in Extreme Poverty
OHFA	35,292	12,295 (34.8%)	12,464 (35.3%)
515	5,384	2,093 (38.9%)	1,839 (34.2%)
LIHTC	23,537	7,483 (31.8%)	8,924 (38.0%)
Total	64,213	21,796 (33.9%)	23,227 (36.2%)

3. Non-white Enclaves

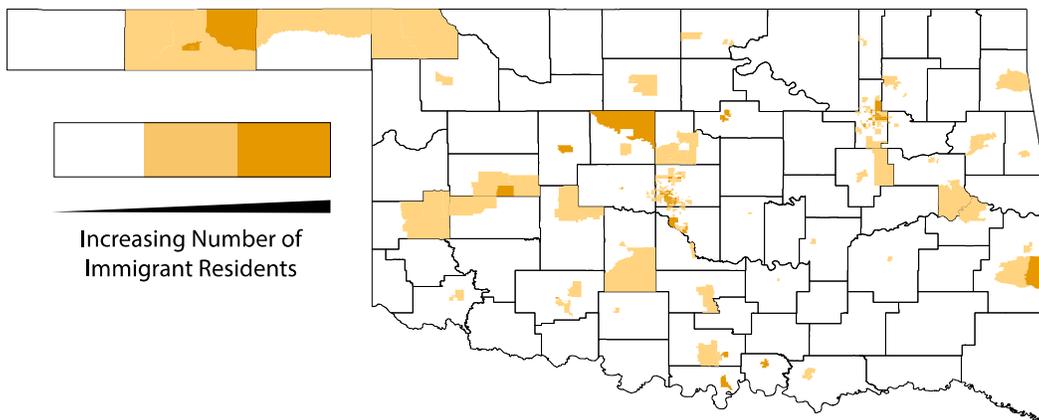
Just over 60% of affordable housing units in Oklahoma are located in census tracts where a majority of the residents are non-white. With just fewer than 24% of the total affordable housing units in census tracts heavily populated with residents who are not white – identified as census tracts where the number of non-white residents is more than 1,595 - one standard deviation (653) greater than the mean (542).



	Total Affordable Housing Units	Situated in Majority Non-White Community	Situated in Heavily Non-White Community
OHFA	35,292	12,814 (36.3%)	7,907 (22.4%)
515	5,384	2,229 (41.4%)	1,288 (23.9%)
LIHTC	23,537	10,285 (43.7%)	5,677 (24.1%)
Total	64,213	25,328 (39.4%)	14,872 (23.2%)

4. Immigrant Enclaves

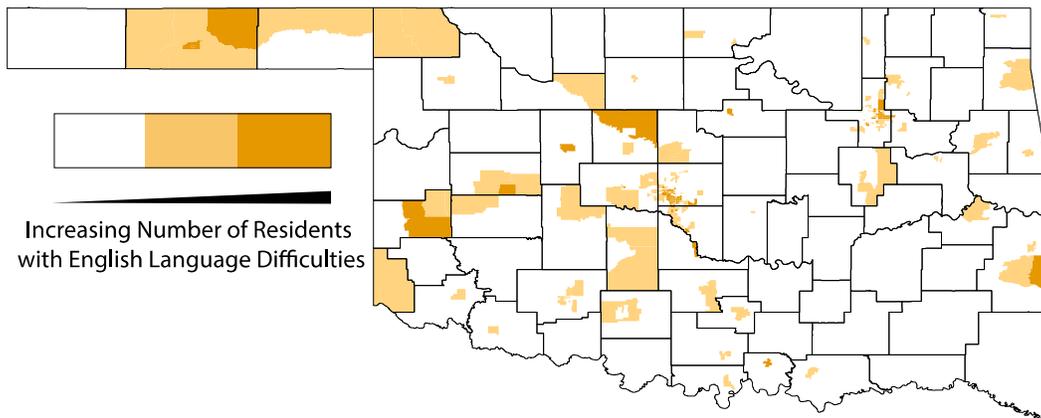
One-third of affordable housing units in Oklahoma are located in census tracts where more than the average number of residents are immigrants. About half of these units are located in areas dense with immigrants, where the number of individuals who are not citizen exceeds 349, more than one standard deviation (219) from the mean (130).



	Total Affordable Housing Units	Situated in Immigrant Enclave	Situated in Heavily Immigrant Enclave
OHFA	35,292	8,114 (23.0%)	3,358 (9.5%)
515	5,384	1,017 (18.9%)	159 (3.0%)
LIHTC	23,537	5,457 (23.2%)	3,364 (14.3%)
Total	64,213	14,588 (22.7%)	6,881 (10.7%)

5. Limited English Proficiency

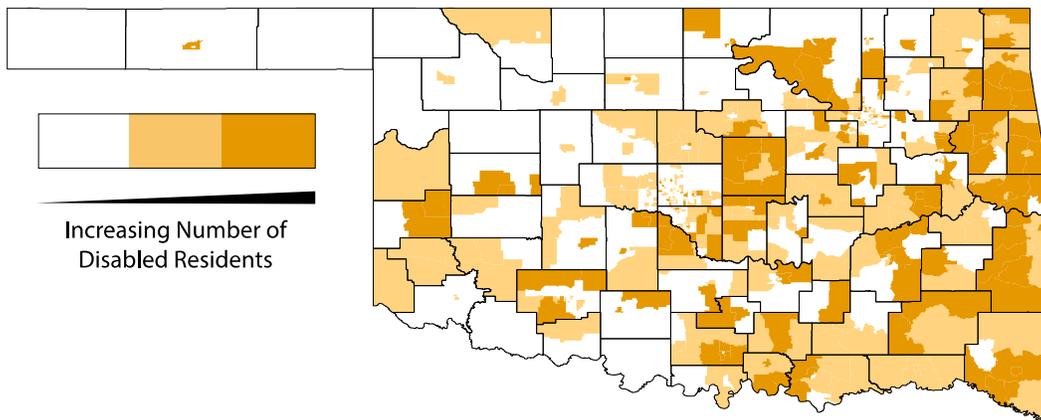
Almost 17,000 existing affordable housing units in Oklahoma are located in census tracts where more residents than average do not speak English very well. A little more than half of these units are located in areas dense with individuals with limited English proficiency, where the number of individuals who speak English less than very well exceeds 380, more than one standard deviation (240) from the mean (140).



	Total Affordable Housing Units	Community with more than average number of Limited English Speakers	Community dense with limited English Speakers
OHFA	35,292	6,250 (17.7%)	3,122 (8.8%)
515	5,384	799 (14.8%)	240 (4.5%)
LIHTC	23,537	4,034 (17.1%)	3,475 (14.8%)
Total	64,213	11,083 (17.3%)	6,837 (10.6%)

6. Disability

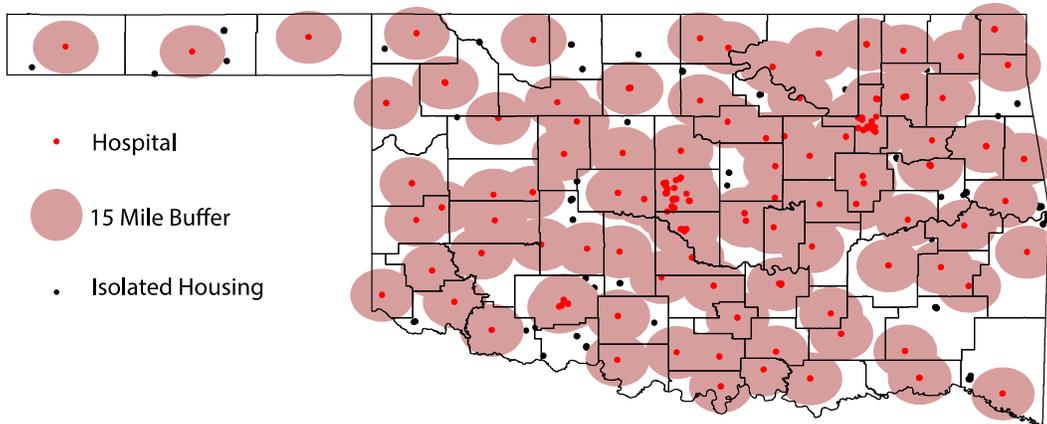
Almost 60% of existing affordable housing units in Oklahoma are located in census tracts where more residents than average have a disability. A little more than half of these units are located in areas dense with individuals with a disability, where the number of individuals who are disabled is greater than 831, more than one standard deviation (289) from the mean (542).



	Total Affordable Housing Units	Community with more than average number of Disabled Residents	Community dense with Disabled Residents
OHFA	35,292	10,098 (28.6%)	10,722 (30.4%)
515	5,384	1,686 (31.3%)	2,594 (48.8%)
LIHTC	23,537	7,074 (30.1%)	6,289 (26.7%)
Total	64,213	18,858 (29.4%)	19,605 (30.5%)

7. Hospitals

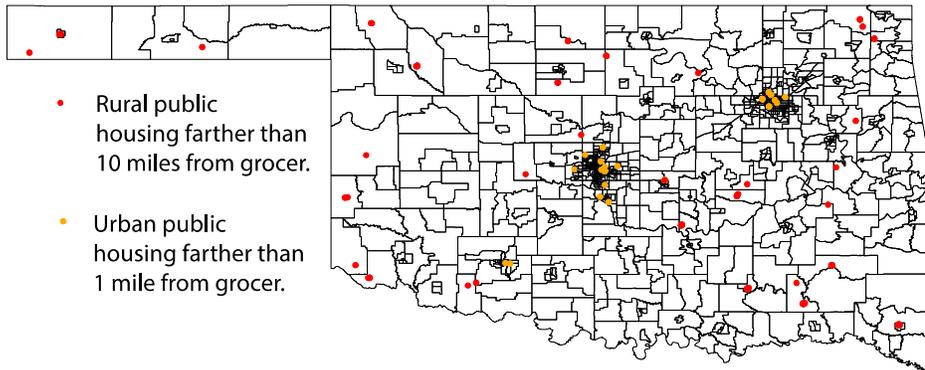
There are no affordable housing units more than 30 miles from a hospital. Approximately 2.6% of affordable housing units are farther than 15 miles from the nearest hospital. As indicated by the larger percentage of Rural Rental Housing Loan units, most of these are located in rural areas.



	Total Affordable Housing Units	More than 15 miles to nearest hospital	More than 30 miles to nearest hospital
OHFA	35,292	628 (1.8%)	0
515	5,384	500 (9.3%)	0
LIHTC	23,537	532 (2.3%)	0
Total	64,213	1,660 (2.6%)	0

8. Grocery Stores

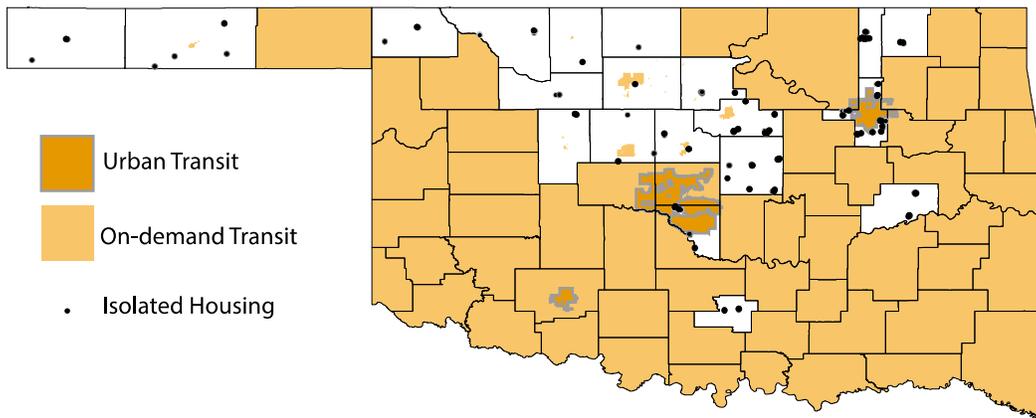
Approximately 7.8% of affordable housing units are in areas that are classified as food deserts. According to the United States Department of Agriculture, food deserts exist in urban environments further than 1 mile from a grocery store and in rural environments further than 10 miles from a grocery store (<https://apps.ams.usda.gov/fooddeserts/foodDeserts.aspx>).



	Total Affordable Housing Units	Urban > 1 Mile from nearest Grocer	Rural > 10 miles to nearest Grocer
OHFA	35,292	1,493 (4.2%)	1,097 (3.1%)
515	5,384	0	466 (8.7%)
LIHTC	23,537	1,175 (5.0%)	769 (3.3%)
Total	64,213	2,668 (4.2%)	2,332 (3.6%)

9. Transit

A little over 69% of affordable housing in Oklahoma is located in a census tract with limited or no access to transit services. This includes 8,367 affordable housing units in areas that lack public transit services all together as well as 36,363 units that are situated in areas that have on-demand transportation services that often have limited operation times and may only serve elderly and disabled populations or those going to a medical appointment.



	Total Affordable Housing Units	No Transit	Urban Transit	On-Demand Transit
OHFA	35,292	4,035 (11.4%)	11,265 (31.9%)	19,992 (56.6%)
515	5,384	767 (14.2%)	0	4,617 (85.8%)
LIHTC	23,537	3,565 (15.1%)	8,217 (34.9%)	11,755 (49.9%)
Total	64,213	8,367 (13.0%)	19,482 (30.3%)	36,363 (56.6%)

What does this mean for Oklahoma?

This report suggests a number of possible ways forward for the Oklahoma Housing Finance Agency as it continues to support quality low-income and workforce housing for residents of the state. Across a number of indicators of opportunity, affordable housing in the state clusters in ways that raise concerns about the opportunities available to affordable housing residents in comparison to other residents.

Continued efforts to improve the quality of life for affordable housing residents and reduce discrimination associated with affordable housing will likely need to include strategies that integrate new affordable housing as well as support existing communities of affordable housing. This will likely include public policies and funding designed to integrate low-income and workforce housing into a more diverse set of communities. Additionally, those living existing affordable housing communities need increased opportunities to stay in place, become self-sufficient, and participate in determining the future of their neighborhood. OHFA may consider partnering with other state, non-profit, and for-profit agencies to explore strategies for helping communities thrive economically, socially, and environmentally.

Moving ahead, Oklahoma should be wary of a narrowly focused vision focused solely on the problems of existing affordable housing and the integration of these residents into other communities. The relocation of residents harkens back to the physical and social destruction brought about by urban renewal. Such an approach pits efforts to enhance existing affordable housing through community development against efforts to build a more integrated and diverse society (Goetz 2015). Rather, Oklahoma has the opportunity to work closely with local municipalities to improve the conditions of current affordable housing communities while simultaneously advancing integration of low-income and workforce housing through the construction in new settings.

For future new development, a number of case studies and emerging scholarship on the importance of neighborhood effects provide guidance on possible ways forward for Oklahoma. For instance, in El Paso, Texas a public private partnership between the Housing Authority of the City of El Paso and private developers led to the development of a mixed income housing development. Eastside Crossings (<http://www.hacep.org/about-us/eastside-crossings>) provides 74 traditional affordable housing units, 79 affordable housing units, and 45 market rate units in partnership with the Texas Department of Housing and Community Affairs (Housing Authority of El Paso 2015). In Sacramento, partnership between private developers and the Capital Area Redevelopment Authority resulted in the adaptive reuse of a building listed on the National Register of Historic Buildings into affordable Housing (Vellinga 2015). Located in a dense, walkable, transit-oriented community, the Warehouse Artist Lofts (<http://www.rstreetwal.com>) are home to 116 units, 86 of which are affordable and 13,000 square feet of ground floor retail.

For existing affordable housing, strategies exist to help enhance localized opportunities and build a culture of community participation around housing. Across the nation, there is a need to refocus the discussion away from the deficits found in many communities to look for closely at opportunities (Lens 2015) and to think about the consequences of physical, social, and economic isolation (Clarke, Morenoff, Debbink, Golberstein, Elliott, & Lantz, 2014.).

The Oklahoma Housing Finance Agency may need to collaborate more closely with other governmental agencies to develop comprehensive strategies that not only improve existing housing but also work toward enhancing access to food, recreation, amenities, jobs, and quality schools. By doing so, OHFA could help build the social and physical resiliency of these communities so that residents would be empowered to choose for themselves whether or not they want to stay and be part of their existing community or move elsewhere in search of a better quality of life. A set of tools for doing some of this work is available through Policy Link (<http://www.policylink.org/equity-tools/equitable-development-toolkit/about-toolkit>). For those who are relocated due to circumstances that make staying in place impossible, intensive case management may be required to ensure that these residents avoid pitfalls and thrive in a new environment (Theodos, Popkin, Guernsey, & Getsinger, 2010). But evidence continues to suggest that stability, particularly in the lives of children, is an essential part of ensuring that everyone has the opportunity to succeed and thrive (HUD 2014).

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Data Sources

2014 American Community Survey Estimates

- Poverty: ACS_13_5YR_S1701 > HC02_EST_VC01 > Below poverty level; Estimate; Population for whom poverty status is determined
- Non-white enclaves: ACS_13_5YR_BO2001 > HD01_VD02 > [Total Population] - Estimate; Total: - White alone
- Immigrant enclaves: ACS_13_5YR_BO5001 > HD01_VD06 > Estimate; Total: - Not a U.S. citizen
- Limited English Proficiency: ACS_13_5YR_S1601 > HC03_EST_VC01 > Percent of specified language speakers - Speak English less than "very well"; Estimate; Population 5 years and over
- Disability: ACS_13_5YR_S1810 > HC02_EST_VC01 > with a disability; estimate; total civilian noninstitutionalized population

University of Oklahoma Center for Spatial Analysis: Data Warehouse

- Hospital locations as of 2008 derived from Oklahoma State Department of Health, Health Care Information Division.

University of Oklahoma Division of Regional and City Planning

- Grocery store locations retrieved from Internet search conducted by faculty and student research assistants at the University of Oklahoma.
- Transit locations retrieved from Oklahoma Department of Transportation (<http://www.okladot.state.ok.us/transit/pubtrans.htm>) and geocoded by faculty and student research assistants at the University of Oklahoma.

Appendix 1: County affordable housing Summaries

County	Total Units	Units at Risk for Poverty	Units in mostly Non-white Enclaves	Units in Community of Immigrants	Units in Limited English Neighborhood	Units nearer Elevated Number of Disabled	Units farther than 15 miles to Hospital	Units located in a Food Desert	Units that lack readily available Transit
Adair	676	676	676	0	0	177	0	0	0
Alfalfa	93	0	0	0	0	0	93	0	23
Atoka	145	121	0	0	0	0	24	145	24
Beaver	0	0	0	0	0	0	0	0	0
Beckham	343	87	228	0	228	315	0	28	0
Blaine	169	0	0	127	127	0	24	0	42
Bryan	1,005	538	501	0	0	501	0	0	0
Caddo	658	292	387	0	0	292	95	0	0
Canadian	1,655	0	248	0	0	0	48	24	0
Carter	1,040	373	938	189	0	972	24	24	24
Cherokee	1,359	986	412	0	0	436	0	13	0
Choctaw	433	312	0	0	0	0	0	0	0
Cimarron	69	0	0	0	0	0	8	69	69
Cleveland	2,389	1,080	194	758	648	601	0	214	718
Coal	71	0	0	0	0	71	0	0	0
Comanche	1,214	200	182	0	0	225	123	151	24
Cotton	114	0	0	0	0	0	114	0	0
Craig	290	0	0	0	0	157	0	72	0
Creek	1,359	163	163	0	0	670	0	0	0
Custer	255	78	0	0	0	172	0	0	0
Delaware	712	695	285	0	0	712	28	0	0
Dewey	75	0	0	0	0	0	16	0	0
Ellis	39	0	0	0	0	0	0	0	0
Garfield	824	683	127	0	0	0	0	52	50

County	Total Units	Units at Risk for Poverty	Units in mostly Non-white Enclaves	Units in Immigrant Enclaves	Units in Limited English Neighborhood	Units nearer Elevated Number of Disabled	Units farther than 15 miles to Hospital	Units located in a Food Desert	Units that lack readily available Transit
Garvin	557	0	0	0	0	265	0	0	0
Grady	758	71	0	0	0	621	71	0	0
Grant	8	0	0	0	0	0	8	8	8
Greer	100	0	0	0	0	0	0	0	0
Harmon	62	0	0	0	0	0	0	2	0
Harper	50	0	0	0	0	0	14	36	50
Haskell	63	0	0	0	0	0	0	0	0
Hughes	341	0	0	0	0	0	0	76	0
Jackson	322	18	18	0	18	0	30	30	0
Jefferson	36	0	0	0	0	0	0	0	0
Johnston	517	493	0	0	0	493	0	0	0
Kay	1,001	196	168	0	0	344	0	0	0
Kingfisher	153	0	0	8	8	0	8	8	40
Kiowa	143	0	0	0	0	0	0	0	0
Latimer	220	0	0	0	0	220	0	0	0
Le Flore	1,050	204	0	0	0	573	166	0	0
Lincoln	705	143	0	0	0	705	42	0	705
Logan	629	0	0	0	0	300	0	0	158
Love	62	0	0	62	0	0	0	0	0
Major	76	0	0	0	0	0	0	0	76
Marshall	134	0	109	109	109	109	0	0	0
Mayes	546	382	218	0	0	382	0	0	0
McClain	346	55	0	0	47	299	0	0	0
McCurtain	767	767	746	0	0	767	57	315	0
McIntosh	488	0	0	0	0	169	0	0	488

County	Total Units	Units at Risk for Poverty	Units in mostly Non-white Enclaves	Units in Community of Immigrants	Units in Limited English Neighborhood	Units nearer Elevated Number of Disabled	Units farther than 15 miles to Hospital	Units located in a Food Desert	Units that lack readily available Transit
Murray	224	95	0	0	0	224	0	0	224
Muskogee	1,572	642	59	0	0	44	48	0	0
Noble	387	0	0	0	0	0	42	30	345
Nowata	229	0	0	0	0	185	0	0	229
Okfuskee	214	169	0	0	0	213	0	1	0
Oklahoma	11,497	3,920	3,518	2,445	2,641	456	0	1,202	25
Okmulgee	663	303	227	0	0	127	0	0	0
Osage	1,544	538	700	0	0	1,391	42	0	0
Ottawa	409	0	0	0	0	96	0	84	0
Pawnee	65	0	0	0	0	0	37	20	0
Payne	1,797	1,209	0	120	120	648	0	0	971
Pittsburg	1,268	0	50	0	0	284	16	16	0
Pontotoc	810	311	286	0	0	336	0	0	0
Pottawatomi	1,715	1,009	587	0	0	954	0	284	0
Pushmataha	381	234	0	0	0	381	147	381	0
Roger Mills	14	0	0	0	0	0	0	14	0
Rogers	973	0	0	0	0	0	36	0	0
Seminole	426	76	75	0	0	75	0	123	0
Sequoyah	1,449	922	922	0	0	726	243	0	0
Stephens	841	0	0	0	0	310	12	0	0
Texas	816	0	372	782	782	372	60	6	75
Tillman	114	0	0	0	0	0	0	0	0
Tulsa	9,868	4,750	1,807	2,281	2,109	1,419	0	1,441	2,220
Wagoner	1,094	691	461	0	0	701	0	0	0
Washington	1,262	0	108	0	0	108	0	0	1,262
Washita	189	0	0	0	0	0	0	0	0

County	Total Units	Units at Risk for Poverty	Units in mostly Non-white Enclaves	Units in Community of Immigrants	Units in Limited English Neighborhood	Units nearer Elevated Number of Disabled	Units farther than 15 miles to Hospital	Units located in a Food Desert	Units that lack readily available Transit
Woods	65	0	0	0	0	0	2	0	65
Woodward	161	0	0	0	0	0	0	60	0

Lead-Based Paint Hazards

Findings / Health and Well-being

Lead is known to be highly toxic particularly to young children 5 years of age and under. Excessive exposure results in reduced intelligence, impaired hearing, reduced stature and a host of other negative health effects. It is well documented that a common source of lead exposure for children is lead-based paint in older housing along with the dust and soil it generates. Children are exposed to lead-based paint most commonly by directly eating paint chips or indirectly by ingesting lead-contaminated house dust or soil through normal hand-to-mouth contact.

For purposes of this analysis, the federal definition of “lead-based paint hazard” at 24 CFR Part 35.86 was applied. Under this definition, lead-based paint hazard is defined as, “...any condition that causes exposure to lead from lead-contaminated dust, lead-contaminated soil, or lead-contaminated paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects as established by the appropriate Federal agency.”

It is noteworthy estimates presented can only be stated as dwellings that “potentially” have LBP hazards because there are no real-time surveys or studies of residential structures built prior to 1978. However, there have been previous estimations provided in the state’s Consolidated Plan.

Statewide Findings

Using methodology which will be discussed later in this section, we have estimated the number of housing units in Oklahoma with lead-based paint hazards as defined in 24 CFR Part 35.86. Our estimates are shown in the following table.

Lead-Based Paint Hazards in Oklahoma		
	Number	Percent
Total Housing Units	1,432,730	
Total Housing Units with Lead-Based Paint Hazards	240,229	16.8%
Owner-Occupied Units w/LBP Hazards	159,861	66.5%
Renter-Occupied Units w/LBP Hazards	80,368	33.5%
Housing Units w/LBP Hazards Occupied by Low-to-Moderate Income Households	113,931	47.4%
Housing Units w/LBP Hazards with Children < 6 Years of Age Present	37,426	15.6%
Housing Units w/LBP Hazards Occupied by LMI Households and Children < 6 Years of Age Present	19,761	52.8%

Sources: American Healthy Homes Survey Table 5-1 & CHASTables 12 & 13

As shown, we estimate that there are 240,229 housing units in Oklahoma containing lead-based paint hazards, representing 16.8% of Oklahoma’s total housing stock. 66.5% of those units are owner-occupied, while 33.5% are renter-occupied. Of the 240,229 housing units containing lead-based paint hazards, 113,931 units, or 47.4%, are occupied by households with low-to-moderate incomes as defined by HUD. Among all housing units with lead-based paint hazards, 37,426 units have children under the age of six present, and 52.8% of those units, or 19,761 units total, are households with low-to-moderate incomes. Exhibits 2 through 6, found at the end of this section, graphically summarize our statewide findings at a county level.

Disaster Resiliency/ Economy and Society, Infrastructure and Environment

While communities strive to address lead-based paint hazards through education and removal when detected in connection with federally funded local housing rehabilitation initiatives, hazard detection and mitigation may have special considerations in terms of disaster resiliency.

Many disasters are accompanied by widespread damage to residential structures often times scattering building material debris across the landscape necessitating removal by heavy equipment and disposal in landfills. When building materials contaminated with lead-based paint become part of non-contaminated debris disposal, it presents an environmental hazard that can span well beyond recovery and rebuilding efforts.

Leadership and Strategy

Given the albeit large but finite number of potential housing units with lead hazards, the state and local communities may wish to consider initiatives aimed at reducing and/or eventually eliminating residential lead-based paint hazards, particularly in housing occupied by low and moderate income households with young children present. One such initiative could be the use of the state's various federal and state housing programs' competitive funding selection criteria. By designing rating criteria that specifically awards points to applicants that purposefully seek out properties within counties known to have higher percentages of lead hazards, housing developers along with those engaged in rehabilitation may be incentivized to engage in hazard mitigation.

State and local governments may wish to capitalize on the results of this study by using the data to support competitive applications to the Federal Home Loan Bank Topeka's Affordable Housing Program funding for owner occupied rehabilitation which, among other competitive rating criteria, awards points for the "Abatement of Hazardous Environmental Conditions". Similarly, this report's data may be used to document hazards and need in applications for competitive health care grants offered at the federal level.

Similar to initiatives undertaken by USHUD, the state may want to consider undertaking a real-time sample survey of homes built prior to 1978 across the state's community sizes and counties to more accurately ascertain the extent of the hazard and/or conducting real-time surveys of LBP Risk Assessors licensed by the ODEQ.

Survey of Previous Lead-based Paint Studies

Using a combination of US Census Bureau and US Department of Housing and Urban Development Comprehensive Housing Affordability Strategy data and age of housing stock built prior to 1980, the Oklahoma Department of Commerce's, "State of Oklahoma Five-Year E-Consolidated Plan FY 2014 – 2018" estimated 59% of the owner occupied and 65% of the renter occupied housing had the potential of containing lead-based paint. To address lead paint hazards, the Consolidated Plan recommended assessment of hazard presence be conducted at the point dwelling rehabilitation is undertaken and that nonprofits advise persons receiving federal rehabilitating assistance regarding the dangers of lead exposure.

At the national level, between 1998 and 2000, USHUD Office of Health Homes and Lead Hazard Control staff and the National Institute of Environmental Health Sciences conducted a real-time

random sampling of 831 permanently occupied housing units (multifamily, single family and mobile homes) taken from all 50 states and the District of Columbia. The results indicated an estimated 38 million (39% of the 96 million total housing units) of the nation's housing units had lead-based paint hazards. Of that total, 24 million had significant lead hazards with 1.2 million of those units occupied by low income families. It was further estimate that 35% of all low income housing had lead-based paint hazards. The study also noted the prevalence of lead-based paint increases with age of housing. However, most painted surfaces, even in older homes don't have lead paint. Geography was found to be related to the incidence of lead-based paint with the Northeast and Midwest having 2 times the prevalence of lead paint than the South and West. Finally, the study recommends "public-private sector resources be directed units posing the greatest risk" as a preventive measure to avoid lead poisoning.

In April 2011, the U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control updated its 1998-2000 nationwide report in its publication, "American Healthy Homes Survey, Lead and Arsenic Findings". This report, conducted from June 2005 through March 2006, estimated 37.1 million homes (34.9%) out of a total of 106 million total housing units have lead-based paint somewhere in the building. Of the 65.6 million homes built before 1978, 34.4 million (52%) have lead-based paint. The study reaffirmed the previous finding that the prevalence of lead-based paint is higher in the Northeast and Midwest parts of the United States than South and West. It also confirmed earlier finding that the incidence of lead-based paint increases with age of housing with 86% of the homes built prior to 1940 containing lead. An estimated 3.6 million homes with children less than 6 years of age have lead-based paint hazards of which 1.1 million are low income households. Of the 16.8 million homes with children under the age of 6, 5.7 million (34%) have lead-based paint, about the same incidence of lead-based paint in all homes.

In June 2006, the Oklahoma State Department of Health's Childhood Lead Poisoning Prevention Program (OCLPPP) received a 5-year project grant "Oklahoma Childhood Lead Poisoning Prevention Program Focusing in High Risk Groups". That program focused on communities evidencing high numbers of children 6-72 months of age who are at high risk for lead poisoning.

In order to more effectively target high-risk areas and populations, the OCLPPP identified 21 high-risk target area (HRTA) zip codes (see Exhibit #1) located within Oklahoma, Tulsa, Muskogee, Jackson, Okmulgee, Ottawa, Kay, Garfield, and Hughes counties. These 21 zip codes were narrowed from a list of 57 zip codes out of the state's approximately 700 zip codes that with populations of 5,000 or more persons; greater than or equal to 22% of housing stock built prior to 1950; and, greater than or equal to 18% of children under the age of 6 years living below the poverty level.

The 57 zip codes were further compared and evaluated based on selected characteristics such as EBLL cases and proportion of minority population. Zip codes with higher EBLL prevalence and/or minority populations (Hispanic/African American/American Indian) were ranked higher and given the designation as HRTA zip codes.

Tillman County Findings

The number of housing units in Tillman County containing lead-based paint hazards can be estimated by applying the percentages of housing units with such hazards reported by the American Healthy

Homes Survey, to the number of occupied homes in Tillman County, by year of construction. The following table presents the percentage of housing units in the Census Bureau South Region based on the AHHS findings.

Housing Units in the South Census Region with Lead-Based Paint Hazards by Year of Construction			
Year of Construction	No. of Housing Units (000s)	Units w/ LBP Hazards (000s)	Percent of Units w/ LBP Hazards
1978-2005	18,625	664	3.6%
1960-1977	11,724	1,311	11.2%
1940-1959	5,575	2,145	38.5%
1939 or Earlier	3,072	1,947	63.4%
Total	38,996	6,067	15.6%

Source: U.S. Dept. of Housing and Urban Development, American Healthy Homes Survey, Table 5-1

These percentages can then be applied to the number of housing units in Tillman County, by year of construction and by tenure (owner-occupied versus renter-occupied), as reported by HUD's Comprehensive Housing Affordability Strategy (CHAS) data for Tillman County.

Total Housing Units in Tillman County with Lead-Based Paint Hazards by Tenure			
Total Owner-Occupied Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	484	3.57%	17
1960-1977	482	11.18%	54
1940-1959	665	38.48%	256
1939 or Earlier	440	63.38%	279
Total	2,070	29.27%	606
Total Renter-Occupied Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	160	3.57%	6
1960-1977	225	11.18%	25
1940-1959	200	38.48%	77
1939 or Earlier	155	63.38%	98
Total	740	27.84%	206
Total Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	644	3.57%	23
1960-1977	707	11.18%	79
1940-1959	865	38.48%	333
1939 or Earlier	595	63.38%	377
Total	2,810	28.89%	812

Sources: American Healthy Homes Survey Table 5-1 & CHAS Table 12

Finally, we can use the same methodology to estimate the number of housing units in Tillman County with lead-based paint hazards, occupied by households with low-to-moderate incomes, by tenure:

**Housing Units in Tillman County with Lead-Based Paint Hazards by Tenure,
Occupied by Low-Income Families**

Owner-Occupied Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	59	3.57%	2
1960-1977	131	11.18%	15
1940-1959	150	38.48%	58
1939 or Earlier	95	63.38%	60
Total	434	31.01%	135

Renter-Occupied Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	71	3.57%	3
1960-1977	99	11.18%	11
1940-1959	105	38.48%	40
1939 or Earlier	50	63.38%	32
Total	325	26.37%	86

Total Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	130	3.57%	5
1960-1977	230	11.18%	26
1940-1959	255	38.48%	98
1939 or Earlier	145	63.38%	92
Total	759	29.02%	220

Sources: American Healthy Homes Survey Table 5-1 & CHAS Table 12

**Housing Units in Tillman County with Lead-Based Paint Hazards by Tenure,
Occupied by Moderate-Income Families**

Owner-Occupied Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	46	3.57%	2
1960-1977	63	11.18%	7
1940-1959	210	38.48%	81
1939 or Earlier	120	63.38%	76
Total	439	37.71%	166

Renter-Occupied Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	57	3.57%	2
1960-1977	68	11.18%	8
1940-1959	50	38.48%	19
1939 or Earlier	45	63.38%	29
Total	219	26.17%	57

Total Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	103	3.57%	4
1960-1977	131	11.18%	15
1940-1959	260	38.48%	100
1939 or Earlier	165	63.38%	105
Total	658	33.87%	223

Sources: American Healthy Homes Survey Table 5-1 & CHAS Table 12

To conclude, we estimate that there are a total of 812 homes in Tillman County containing lead-based paint hazards, 606 owner-occupied and 206 renter-occupied. Of the 812 homes in the county estimated to have lead-based paint hazards, 220 are estimated to be occupied by households with low-incomes (incomes less than 50% of Area Median Income), and 223 are estimated to be occupied by households with moderate incomes (between 50% and 80% of Area Median Income), for a total of 443 housing units in Tillman County with lead-based paint hazards occupied by households with low or moderate incomes.

Lead-Based Paint Hazards in Homes with Children Present

Using the same methodology, we can estimate the number of housing units in Tillman County occupied by households with children under the age of six present. For this analysis we apply the lead-based paint hazards percentages from the American Healthy Homes Survey to the data in HUD CHAS Table 13, which details housing units by year of construction, household income, and presence of children under the age of six. The data is presented in the following table:

Housing Units in Tillman County with Lead-Based Paint Hazards with Children under Age 6 Present Occupied by Low or Moderate-Income Families			
Housing Units < 50% AMI w/ Children under 6 Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	28	3.57%	1
1940-1977	75	19.98%	15
1939 or Earlier	14	63.38%	9
Total	117	21.25%	25
Housing Units 50%-80% AMI w/ Children under 6 Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	6	3.57%	0
1940-1977	33	19.98%	7
1939 or Earlier	24	63.38%	15
Total	63	35.01%	22
Total LMI Housing Units w/ Children Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	34	3.57%	1
1940-1977	108	19.98%	22
1939 or Earlier	38	63.38%	24
Total	180	26.07%	47
Total Housing Units w/ Children Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	83	3.57%	3
1940-1977	203	19.98%	41
1939 or Earlier	57	63.38%	36
Total	343	23.23%	80

Sources: American Healthy Homes Survey Table 5-1 & CHAS Table 13

As shown, we estimate there are 80 housing units in Tillman County with lead-based paint hazards and children under the age of six present, and that 47 of those housing units are occupied by families with low to moderate incomes.

Research Footnotes/Sources

Oklahoma Department of Commerce, "State of Oklahoma Five-Year E-Consolidated Plan FY 2014 – 2018"

"The Prevalence of Lead-Based Paint Hazards in U.S. Housing", Environmental Health Perspectives, Volume 110, Number 10, October 2002

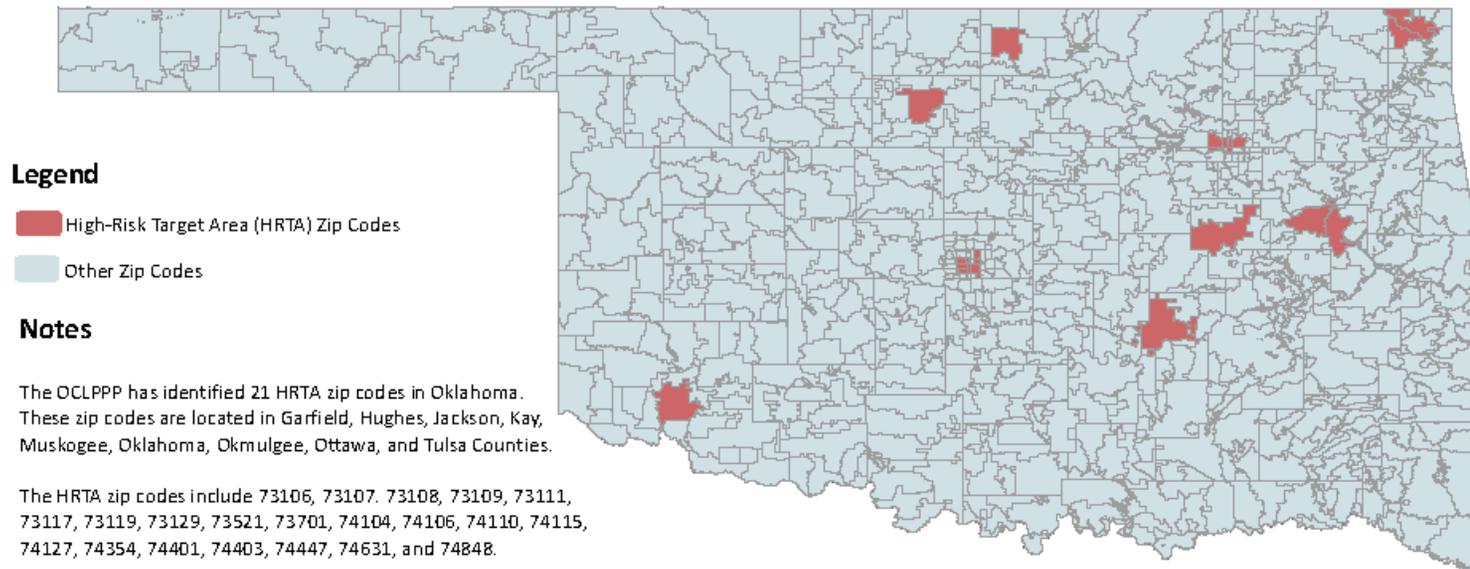
U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control, "American Healthy Homes Survey, Lead and Arsenic Findings", April 2011

Oklahoma State Department of Health, Oklahoma Childhood Lead Poisoning Prevention Program Focusing in High Risk Groups"

U.S. Department of Housing and Urban Development, Comprehensive Housing Affordability Strategy (CHAS), 2007-2011

Exhibit #1

Map 2: High-Risk Target Areas (HRTA) Zip Codes for Childhood Lead Poisoning



0 40 80 160 Miles

Childhood Lead Poisoning Prevention Program
 Screening and Special Services
 Prevention and Preparedness Service
 Oklahoma State Department of Health

Conclusions

The previous analysis has attempted to describe the state of the residential housing market in Tillman County, Oklahoma. Where possible, information regarding the population centers of the county was included to assess need on a community level. Much of the information is based on demographic information from local authorities and national information services. However, personal interviews were performed with property owners and managers, real estate professionals, and community officials in an effort to substantiate information from the national organizations and understand current market conditions. Several important issues regarding housing have become apparent through this analysis and are identified below.

Tillman County has steadily declined in population for the last fifteen years, continuing a trend since the 1940 Census. Employment levels have been generally declining for the last fifteen years in Tillman County, though there has been some slight upward trend in the last year. Without any significant new employment opportunities in the area, it is unlikely that the trend of declining population and household levels will reverse in the near future.

In terms of disaster resiliency we note that 74 tornadoes have impacted the county between 1959 and 2014, with 138 injuries and 12 fatalities. The National Climatic Data Center notes 12 flooding events in Tillman County between 1995 and 2007. We recommend the county create a registry of shelters for individual and business-based shelters.

Tillman County is located within the Southwest Oklahoma Continuum of Care (CoC), which provides services to the area's homeless populations among other functions. Throughout the entire Southwest Oklahoma CoC, there are an estimated 239 homeless persons, 177 of which are estimated to be sheltered. This Continuum of Care has a disproportionately high number of homeless veterans, and at least 8 homeless households comprised only of children. Investment should be made for more temporary and permanent housing for homeless veterans in this region.

The housing stock of Tillman County is aging, and some limited need exists for preservation or rehabilitation of existing housing, and potentially some limited housing need for special needs populations; we note that the senior population of the county is projected to increase 0.92% per year over the next five years, and that 19.98% of the county's population has one or more disabilities (compared with 15.59% statewide). A relatively small amount of housing, particularly reasonably affordable housing for households earning less than area median income, would likely be beneficial to the needs of households, particularly renters and owners that are cost overburdened.

Addendum A
Acknowledgments



The Housing Needs Assessment research team extends a special thanks to the following individuals and organizations for their many contributions of data, program information and time that helped make this project possible:

University of Oklahoma Intern Team

Derrick “Rhys” Wilson, Eyakem Gulilat, Chase Phillips, Jane Wyrick, Charlotte Adcock, Sam Shreder, Jacquelyn Porter, Amy Wilson, Kevin Wang, Lora Gwartney, Forrest Bennett, Maryam Moradian, Salma Al Nairab

Federal Agencies

Federal Reserve Bank of Kansas City-Oklahoma City Branch, Steven Shepelwich

US Federal Emergency Management Agency, Harold Latham

US Department of Housing and Urban Development Oklahoma City Field Office, Jackie McBride

Oklahoma State Agencies

Department of Health Karen Fenserly, Susan J. Quigley and Marisa New

Department of Human Services, Connie Schlittler

Department of Emergency Management Dara Hayes

Department of Commerce, Rebekah Zahn-Pittser

Local Organizations

Regional Council of Governments and Oklahoma Association of Regional Councils

Continuums of Care Network

Hazard Mitigation Plan personnel/administrators

Community economic development professionals

City Managers and Planners

Community Action Agencies

Chambers of Commerce

Affordable housing developers, owners and investors

Homeless Alliance, Dan Straughan, Sunshine Hernandez



Addenda

Pathways, Patrice Pratt

Women's Resource Center, Vanessa Morrison

AIDS Care Fund, Sunshine Schillings

Addendum B

Qualifications



Owen S. Ard, MAI

Experience

Senior Managing Director of Integra Realty Resources - Tulsa/OKC, a full service valuation and consulting firm. Actively engaged in real estate valuation and consulting assignments since 1984, Mr. Ard has performed appraisal services consisting of narrative and summary real estate appraisals, ad valorem tax protests, consulting, litigation support services, market and feasibility studies, reviews, market study analyses and appraisals in connection with allocation of tax credits, brokerage services for commercial and residential transactions, property management, and expert litigation testimony. All types of real property are encompassed -apartments, ranches, theaters, hotel/motel, multi-purpose and resort properties, golf courses, high-rise and garden office buildings, manufacturing facilities, warehousing and distribution centers, nursing homes, assisted living facilities, banks, shopping centers and malls, residential subdivisions, industrial parks, and sports arenas. Valuations and market studies have been prepared on proposed, partially completed, renovated and existing structures. Appraisals have been made for condemnation purposes, estates, mortgage financing, equity participation and due diligence support. Clients served include corporations, law firms, financial institutions, investment firms and public/private agencies.

Professional Activities & Affiliations

Central Oklahoma Chapter, Appraisal Institute (Past Chapter President)
National Association of Realtors
Urban Land Institute
National Council of Affordable Housing Market Analysts
Appraisal Institute National Committees
Tulsa Metropolitan Area Planning Commission
Tulsa Preservation Commission
Tulsa Local Development Act Review Committee
Appraisal Institute, Member (MAI)

Licenses

Oklahoma, Oklahoma General Appraiser License, 11245CGA, Expires April 2018

Education

B.S.B.A. Degree, Marketing, University of Tulsa, Tulsa, Oklahoma (1984)

Successfully completed numerous real estate related courses and seminars sponsored by the Appraisal Institute, accredited universities and others.

Currently certified by the Appraisal Institute's voluntary program of continuing education for its designated members.

Qualified Before Courts & Administrative Bodies

District Court of Tulsa County, Oklahoma
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Owen S. Ard, MAI

Qualified Before Courts & Administrative Bodies (Cont'd)

Kansas Board of Tax Appeals
United States Federal Bankruptcy Court, Tulsa, Oklahoma
United States Federal Bankruptcy Court, Minneapolis, Minnesota
United States Federal Bankruptcy Court, Jackson, Mississippi

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David A. Puckett

Experience

Senior Director with Integra Realty Resources - Oklahoma, a full service valuation and consulting firm. Actively engaged in real estate valuation and consulting assignments since May 2002, Mr. Puckett has performed appraisal services consisting of narrative and summary real estate appraisals. All types of real property are encompassed-apartments, garden office buildings, manufacturing and warehouse industrial buildings, mobile home parks, restaurants and retail structures. Valuations and market studies have been prepared on proposed and existing structures. Appraisals have been made for estates, mortgage financing, equity participation and due diligence support. Prior to his employ at Integra Realty Resources - Oklahoma, Mr. Puckett was an employee of the University of Oklahoma Center for Business and Economic Development, working as a data analyst for the All County Affordable Housing Study commissioned by the Oklahoma Department of Commerce. Responsibilities included demographic, economic and real estate data collection from federal, state and local sources, as well as interviews of regional planning district, county and municipal officials, real estate market experts and local economic development experts. Mr. Puckett was responsible for site visits of 23 of the 77 Oklahoma counties, and personally authored 18 of the final reports. As an employee of IRR-Oklahoma, Mr. Puckett also performed the site visits and authored the final reports for four of the nine entitlement cities: Tulsa, Broken Arrow, Shawnee and Lawton. Mr. Puckett has also completed numerous housing market studies for use in applications for Federal Low-Income Housing Tax Credits in Oklahoma, Kansas, Missouri and Arkansas, and has performed market studies and appraisals for use in H.U.D.'s Multifamily Accelerated Processing (M.A.P.) program. Clients served include corporations, financial institutions, investment firms and public/private agencies.

Professional Activities & Affiliations

Appraisal Institute-Candidate for Designation

Licenses

Oklahoma, Oklahoma General Appraiser License, 12795CGA, Expires December 2016

Education

University of Oklahoma, Norman – Bachelor of Arts (Economics)

Successfully completed the following Appraisal Institute courses and seminars:

- Uniform Standards of Professional Appraisal Practice, 15-Hour
- Introduction to Income Capitalization Seminar
- Basic Income Capitalization 310
- Advanced Income Capitalization 510
- Highest and Best Use and Market Analysis 520
- Advanced Sales Comparison and Cost Approaches 530
- Report Writing and Valuation Analysis 540
- Advanced Concepts and Case Studies
- Real Estate Finance Statistics and Valuation Modeling
- Business Practices and Ethics 420

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Corporate Profile

Integra Realty Resources, Inc. offers the most comprehensive property valuation and counseling coverage in North America with over 60 independently owned and operated offices located throughout the United States and the Caribbean. Integra was created for the purpose of combining the intimate knowledge of well-established local firms with the powerful resources and capabilities of a national company. Integra offers integrated technology, national data and information systems, as well as standardized valuation models and report formats for ease of client review and analysis. Integra's local offices have an average of 25 years of service in the local market, and virtually all are headed by a Senior Managing Director who is an MAI member of the Appraisal Institute.

A listing of IRR's local offices and their Senior Managing Directors follows:

ATLANTA, GA - Sherry L. Watkins, MAI, FRICS
AUSTIN, TX - Randy A. Williams, MAI, SR/WA, FRICS
BALTIMORE, MD - G. Edward Kerr, MAI, MRICS
BIRMINGHAM, AL - Rusty Rich, MAI, MRICS
BOISE, ID - Bradford T. Knipe, MAI, ARA, CCIM, CRE, FRICS
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CHARLESTON, SC - Cleveland "Bud" Wright, Jr., MAI
CHARLOTTE, NC - Fitzhugh L. Stout, MAI, CRE, FRICS
CHICAGO, IL - Eric L. Enloe, MAI, FRICS
CINCINNATI, OH - Gary S. Wright, MAI, FRICS, SRA
CLEVELAND, OH - Douglas P. Sloan, MAI
COLUMBIA, SC - Michael B. Dodds, MAI, CCIM
COLUMBUS, OH - Bruce A. Daubner, MAI, FRICS
DALLAS, TX - Mark R. Lamb, MAI, CPA, FRICS
DAYTON, OH - Gary S. Wright, MAI, FRICS, SRA
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DETROIT, MI - Anthony Sanna, MAI, CRE, FRICS
FORT WORTH, TX - Gregory B. Cook, SR/WA
GREENSBORO, NC - Nancy Tritt, MAI, SRA, FRICS
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HOUSTON, TX - David R. Dominy, MAI, CRE, FRICS
INDIANAPOLIS, IN - Michael C. Lady, MAI, SRA, CCIM, FRICS
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EDUCATION:

Ph.D. Urban and Regional Planning, Florida State University, Tallahassee, FL, 2004.

J.D./M.U.P. Law and Urban Planning, University of Kansas, Lawrence, KS, 2000.

B.S. Urban Affairs and Theatre Arts, Bradley University, Peoria, IL, 1996.

RESEARCH INTERESTS:

The legal aspects of land use, affordable housing, historic preservation and aesthetics regulation at the federal, state, and local level.

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Associate Professor and Director of Regional and City Planning, University of Oklahoma (07/12-present)

Assistant Professor with a Joint Appointment in Planning and Law, University of Florida (01/08-6/12)

Director of the Center for Building Better Communities, University of Florida (05/11-06/12)

Assistant Professor and Minor Program Coordinator, Texas A&M University (01/05-12/07)

Lecturer, Rutgers University Bloustein Institute (01/06-present)

Lecturer, Texas A&M University (01/04-12/04)

Adjunct Professor, Florida State University (01/03-12/03)

Graduate Teaching Assistant, Florida State University (05/02-12/03)

Legal Intern, 1000 Friends of Florida (05/02-12/03)

Associate, Holland & Knight LLP (05/00-08/01)

AWARDS:

Student Planning Award for the Pinellas County Post Disaster Ordinance Drafting Project from the Florida Chapter of the American Planning Association, Fall, 2011.

Award for Service as the University Liaison to the Florida Chapter of the American Planning Association, Fall, 2010.

Teacher of the year award by the UF Student Planning Association, April, 2010.

Best paper in the real estate valuation category by the Appraisal Institute with Kimberly Geideman and Shan Gao, Fall, 2009.

Excellence in Teach Award by the College of Architecture of Texas A & M University, September, 2005.

Student Planning Award by the Texas Chapter of the American Planning Association, Fall, 2007.

Early Dissertation Research Grant to Study the Effects of Intergenerational Planning on Relocation Grief from the U.S. Department of Housing and Urban Development, November, 2003.

COURSES TAUGHT:

Principles and Practice of Urban Planning (graduate level, at the University of Oklahoma)

Land Use Controls (graduate level, at the University of Oklahoma)

Sociology of Housing (graduate level, at the University of Oklahoma with Dean Charles Graham)

Growth Management Powers II (graduate-law course, at the University of Florida)

Growth Management Powers I (graduate-law course, at the University of Florida)

Affordable Housing Law (graduate-law course, at the University of Florida)

Planning History and Theory (graduate level, at the University of Florida and Texas A&M University)

Land Use Planning Law (law school, at the University of Florida College of Law)

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K. Frank, J. Macedo, and **D. Jourdan**, Fostering Rural Adaptive Capacity for Sea Level Rise Planning Using Methods of Community Engagement (pending review- special edition of the Journal of the Community Development Society).

D. Jourdan and S. Pilat, Preserving Public Housing: Federal, State and Local Efforts to Preserve the Social and Architectural Forms Associated with Housing for the Poor in the *Journal of Preservation Education and Research* (forthcoming).

Ozor, B., K. Frank, and **D. Jourdan**, Confronting Wicked Problems with Games: How Role-Play Informs Planning for Sea Level Rise in Northeast Florida (pending review).

Jourdan, D., A. Ray, and L. Thompson, Relocating from Subsidized Housing in Florida: Are Residents Moving to Opportunity in *Journal of Housing and Community Development Law* (forthcoming).

Jourdan, D., K. Hurd, W. Gene Hawkins, and K. Winson Geideman, Evidence Based Sign Regulation: Regulating Signage on the Basis of Empirical Wisdom in *The Urban Lawyer*, 45:2, Spring 2014, 327-348.

Jourdan, D. S. Van Zandt, and E. Tarleton, Coming home: Resident satisfaction regarding return to a revitalized HOPE VI community in *Cities* available at: <http://www.sciencedirect.com/science/article/pii/S0264275113000322>, 2013.

Jourdan, D., A Response to Mandelker's Free Speech Law for On Premise Signs in *Planning and Environmental Law*, 65:4, 2013, 4-10.

Land Development Law (graduate level, at Texas A&M University)
Historic Preservation Law (graduate level, at Texas A&M University)
Introduction to Urban Planning (undergraduate level, at Texas A&M University and Florida State University)
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Environmental Law (continuing education, at Rutgers University)
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Ordinance Drafting (continuing education, at Rutgers University)

PUBLICATIONS:

Refereed Journal Articles

K. Frank, J. Macedo, and **D. Jourdan**, Fostering Rural Adaptive Capacity for Sea Level Rise Planning Using Methods of Community Engagement (pending review- special edition of the Journal of the Community Development Society).

D. Jourdan and S. Pilat, Preserving Public Housing: Federal, State and Local Efforts to Preserve the Social and Architectural Forms Associated with Housing for the Poor in the *Journal of Preservation Education and Research* (forthcoming).

Ozor, B., K. Frank, and **D. Jourdan**, Confronting Wicked Problems with Games: How Role-Play Informs Planning for Sea Level Rise in Northeast Florida (pending review).

Jourdan, D., A. Ray, and L. Thompson, Relocating from Subsidized Housing in Florida: Are Residents Moving to Opportunity in *Journal of Housing and Community Development Law* (forthcoming).

Jourdan, D., K. Hurd, W. Gene Hawkins, and K. Winson Geideman, Evidence Based Sign Regulation: Regulating Signage on the Basis of Empirical Wisdom in *The Urban Lawyer*, 45:2, Spring 2014, 327-348.

Jourdan, D. S. Van Zandt, and E. Tarleton, Coming home: Resident satisfaction regarding return to a revitalized HOPE VI community in *Cities* available at: <http://www.sciencedirect.com/science/article/pii/S0264275113000322>, 2013.

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Jourdan, D., Enhancing HOPE VI Revitalization Processes with Participation, in *Journal of the Community Development Society*, Vol. 39:No. 2, 2008, pp. 75-90.

Jourdan, D., Reducing Pre-Relocation Grief with Participation in a HOPE VI Grant Application Process, in *International Journal of Public Participation*, Vol. 2:No. 2, 2008, pp. 75-92.

Jourdan, D., Mending Fences: Resolving Neighbor Disputes With Squatters Settlements in Belize, in *PACE Institute for Environmental and Regional Studies Proceedings*, Vol. 4, 2004, pp. 135-149.

White, S. M. and **D. Jourdan**, Neotraditional Development: A Legal Analysis, in *Land Use Law and Zoning Digest* (1999).

Books

Jourdan, D. and E. Strauss. *Planner's Guide to Land Use Law: Planning for Wicked Problems*, NY: Routledge (under contract).

Book Chapters and Entries

Jamal, T. and **D. Jourdan**. Interdisciplinary Tourism Education in Interdisciplinary Teaching and Learning in Higher Education: theory and practice. *Interdisciplinary Learning and Teaching in Higher Education: theory and practice*. Dr Balasubramanyam Chandramohan and Dr Stephen Fallows (eds.), London: Routledge Falmer. (2008).

D. Jourdan. Grounding Theory: Developing New Theory on Intergenerational Participation in Qualitative Methods for Housing Research. *Qualitative Housing Research Methods*. Paul Maquin (ed.), London: Elsevier. (2008).

Non-Refereed Publications

Jourdan, D., Hawkins, G., Winson-Geideman, K., and R. Abrams. The Model Sign Code. International Sign Association (December, 2008).

Winson-Geideman, K., **D. Jourdan** and S. Gao. The Effects of Adaptive Reuse by the Savannah College of Art & Design on Property Value and Community Change in Savannah, Georgia. *Lincoln Land Institute Working Papers* (December, 2006).

Jourdan, D. Bomb Proof Schools. *Plan Canada*. (Fall, 2006).

Van Zandt, S., Jourdan, D., Martin, J., and C. Giusti. Final Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2012)

Jourdan, D., Enhancing HOPE VI Revitalization Processes with Participation, in *Journal of the Community Development Society*, Vol. 39:No. 2, 2008, pp. 75-90.

Jourdan, D., Reducing Pre-Relocation Grief with Participation in a HOPE VI Grant Application Process, in *International Journal of Public Participation*, Vol. 2:No. 2, 2008, pp. 75-92.

Jourdan, D., Mending Fences: Resolving Neighbor Disputes With Squatters Settlements in Belize, in *PACE Institute for Environmental and Regional Studies Proceedings*, Vol. 4, 2004, pp. 135-149.

White, S. M. and **D. Jourdan**, Neotraditional Development: A Legal Analysis, in *Land Use Law and Zoning Digest* (1999).

Books

Jourdan, D. and E. Strauss. *Planner's Guide to Land Use Law: Planning for Wicked Problems*, NY: Routledge (under contract).

Book Chapters and Entries

Jamal, T. and **D. Jourdan**. Interdisciplinary Tourism Education in Interdisciplinary Teaching and Learning in Higher Education: theory and practice. *Interdisciplinary Learning and Teaching in Higher Education: theory and practice*. Dr Balasubramanyam Chandramohan and Dr Stephen Fallows (eds.), London: Routledge Falmer. (2008).

D. Jourdan. Grounding Theory: Developing New Theory on Intergenerational Participation in Qualitative Methods for Housing Research. *Qualitative Housing Research Methods*. Paul Maquin (ed.), London: Elsevier. (2008).

Non-Refereed Publications

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Winson-Geideman, K., **D. Jourdan** and S. Gao. The Effects of Adaptive Reuse by the Savannah College of Art & Design on Property Value and Community Change in Savannah, Georgia. *Lincoln Land Institute Working Papers* (December, 2006).

Jourdan, D. Bomb Proof Schools. *Plan Canada*. (Fall, 2006).

Van Zandt, S., Jourdan, D., Martin, J., and C. Giusti. Final Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2012)

Van Zandt, S., Jourdan, D., Martin, J., and C. Giusti. Interim Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2011).

Van Zandt, S., **Jourdan, D.**, Martin, J., and C. Giusti. Interim Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2009).

Van Zandt, S., **Jourdan, D.**, Martin, J., and C. Giusti. Interim Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2008).

Van Zandt, S., **Jourdan, D.**, Martin, J., and C. Giusti. Baseline Report for Beaumont's HOPE VI Project. Prepared for the Beaumont Housing Authority (December 2007).

Van Zandt, S., **Jourdan, D.**, Martin, J., and C. Giusti. Need and Demand for Affordable Housing in the Brazos Valley. Report to Brazos Valley Affordable Housing Corporation. (June 2006).

SPONSORED RESEARCH:

Co-PI, Tribal Climate Change and Extreme Event Response Studies to Identify Vulnerabilities, South Central Climate Science Center, 2014-2015.

PI, Oklahoma City, Sustainability Audit, May 2013-present.

PI, Shimberg Center for Housing Studies, The Lost Properties and Moving To Opportunity, October 2010 – Present.

Investigator and Collaboration Lead, Planning for Sea Level Rise: A Pilot Study to Evaluate and Improve the Development and Delivery of Habitat Vulnerability Assessments and Adaptive Conservation Designs to Coastal Decision Makers, National Estuarine Research Reserve System Science Collaborative, 2011-2014.

Co-PI, Rural Coastal Region Adaptation Planning for Sea Level Rise, Florida Sea Grant, 2012-14.

Co-PI, Development of Sea Level Rise Adaptation Planning Procedures and Tools Using NOAA Sea Level Rise Impacts Viewer, Gulf of Mexico Regional Research Competition, 2012-14.

Co-PI, Impact of Parking Supply and Demand Management on Central Business District (CBD) Traffic Congestion, Transit Performance and Sustainable Land Use, Florida Department of Transportation, January 2010 – October 2011.

A Parameterized Climate Change Projection Model for Hurricane Flooding, Wave Action, Economic Damages, and Population Dynamics, sponsored by NOAA, September 2009-September 2011, Role, Co-Principal Investigator.

HOPE VI Community Services Study for the Redevelopment of Magnolia Gardens in Beaumont, Texas, sponsored by the U.S. Department of Housing and Urban Development and the Beaumont Public Housing Authority, January 2007-December 2011, Role, Co-Principal Investigator.

Preserve America Grant for an Intergenerational Oral History for Hearne, Texas, sponsored by the National Parks Service, January 2007-December 2007, Role, Investigator.

A Hedonic Model of the Effects of Adaptive Reuse on Community Change in Savannah, Georgia, sponsored by the Lincoln Institute of Land Policy, Role, Investigator.

Legal Analysis and Policy Formulation Regarding the Use of Regional Rural Landbanking to Enhance the Development of Affordable Housing Opportunities in Brazos Valley Texas, sponsored by the Brazos Valley Affordable Housing Corporation, January 2007-August 2007, Role, Co-Principal Investigator.

Market Study of the Barriers to the Provision of Affordable Housing in Brazos Valley Texas, sponsored by the Brazos Valley Affordable Housing Corporation, January 2006-August 2006, Role, Co-Principal Investigator.

Comparative Analysis of the Effects of the Location of Big Box Retail on Housing Prices in Urban and Suburban Areas, sponsored by Texas A&M College of Architecture, December 2005-December 2006, Role, Principal Investigator.

PROFESSIONAL SERVICE AND AFFILIATIONS:

Professional Services

Chair of the Academic Advisory Council for Sign Research and Education (August 2014-present)

Chair of the Planner Outreach Subcommittee for the International Sign Association (January 2014-present)

Appointed to the Alachua County Affordable Housing Advisory Board (April 2010-2011)

University Liaison to the Florida Chapter of the American Planning Association (September 2007-September 2010)

Fellow to the Center for Children and Families at the Levin College of Law (May 2007-2012)

Member of the Law School Honor Code Committee (2009-2010)

Member of the ICCHP Committee (2009-2010)

Member of DCP Faculty Council (2009-2012)

Member of UF Historic Buildings and Structures Committee (2009-2010)

UF Commencement Marshall (2008-2010)

Ad Hoc Member of the Amicus Committee for the American Planning Association
Fellow for the Center for Heritage Conservation at Texas A&M University (2005-2007).

Professional Affiliations

American Planning Association

Oklahoma Chapter of the APA

Association of Collegiate Schools of Planning

Member of the Illinois Bar

Served as a manuscript and grant proposal reviewer for the following:

Journal of the Community Development Society

Journal of Planning History

US-China Law Review

UF Journal of Law and Public Policy

Journal of Planning Education and Research

National Science Foundation

CONFERENCE PRESENTATIONS:

International Conferences-Refereed Presentations

Jourdan, D., K. Hurd, H. G. Hawkins, and K. Winson-Geideman. Evidence-based Sign Regulation: Regulating Signage on the Basis of Empirical Wisdom. Presented at the AESOP-ACSP Conference in Dublin, Ireland, July 2013.

Nolon, J., Call, C., Murtaza, A, and **Jourdan, D.** Property Rights, Political Drama, and Smart Growth: The Challenges of Sustainable Development in 2011. Presented at the National Conference of the American Bar Association in Toronto, August 2011.

Jourdan, D., Wal-Mart in the Garden District- Does the Arbitrary and Capricious Standard of Review Lessen the Right of Citizens to Participate. Presented at the

International Association of Planning Law and Property Rights, Aalborg, Denmark, February, 2008.

Jourdan, D. and VanZandt, S, Creating Regional Landbanks to Meet Rural Affordable Housing Needs. Presented at the Joint International Conference of the Association of Collegiate Schools of Planning (ACSP) and the Association of European Planning Schools (AESOP), Chicago, IL, July 2008.

Jourdan, D., Should Children Have the Right to Speak for Themselves: The legal rights of youth to participate in national level policymaking. Presented at the International Conference on the Rights of Children, Ghent, Belgium (2006).

Jourdan, D., Grounding Theory: Developing New Theory on Intergenerational Participation. Presented at the Joint International Conference of the Association of Collegiate Schools of Planning (ACSP) and the Association of European Planning Schools (AESOP), Mexico City, Mexico (2006).

Jourdan, D., Planning to Reduce Worry. Presented at the Making Cities Livable Conference, Venice, Italy (2005).

National Conferences

Jourdan, D. Community Aesthetics and Sign Regulations: How far can a city go to prescribe aesthetics?" Presented at the National Signage Research and Education Conference in Cincinnati, OK, October, 2013.

Jourdan, D. and J. Kellaris, Collaborating with City Officials on Urban Signage, Presented at the International Sign Expo, in Las Vegas, NV, April, 2012.

Jourdan, D. Evidence-Based Sign Regulation: Regulating Signage on the Basis of Empirical Wisdom. Presented at the National Signage Research and Education Conference in Cincinnati, OK, October, 2012.

Jourdan, D., Ray, A., and Thompson, L. Relocating from Subsidized Housing in Florida: Are Residents Moving to Opportunity? Urban Affairs Association, Pittsburgh, PA, April 2012.

Frank, K., **Jourdan, D.**, Easley, G., and F. Eddleton. Leveraging community historical identity for climate change adaptation planning. Society for American City and Regional Planning History Conference, Baltimore, MD, November 17-20, 2011.

Frank, K., **Jourdan, D.**, and Obonyo, E. Sea level rise adaptation planning for rural coastal areas in Florida. Initiative on Climate Adaptation Research and Understanding through the Social Sciences: Climate Vulnerability and Adaptation (ICARUS II). May 5-8, Ann Arbor, MI, 2011.

Steiner, R., **Jourdan, D.**, Blanco, A., Mackey, J., Hanley, G., Sucar, V., and Shmaltzuyev, M., Understanding the Connection between Parking Management and Transit Usage: A Case Study of Miami and Fort Lauderdale Central Business Districts. Presented at the Association of Collegiate Schools of Planning (ACSP) Conference, Minneapolis. Oct. 13 – 16, 2011.

Steiner, R., Blanco, A. and **Jourdan, D.**, Impact of Parking Supply And Demand Management on Central Business District (CBD) Traffic Congestion. Presented at the Association of Collegiate Schools of Planning (ACSP) Conference. Minneapolis. Oct. 5 – 10, 2010.

Jourdan, D. Coming Home: The Relocation Effects of Expedited HOPE VI Revitalization Processes. Presented at the Urban Affairs Association, New Orleans, LA, 2011.

Zhao, J. and **Jourdan, D.** Zoning Variance Administration in Practice: Influencing Factors and Trends. Presented at the ACSP Conference in Minneapolis, MN, November, 2010.

Jourdan, D., Valuing Grief: A Proposal to Compensate Relocated Public Housing Residents for Intangibles. Presented at the ACSP Conference, Washington, D.C., October, 2009.

Jourdan, D., Garvin, E. and Stroud, N. Potential Legal Challenges to Form Based Codes: the Miami 21 Test Case. Presented at the IMLA Conference, Miami, FL, October, 2009.

Jourdan, D., Creating Regional Landbanks to Meet Rural Affordable Housing Needs. Presented at the Joint ACSP/AESOP Conference, Chicago, IL, July 2008.

VanZandt, S. and **Jourdan, D.** Landbanking to Meet Affordable Housing Needs. Presented at the National Conference of the American Planning Association Conference, Las Vegas, NV, April, 2008.

Jourdan, D. and Wieters, M. Serious Play: Constructing Learning to Promote Meaningful Dialogue in the Planning Classroom. Presented at the Association of Collegiate Schools of Planning National Conference, Fort Worth, TX, 2006.

Geideman, K. and **Jourdan, D.** Preserving Who's Neighborhood: The Effects of Adaptive Reuse by the Savannah College of Art & Design on Property Value and Community Change in Savannah, Georgia. Presented at the Lincoln Land Institute, Cambridge, MA, 2006.

Jourdan, D., Sentencing Goldilocks. Presented at the Association of Collegiate Schools of Planning National Conference, Kansas City, MO, 2005.

Jourdan, D., Public Housing: Is it Worth Preserving?"Presented at the Association of Collegiate Schools of Planning National Conference, Kansas City, MO, 2005.

Jourdan, D., Grieving for a Lost Home?: A Case Study of How Participation in an Intergenerational Planning Process Lessened the Pre-Relocation Grief Effects of Experienced by the Youth and Adult Residents of the McDaniel Glenn Public Housing Community in Atlanta. Presented at the Association of Collegiate Schools of Planning National, Portland, OR, 2004.

Jourdan, D., Mending Fences: Resolving Neighbor Disputes With Squatter Settlements in Belize. Presented at Pace University, NYC, April 2004.

Jourdan, D., Increasing Youth Participation in the Planning Process. Presented at the Association of Collegiate Schools of Planning National Conference, Baltimore, MD, 2002.

National Conferences – Invited Discussant and/or Moderator

Jourdan, D. Institute for Quality Communities Placemaking Conference in Norman, OK (2013) on the topic of "Healthy, Walkable Communities."

Jourdan, D. Annual Conference of the ACSP in Washington D.C. (2009) on the topic of "Comparative Jurisprudence Relating to Takings and Due Process Law."

Jourdan, D. Joint ACSP/AESOP Conference, Chicago, IL, (2008) on the topic of "Comparative Legal Jurisprudence on Property Rights."

Jourdan, D. Annual Conference of the ACSP in Fort Worth, TX (2006) on the topic of "Researching Wal-Mart."

Jourdan, D. Annual Conference of the ACSP in Kansas City, MO (2005) on the topic of "Research Wal-Mart."

Jourdan, D. Annual Conference of the ACSP in Portland, OR (2004) on the topic of "What Planners Should Know About the Law."

Jourdan, D. Sustainable Campus Planning, Annual Conference of the ACSP in Baltimore, MD (2002).

State Conferences –Presentations by Invitation

Jourdan, D. The New Urbanism: Optimizing Imagination, Creativity, Innovation, and Human Flourishing, Presented at the State Creativity Forum in Oklahoma City, OK, November, 2013.

Jourdan, D. So You Want to Take on Your Sign Code, Presented at the State Conference of the Oklahoma Chapter of the American Planning Association in Tahlequah, OK, October, 2013.

Steiner, R., Blanco, A., and **Jourdan, D.** Parking as a Smart Growth Strategy, Presented at the Florida Chapter of the American Planning Association Conference September 2011.

Silver, C. and **Jourdan, D.** Legal Aspects of Sustainable Development, Presented at the Florida Chapter of the American Planning Association Conference, September, 2011.

Jourdan, D. The Land Use Revolution: The Tea Party's Influence on Planning Process. Presented at the Annual Conference of the Utah Land Institute, Salt Lake City, Utah, November 2011.

Jourdan, D., Measuring the Winds of Change: the Introduction of Qualitative Research Methods in Planning Processes. Presented at the Annual Conference of the Texas Chapter of the American Planning Association, Corpus Christi, TX (2006).

REFERENCES AVAILABLE UPON REQUEST



K. MEGHAN WIETERS, PH.D., AICP

University of Oklahoma, Regional & City Planning, 830 Van Vleet Oval - Gould Hall RM 162
 Norman, OK 73019, kmeghanwieters@ou.edu

EDUCATION

Texas A&M University
Ph.D in Urban Regional Science **2003 – August 2009**
 Dissertation: "Integrating Walking for Transportation and Physical Activity for Sedentary Office Workers In Texas"

University of Texas at Austin
Masters of Science in Community & Regional Planning **1993-1995**
 Thesis: "Building a Community: Transit Options in the Land Development Code and Land Development Process"

Trinity University
Bachelors of Arts **1989-1993**
 Majors: Philosophy, International Studies (concentration on Latin America), Minor: Spanish

TEACHING

Assistant Professor - University of Oklahoma		Fall 2009 – to present
RCPL 5813 Environmental Planning Methods	RCPL 5013 History and Theory of Urban Planning	
RCPL 5513 Subdivision Planning	RCPL 5823 Rural and Regional Planning	
RCPL 5493 Transportation and Land Use Planning	RCPL 5990 Public Health & Built Environment	

PREVIOUS RESEARCH POSITIONS & PRACTICE

Texas A&M University	August 2006
Graduate Assistant	May 2009
Texas Transportation Institute	August 2003 –
Graduate Research Assistant	August 2006
City of Austin - Transportation, Planning & Sustainability Department	August 1998 –
Principal Planner / Senior Planner	August 2003
Capital Metropolitan Transportation Authority	April 1994 –
Land Use/Transportation Planner	August 1998

PUBLICATIONS & REPORTS

Wieters, K M. Office Workers Stuck at their Desks: Built Environment Implications on Walk Trips. Under review – *Health & Place*, April 2014.

Wieters, K M. Advantages of Online Methods in Planning Research: Capturing Walking Habits in Different Built Environments. Under Review -- *Sage Open*, February 2014

Wieters, K M, Kim, J-H, Lee, C. "Assessment of Wearable Global Positioning System Units for Physical Activity Research", *Journal of Physical Activity & Health*, September 2012 (published)

Zietsman, J, Villa, J.C., Forrest, T. L., and Storey, J. M. (2005) "Mexican Truck Idling Emissions at the El Paso - Ciudad Juarez Border Location" Report 473700-00033. Prepared for Southwest Region University Transportation Center.



Zietsman, J., Bubbosh, P., Li, L., Bochner, B., Villa, J. (2005) "National Deployment Strategy for Truck Stop Electrification". Prepared for U.S. Environmental Protection Agency.

Zietsman, J., Bynum, J., Wieters, K., and Bochner, B. (2005) "Reducing School Bus Emissions in Texas". Prepared for Texas Department of Transportation. Proceedings of the 2005 Mid-Continent Transportation Research Symposium.

Wieters, K. and J. Borowiec. (2004) "An Examination of Methods for Increasing On-Airport Revenue". Prepared for Texas Department of Transportation: Aviation Division.

Hard, Ed. et al. (2003) "TxDOT Involvement in the Local Development Process", Report 4429-1.

CONFERENCE & INVITED PRESENTATIONS

Wieters, K, M Wiens, T.O. Bowman. Walkability: A Tool for Promoting Health, Better Planning and Building Community. Presentation at "Planning Oklahoma Together" OKAPA Conference, Tahlequah, OK, October 2013.

Gibson, H and K. Wieters, Talking Green in Red States. Kansas APA Conference, Manhattan, KS October 2013

Wieters, K. Teaching, Learning and Implementing Walkability in Oklahoma City. Oklahoma Service Learning Conference, "The Art of Teaching through Science of Service", Friday November 22, 2013

Wieters, K, D Hess, P Firth. Invited panelist for Pedestrian and Bicycle University Education, Transportation Research Board 82nd Annual Meeting, January 13-17, 2013.

Wieters, K, J Fees, and B McCann. Why should we care about those silly pedestrians and bicyclists? Barriers to Adoption of Complete Streets Ordinances in Cowboy Country. Presented paper at the Association of Collegiate Schools of Planning Conference, Cincinnati, OH, 2012

Wieters, K. Office workers – Sedentary by Practice: How can we integrate physical activity as part of daily routines at work. Oklahoma Public Health Association Conference, Health Equity Caucus, April 2012

Wieters, K M, L Fithian, T McCuen, and C Barrett. Teaching How to Manage Competing Interests: Planners, Architects and Construction Science Students Developing a Subdivision Together. Presented paper at the Association of Collegiate Schools of Planning Conference, Salt Lake City, UT; 2011.

Wieters K M. Methodology in assessing walking behavior for office workers using online survey methods. Presented paper at the Association of Collegiate Schools of Planning Conference. Minneapolis, MN; 2010.

Lee C, Wieters M, Giusti C, Lord D. The Environment and Obesity among Latino Adults: A case study exploring the roles of built environments in promoting physical activity and reducing obesity among colonia residents. Inter-University Program for Latino Research. University of Notre Dame; 2010.

Wieters KM, Kim J-H, Lee C. A walk to grab a cup of coffee: Assessment of available research instruments for measuring physical activity. Presented paper at the Association of Collegiate Schools of Planning Conference Chicago, IL; 2008.

Jourdan, D., Wieters, K. "Serious Play: Constructing Learning To Promote Meaningful Dialogue In The Planning Classroom". Co-Presented paper at the Association of Collegiate Schools of Planning Conference. Milwaukee, WI; 2006.

INVITED LECTURES

University of Oklahoma
Department of Geography & Sustainability, Spring Colloquium
"Walking & Biking: Active Transportation and the Built Environment" January 2014

Kansas State University – Big 12 Fellowship

- The messiness of random sampling spatially Oct. 21, 2013
- Watershed Functions & Impacts from Development Oct. 21, 2013
- Creating an audit tool and operationalizing data Oct. 23, 2013
- Bicycle Facility Design & Planning Oct. 23, 2013
- Observational Methods Oct. 23, 2013
- Pedestrian Planning and Design: How does the environment we live in impact our lives? Oct. 2013
- Office workers – Sedentary by Practice: How can we integrate physical activity as part of daily routines at work – Formal presentation to faculty and students Oct. 2013

Department of Biostatistics and Epidemiology College of Public Health,
University of Oklahoma Health Sciences Center

- Planning, Built Environment, and Public Health: How does the environment we live in impact our lives? March 11, 2013

GRANT FUNDING

Received Ed Cline Faculty Development Award (\$1450), Spring 2014
Received Big 12 Faculty Fellowship Program Award (\$2500) June 2013
Received College of Architecture IT recipient (\$3450) July 2013
Sooner Parents Mini-Grant Funding (\$500) for student mentoring –prepared and submitted to assist RCPL Student Planning Association July 2013
Received Junior Faculty Research (\$7,000) for summer research on rural planning and physical activity opportunities. University of Oklahoma, Summer 2012
Robert Wood Johnson Active Living Research Dissertation Grant (\$25,000), Texas A&M University, 2007

SERVICE

University-Level Service

- Advisory Committee Course Management Systems (ACCMS) Spring 2013

College-Level Service

- Graduate Liaison for Regional & City Planning Division (Fall 2013 – present)
- Graduate Research & Curriculum Committee (Fall 2013 – present)
- RCPL orientation (Fall 2010- present)
- Search committee for new RCPL hires, new LA hire (Summer 2011, Summer 2012, Spring 2013, Spring 2014)
- IT Committee (member since 2012), Chair (Fall 2013-Spring 2014)
- Model Shop Committee (member since 2012-Fall 2013)
- RCPL website (2011- present)
- GHGI committee (Gould Hall Green Initiative) (Fall 2011)
- Co-hosting and arranging guest seminar: Dr. Chanam Lee – "The Built Environment and Disparities in Physical Activity", December 2012.

SERVICE

State-level / City-Level Service

- President – Health Equity Caucus, subgroup of Oklahoma Public Health Association
- APA/AICP member
- Bicycle Advisory Committee, City of Norman – Committee member (Spring 2013 – 2016)

National-Level Service

- Secretary/Treasurer of Faculty Women’s Interest Group (FWIG), committee under Association of Collegiate Schools of Planning (ACSP).
- CDC Weight of the Nation Conference planning, Built Environment & Transportation Subcommittee
- Reviewer for Journal of Physical Activity and Health

Bryce C. Lowery, PhD

Contact

University of Oklahoma
 College of Architecture - Division of Regional and City Planning
 830 Van Vleet Oval
 Gould Hall 255
 Norman, OK 73019
 (405) 325-8953
 bryce.c.lowery@ou.edu

Academic Experience

Assistant Professor	2014 - present
<i>College of Architecture – Division of Regional and City Planning</i>	
<i>University of Oklahoma – Norman, OK</i>	

Education

Doctor of Philosophy – Policy, Planning, and Development	2014
<i>Sol Price School of Public Policy</i>	
<i>University of Southern California - Los Angeles, CA</i>	
<i>Dissertation: Social Construction of the Experience Economy: The spatial ecology of outdoor advertising in Los Angeles</i>	
Jack Dyckman Award - Best Dissertation in Planning & Development	
Committee:	David Sloane, PhD Tridib Banerjee, PhD Pierrette Hondagneu-Sotelo, PhD (Sociology)
Master of Landscape Architecture	2008
<i>College of Environmental Design</i>	
<i>California State Polytechnic University - Pomona, CA</i>	
Master of Science – Environmental Policy and Behavior	2000
<i>School of Natural Resources and Environment</i>	
<i>University of Michigan - Ann Arbor, MI</i>	
Bachelor of Arts – Economics and Environmental Studies	1996
<i>Dornsife College of Letters, Arts, and Sciences</i>	
<i>University of Southern California - Los Angeles, CA</i>	

Publications

The Prospects and Problems of Integrating Sketch Maps with Geographic Information Systems (GIS) to Understand Environmental Perception: A case study of mapping youth fear in Los Angeles gang neighborhoods	2014
<i>Environment and Planning B: Planning and Design</i> 41(2): 251-271. Curtis, J.W., E. Shiao, B. Lowery, D. Sloane, K. Hennigan and A. Curtis	
The Prevalence of Harmful Content on Outdoor Advertising in Los Angeles: Land use, community characteristics, and the spatial inequality of a public health nuisance	2014
<i>American Journal of Public Health</i> 104(4): 658–664. Lowery, B.C. and D.C. Sloane	

Presentations

**From Regional Center to Sign District:
 Regulating outdoor advertising in Los Angeles, 1881-2012**
Association of Collegiate Schools of Planning – Philadelphia, PA – November 1, 2014
 with David Sloane

- Do Farmers' Markets Improve the Availability of Healthy Foods for All Communities?**
A case study of 19 markets in Los Angeles.
Association of Collegiate Schools of Planning – Philadelphia, PA – October 30, 2014
 with Denise Payan, LaVonna Blair-Lewis and David Sloane
- If You See Something, Say Something:**
Community response (and non-response) to outdoor advertising regulation in Los Angeles
Council of Educators in Landscape Architecture – Austin, TX – March 29, 2013
- The Spatial Ecology of Outdoor Advertising in Los Angeles:**
The unjust impact of the commercial landscape
Association of Collegiate Schools of Planning – Cincinnati, OH – November 3, 2012
 with David Sloane
- Employing Social Network Analysis to Understand the Formation of Sustainable Social Capital**
Council of Educators in Landscape Architecture - Tucson, AZ – January 15, 2009

Teaching Experience

- Assistant Professor**
University of Oklahoma – College of Architecture 2014-present
 Subdivision and Site Planning (graduate)
 Computer Mapping and GIS in Planning (graduate)
 Comprehensive Planning Studio (graduate)
- Lecturer**
University of California, Irvine – School of Social Ecology 2014
 Design and Planning Graphics (graduate)
- Teaching Assistant**
University of Southern California - Sol Price School of Public Policy 2008-2013
 Citizenship and Public Ethics (undergraduate)
 History of Planning and Development (undergraduate)
 Planning History and Urban Form (graduate)
 Smart Growth and Urban Sprawl (graduate)
 Urban Context for Policy and Planning (undergraduate)
 Urban Planning and Development (undergraduate)
 Urban Planning and Social Policy (graduate - online)
- Graduate Student Instructor**
University of Michigan - School of Natural Resources and Environment 1999-2000
 Introduction to Environmental Policy (undergraduate)
 Introduction to Natural Resource Management (undergraduate)

Other Experience

- Research Assistant** 2009 - 2014
Sol Price School of Public Policy - University of Southern California
- Editorial Assistant** – Terry L. Cooper 2011 - 2012
The Responsible Administrator;
An Approach to Ethics for the Administrative Role, 6th Edition. 2012.
- Research Associate** 2005 - 2006
Lodestar Management/Research Inc. (now Harder+Company)
- Project Coordinator** 2004 - 2005
Perinatal Advisory Council of Los Angeles County
- Community Researcher** 2002 - 2004
Children's Planning Council - Los Angeles County Board of Supervisors
- Assistant Director** 2000 - 2002
Health DATA Program - UCLA Center for Health Policy Research

Curriculum Coordinator <i>UCLA Labor, Occupational, Safety and Health Program</i>	2000
Research Coordinator <i>The Wild Thornberry's Television Series</i> <i>Klasky-Csupo Incorporated/Nickelodeon Studios</i>	1996 - 1998
<hr/> <i>Activities and Service</i> <hr/>	
Committee Member <i>University of Oklahoma</i> Anna Siprikova – Master of City and Regional Planning Thesis	2014 - present
Reviewer <i>American Journal of Public Health</i> <i>Council of Educators in Landscape Architecture</i>	
Member <i>American Planning Association</i> <i>American Public Health Association</i> <i>American Society of Landscape Architects</i> <i>Association of American Geographers</i> <i>Environmental Design Research Association</i>	
Member <i>Creating/Making Facilities Coordination Team</i> <i>University of Oklahoma – College of Architecture</i>	2014 - present
Member <i>Billboard and Visual Landscape Visioning Group</i> <i>City of Los Angeles</i>	2013
Area Chairperson <i>Hollywood Hills West Neighborhood Council – Area 2: Cahuenga Pass</i> <i>City of Los Angeles</i>	2010 - 2012
Vice-Chairperson	2010 - 2012
Appointee <i>Cahuenga/Ventura Corridor Specific Plan Review Board</i> <i>City of Los Angeles - Council District 4</i>	2008 - 2012
President	2011 - 2012
Member <i>Cahuenga Pass Property Owners' Association</i>	2000 - 2012

Byron DeBruler

DeBruler, Inc.

8200 NE 139th Street

Edmond, OK 73103

United States of America

Phone: 405/396-2032 Cell Phone: 405/202-1610

BACKGROUND SUMMARY

Executive Manager with extensive experience in public sector resource design, management and evaluation. Knowledge and skills include: structuring and design of state and local service programs and initiatives, developing written proposals for project financing, identifying community economic development resources and training.

EXPERIENCE

DeBruler, Inc.

Vice President, Oklahoma City, August 2001 to Present

Provide services including:

- ✓ Researching public and private resources and preparing applications for financial assistance in response to client requests for economic and community development projects.
- ✓ Technical assistance to nonprofits and units of local government regarding federal and state resources and structuring project-beneficial partnerships; preparing strategic and business plans for public and private sector entities.
- ✓ Group facilitation services.
- ✓ Technical training for nonprofits and units of local government regarding federal and state financial assistance programs. Conducting organizational assessments and developing capacity building curriculums.

Oklahoma Housing Finance Agency

Team Leader, Housing Development Team, Oklahoma City, July 1998 to July 2001

Provided direct supervision and oversight of sixteen staff engaged in the administration of multiple federal and state affordable housing program resources.

While employed by the agency:

- ✓ Reorganized state's Single Family Mortgage Revenue Bond, Low-income Housing Tax Credit, HOME Investment Partnerships and Housing Trust Fund Programs into a single work unit.
- ✓ Streamlined Low-income Housing Tax Credit Program administrative rules to provide for market responsive design flexibility.
- ✓ Streamlined affordable housing resources by developing a singular application package and process for the agency's affordable housing development resources and established e-information network.
- ✓ Facilitated the development of working partnerships between the state's nonprofit and for-profit housing development organizations and agency's mortgage revenue bond lenders.
- ✓ Financed the development of affordable housing by leveraging public sector development funds with private investments.

- ✓ Facilitated legislative task force on rural affordable housing issues and devised legislative and programmatic actions to spur rural development.
- ✓ Developed, financed and implemented the state's first statewide affordable housing market analysis in partnership with a major university center.
- ✓ Drafted enabling legislation, capitalized and implemented state's Housing Trust Fund.

Oklahoma Department of Commerce

Program Manager/Department Head, Oklahoma City, March 1988 to July 1998

- ✓ In response to market-based demand, directed a team of professional agency staff with diverse skills, in the redesign of the state's HOME Investment Partnerships Program from primarily rehabilitation services to the production of rural affordable housing units.
- ✓ Led HOME Program administrative team in the relocation of the Program from its state agency environment to the Oklahoma Housing Finance Agency, a public trust.
- ✓ Leveraged HOME Program development resources with other public and private debt capital to finance the development of rural affordable housing statewide.
- ✓ Formulated and implemented a legislative agenda to enact and capitalizing the state's Housing Trust Fund.
- ✓ Provided daily oversight and administration for several state administered federal programs including: U.S. Department of Energy State Energy Program, Community Development Block Grant, Home Investment Partnerships, Rental Rehabilitation, Solar Energy and Energy Conservation Bank, and State Appropriated Funds for regional councils of government.

City of Oklahoma City January 1984 to February 1988

Division Head, Code Inspections Division/Department of Environmental Services

Assistant Superintendent, Utility Services Division/Water Department

Administrative Assistant, Street Maintenance Division, Public Works Department

Management Intern, Personnel Department

EDUCATION

Masters of Public Administration, University of Oklahoma 1983

Bachelor of Arts Political Science, University of Oklahoma, 1979

