

**Housing Needs Assessment**  
**Creek County**

**Prepared For:**

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

**Effective Date of the Analysis:**

June 24, 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 63<sup>rd</sup> Street, Ste. 200  
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SUBJECT:       Housing Needs Assessment  
                  Creek County  
                  IRR - Tulsa/OKC File No. 140-2015-0032

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 Creek County Residential Housing Market Analysis. Analyst Kevin Wang personally inspected the Creek County area during the month of June 2015 to collect the data used in the preparation of the Creek 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 the IRR-Tulsa/OKC.

Mr. Dennis Shockley  
Oklahoma Housing Finance Agency  
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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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# 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 Creek County is projected to grow by 0.31% per year over the next five years, underperforming the State of Oklahoma.
2. Creek County is projected to need a total of 370 housing units for ownership and 125 housing units for rent over the next five years.
3. Median Household Income in Creek County is estimated to be \$44,813 in 2015, compared with \$47,049 estimated for the State of Oklahoma. The poverty rate in Creek County is estimated to be 14.72%, compared with 16.85% for Oklahoma.
4. Homeowner and rental vacancy rates in Creek County and Sapulpa are lower than the state averages.
5. Home values and rental rates in Creek County are slightly lower than the state averages.
6. Median sale price for homes in Sapulpa was \$110,000 in 2015, with a median price per square foot of \$76.24. The median sale price to list price ratio was 98.3%, with median days on market of 31 days.

7. Approximately 30.79% of renters and 19.50% of owners are housing cost overburdened.

**Disaster Resiliency Specific Findings:**

1. Exemplary connections between comprehensive plan and HMP. HMP clearly maps vulnerable populations in order to be more aware of where attention may be needed.
2. Tornadoes (1959-2014): Number: 64 Injuries: 526 Fatalities: 30 Damages (1996-2014): \$70,290,000.00
3. Social Vulnerability: Below state score at the county level; some census tracts have elevated scores.
4. Floodplain: City of Sapulpa has floodplain management goals within comprehensive plan; Drumright, Sapulpa, Mannford, Slick and Bristow have notable development within the floodplain.

**Homelessness Specific Findings**

1. Creek County is located in the North Central Oklahoma Continuum of Care.
2. There are an estimated 201 homeless individuals in this area, 154 of which are identified as sheltered.
3. There is no record of homeless youth and young adults in this region.
4. The largest subpopulations of homeless in OK 500 include: the chronically homeless (29), chronic substance abusers (23), and domestic violence victims (24).
5. The population of domestic violence victims in this area is disproportionately high.
6. Permanent housing options are significantly limited. More funds should be diverted to meet the long term housing needs of the mentally ill, substance abusers, and victims of domestic violence.

**Fair Housing Specific Findings**

1. Units at risk for poverty: 163
2. Units in mostly non-white enclaves: 163
3. Units nearer elevated number of persons with disabilities: 670

**Lead-Based Paint Specific Findings**

1. We estimate there are 4,141 occupied housing units in Creek County with lead-based paint hazards.
2. 2,130 of those housing units are estimated to be occupied by low-to-moderate income households.
3. We estimate that 612 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 Creek 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 Creek 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 Creek 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 Creek County, Oklahoma. The analysis will consider existing supply and projected demand and overall market trends in the Creek County area.

## Effective Date of Consultation

The Creek County area was inspected and research was performed during June, 2015. The effective date of this analysis is June 24, 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 Creek County area was inspected during June, 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



# Creek County Analysis

## Area Information

The purpose of this section of the report is to provide a basis for analyzing and estimating trends relating to Creek 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

Creek County is located in northeast Oklahoma. The eastern edge of the county is adjacent to southwest Tulsa County. The Creek County Seat, Sapulpa, is approximately 13 miles southwest of the Tulsa central business district, 102 miles northeast of Oklahoma City, and 135 miles southwest of Joplin, Missouri.

Creek County has a total area of 970 square miles (950 square miles of land, and 20 square miles of water), ranking 24th out of Oklahoma's 77 counties in terms of total area. The total population of Creek County as of the 2010 Census was 69,967 persons, for a population density of 74 persons per square mile of land.

## Access and Linkages

The county is well located in relationship to state and national highway systems. Sapulpa is located on I-44 and is intersected by US75A, SH66, SH33, SH97 and SH117. Interstate 44, a major regional expressway, allows access throughout the county from east to west. State Highway 66 crosses the county from west to east, State Highway 33 through the northern part of the county, State Highway 97 on the eastern edge from north to south and State Highway 117 on the eastern edge from east to west. U.S. Highway 75A runs north to south on the eastern edge of the county. Access to the Tulsa metropolitan area, Sapulpa, and most rural parts of the county is easily accessible from the various state and federal highways. Finally, the Creek Turnpike (State Highway 364) connects Sapulpa and northeast Creek County to the eastern and northeastern portions of the Tulsa metro area.

Public transportation is provided on a demand-response basis by the Cimarron Public Transit System (a service of United Community Action Program, Inc.), with service in Creek, Kay, Osage, Pawnee and Washington counties. 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.

The only public general aviation airport in Creek County is Jones Memorial Airport in Bristow. It has a single asphalt runway with a length of 3,379 feet, and averages 38 aircraft operations per week. The nearest full-service commercial airport is Tulsa International Airport, located approximately 18 miles northeast of Sapulpa.

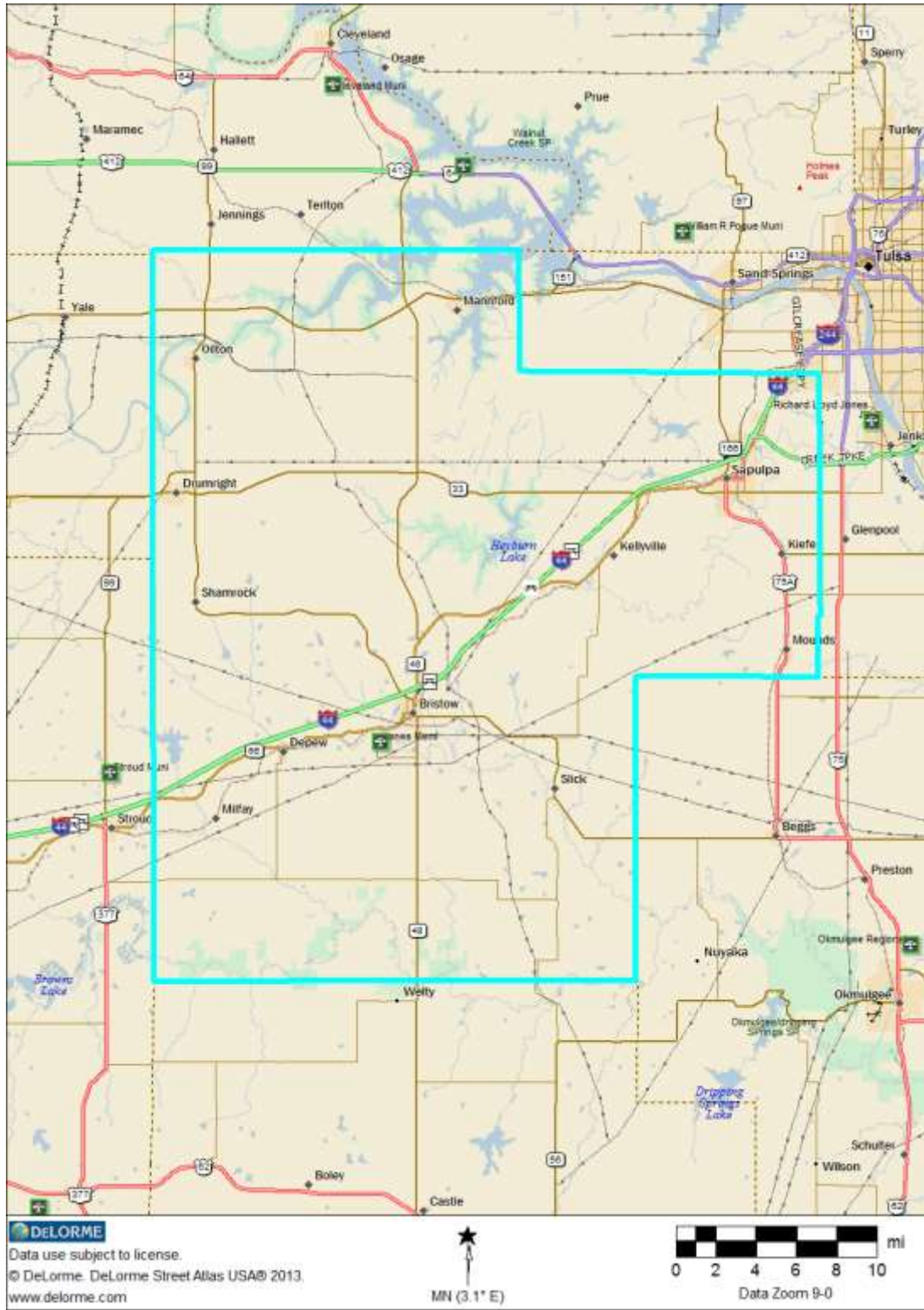
### **Educational Facilities**

All of the county communities have public school facilities. In addition, the Central Technology Center has a campus located in Sapulpa. Several other colleges and universities are accessible to students including the University of Tulsa, Oral Roberts University and Tulsa Community College. Each of these higher level institutions is located in Tulsa. Oklahoma State University is located in Stillwater, 62 miles from Sapulpa. Additionally, Oklahoma State University and the University of Oklahoma have significant branch campuses in Tulsa.

### **Medical Facilities**

County medical services are provided by the St. John Sapulpa, a 25-bed non-profit hospital with full-service primary care as well as gastroenterology, general surgery, ophthalmology and podiatry. Professional services are offered by local physicians and dentists. The smaller county communities typically have either small out patient medical services or doctors offices in the community.

### Creek County Area Map



### Sapulpa Area Map



## Demographic Analysis

### Population and Households

The following table presents population levels and annualized changes in Creek 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.

<b>Population Levels and Annual Changes</b>							
	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Sapulpa	19,166	20,544	0.70%	21,933	1.32%	22,198	0.24%
Creek County	67,367	69,967	0.38%	70,458	0.14%	71,556	0.31%
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 Creek County was 69,967 persons as of the 2010 Census, a 0.38% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Creek County to be 70,458 persons, and projects that the population will show 0.31% annualized growth over the next five years.

The population of Sapulpa was 20,544 persons as of the 2010 Census, a 0.70% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Sapulpa to be 21,933 persons, and projects that the population will show 0.24% annualized growth over the next five years. This forecast appears conservative in light of higher growth rates between 2000 and 2010, and 2010 and 2015.

The next table presents data regarding household levels in Creek 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.

<b>Households Levels and Annual Changes</b>							
<b>Total Households</b>	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Sapulpa	7,430	8,015	0.76%	8,561	1.33%	8,701	0.32%
Creek County	25,289	26,539	0.48%	26,867	0.25%	27,362	0.37%
State of Oklahoma	1,342,293	1,460,450	0.85%	1,520,327	0.81%	1,585,130	0.84%
<b>Family Households</b>	2000	2010	Annual	2015	Annual	2020	Annual
	Census	Census	Change	Estimate	Change	Forecast	Change
Sapulpa	5,358	5,497	0.26%	5,989	1.73%	6,088	0.33%
Creek	19,024	19,354	0.17%	19,605	0.26%	19,972	0.37%
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, Creek County had a total of 26,539 households, representing a 0.48% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Creek County to have 26,867 households. This number is expected to experience a 0.37% annualized rate of growth over the next five years.

As of 2010, Sapulpa had a total of 8,015 households, representing a 0.76% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Sapulpa to have 8,561 households. This number is expected to experience a 0.32% annualized rate of growth over the next five years.

### Population by Race and Ethnicity

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

<b>2013 Population by Race and Ethnicity</b>				
<b>Single-Classification Race</b>	<b>Sapulpa</b>		<b>Creek County</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
Total Population	20,662		70,246	
White Alone	16,089	77.87%	55,992	79.71%
Black or African American Alone	554	2.68%	1,646	2.34%
Amer. Indian or Alaska Native Alone	1,950	9.44%	5,694	8.11%
Asian Alone	140	0.68%	341	0.49%
Native Hawaiian and Other Pac. Isl. Alone	0	0.00%	1	0.00%
Some Other Race Alone	388	1.88%	662	0.94%
Two or More Races	1,541	7.46%	5,910	8.41%
<b>Population by Hispanic or Latino Origin</b>	<b>Sapulpa</b>		<b>Creek County</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
Total Population	20,662		70,246	
Hispanic or Latino	967	4.68%	2,370	3.37%
<i>Hispanic or Latino, White Alone</i>	508	52.53%	1,275	53.80%
<i>Hispanic or Latino, All Other Races</i>	459	47.47%	1,095	46.20%
Not Hispanic or Latino	19,695	95.32%	67,876	96.63%
<i>Not Hispanic or Latino, White Alone</i>	15,581	79.11%	54,717	80.61%
<i>Not Hispanic or Latino, All Other Races</i>	4,114	20.89%	13,159	19.39%

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

In Creek County, racial and ethnic minorities comprise 22.11% of the total population. Within Sapulpa, racial and ethnic minorities represent 24.59% of the population.

### Population by Age

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



<b>Creek County Population By Age</b>								
	2010	Percent	2015	Percent	2020	Percent	2000 - 2015	2015 - 2020
	Census	of Total	Estimate	of Total	Forecast	of Total	Ann. Chng.	Ann. Chng.
<b>Population by Age</b>	69,967		70,458		71,556			
Age 0 - 4	4,385	6.27%	4,365	6.20%	4,451	6.22%	-0.09%	0.39%
Age 5 - 9	4,821	6.89%	4,534	6.44%	4,348	6.08%	-1.22%	-0.83%
Age 10 - 14	5,109	7.30%	4,871	6.91%	4,532	6.33%	-0.95%	-1.43%
Age 15 - 17	3,113	4.45%	2,998	4.26%	3,044	4.25%	-0.75%	0.31%
Age 18 - 20	2,542	3.63%	2,693	3.82%	2,798	3.91%	1.16%	0.77%
Age 21 - 24	2,933	4.19%	3,505	4.97%	3,878	5.42%	3.63%	2.04%
Age 25 - 34	7,852	11.22%	7,988	11.34%	8,285	11.58%	0.34%	0.73%
Age 35 - 44	8,732	12.48%	8,198	11.64%	8,002	11.18%	-1.25%	-0.48%
Age 45 - 54	10,689	15.28%	9,555	13.56%	8,548	11.95%	-2.22%	-2.20%
Age 55 - 64	9,316	13.31%	9,639	13.68%	9,651	13.49%	0.68%	0.02%
Age 65 - 74	6,080	8.69%	7,248	10.29%	8,665	12.11%	3.58%	3.64%
Age 75 - 84	3,234	4.62%	3,484	4.94%	3,825	5.35%	1.50%	1.89%
Age 85 and over	1,161	1.66%	1,380	1.96%	1,529	2.14%	3.52%	2.07%
<i>Age 55 and over</i>	<i>19,791</i>	<i>28.29%</i>	<i>21,751</i>	<i>30.87%</i>	<i>23,670</i>	<i>33.08%</i>	<i>1.91%</i>	<i>1.71%</i>
<i>Age 62 and over</i>	<i>12,109</i>	<i>17.31%</i>	<i>13,624</i>	<i>19.34%</i>	<i>15,385</i>	<i>21.50%</i>	<i>2.39%</i>	<i>2.46%</i>
<b>Median Age</b>	39.8		40.2		40.6		0.20%	0.20%

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of Creek County is 40.2 years. This compares with the statewide figure of 36.6 years. Approximately 6.20% of the population is below the age of 5, while 19.34% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 2.46% per year. Based on this information, Creek County has a somewhat older population compared with the rest of Oklahoma.

### Sapulpa 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.
<b>Population by Age</b>	20,544		21,933		22,198			
Age 0 - 4	1,295	6.30%	1,339	6.10%	1,349	6.08%	0.67%	0.15%
Age 5 - 9	1,403	6.83%	1,413	6.44%	1,333	6.01%	0.14%	-1.16%
Age 10 - 14	1,443	7.02%	1,491	6.80%	1,409	6.35%	0.66%	-1.12%
Age 15 - 17	851	4.14%	894	4.08%	930	4.19%	0.99%	0.79%
Age 18 - 20	757	3.68%	799	3.64%	846	3.81%	1.09%	1.15%
Age 21 - 24	945	4.60%	1,038	4.73%	1,142	5.14%	1.90%	1.93%
Age 25 - 34	2,502	12.18%	2,705	12.33%	2,638	11.88%	1.57%	-0.50%
Age 35 - 44	2,544	12.38%	2,604	11.87%	2,632	11.86%	0.47%	0.21%
Age 45 - 54	2,985	14.53%	2,863	13.05%	2,623	11.82%	-0.83%	-1.74%
Age 55 - 64	2,652	12.91%	2,908	13.26%	2,901	13.07%	1.86%	-0.05%
Age 65 - 74	1,710	8.32%	2,188	9.98%	2,605	11.74%	5.05%	3.55%
Age 75 - 84	1,026	4.99%	1,138	5.19%	1,207	5.44%	2.09%	1.18%
Age 85 and over	431	2.10%	553	2.52%	583	2.63%	5.11%	1.06%
<i>Age 55 and over</i>	<i>5,819</i>	<i>28.32%</i>	<i>6,787</i>	<i>30.94%</i>	<i>7,296</i>	<i>32.87%</i>	<i>3.13%</i>	<i>1.46%</i>
<i>Age 62 and over</i>	<i>3,532</i>	<i>17.19%</i>	<i>4,198</i>	<i>19.14%</i>	<i>4,682</i>	<i>21.09%</i>	<i>3.52%</i>	<i>2.21%</i>
<b>Median Age</b>	39.2		39.9		40.5		0.35%	0.30%

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of Sapulpa is 39.9 years. This compares with the statewide figure of 36.6 years. Approximately 6.10% 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 2.21% per year. Like Creek County as a whole, Sapulpa has an older population and is expected to see strong growth in its senior population over the next five years.

### Families by Presence of Children

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

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**2013 Family Type by Presence of Children Under 18 Years**


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	Sapulpa		Creek County	
	No.	Percent	No.	Percent
Total Families:	5,243		18,902	
Married-Couple Family:	3,653	69.67%	14,652	77.52%
With Children Under 18 Years	1,330	25.37%	5,261	27.83%
No Children Under 18 Years	2,323	44.31%	9,391	49.68%
Other Family:	1,590	30.33%	4,250	22.48%
Male Householder, No Wife Present	405	7.72%	1,405	7.43%
With Children Under 18 Years	215	4.10%	794	4.20%
No Children Under 18 Years	190	3.62%	611	3.23%
Female Householder, No Husband Present	1,185	22.60%	2,845	15.05%
With Children Under 18 Years	708	13.50%	1,550	8.20%
No Children Under 18 Years	477	9.10%	1,295	6.85%
<hr/>				
Total Single Parent Families	923		2,344	
Male Householder	215	23.29%	794	33.87%
Female Householder	708	76.71%	1,550	66.13%

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

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As shown, within Creek County, among all families 12.40% are single-parent families, while in Sapulpa, the percentage is 17.60%.

### Population by Presence of Disabilities

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

### 2013 Age by Number of Disabilities

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Non-Institutionalized Population:	20,439		69,515		3,702,515	
Under 18 Years:	5,131		17,300		933,738	
With One Type of Disability	201	3.92%	608	3.51%	33,744	3.61%
With Two or More Disabilities	76	1.48%	117	0.68%	11,082	1.19%
No Disabilities	4,854	94.60%	16,575	95.81%	888,912	95.20%
18 to 64 Years:	12,011		41,644		2,265,702	
With One Type of Disability	1,155	9.62%	3,801	9.13%	169,697	7.49%
With Two or More Disabilities	1,181	9.83%	3,401	8.17%	149,960	6.62%
No Disabilities	9,675	80.55%	34,442	82.71%	1,946,045	85.89%
65 Years and Over:	3,297		10,571		503,075	
With One Type of Disability	585	17.74%	2,048	19.37%	95,633	19.01%
With Two or More Disabilities	589	17.86%	2,485	23.51%	117,044	23.27%
No Disabilities	2,123	64.39%	6,038	57.12%	290,398	57.72%
<b>Total Number of Persons with Disabilities:</b>	<b>3,787</b>	<b>18.53%</b>	<b>12,460</b>	<b>17.92%</b>	<b>577,160</b>	<b>15.59%</b>

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

Within Creek County, 17.92% of the civilian non-institutionalized population has one or more disabilities, compared with 15.59% of Oklahomans as a whole. In Sapulpa the percentage is 18.53%.

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

### 2013 Population by Veteran and Disability Status

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Population Age 18+ For Whom Poverty Status is Determined	15,308		52,215		2,738,788	
Veteran:	1,625	10.62%	5,721	10.96%	305,899	11.17%
With a Disability	597	36.74%	2,117	37.00%	100,518	32.86%
No Disability	1,028	63.26%	3,604	63.00%	205,381	67.14%
Non-veteran:	13,683	89.38%	46,494	89.04%	2,432,889	88.83%
With a Disability	2,913	21.29%	9,618	20.69%	430,610	17.70%
No Disability	10,770	78.71%	36,876	79.31%	2,002,279	82.30%

Source: 2009-2013 American Community Survey, Table C21007

Within Creek County, the Census Bureau estimates there are 5,721 veterans, 37.00% of which have one or more disabilities (compared with 32.86% at a statewide level). In Sapulpa, there are an estimated 1,625 veterans, 36.74% of which are estimated to have a disability.

### Group Quarters Population

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

#### 2010 Group Quarters Population

	Sapulpa		Creek County	
	No.	Percent	No.	Percent
Total Population	20,544		69,967	
Group Quarters Population	450	2.19%	1,062	1.52%
Institutionalized Population	179	0.87%	774	1.11%
Correctional facilities for adults	15	0.07%	340	0.49%
Juvenile facilities	5	0.02%	5	0.01%
Nursing facilities/Skilled-nursing facilities	159	0.77%	429	0.61%
Other institutional facilities	0	0.00%	0	0.00%
Noninstitutionalized population	271	1.32%	288	0.41%
College/University student housing	0	0.00%	0	0.00%
Military quarters	0	0.00%	0	0.00%
Other noninstitutional facilities	271	1.32%	288	0.41%

Source: 2010 Decennial Census, Table P42

The percentage of the Creek County population in group quarters is moderately lower than the statewide figure, which was 2.99% in 2010.

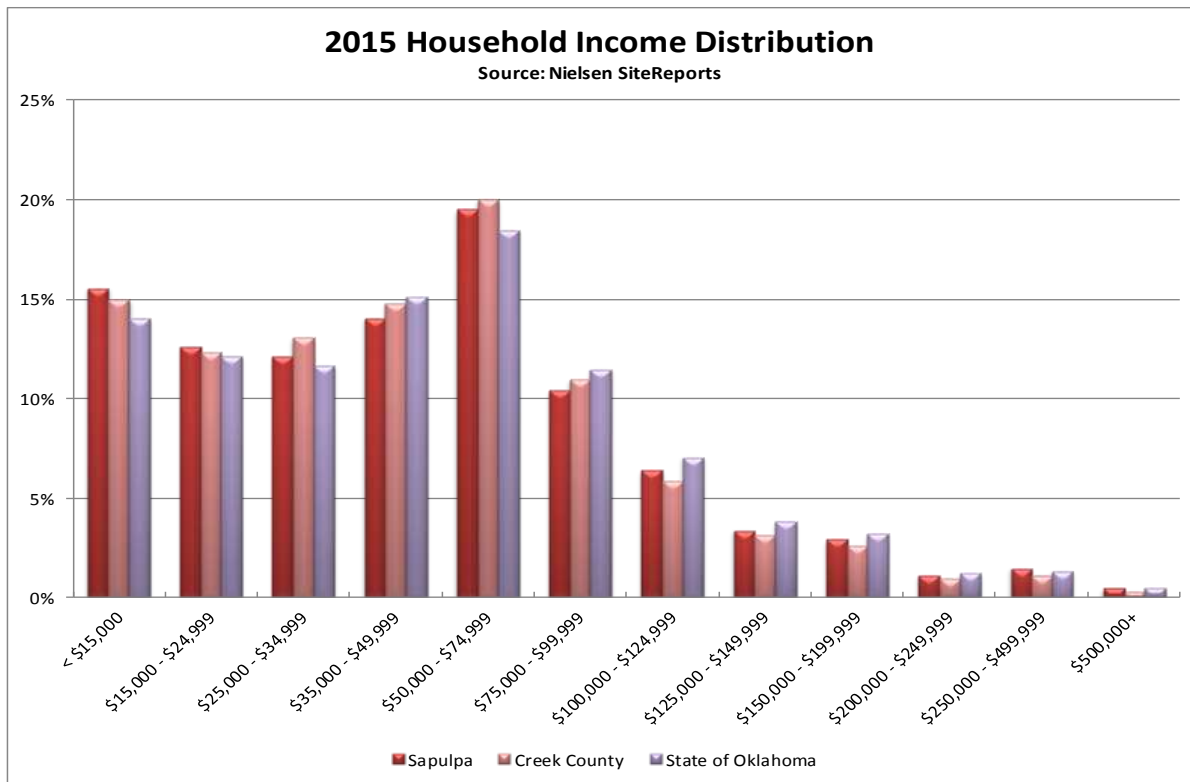
## Household Income Levels

Data in the following chart shows the distribution of household income in Creek 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.

<b>2015 Household Income Distribution</b>						
	<b>Sapulpa</b>		<b>Creek County</b>		<b>State of Oklahoma</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
<b>Households by HH Income</b>	8,561		26,867		1,520,327	
< \$15,000	1,331	15.55%	4,017	14.95%	213,623	14.05%
\$15,000 - \$24,999	1,079	12.60%	3,314	12.33%	184,613	12.14%
\$25,000 - \$34,999	1,037	12.11%	3,504	13.04%	177,481	11.67%
\$35,000 - \$49,999	1,202	14.04%	3,972	14.78%	229,628	15.10%
\$50,000 - \$74,999	1,671	19.52%	5,366	19.97%	280,845	18.47%
\$75,000 - \$99,999	891	10.41%	2,941	10.95%	173,963	11.44%
\$100,000 - \$124,999	546	6.38%	1,569	5.84%	106,912	7.03%
\$125,000 - \$149,999	289	3.38%	841	3.13%	57,804	3.80%
\$150,000 - \$199,999	250	2.92%	702	2.61%	48,856	3.21%
\$200,000 - \$249,999	97	1.13%	255	0.95%	18,661	1.23%
\$250,000 - \$499,999	127	1.48%	299	1.11%	20,487	1.35%
\$500,000+	41	0.48%	87	0.32%	7,454	0.49%
<b>Median Household Income</b>	\$45,401		\$44,813		\$47,049	
<b>Average Household Income</b>	\$61,309		\$58,691		\$63,390	

Source: Nielsen SiteReports

As shown, median household income for Creek County is estimated to be \$44,813 in 2015. By way of comparison, the median household income of Oklahoma is estimated to be \$47,049. For Sapulpa, median household income is estimated to be \$45,401. On the whole, the income distributions of Creek County and Sapulpa are very similar to statewide figures. The income distribution can be better visualized by the following chart.



### Household Income Trend

Next we examine the long-term growth of incomes in Creek 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.

Household Income Trend					
	1999 Median HH Income	2015 Median HH Income	Nominal Growth	Inflation Rate	Real Growth
Sapulpa	\$32,245	\$45,401	2.16%	2.40%	-0.24%
Creek County	\$33,168	\$44,813	1.90%	2.40%	-0.50%
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, both Creek County and the State of Oklahoma as a whole saw negative growth in “real” median household income, once inflation is taken into account. It should be noted that this trend is not unique to Oklahoma or Creek County, but rather a national trend. 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 Creek 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	2013	Change (Basis Points)	2013 Poverty Rates for Single-Parent Families	
	Census	ACS		Male Householder	Female Householder
Sapulpa	12.93%	17.49%	456	20.47%	41.81%
Creek County	13.46%	14.72%	126	17.76%	45.55%
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 Creek County is estimated to be 14.72% by the American Community Survey. This is an increase of 126 basis points since the 2000 Census. Within Sapulpa, the poverty rate is estimated to be 17.49%. 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.



## Economic Conditions

### Employment and Unemployment

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

<b>Employment and Unemployment</b>						
	May-2010 Employment	May-2015 Employment	Annual Growth	May-2010 Unemp. Rate	May-2015 Unemp. Rate	Change (bp)
Creek County	29,106	30,325	0.82%	8.6%	4.9%	-370
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

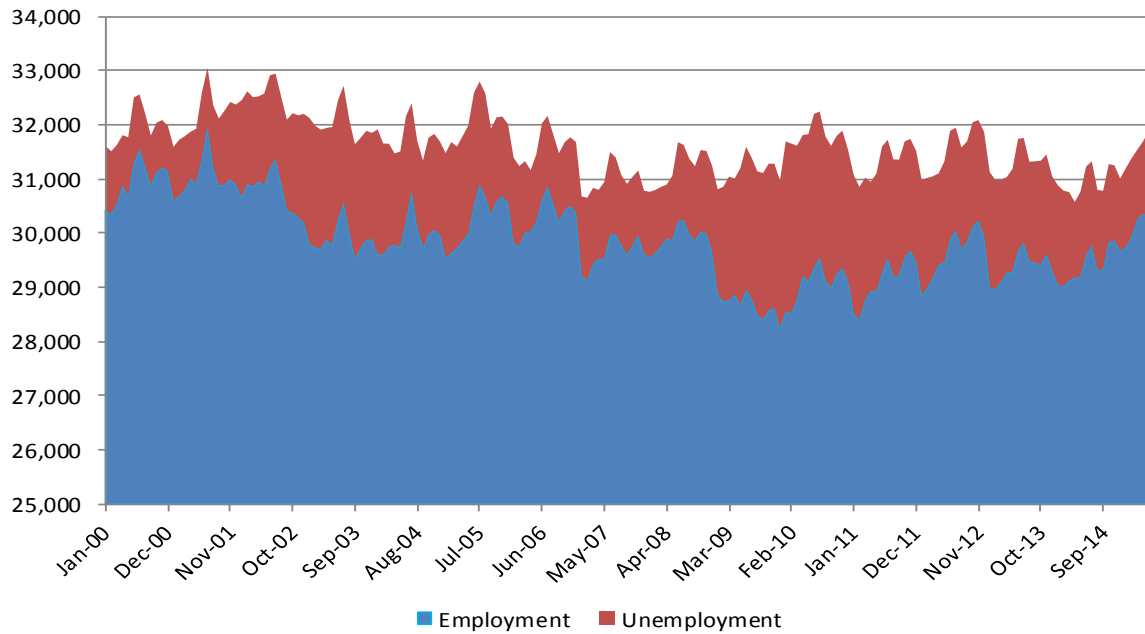
Sources: Bureau of Labor Statistics, Local Area Unemployment Statistics and Current Population Survey

As of May 2015, total employment in Creek County was 30,325 persons. Compared with figures from May 2010, this represents annualized employment growth of 0.82% per year. The unemployment rate in May was 4.9%, a decrease of -370 basis points from May 2010, which was 8.6%. Over the last five years, both the statewide and national trends have been improving employment levels and declining unemployment rates, and Creek County has been generally consistent with these trends.

### Employment Level Trends

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

**Employment and Unemployment in Creek County**  
**January 2000 through May 2015**



*Source: Bureau of Labor Statistics, Local Area Unemployment Statistics*

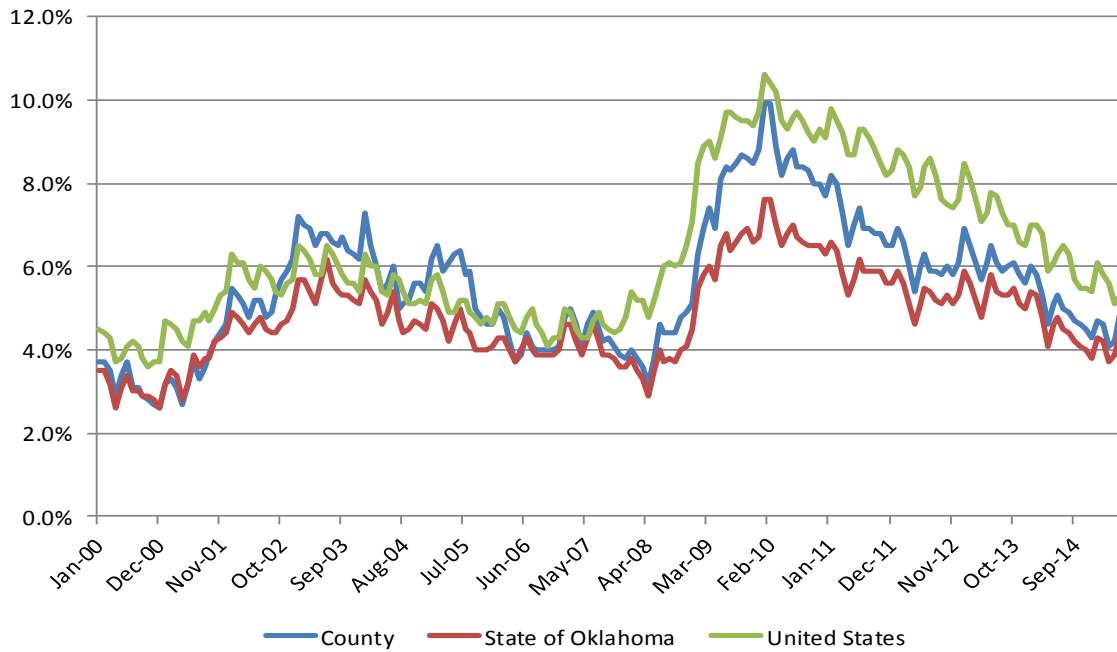
As shown, total employment levels have generally trended downward from 2000 through early 2010. This trend reversed in 2010, and has shown positive growth up to its current level of 30,325 persons. The number of unemployed persons in May 2015 was 1,549, out of a total labor force of 31,874 persons.

**Unemployment Rate Trends**

The next chart shows historic unemployment rates for Creek 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 Creek 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 Creek County increased moderately from 2000 through 2003, and then generally declined until the 4<sup>th</sup> 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 4.9%. On the whole, unemployment rates in Creek County track very well with statewide figures but are typically slightly above the state. Compared with the United States, unemployment rates in Creek County and Oklahoma are and have historically been well below the national average.

**Employment and Wages by Industrial Supersector**

The next table presents data regarding employment in Creek 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.

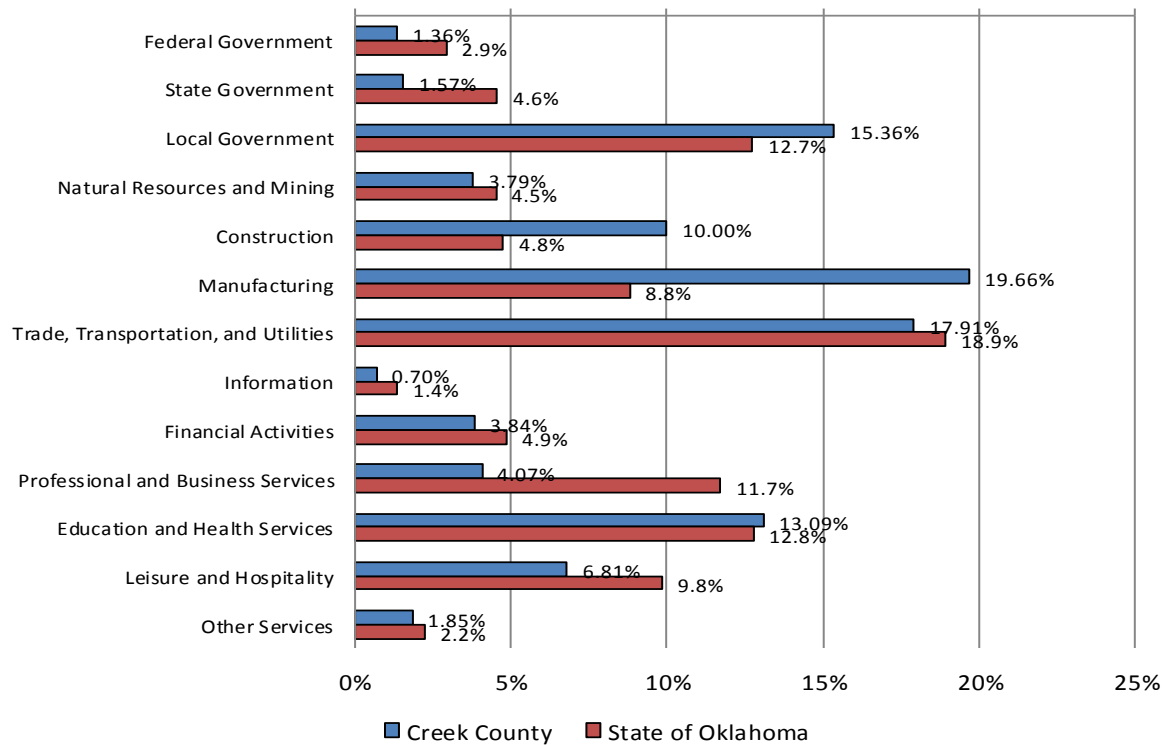


**Employees and Wages by Supersector - 2014**

Supersector	Establishments	Avg. No. of Employees	Percent of Total	Avg. Annual Pay	Location Quotient
Federal Government	15	254	1.36%	\$67,520	0.68
State Government	12	292	1.57%	\$36,731	0.47
Local Government	68	2,859	15.36%	\$32,745	1.52
Natural Resources and Mining	85	706	3.79%	\$52,308	2.50
Construction	210	1,861	10.00%	\$49,521	2.24
Manufacturing	132	3,660	19.66%	\$56,547	2.21
Trade, Transportation, and Utilities	306	3,334	17.91%	\$34,811	0.94
Information	15	130	0.70%	\$43,744	0.35
Financial Activities	117	714	3.84%	\$40,582	0.68
Professional and Business Services	171	757	4.07%	\$37,726	0.29
Education and Health Services	168	2,437	13.09%	\$30,087	0.87
Leisure and Hospitality	93	1,267	6.81%	\$13,447	0.64
Other Services	80	345	1.85%	\$31,763	0.60
<b>Total</b>	<b>1,471</b>	<b>18,614</b>		<b>\$39,651</b>	<b>1.00</b>

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 (19.66%) are employed in Manufacturing. The average annual pay in this sector is \$56,547 per year. The industry with the highest annual pay is Manufacturing, with average annual pay of \$56,547 per year.

The rightmost column of the previous table provides location quotients for each industry for Creek 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 (Creek 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 Creek County, among all industries the largest location quotient is in Natural Resources and Mining, with a quotient of 2.50. Two other major employment bases are in Construction and Manufacturing.

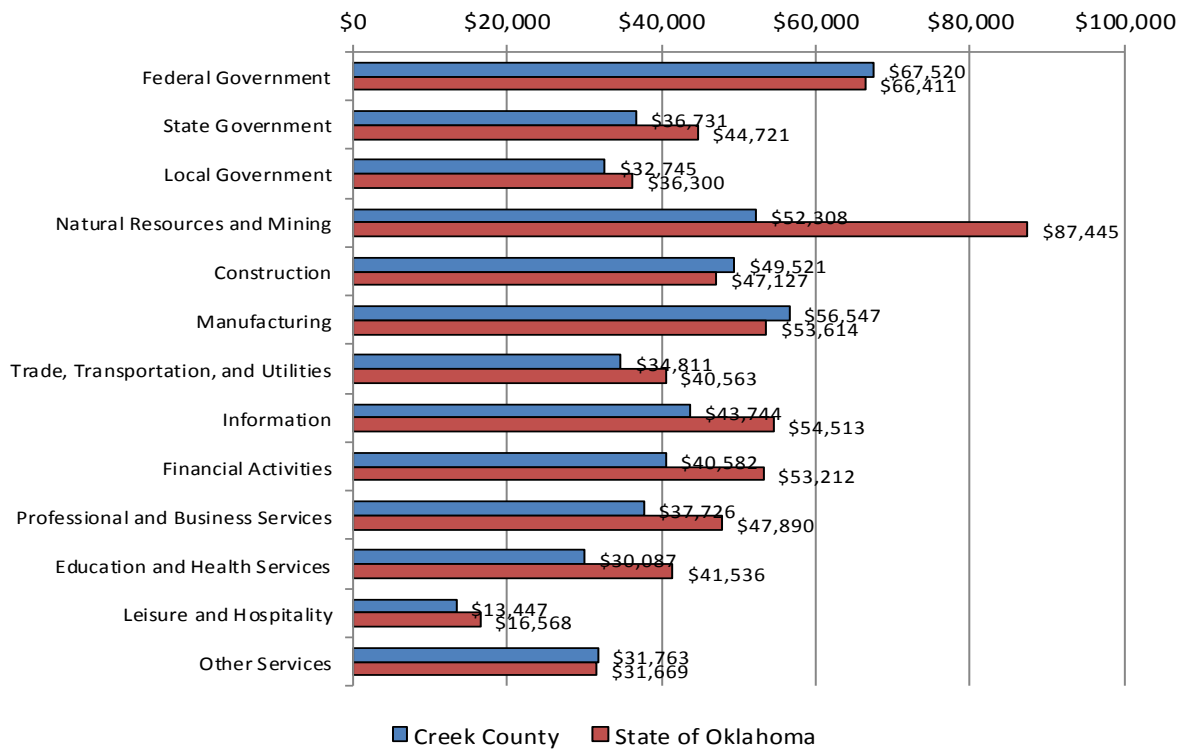
The next table presents average annual pay in Creek County by industry, in comparison with Oklahoma as a whole and the United States.

### Comparison of 2014 Average Annual Pay by Supersector

Supersector	Creek County	State of Oklahoma	United States	Percent of State	Percent of Nation
Federal Government	\$67,520	\$66,411	\$75,784	101.7%	89.1%
State Government	\$36,731	\$44,721	\$54,184	82.1%	67.8%
Local Government	\$32,745	\$36,300	\$46,146	90.2%	71.0%
Natural Resources and Mining	\$52,308	\$87,445	\$59,666	59.8%	87.7%
Construction	\$49,521	\$47,127	\$55,041	105.1%	90.0%
Manufacturing	\$56,547	\$53,614	\$62,977	105.5%	89.8%
Trade, Transportation, and Utilities	\$34,811	\$40,563	\$42,988	85.8%	81.0%
Information	\$43,744	\$54,513	\$90,804	80.2%	48.2%
Financial Activities	\$40,582	\$53,212	\$85,261	76.3%	47.6%
Professional and Business Services	\$37,726	\$47,890	\$66,657	78.8%	56.6%
Education and Health Services	\$30,087	\$41,536	\$45,951	72.4%	65.5%
Leisure and Hospitality	\$13,447	\$16,568	\$20,993	81.2%	64.1%
Other Services	\$31,763	\$31,669	\$33,935	100.3%	93.6%
<b>Total</b>	<b>\$39,651</b>	<b>\$43,774</b>	<b>\$51,361</b>	<b>90.6%</b>	<b>77.2%</b>

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, Creek County has higher average wages in construction, manufacturing and federal government, and lower average wages in the rest of the employment sectors, notably so in natural resources and mining.

**Working Families**

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



<b>Families by Employment Status and Presence of Children</b>						
	<b>Sapulpa</b>		<b>Creek County</b>		<b>State of Oklahoma</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
<b>Total Families</b>	<b>5,243</b>		<b>18,902</b>		<b>961,468</b>	
With Children <18 Years:	2,253	42.97%	7,605	40.23%	425,517	44.26%
Married Couple:	1,330	59.03%	5,261	69.18%	281,418	66.14%
Both Parents Employed	724	54.44%	2,983	56.70%	166,700	59.24%
One Parent Employed	526	39.55%	2,069	39.33%	104,817	37.25%
Neither Parent Employed	80	6.02%	209	3.97%	9,901	3.52%
Other Family:	923	40.97%	2,344	30.82%	144,099	33.86%
Male Householder:	215	23.29%	794	33.87%	36,996	25.67%
Employed	164	76.28%	619	77.96%	31,044	83.91%
Not Employed	51	23.72%	175	22.04%	5,952	16.09%
Female Householder:	708	76.71%	1,550	66.13%	107,103	74.33%
Employed	504	71.19%	1,025	66.13%	75,631	70.62%
Not Employed	204	28.81%	525	33.87%	31,472	29.38%
Without Children <18 Years:	2,990	57.03%	11,297	59.77%	535,951	55.74%
Married Couple:	2,323	77.69%	9,391	83.13%	431,868	80.58%
Both Spouses Employed	837	36.03%	3,373	35.92%	167,589	38.81%
One Spouse Employed	686	29.53%	3,112	33.14%	138,214	32.00%
Neither Spouse Employed	800	34.44%	2,906	30.94%	126,065	29.19%
Other Family:	667	22.31%	1,906	16.87%	104,083	19.42%
Male Householder:	190	23.75%	611	21.03%	32,243	25.58%
Employed	74	38.95%	280	45.83%	19,437	60.28%
Not Employed	116	61.05%	331	54.17%	12,806	39.72%
Female Householder:	477	71.51%	1,295	67.94%	71,840	69.02%
Employed	296	62.05%	652	50.35%	36,601	50.95%
Not Employed	181	37.95%	643	49.65%	35,239	49.05%
<i>Total Working Families:</i>	<i>3,811</i>	<i>72.69%</i>	<i>14,113</i>	<i>74.66%</i>	<i>740,033</i>	<i>76.97%</i>
<i>With Children &lt;18 Years:</i>	<i>1,918</i>	<i>50.33%</i>	<i>6,696</i>	<i>47.45%</i>	<i>378,192</i>	<i>51.10%</i>
<i>Without Children &lt;18 Years:</i>	<i>1,893</i>	<i>49.67%</i>	<i>7,417</i>	<i>52.55%</i>	<i>361,841</i>	<i>48.90%</i>

Source: 2009-2013 American Community Survey, Table B23007

Within Creek County, there are 14,113 working families, 47.45% 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 Creek County area are presented in the following table, as reported by the Sapulpa Chamber of Commerce.

### Major Employers in Creek County

Company	Industry / Description	No. Employees
T.D. Williamson, Inc.	Engineering equipment	400
Saint Gobain Glass	Beverage Containers	330
Greenbay Packaging Division	Corrugated boxes	200
Madison, Inc.	Steel buildings	200
Thermal Engineering International	Metal fabrication	175
Bennett Steel, Inc.	Commercial steel fabrication	150
Brown Minneapolis Tank	Welded steel storage tanks	150
Paragon Industries, Inc.	Pipe casting, tubular goods	150
IMCO	Magnesium/aluminum products	125
Sagebrush Pipeline Supply	Oil/gas metering equipment	115
J&G Steel	Steel fabrication	112
Atlantis Plastics	Plastic Stretch Film	100
Electrical Power Systems	Voltage switching gear	100
Tulsa Steel	Structural steel fabrication	100
Fabsco/Shell & Tube	Heat exchangers	50
Prescor, Inc.	ASME tank heads	48
Frankoma Pottery	Pottery	38

Source: Sapulpa Chamber of Commerce

As can be seen, the area has a wide variety of manufacturing/industrial employers in a number of different fields, which should provide some insulation from cyclical economic fluctuations.

## Commuting Patterns

### Travel Time to Work

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

### Workers 16 Years and Over by Commuting Time to Work

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Commuting Workers:</b>	<b>8,008</b>		<b>27,975</b>		<b>1,613,364</b>	
Less than 15 minutes	2,615	32.65%	8,045	28.76%	581,194	36.02%
15 to 30 minutes	3,301	41.22%	9,553	34.15%	625,885	38.79%
30 to 45 minutes	1,684	21.03%	6,608	23.62%	260,192	16.13%
45 to 60 minutes	159	1.99%	2,338	8.36%	74,625	4.63%
60 or more minutes	249	3.11%	1,431	5.12%	71,468	4.43%

Source: 2009-2013 American Community Survey, Table B08303



Within Creek County, the largest percentage of workers (34.15%) travel 15 to 30 minutes to work. This data suggests that although Creek County and Sapulpa have an active labor market, there is also a number of persons living in Creek County / Sapulpa who commute to other labor markets such as Tulsa.

### Means of Transportation

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

<b>Workers 16 Years and Over by Means of Transportation to Work</b>						
	<b>Sapulpa</b>		<b>Creek County</b>		<b>State of Oklahoma</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
<b>Total Workers Age 16+</b>	<b>8,268</b>		<b>29,140</b>		<b>1,673,026</b>	
Car, Truck or Van:	7,921	95.80%	27,321	93.76%	1,551,461	92.73%
<i>Drove Alone</i>	7,289	92.02%	24,408	89.34%	1,373,407	88.52%
<i>Carpooled</i>	632	7.98%	2,913	10.66%	178,054	11.48%
Public Transportation	11	0.13%	35	0.12%	8,092	0.48%
Taxicab	0	0.00%	0	0.00%	984	0.06%
Motorcycle	0	0.00%	80	0.27%	3,757	0.22%
Bicycle	0	0.00%	24	0.08%	4,227	0.25%
Walked	35	0.42%	335	1.15%	30,401	1.82%
Other Means	41	0.50%	180	0.62%	14,442	0.86%
Worked at Home	260	3.14%	1,165	4.00%	59,662	3.57%

Source: 2009-2013 American Community Survey, Table B08301

As shown, the vast majority of persons in Creek 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 Creek County. This data is provided as of the 2000 Census, the 2010 Census, with a 2015 estimate furnished by Nielsen SiteReports.

<b>Total Housing Units</b>					
	2000	2010	Annual	2015	Annual
	Census	Census	Change	Estimate	Change
Sapulpa	8,114	8,903	0.93%	9,526	1.36%
Creek County	27,986	29,761	0.62%	30,350	0.39%
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 Creek County grew by 0.39% per year, to a total of 30,350 housing units in 2015. In terms of new housing unit construction, Creek County underperformed Oklahoma as a whole between 2010 and 2015, though new construction in Sapulpa appears to have been significant over this period.

### Housing by Units in Structure

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

<b>2013 Housing Units by Units in Structure</b>						
	<b>Sapulpa</b>		<b>Creek County</b>		<b>State of Oklahoma</b>	
	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>	<b>No.</b>	<b>Percent</b>
<b>Total Housing Units</b>	<b>8,942</b>		<b>29,746</b>		<b>1,669,828</b>	
1 Unit, Detached	7,367	82.39%	21,870	73.52%	1,219,987	73.06%
1 Unit, Attached	187	2.09%	396	1.33%	34,434	2.06%
Duplex Units	129	1.44%	301	1.01%	34,207	2.05%
3-4 Units	167	1.87%	397	1.33%	42,069	2.52%
5-9 Units	86	0.96%	334	1.12%	59,977	3.59%
10-19 Units	149	1.67%	260	0.87%	57,594	3.45%
20-49 Units	262	2.93%	334	1.12%	29,602	1.77%
50 or More Units	176	1.97%	230	0.77%	30,240	1.81%
Mobile Homes	412	4.61%	5,531	18.59%	159,559	9.56%
Boat, RV, Van, etc.	7	0.08%	93	0.31%	2,159	0.13%
<b>Total Multifamily Units</b>	<b>969</b>	<b>10.84%</b>	<b>1,856</b>	<b>6.24%</b>	<b>253,689</b>	<b>15.19%</b>

Source: 2009-2013 American Community Survey, Table B25024

Within Creek County, 73.52% of housing units are single-family, detached. 6.24% of housing units are multifamily in structure (two or more units per building), while 18.91% of housing units comprise mobile homes, RVs, etc.

Within Sapulpa, 82.39% of housing units are single-family, detached. 10.84% of housing units are multifamily in structure, while 4.69% of housing units comprise mobile homes, RVs, etc.

### **Housing Units Number of Bedrooms and Tenure**

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

### 2013 Housing Units by Tenure and Number of Bedrooms

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Total Occupied Housing Units</b>	<b>7,852</b>		<b>26,296</b>		<b>1,444,081</b>	
<b>Owner Occupied:</b>	<b>5,108</b>	<b>65.05%</b>	<b>19,670</b>	<b>74.80%</b>	<b>968,736</b>	<b>67.08%</b>
No Bedroom	0	0.00%	100	0.51%	2,580	0.27%
1 Bedroom	79	1.55%	351	1.78%	16,837	1.74%
2 Bedrooms	1,053	20.61%	3,580	18.20%	166,446	17.18%
3 Bedrooms	3,234	63.31%	12,224	62.15%	579,135	59.78%
4 Bedrooms	639	12.51%	2,842	14.45%	177,151	18.29%
5 or More Bedrooms	103	2.02%	573	2.91%	26,587	2.74%
<b>Renter Occupied:</b>	<b>2,744</b>	<b>34.95%</b>	<b>6,626</b>	<b>25.20%</b>	<b>475,345</b>	<b>32.92%</b>
No Bedroom	69	2.51%	190	2.87%	13,948	2.93%
1 Bedroom	459	16.73%	891	13.45%	101,850	21.43%
2 Bedrooms	1,025	37.35%	2,403	36.27%	179,121	37.68%
3 Bedrooms	974	35.50%	2,628	39.66%	152,358	32.05%
4 Bedrooms	193	7.03%	458	6.91%	24,968	5.25%
5 or More Bedrooms	24	0.87%	56	0.85%	3,100	0.65%

Source: 2009-2013 American Community Survey, Table B25042

The overall homeownership rate in Creek County is 74.80%, while 25.20% of housing units are renter occupied. In Sapulpa, the homeownership rate is 65.05%, while 34.95% of households are renters.

### Housing Units Tenure and Household Income

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

#### Creek County Owner/Renter Percentages by Income Band in 2013

Household Income	Total Households	Total Owners	Total Renters	% Owners	% Renters
<b>Total</b>	<b>26,296</b>	<b>19,670</b>	<b>6,626</b>	<b>74.80%</b>	<b>25.20%</b>
Less than \$5,000	742	365	377	49.19%	50.81%
\$5,000 - \$9,999	1,127	473	654	41.97%	58.03%
\$10,000-\$14,999	1,790	992	798	55.42%	44.58%
\$15,000-\$19,999	1,688	1,081	607	64.04%	35.96%
\$20,000-\$24,999	1,651	1,107	544	67.05%	32.95%
\$25,000-\$34,999	3,595	2,492	1,103	69.32%	30.68%
\$35,000-\$49,999	4,149	3,221	928	77.63%	22.37%
\$50,000-\$74,999	4,977	3,963	1,014	79.63%	20.37%
\$75,000-\$99,999	3,106	2,791	315	89.86%	10.14%
\$100,000-\$149,999	2,178	1,952	226	89.62%	10.38%
\$150,000 or more	1,293	1,233	60	95.36%	4.64%
<b>Income Less Than \$25,000</b>	<b>6,998</b>	<b>4,018</b>	<b>2,980</b>	<b>57.42%</b>	<b>42.58%</b>

Source: 2009-2013 American Community Survey, Table B25118

Within Creek County as a whole, 42.58% of households with incomes less than \$25,000 are estimated to be renters, while 57.42% are estimated to be homeowners.

### Sapulpa Owner/Renter Percentages by Income Band in 2013

Household Income	Total Households	Total Owners	Total Renters	% Owners	% Renters
<b>Total</b>	<b>7,852</b>	<b>5,108</b>	<b>2,744</b>	<b>65.05%</b>	<b>34.95%</b>
Less than \$5,000	182	59	123	32.42%	67.58%
\$5,000 - \$9,999	468	201	267	42.95%	57.05%
\$10,000-\$14,999	638	331	307	51.88%	48.12%
\$15,000-\$19,999	554	287	267	51.81%	48.19%
\$20,000-\$24,999	472	237	235	50.21%	49.79%
\$25,000-\$34,999	1,157	669	488	57.82%	42.18%
\$35,000-\$49,999	1,127	689	438	61.14%	38.86%
\$50,000-\$74,999	1,432	1,068	364	74.58%	25.42%
\$75,000-\$99,999	832	745	87	89.54%	10.46%
\$100,000-\$149,999	638	496	142	77.74%	22.26%
\$150,000 or more	352	326	26	92.61%	7.39%
<b>Income Less Than \$25,000</b>	<b>2,314</b>	<b>1,115</b>	<b>1,199</b>	<b>48.18%</b>	<b>51.82%</b>

Source: 2009-2013 American Community Survey, Table B25118

Within Sapulpa, 51.82% of households with incomes less than \$25,000 are estimated to be renters, while 48.18% 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

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Total Occupied Housing Units</b>	<b>7,852</b>		<b>26,296</b>		<b>1,444,081</b>	
<b>Owner Occupied:</b>	<b>5,108</b>	<b>65.05%</b>	<b>19,670</b>	<b>74.80%</b>	<b>968,736</b>	<b>67.08%</b>
Built 2010 or Later	40	0.78%	350	1.78%	10,443	1.08%
Built 2000 to 2009	574	11.24%	3,392	17.24%	153,492	15.84%
Built 1990 to 1999	496	9.71%	3,026	15.38%	125,431	12.95%
Built 1980 to 1989	618	12.10%	3,148	16.00%	148,643	15.34%
Built 1970 to 1979	1,017	19.91%	4,158	21.14%	184,378	19.03%
Built 1960 to 1969	784	15.35%	1,986	10.10%	114,425	11.81%
Built 1950 to 1959	615	12.04%	1,354	6.88%	106,544	11.00%
Built 1940 to 1949	319	6.25%	687	3.49%	50,143	5.18%
Built 1939 or Earlier	645	12.63%	1,569	7.98%	75,237	7.77%
Median Year Built:		1972		1980		1977
<b>Renter Occupied:</b>	<b>2,744</b>	<b>34.95%</b>	<b>6,626</b>	<b>25.20%</b>	<b>475,345</b>	<b>32.92%</b>
Built 2010 or Later	0	0.00%	15	0.23%	5,019	1.06%
Built 2000 to 2009	332	12.10%	700	10.56%	50,883	10.70%
Built 1990 to 1999	213	7.76%	715	10.79%	47,860	10.07%
Built 1980 to 1989	203	7.40%	827	12.48%	77,521	16.31%
Built 1970 to 1979	555	20.23%	1,536	23.18%	104,609	22.01%
Built 1960 to 1969	428	15.60%	974	14.70%	64,546	13.58%
Built 1950 to 1959	360	13.12%	671	10.13%	54,601	11.49%
Built 1940 to 1949	232	8.45%	380	5.73%	31,217	6.57%
Built 1939 or Earlier	421	15.34%	808	12.19%	39,089	8.22%
Median Year Built:		1968		1973		1975
<b>Overall Median Year Built:</b>		<b>1972</b>		<b>1978</b>		<b>1976</b>

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

Within Creek County, 16.95% of housing units were built after the year 2000. This compares with 15.22% statewide. Within Sapulpa the percentage is 12.05%.

68.82% of housing units in Creek County were built prior to 1990, while in Sapulpa the percentage is 78.92%. These figures compare with the statewide figure of 72.78%.

### Substandard Housing

The next table presents data regarding substandard housing in Creek 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
Sapulpa	7,852	44	0.56%	33	0.42%	40	0.51%
Creek County	26,296	112	0.43%	187	0.71%	949	3.61%
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 Creek County, 0.43% of occupied housing units have inadequate plumbing (compared with 0.49% at a statewide level), while 0.71% 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 Creek County by vacancy and type. This data is provided by the American Community Survey.

### 2013 Housing Units by Vacancy

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Total Housing Units</b>	8,942		29,746		1,669,828	
Total Vacant Units	1,090	12.19%	3,450	11.60%	225,747	13.52%
For rent	199	18.26%	370	10.72%	43,477	19.26%
Rented, not occupied	20	1.83%	49	1.42%	9,127	4.04%
For sale only	110	10.09%	310	8.99%	23,149	10.25%
Sold, not occupied	58	5.32%	143	4.14%	8,618	3.82%
For seasonal, recreational, or occasional use	69	6.33%	350	10.14%	39,475	17.49%
For migrant workers	0	0.00%	0	0.00%	746	0.33%
Other vacant	634	58.17%	2,228	64.58%	101,155	44.81%
<b>Homeowner Vacancy Rate</b>	2.08%		1.54%		2.31%	
<b>Rental Vacancy Rate</b>	6.72%		5.25%		8.24%	

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

Within Creek County, the overall housing vacancy rate is estimated to be 11.60%. The homeowner vacancy rate is estimated to be 1.54%, while the rental vacancy rate is estimated to be 5.25%.

In Sapulpa, the overall housing vacancy rate is estimated to be 12.19%. The homeowner vacancy rate is estimated to be 2.08%, while the rental vacancy rate is estimated to be 6.72%. Compared with Oklahoma as a whole, vacancy rates among renters and houses for ownership are lower, suggesting a comparably tighter housing market.

### Building Permits

The next series of tables present data regarding new residential building permits issued in Sapulpa. 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.



## Sapulpa

### New Residential Building Permits Issued, 2004-2014

Year	Single Family Units	Avg. Construction Cost	Multifamily Units	Avg. Multifamily Construction Cost
2004	70	\$143,007	0	N/A
2005	136	\$116,982	0	N/A
2006	128	\$135,789	0	N/A
2007	149	\$143,875	0	N/A
2008	86	\$125,460	0	N/A
2009	69	\$156,154	0	N/A
2010	59	\$145,528	0	N/A
2011	28	\$163,161	0	N/A
2012	46	\$139,941	0	N/A
2013	71	\$150,229	4	\$94,500
2014	75	\$168,857	0	N/A

Source: United States Census Bureau Building Permits Survey

In Sapulpa, building permits for 921 housing units were issued between 2004 and 2014, for an average of 84 units per year. 99.57% of these housing units were single family homes, and 0.43% consisted of multifamily units. The overall trend over this period has been for increasingly expensive homes, with 2014 reporting the highest average cost to date at \$168,857 per home.

### New Construction Activity

#### For Ownership:

New housing construction has occurred throughout Creek County. Many homes are built on rural, unplatted acreages, or in rural subdivisions outside of any particular city's jurisdiction. Homes have been constructed in most of the smaller communities in Creek County as well, including Mounds, Mannford, Bristow, Kiefer, and Kellyville. Within Sapulpa, there are several subdivisions where new construction is taking place, including The Lakes at Cross Timbers, The Lakes at Jefferson Heights and The Crossing at Jefferson Heights. Most new homes are built either east or southwest of Sapulpa.

Compared with other areas in the region, new homes in Creek County are relatively affordable, with many priced under \$150,000. The average sale price for homes constructed in or after 2014 (and sold after January 2015) is \$172,527 or \$98.55 per square foot.

#### For Rent:

Two affordable housing developments are currently under construction in Sapulpa. Wickham Gardens will add 60 affordable rental units for family occupancy, while Walnut Park Manor will add 50 affordable rental units for seniors age 62 and up. These developments should go far in meeting the affordable rental housing needs of Sapulpa.

## Homeownership Market

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

### Housing Units by Home Value

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

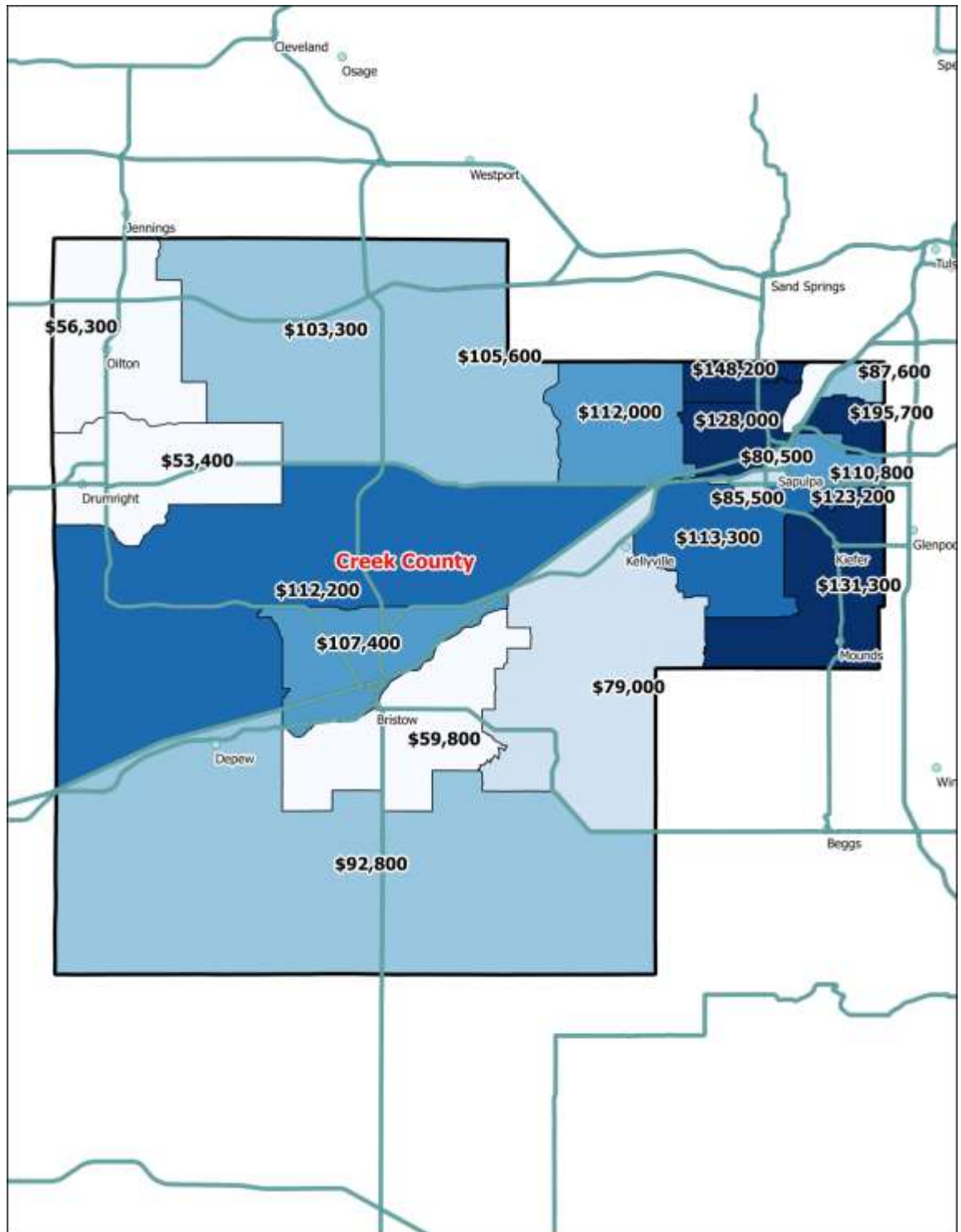
#### 2013 Housing Units by Home Value

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Total Owner-Occupied Units:</b>	<b>5,108</b>		<b>19,670</b>		<b>968,736</b>	
Less than \$10,000	163	3.19%	655	3.33%	20,980	2.17%
\$10,000 to \$14,999	96	1.88%	576	2.93%	15,427	1.59%
\$15,000 to \$19,999	15	0.29%	457	2.32%	13,813	1.43%
\$20,000 to \$24,999	42	0.82%	420	2.14%	16,705	1.72%
\$25,000 to \$29,999	21	0.41%	418	2.13%	16,060	1.66%
\$30,000 to \$34,999	22	0.43%	405	2.06%	19,146	1.98%
\$35,000 to \$39,999	63	1.23%	306	1.56%	14,899	1.54%
\$40,000 to \$49,999	291	5.70%	791	4.02%	39,618	4.09%
\$50,000 to \$59,999	258	5.05%	1,053	5.35%	45,292	4.68%
\$60,000 to \$69,999	352	6.89%	1,053	5.35%	52,304	5.40%
\$70,000 to \$79,999	286	5.60%	1,015	5.16%	55,612	5.74%
\$80,000 to \$89,999	539	10.55%	1,199	6.10%	61,981	6.40%
\$90,000 to \$99,999	312	6.11%	850	4.32%	51,518	5.32%
\$100,000 to \$124,999	739	14.47%	2,735	13.90%	119,416	12.33%
\$125,000 to \$149,999	486	9.51%	1,594	8.10%	96,769	9.99%
\$150,000 to \$174,999	446	8.73%	1,819	9.25%	91,779	9.47%
\$175,000 to \$199,999	292	5.72%	935	4.75%	53,304	5.50%
\$200,000 to \$249,999	316	6.19%	1,330	6.76%	69,754	7.20%
\$250,000 to \$299,999	116	2.27%	693	3.52%	41,779	4.31%
\$300,000 to \$399,999	160	3.13%	633	3.22%	37,680	3.89%
\$400,000 to \$499,999	59	1.16%	322	1.64%	13,334	1.38%
\$500,000 to \$749,999	19	0.37%	239	1.22%	12,784	1.32%
\$750,000 to \$999,999	0	0.00%	49	0.25%	3,764	0.39%
\$1,000,000 or more	15	0.29%	123	0.63%	5,018	0.52%
<b>Median Home Value:</b>		<b>\$103,200</b>		<b>\$105,800</b>		<b>\$112,800</b>

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

The median value of owner-occupied homes in Creek County is \$105,800. This is -6.2% lower than the statewide median, which is \$112,800. The median home value in Sapulpa is estimated to be \$103,200. The geographic distribution of home values in Creek County can be visualized by the following map.

### Creek County Median Home Values by Census Tract



## Home Values by Year of Construction

The next table presents median home values in Creek 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.

<b>2013 Median Home Value by Year of Construction</b>			
	<b>Sapulpa Median Value</b>	<b>Creek County Median Value</b>	<b>State of Oklahoma Median Value</b>
<b>Total Owner-Occupied Units:</b>			
Built 2010 or Later	\$139,000	\$136,000	\$188,900
Built 2000 to 2009	\$136,500	\$148,600	\$178,000
Built 1990 to 1999	\$163,400	\$120,800	\$147,300
Built 1980 to 1989	\$102,300	\$90,100	\$118,300
Built 1970 to 1979	\$125,900	\$112,900	\$111,900
Built 1960 to 1969	\$92,900	\$95,700	\$97,100
Built 1950 to 1959	\$81,600	\$80,300	\$80,300
Built 1940 to 1949	\$81,600	\$69,800	\$67,900
Built 1939 or Earlier	\$70,100	\$71,900	\$74,400

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

Source: 2009-2013 American Community Survey, Table 25107

## Sapulpa Single Family Sales Activity

The following tables show single family sales data for Sapulpa, separated between two, three and four bedroom units, as well as all housing units as a whole.

<b>Sapulpa Single Family Sales Activity</b>					
<b>Two Bedroom Units</b>					
<b>Year</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>YTD 2015</b>
# of Units Sold	40	31	56	34	30
Median List Price	\$63,450	\$45,000	\$63,000	\$59,450	\$66,000
Median Sale Price	\$60,150	\$49,000	\$51,750	\$55,500	\$63,300
Sale/List Price Ratio	95.0%	98.6%	94.8%	94.0%	94.0%
Median Square Feet	1,149	1,088	1,086	1,080	1,013
Median Price/SF	\$47.33	\$42.20	\$52.43	\$51.92	\$61.50
Med. Days on Market	48	29	49	48	32

Source: Tulsa MLS

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**Sapulpa Single Family Sales Activity**
**Three Bedroom Units**

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	214	237	229	254	194
Median List Price	\$96,375	\$110,900	\$112,500	\$119,500	\$116,650
Median Sale Price	\$93,750	\$109,500	\$110,000	\$116,000	\$112,750
Sale/List Price Ratio	97.0%	97.1%	97.1%	98.2%	98.8%
Median Square Feet	1,344	1,522	1,437	1,462	1,401
Median Price/SF	\$64.67	\$71.38	\$73.46	\$76.61	\$79.28
Med. Days on Market	52	45	38	37	30

Source: Tulsa MLS

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**Sapulpa Single Family Sales Activity**
**Four Bedroom Units**

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	52	56	54	64	43
Median List Price	\$179,250	\$194,450	\$188,000	\$179,900	\$147,625
Median Sale Price	\$170,200	\$182,500	\$179,000	\$178,995	\$147,625
Sale/List Price Ratio	96.3%	97.8%	97.7%	97.6%	98.6%
Median Square Feet	2,221	2,418	2,401	2,324	2,029
Median Price/SF	\$71.71	\$78.92	\$69.89	\$78.70	\$72.76
Med. Days on Market	39	48	40	45	41

Source: Tulsa MLS

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**Sapulpa Single Family Sales Activity**
**All Bedroom Types**

Year	2011	2012	2013	2014	YTD 2015
# of Units Sold	315	334	351	361	270
Median List Price	\$99,500	\$114,900	\$110,000	\$119,500	\$115,000
Median Sale Price	\$96,500	\$111,500	\$107,500	\$116,000	\$110,000
Sale/List Price Ratio	96.6%	97.3%	97.0%	97.9%	98.3%
Median Square Feet	1,380	1,554	1,456	1,503	1,440
Median Price/SF	\$63.99	\$69.87	\$69.61	\$75.08	\$76.24
Med. Days on Market	48	45	40	42	31

Source: Tulsa MLS

Between 2011 and year-end 2014, the average list price grew by 4.69% per year. The average sale price was \$110,000 in 2015, for an average price per square foot of \$76.24/SF. The average sale price to list price ratio was 98.3%, with an average days on market of 31 days. On the whole the Sapulpa market has improved over the previous four years, with increasing sale prices, sale/list price ratios and prices per square foot, and reduced marketing times.

## Foreclosure Rates

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

<b>Foreclosure Rates</b>	
<b>Geography</b>	<b>% of Outstanding Mortgages in Foreclosure, May 2014</b>
Creek County	2.3%
State of Oklahoma	2.1%
United States	2.1%
Rank among Counties in Oklahoma*:	27

\* 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 Creek County was 2.3% in May 2014. The county ranked 27 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%. Compared with the rest of the state, there does not appear to have been any disproportionate impact on the local housing market from foreclosures.

## Rental Market

This section will discuss supply and demand factors for the rental market in Creek 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 Creek 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

	Sapulpa		Creek County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
<b>Total Rental Units:</b>	<b>2,744</b>		<b>6,626</b>		<b>475,345</b>	
With cash rent:	2,414		5,512		432,109	
Less than \$100	0	0.00%	15	0.23%	2,025	0.43%
\$100 to \$149	5	0.18%	19	0.29%	2,109	0.44%
\$150 to \$199	35	1.28%	124	1.87%	4,268	0.90%
\$200 to \$249	36	1.31%	164	2.48%	8,784	1.85%
\$250 to \$299	37	1.35%	160	2.41%	8,413	1.77%
\$300 to \$349	30	1.09%	169	2.55%	9,107	1.92%
\$350 to \$399	31	1.13%	126	1.90%	10,932	2.30%
\$400 to \$449	104	3.79%	349	5.27%	15,636	3.29%
\$450 to \$499	101	3.68%	308	4.65%	24,055	5.06%
\$500 to \$549	205	7.47%	367	5.54%	31,527	6.63%
\$550 to \$599	185	6.74%	362	5.46%	33,032	6.95%
\$600 to \$649	220	8.02%	463	6.99%	34,832	7.33%
\$650 to \$699	112	4.08%	354	5.34%	32,267	6.79%
\$700 to \$749	257	9.37%	410	6.19%	30,340	6.38%
\$750 to \$799	84	3.06%	282	4.26%	27,956	5.88%
\$800 to \$899	333	12.14%	758	11.44%	45,824	9.64%
\$900 to \$999	228	8.31%	420	6.34%	34,153	7.18%
\$1,000 to \$1,249	289	10.53%	456	6.88%	46,884	9.86%
\$1,250 to \$1,499	21	0.77%	93	1.40%	14,699	3.09%
\$1,500 to \$1,999	59	2.15%	71	1.07%	10,145	2.13%
\$2,000 or more	42	1.53%	42	0.63%	5,121	1.08%
No cash rent	330	12.03%	1,114	16.81%	43,236	9.10%
<b>Median Gross Rent</b>	<b>\$721</b>		<b>\$668</b>		<b>\$699</b>	

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

Median gross rent in Creek County is estimated to be \$668, which is -4.4% less than Oklahoma's median gross rent of \$699/month. Median gross rent in Sapulpa is estimated to be \$721. On the whole, rental rates in Sapulpa and Creek County appear to be very similar to statewide figures.

#### 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

	Sapulpa Median Rent	Creek County Median Rent	State of Oklahoma Median Rent
<b>Total Rental Units:</b>			
Built 2010 or Later	-	-	\$933
Built 2000 to 2009	\$905	\$788	\$841
Built 1990 to 1999	\$663	\$664	\$715
Built 1980 to 1989	\$680	\$600	\$693
Built 1970 to 1979	\$578	\$605	\$662
Built 1960 to 1969	\$732	\$656	\$689
Built 1950 to 1959	\$731	\$677	\$714
Built 1940 to 1949	\$824	\$818	\$673
Built 1939 or Earlier	\$718	\$685	\$651

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

Source: 2009-2013 American Community Survey, Table 25111

### Sapulpa Rental Survey Data

The next table shows the results of our rental survey of Sapulpa. The data is divided between market rate properties, and affordable properties of all types (project-based Section 8, Low-Income Housing Tax Credit, USDA Rural Development, etc.)

#### Sapulpa Rental Properties

Name	Type	Year Built	Bedrooms	Bathrooms	Size (SF)	Rate	Rate/SF	Vacancy
Pinehurst Apartments	Market Rate	2004	1	1	738	\$674	\$0.913	2.00%
Pinehurst Apartments	Market Rate	2004	2	2	978	\$794	\$0.812	2.00%
Pinehurst Apartments	Market Rate	2004	3	2	1,083	\$934	\$0.862	2.00%
Cambridge Court	LIHTC - Family	2002	1	1	692	\$465	\$0.672	0.00%
Cambridge Court	LIHTC - Family	2002	2	2	945	\$585	\$0.619	0.00%
Cambridge Court	LIHTC - Family	2002	3	2	1,111	\$645	\$0.581	0.00%
Woodhaven Apartments	Market Rate	1970	2	1	950	\$540	\$0.568	N/A
Woodhaven Apartments	Market Rate	1970	3	1	1,250	\$665	\$0.532	N/A
Southern Hills Apartments	Market Rate	1976	1	1	750	\$465	\$0.620	N/A
Southern Hills Apartments	Market Rate	1976	2	2	950	\$515	\$0.542	N/A
Garden Park Apartments	Market Rate	1973	1	1	600	\$445	\$0.742	9.00%
Garden Park Apartments	Market Rate	1973	2	2	800	\$545	\$0.681	9.00%
Garden Park Apartments	Market Rate	1973	3	2	900	\$625	\$0.694	9.00%

The previous rent surveys encompass over four hundred rental units in five complexes. These properties are located throughout the community and provide a good indication of the availability and rental structure of multifamily property. Concessions such as free rent or no deposit were not evident in the competitive market survey. These inducements appear to have phased out over the market, and appear only sporadically at individual complexes to induce leasing activity in a particular unit type. Review of historical rental data indicates the comparable rental rates have increased in a predominant range of \$10 to \$20 per unit per month annually over the past 36 months.



**Rental Market Vacancy – Sapulpa**

The developments outlined previously report occupancy levels typically above 91%. These occupancy levels are typical of well-maintained and poorly maintained properties alike. The ability of older, physically deteriorating facilities to maintain high occupancy levels reflects the lack of superior alternatives in the Sapulpa market. The overall market vacancy of rental housing units was reported at 6.72% by the Census Bureau as of the most recent American Community Survey. Our own rental survey appears to support this figure.



Garden Park Apartments



Southern Hills Apartments



Woodhaven Apartments



Cambridge Court



Pinehurst Apt

Creek County



## 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 Creek 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.

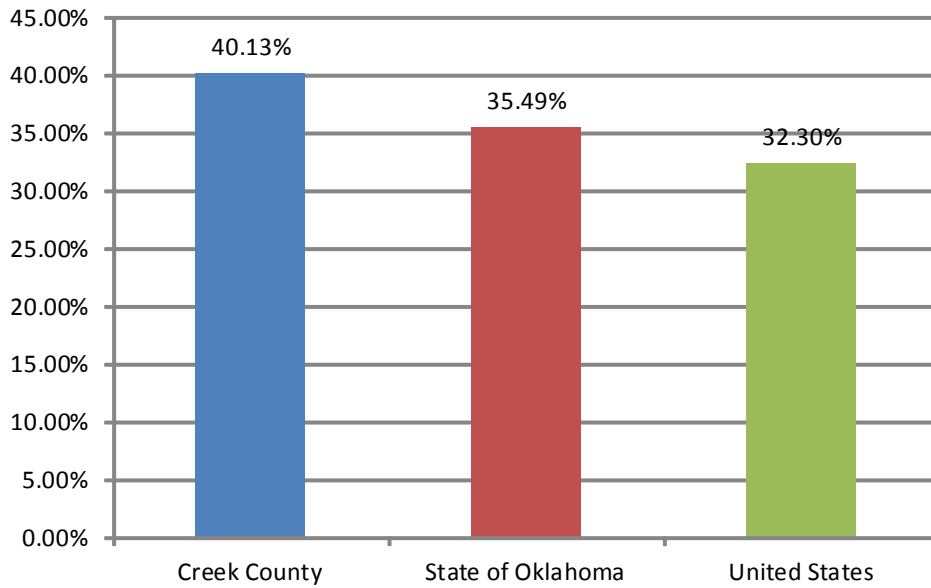
### HUD Programs in Creek County

Creek County	# Units	Occupancy Rate	Avg.	Tenant Contribution	Federal Contribution	% of Total Rent
			Household Income			
Public Housing	329	96%	\$17,879	\$223	\$340	39.59%
Housing Choice Vouchers	268	88%	\$12,401	\$312	\$399	43.95%
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	87	97%	\$11,657	\$256	\$391	39.58%
Section 236	60	87%	\$7,738	\$177	\$494	26.44%
Multi-Family Other	168	100%	\$9,875	\$234	\$295	44.18%
Summary of All HUD Programs	912	93%	\$14,270	\$253	\$377	40.13%
<b>State of Oklahoma</b>						
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%
<b>United States</b>						
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 912 housing units located within Creek County, with an overall occupancy rate of 93%. The average household income among households living in these units is \$14,270. Total monthly rent for these units averages \$630, with the federal contribution averaging \$377 (59.87%) and the tenant's contribution averaging \$253 (40.13%).

**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.



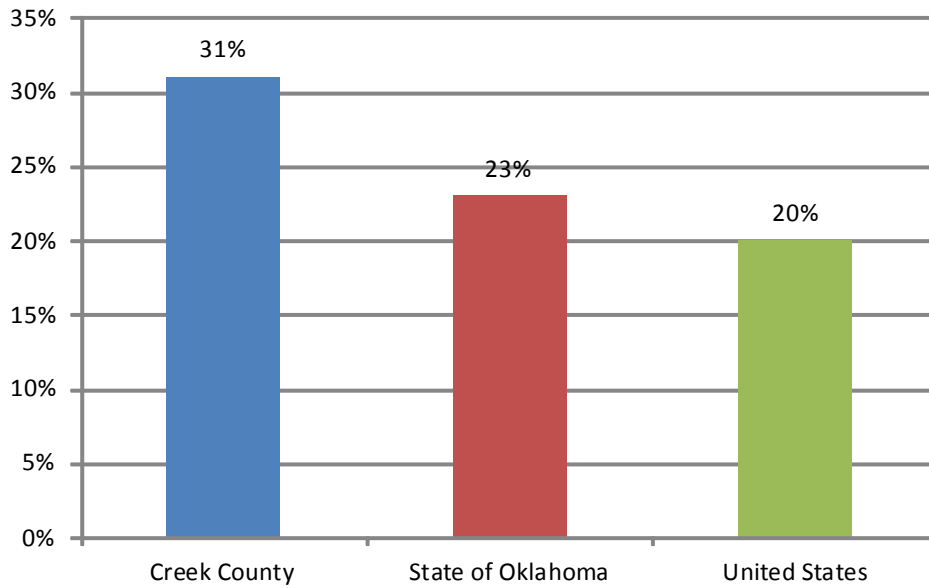
### Demographics of Persons in HUD Programs in Creek County

<b>Creek County</b>	<b># Units</b>	<b>% Single Mothers</b>	<b>% w/ Disability</b>	<b>% Age 62+</b>	<b>% Age 62+ w/ Disability</b>	<b>% Minority</b>
Public Housing	329	22%	25%	36%	71%	18%
Housing Choice Vouchers	268	29%	39%	38%	87%	22%
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	87	0%	44%	68%	19%	13%
Section 236	60	46%	15%	5%	100%	24%
Multi-Family Other	168	0%	100%	29%	100%	18%
Summary of All HUD Programs	912	23%	31%	38%	66%	19%
<b>State of Oklahoma</b>						
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%
<b>United States</b>						
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

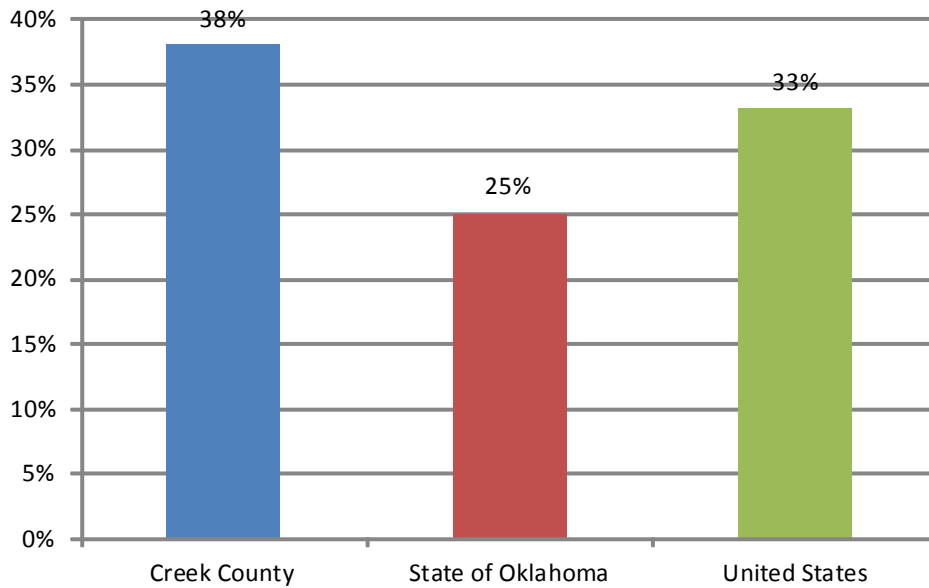
23% of housing units are occupied by single parents with female heads of household. 31% of households have at least one person with a disability. 38% of households have either a householder or spouse age 62 or above. Of the households age 62 or above, 66% have one or more disabilities. Finally, 19% of households are designated as racial or ethnic minorities. Compared with the rest of the state, Creek County has a lower percentage of single mothers, a higher percentage of persons with disabilities and persons age 62 and above, and a lower percentage of racial/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**



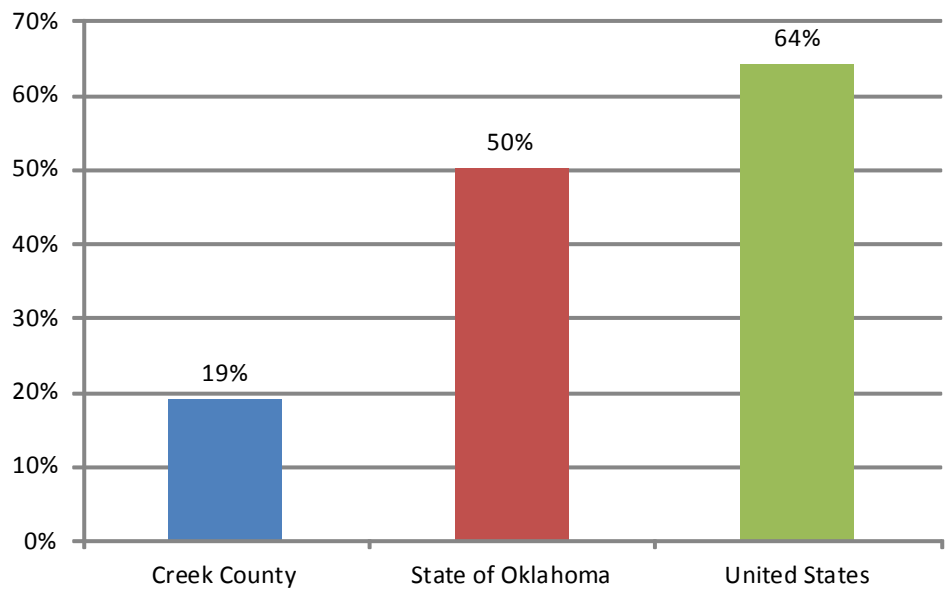
Source: 2013 HUD Picture of Subsidized Households



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**Percentage of Minority Households - HUD Subsidized Properties**

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Source: 2013 HUD Picture of Subsidized Households

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## 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 Creek 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 Creek 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.



**Creek County : CHAS - Housing Cost Burden by HAMFI**

Household Income / Cost Burden	Owners		Renters	
	Number	Percent	Number	Percent
<b>Income &lt; 30% HAMFI</b>	<b>1,510</b>		<b>1,495</b>	
Cost Burden Less Than 30%	340	22.52%	440	29.43%
Cost Burden Between 30%-50%	365	24.17%	240	16.05%
Cost Burden Greater Than 50%	690	45.70%	740	49.50%
Not Computed (no/negative income)	115	7.62%	70	4.68%
<b>Income 30%-50% HAMFI</b>	<b>2,245</b>		<b>1,125</b>	
Cost Burden Less Than 30%	1,375	61.25%	495	44.00%
Cost Burden Between 30%-50%	445	19.82%	420	37.33%
Cost Burden Greater Than 50%	420	18.71%	205	18.22%
Not Computed (no/negative income)	0	0.00%	0	0.00%
<b>Income 50%-80% HAMFI</b>	<b>3,880</b>		<b>1,655</b>	
Cost Burden Less Than 30%	2,915	75.13%	1,395	84.29%
Cost Burden Between 30%-50%	785	20.23%	240	14.50%
Cost Burden Greater Than 50%	180	4.64%	15	0.91%
Not Computed (no/negative income)	0	0.00%	0	0.00%
<b>Income 80%-100% HAMFI</b>	<b>2,340</b>		<b>720</b>	
Cost Burden Less Than 30%	1,865	79.70%	635	88.19%
Cost Burden Between 30%-50%	425	18.16%	80	11.11%
Cost Burden Greater Than 50%	50	2.14%	0	0.00%
Not Computed (no/negative income)	0	0.00%	0	0.00%
<b>All Incomes</b>	<b>19,950</b>		<b>6,480</b>	
Cost Burden Less Than 30%	15,945	79.92%	4,400	67.90%
Cost Burden Between 30%-50%	2,505	12.56%	1,015	15.66%
Cost Burden Greater Than 50%	1,385	6.94%	980	15.12%
Not Computed (no/negative income)	115	0.58%	70	1.08%

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

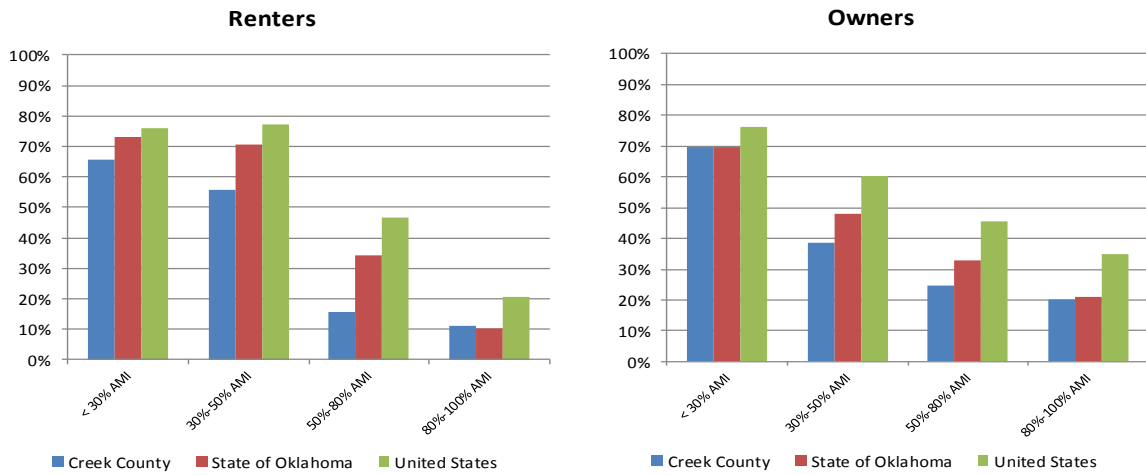
The next table summarizes the data from the previous table for households with cost burden greater than 30% of gross income, followed by a chart comparing these figures for Creek County with the State of Oklahoma as a whole, and the United States.

**Creek 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	1,510	69.87%	1,495	65.55%
Income 30%-50% HAMFI	2,245	38.53%	1,125	55.56%
Income 50%-80% HAMFI	3,880	24.87%	1,655	15.41%
Income 80%-100% HAMFI	2,340	20.30%	720	11.11%
All Incomes	19,950	19.50%	6,480	30.79%

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.



**Creek County : CHAS - HAMFI by Substandard Conditions / Overcrowding**

Household Income / Housing Problem	Owners		Renters	
	Number	Percent	Number	Percent
<b>Income &lt; 30% HAMFI</b>	<b>1,510</b>		<b>1,495</b>	
Between 1.0 and 1.5 Persons per Room	25	1.66%	55	3.68%
More than 1.5 Persons per Room	10	0.66%	25	1.67%
Lacks Complete Kitchen or Plumbing	25	1.66%	50	3.34%
<b>Income 30%-50% HAMFI</b>	<b>2,245</b>		<b>1,125</b>	
Between 1.0 and 1.5 Persons per Room	30	1.34%	20	1.78%
More than 1.5 Persons per Room	4	0.18%	15	1.33%
Lacks Complete Kitchen or Plumbing	50	2.23%	25	2.22%
<b>Income 50%-80% HAMFI</b>	<b>3,880</b>		<b>1,655</b>	
Between 1.0 and 1.5 Persons per Room	100	2.58%	105	6.34%
More than 1.5 Persons per Room	45	1.16%	4	0.24%
Lacks Complete Kitchen or Plumbing	15	0.39%	20	1.21%
<b>Income 80%-100% HAMFI</b>	<b>2,340</b>		<b>720</b>	
Between 1.0 and 1.5 Persons per Room	20	0.85%	10	1.39%
More than 1.5 Persons per Room	30	1.28%	0	0.00%
Lacks Complete Kitchen or Plumbing	20	0.85%	10	1.39%
<b>All Incomes</b>	<b>19,950</b>		<b>6,480</b>	
Between 1.0 and 1.5 Persons per Room	275	1.38%	275	4.24%
More than 1.5 Persons per Room	93	0.47%	44	0.68%
Lacks Complete Kitchen or Plumbing	120	0.60%	155	2.39%

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

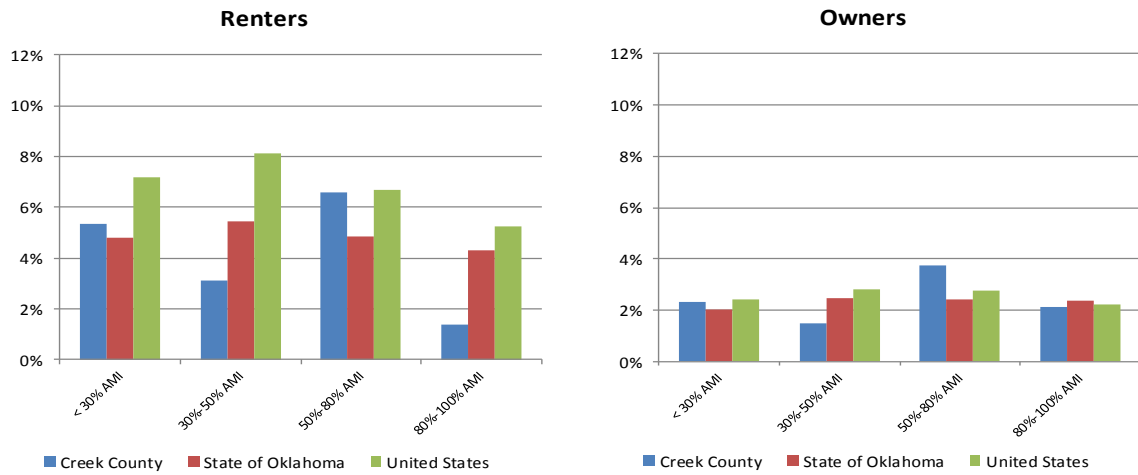
The next table summarizes this data for overcrowding (i.e. all households with greater than 1.0 persons per room), with a chart comparing this data between Creek County, Oklahoma and the nation.

**Creek 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	1,510	2.32%	1,495	5.35%	1,495
Income 30%-50% HAMFI	2,245	1.51%	1,125	3.11%	1,125
Income 50%-80% HAMFI	3,880	3.74%	1,655	6.59%	1,655
Income 80%-100% HAMFI	2,340	2.14%	720	1.39%	720
All Incomes	19,950	1.84%	6,480	4.92%	6,480

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 Creek County, the state and the nation.

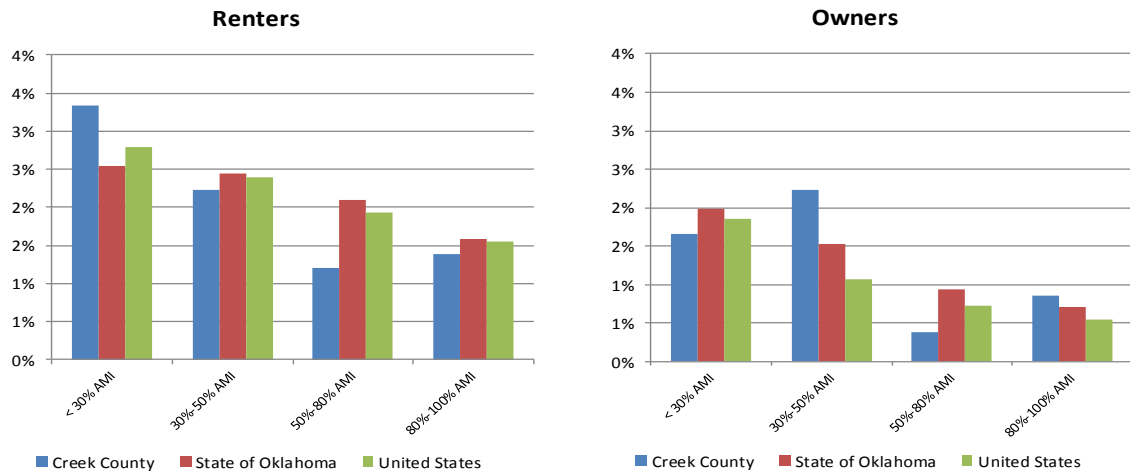
**Creek County : Households by Income by Substandard Conditions**

Household Size/Type	Total	Owners		Renters	
		% Lacking Kitchen or Plumbing	Total	% Lacking Kitchen or Plumbing	Total
Income < 30% HAMFI	1,510	1.66%	1,495	3.34%	
Income 30%-50% HAMFI	2,245	2.23%	1,125	2.22%	
Income 50%-80% HAMFI	3,880	0.39%	1,655	1.21%	
Income 80%-100% HAMFI	2,340	0.85%	720	1.39%	
All Incomes	19,950	0.60%	6,480	2.39%	

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.



**Creek County : CHAS - Housing Cost Burden by Household Type / HAMFI**

Income, Household Size/Type	Total	Owners		Renters		
		No. w/ Cost > 30%	Pct. w/ Cost > 30%	No. w/ Cost > 30%	Pct. w/ Cost > 30%	
		Income	Income	Income	Income	
<b>Income &lt; 30% HAMFI</b>	<b>1,510</b>	<b>1,050</b>	<b>69.54%</b>	<b>1,495</b>	<b>990</b>	<b>66.22%</b>
Elderly Family	150	100	66.67%	30	15	50.00%
Small Family (2-4 persons)	575	415	72.17%	595	425	71.43%
Large Family (5 or more persons)	60	40	66.67%	75	45	60.00%
Elderly Non-Family	425	285	67.06%	315	165	52.38%
Non-Family, Non-Elderly	295	210	71.19%	480	340	70.83%
<b>Income 30%-50% HAMFI</b>	<b>2,245</b>	<b>874</b>	<b>38.93%</b>	<b>1,125</b>	<b>630</b>	<b>56.00%</b>
Elderly Family	470	170	36.17%	80	35	43.75%
Small Family (2-4 persons)	505	230	45.54%	360	205	56.94%
Large Family (5 or more persons)	110	34	30.91%	100	70	70.00%
Elderly Non-Family	800	225	28.13%	235	120	51.06%
Non-Family, Non-Elderly	355	215	60.56%	345	200	57.97%
<b>Income 50%-80% HAMFI</b>	<b>3,880</b>	<b>964</b>	<b>24.85%</b>	<b>1,655</b>	<b>264</b>	<b>15.95%</b>
Elderly Family	1,055	195	18.48%	105	24	22.86%
Small Family (2-4 persons)	1,330	455	34.21%	840	155	18.45%
Large Family (5 or more persons)	350	90	25.71%	190	0	0.00%
Elderly Non-Family	625	65	10.40%	135	20	14.81%
Non-Family, Non-Elderly	520	159	30.58%	385	65	16.88%
<b>Income 80%-100% HAMFI</b>	<b>2,340</b>	<b>470</b>	<b>20.09%</b>	<b>720</b>	<b>85</b>	<b>11.81%</b>
Elderly Family	505	25	4.95%	70	0	0.00%
Small Family (2-4 persons)	1,020	230	22.55%	325	65	20.00%
Large Family (5 or more persons)	225	40	17.78%	75	0	0.00%
Elderly Non-Family	185	30	16.22%	15	0	0.00%
Non-Family, Non-Elderly	405	145	35.80%	235	20	8.51%
<b>All Incomes</b>	<b>19,950</b>	<b>3,888</b>	<b>19.49%</b>	<b>6,480</b>	<b>2,024</b>	<b>31.23%</b>
Elderly Family	3,920	570	14.54%	375	84	22.40%
Small Family (2-4 persons)	9,300	1,560	16.77%	2,880	850	29.51%
Large Family (5 or more persons)	1,730	259	14.97%	660	115	17.42%
Elderly Non-Family	2,415	615	25.47%	815	315	38.65%
Non-Family, Non-Elderly	2,580	884	34.26%	1,750	660	37.71%

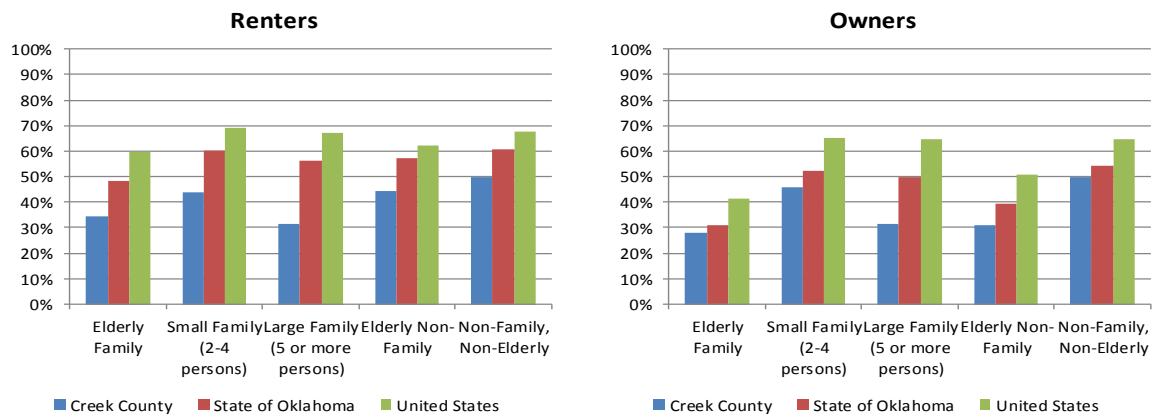
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

**Creek County : Households under 80% AMI by Cost Burden**

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
<b>Income &lt; 80% HAMFI</b>	<b>7,635</b>	<b>2,888</b>	<b>37.83%</b>	<b>4,275</b>	<b>1,884</b>	<b>44.07%</b>
Elderly Family	1,675	465	27.76%	215	74	34.42%
Small Family (2-4 persons)	2,410	1,100	45.64%	1,795	785	43.73%
Large Family (5 or more persons)	520	164	31.54%	365	115	31.51%
Elderly Non-Family	1,850	575	31.08%	685	305	44.53%
Non-Family, Non-Elderly	1,170	584	49.91%	1,210	605	50.00%

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).



**Creek County : CHAS - Housing Problems by Household Type and HAMFI**

Income, Household Size/Type	Total	Owners		Total	Renters	
		No. w/ Housing Problems	Pct. w/ Housing Problems		No. w/ Housing Problems	Pct. w/ Housing Problems
<b>Income &lt; 30% HAMFI</b>	<b>1,510</b>	<b>1,075</b>	<b>71.19%</b>	<b>1,495</b>	<b>1,045</b>	<b>69.90%</b>
Elderly Family	150	105	70.00%	30	15	50.00%
Small Family (2-4 persons)	575	415	72.17%	595	450	75.63%
Large Family (5 or more persons)	60	40	66.67%	75	50	66.67%
Elderly Non-Family	425	285	67.06%	315	175	55.56%
Non-Family, Non-Elderly	295	230	77.97%	480	355	73.96%
<b>Income 30%-50% HAMFI</b>	<b>2,245</b>	<b>930</b>	<b>41.43%</b>	<b>1,125</b>	<b>635</b>	<b>56.44%</b>
Elderly Family	470	200	42.55%	80	35	43.75%
Small Family (2-4 persons)	505	245	48.51%	360	210	58.33%
Large Family (5 or more persons)	110	55	50.00%	100	75	75.00%
Elderly Non-Family	800	220	27.50%	235	115	48.94%
Non-Family, Non-Elderly	355	210	59.15%	345	200	57.97%
<b>Income 50%-80% HAMFI</b>	<b>3,880</b>	<b>1,105</b>	<b>28.48%</b>	<b>1,655</b>	<b>375</b>	<b>22.66%</b>
Elderly Family	1,055	205	19.43%	105	20	19.05%
Small Family (2-4 persons)	1,330	470	35.34%	840	190	22.62%
Large Family (5 or more persons)	350	200	57.14%	190	65	34.21%
Elderly Non-Family	625	70	11.20%	135	20	14.81%
Non-Family, Non-Elderly	520	160	30.77%	385	80	20.78%
<b>Income Greater than 80% of HAMFI</b>	<b>12,315</b>	<b>1,155</b>	<b>9.38%</b>	<b>2,205</b>	<b>295</b>	<b>13.38%</b>
Elderly Family	2,245	110	4.90%	160	10	6.25%
Small Family (2-4 persons)	6,890	510	7.40%	1,085	85	7.83%
Large Family (5 or more persons)	1,210	180	14.88%	295	100	33.90%
Elderly Non-Family	565	40	7.08%	125	10	8.00%
Non-Family, Non-Elderly	1,405	315	22.42%	540	90	16.67%
<b>All Incomes</b>	<b>19,950</b>	<b>4,265</b>	<b>21.38%</b>	<b>6,480</b>	<b>2,350</b>	<b>36.27%</b>
Elderly Family	3,920	620	15.82%	375	80	21.33%
Small Family (2-4 persons)	9,300	1,640	17.63%	2,880	935	32.47%
Large Family (5 or more persons)	1,730	475	27.46%	660	290	43.94%
Elderly Non-Family	2,415	615	25.47%	810	320	39.51%
Non-Family, Non-Elderly	2,575	915	35.53%	1,750	725	41.43%

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

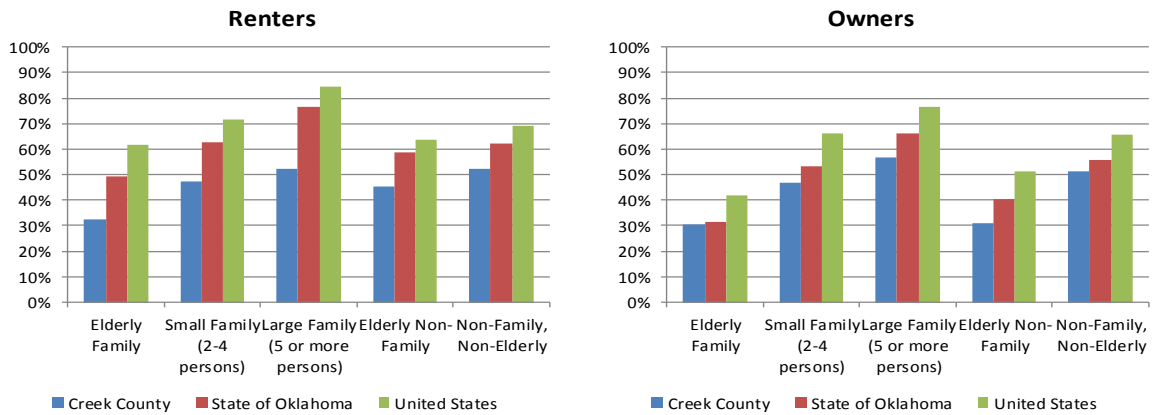


**Creek County : Households under 80% AMI by Housing Problems**

Household Size/Type	Total	Owners		Renters	
		No. w/ Housing Problems	Pct. w/ Housing Problems	No. w/ Housing Problems	Pct. w/ Housing Problems
<b>Income &lt; 80% HAMFI</b>	<b>7,635</b>	<b>3,110</b>	<b>40.73%</b>	<b>4,275</b>	<b>48.07%</b>
Elderly Family	1,675	510	30.45%	215	32.56%
Small Family (2-4 persons)	2,410	1,130	46.89%	1,795	47.35%
Large Family (5 or more persons)	520	295	56.73%	365	52.05%
Elderly Non-Family	1,850	575	31.08%	685	45.26%
Non-Family, Non-Elderly	1,170	600	51.28%	1,210	52.48%

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 Creek 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.”



<b>Creek County : CHAS - Housing Problems by Race / Ethnicity and HAMFI</b>						
Income, Race / Ethnicity	Total	Owners		Renters		
		No. w/ Housing Problems	Pct. w/ Housing Problems	Total	No. w/ Housing Problems	Pct. w/ Housing Problems
<b>Income &lt; 30% HAMFI</b>	<b>1,505</b>	<b>1,075</b>	<b>71.4%</b>	<b>1,500</b>	<b>1,045</b>	<b>69.7%</b>
White alone, non-Hispanic	1,160	840	72.4%	1,050	665	63.3%
Black or African-American alone	100	40	40.0%	95	80	84.2%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	88	80	90.9%	129	115	89.1%
Pacific Islander alone	0	0	N/A	0	0	N/A
Hispanic, any race	10	10	100.0%	29	25	86.2%
Other (including multiple races)	145	105	72.4%	190	155	81.6%
<b>Income 30%-50% HAMFI</b>	<b>2,240</b>	<b>930</b>	<b>41.5%</b>	<b>1,125</b>	<b>640</b>	<b>56.9%</b>
White alone, non-Hispanic	1,775	760	42.8%	910	535	58.8%
Black or African-American alone	55	10	18.2%	55	25	45.5%
Asian alone	0	0	N/A	0	0	N/A
American Indian alone	195	75	38.5%	50	30	60.0%
Pacific Islander alone	0	0	N/A	4	4	100.0%
Hispanic, any race	40	25	62.5%	45	30	66.7%
Other (including multiple races)	180	60	33.3%	70	20	28.6%
<b>Income 50%-80% HAMFI</b>	<b>3,880</b>	<b>1,100</b>	<b>28.4%</b>	<b>1,655</b>	<b>380</b>	<b>23.0%</b>
White alone, non-Hispanic	3,280	965	29.4%	1,320	280	21.2%
Black or African-American alone	25	0	0.0%	85	10	11.8%
Asian alone	10	10	100.0%	0	0	N/A
American Indian alone	190	50	26.3%	150	70	46.7%
Pacific Islander alone	10	0	0.0%	0	0	N/A
Hispanic, any race	80	20	25.0%	4	4	100.0%
Other (including multiple races)	280	55	19.6%	90	10	11.1%
<b>Income 80%-100% HAMFI</b>	<b>2,340</b>	<b>530</b>	<b>22.6%</b>	<b>720</b>	<b>105</b>	<b>14.6%</b>
White alone, non-Hispanic	1,970	450	22.8%	500	90	18.0%
Black or African-American alone	40	0	0.0%	20	0	0.0%
Asian alone	10	10	100.0%	0	0	N/A
American Indian alone	135	20	14.8%	105	0	0.0%
Pacific Islander alone	15	0	0.0%	0	0	N/A
Hispanic, any race	25	0	0.0%	0	0	N/A
Other (including multiple races)	145	50	34.5%	95	10	10.5%
<b>All Incomes</b>	<b>19,945</b>	<b>4,265</b>	<b>21.4%</b>	<b>6,485</b>	<b>2,360</b>	<b>36.4%</b>
White alone, non-Hispanic	16,930	3,570	21.1%	5,015	1,725	34.4%
Black or African-American alone	285	50	17.5%	285	125	43.9%
Asian alone	60	40	66.7%	0	0	N/A
American Indian alone	1,073	245	22.8%	549	230	41.9%
Pacific Islander alone	29	0	0.0%	4	4	100.0%
Hispanic, any race	309	59	19.1%	113	69	61.1%
Other (including multiple races)	1,245	300	24.1%	519	199	38.3%

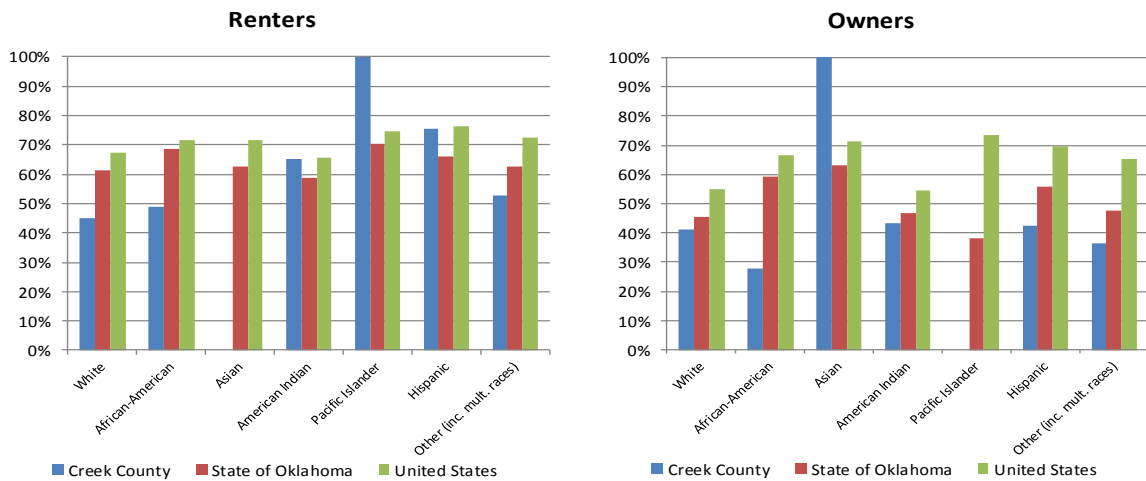
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 1

**Creek 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
<b>Income &lt; 80% HAMFI</b>	<b>7,625</b>	<b>3,105</b>	<b>40.72%</b>	<b>4,280</b>	<b>48.25%</b>
White alone, non-Hispanic	6,215	2,565	41.27%	3,280	45.12%
Black or African-American alone	180	50	27.78%	235	48.94%
Asian alone	10	10	100.00%	0	N/A
American Indian alone	473	205	43.34%	329	65.35%
Pacific Islander alone	10	0	0.00%	4	100.00%
Hispanic, any race	130	55	42.31%	78	75.64%
Other (including multiple races)	605	220	36.36%	350	52.86%

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 Creek 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 1,605 renter households that are cost overburdened, and 1,920 homeowners that are cost overburdened.
- Among **elderly** households with incomes less than 50% of Area Median Income, there are 335 renter households that are cost overburdened, and 780 homeowners that are cost overburdened.



- 75.64% of Hispanic renters with incomes less than 80% of Area Median Income have one or more housing problems, and 65.35% of Native American renters 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 Creek 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 Sapulpa, as well as Creek County as a whole. The calculations are shown in the following tables.

### Sapulpa Anticipated Demand

Households in Sapulpa grew at an annually compounded rate of 0.76% from 2000 to 2010. Nielsen SiteReports estimates households have grown 1.33% per year since that time, and that households will grow 0.32% per year through 2020. For these reasons we will rely on the Nielsen SiteReports forecast of 0.32% per year in forecasting future household growth for Sapulpa.

The percentage of owner households was estimated at 65.05% with renter households estimated at 34.95%, based on data from the U.S. Census Bureau. The estimated number of additional units needed to service increasing demand can be estimated by applying this percentage to the anticipated growth in households. It should be noted that this is an estimate of rental and owner requirements and should be relied upon only as a guideline for possible new demand. The calculations are shown below.

<b>Future Housing Demand Estimates for Sapulpa</b>						
<b>Year</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Household Estimates	8,561	8,589	8,617	8,645	8,673	8,701
Owner %: 65.05%	5,569	5,587	5,605	5,624	5,642	5,660
Renter %: 34.95%	2,992	3,001	3,011	3,021	3,031	3,041
<b>Total New Owner Households</b>						<b>91</b>
<b>Total New Renter Households</b>						<b>49</b>

Based on an estimated household growth rate of 0.32% per year, Sapulpa would require 91 new housing units for ownership, and 49 units for rent, over the next five years. Annually this equates to 18 units for ownership per year, and 10 units for rent per year. These forecasts do not take into account older housing units falling into a state of disrepair or demolished, and should be considered highly conservative estimates.

### Creek County Anticipated Demand

Households in Creek County grew at an annually compounded rate of 0.48% from 2000 to 2010. Nielsen SiteReports estimates households have grown 0.25% per year since that time, and that households will grow 0.37% per year through 2020. For these reasons we will rely on the Nielsen SiteReports forecast of 0.37% per year in forecasting future household growth for Creek County.

The percentage of owner households was estimated at 74.80% with renter households estimated at 25.20%, based on data from the U.S. Census Bureau. The estimated number of additional units needed



## Housing Demand – Population Subsets

This section will address 5-year forecasted needs and trends for population special population subsets for Creek County. These forecasts are based on the previously forecasted overall trends for the next five years.

### Housing Needs by Income Thresholds

The first table will address future housing needs and trends for households in Creek County by income threshold: households within incomes below 30%, 50%, 60% and 80% of Area Median Income, by tenure (owner/renter). These forecasts are primarily based on HUD Consolidated Housing Affordability Strategy data presented previously. Households with incomes below 60% of Area Median Income (AMI) are estimated at 120% of the households at 50% of AMI. Note that these figures are cumulative and should not be added across income thresholds.

<b>Creek County: 2015-2020 Housing Needs by Income Threshold</b>					
	Owner	Renter			
	Subset %	Subset %	Owners	Renters	Total
Total New Demand: 2015-2020	100.00%	100.00%	370	125	495
Less than 30% AMI	7.57%	23.07%	28	29	57
Less than 50% AMI	18.82%	40.43%	70	50	120
Less than 60% AMI	22.59%	48.52%	84	61	144
Less than 80% AMI	38.27%	65.97%	142	82	224

### Elderly Housing Needs

The next table will address future housing needs and trends for households with elderly persons (age 62 and up). Like the previous table, this data is based on the overall trends previously defined, and the 2008-2012 CHAS data previously discussed (specifically CHAS Table 16). It is further broken down by income threshold and tenure.

<b>Creek County: 2015-2020 Housing Needs Age 62 and Up</b>					
	Owner	Renter	Elderly	Elderly	Elderly
	Subset %	Subset %	Owners	Renters	Total
Total New Elderly (62+) Demand: 2015-2020	31.75%	18.36%	118	23	140
Elderly less than 30% AMI	2.88%	5.32%	11	7	17
Elderly less than 50% AMI	9.25%	10.19%	34	13	47
Elderly less than 60% AMI	11.10%	12.22%	41	15	56
Elderly less than 80% AMI	17.67%	13.89%	65	17	83

### Housing Needs for Persons with Disabilities / Special Needs

The following table will address future trends and needs for households with at least one household member with at least one disability as identified by HUD CHAS Table 6 (hearing or vision impairments, ambulatory limitations, cognitive limitations, self-care limitations, or independent living limitations). As with the previous tables, this data is also further broken down by income threshold and tenure.



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**Creek County: 2015-2020 Housing Needs for Persons with Disabilities**


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	Owner Subset %	Renter Subset %	Disabled Owners	Disabled Renters	Disabled Total
Total New Disabled Demand (2015-2020)	33.56%	36.03%	124	45	<b>169</b>
Disabled less than 30% AMI	4.21%	9.80%	16	12	<b>28</b>
Disabled less than 50% AMI	10.03%	18.21%	37	23	<b>60</b>
Disabled less than 60% AMI	12.03%	21.85%	45	27	<b>72</b>
Disabled less than 80% AMI	18.42%	25.93%	68	32	<b>101</b>

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**Housing Needs for Veterans**

This section will address housing needs for households with at least one veteran. This data is not available through HUD's Consolidated Housing Affordability Strategy, so we have instead relied on data from the U.S. Census Bureau, specifically the 2009-2013 American Community Survey, Table C21007. This data is further broken down by tenure, poverty status, and disability status.

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**Creek County: 2015-2020 Housing Needs for Veterans**


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	Owner Subset %	Renter Subset %	Veteran Owners	Veteran Renters	Veteran Total
Total New Demand (2015-2020)	100.00%	100.00%	370	125	495
Total Veteran Demand	10.96%	10.96%	41	14	<b>54</b>
Veterans with Disabilities	4.05%	4.05%	15	5	<b>20</b>
Veterans Below Poverty	1.07%	1.07%	4	1	<b>5</b>
Disabled Veterans Below Poverty	0.60%	0.60%	2	1	<b>3</b>

---

**Housing Needs for Working Families**

The final table addresses housing needs for working families. Working families are in this case defined as families (households with at least two members related by blood or marriage) with at least one person employed. Like the forecasts for veteran needs, this data cannot be extracted from the HUD CHAS tables, so we have again relied on the Census Bureau's American Community Survey (table B23007 in this instance). The data is further broken down by the presence of children (below the age of 18).

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**Creek County: 2015-2020 Housing Needs for Working Families**


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	Owner Subset %	Renter Subset %	Owners	Renters	Total
Total New Demand (2015-2020)	100.00%	100.00%	370	125	495
Total Working Families	53.67%	53.67%	199	67	<b>266</b>
Working Families with Children Present	25.46%	25.46%	94	32	<b>126</b>

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### Population Subset Conclusions

Based on population and household growth over the next five years, a total of 495 housing units will be needed in Creek County over the next five years. Of those units:

- 144 will be needed by households earning less than 60% of Area Median Income
- 56 will be needed by households age 62 and up, earning less than 60% of Area Median Income
- 72 will be needed by households with disabilities / special needs, earning less than 60% of Area Median Income
- 5 will be needed by veterans living below the poverty line
- 126 will be needed by working families with children present

This data suggests a strong need in Creek County for housing units that are both affordable and accessible to persons with disabilities / special needs, and working families with children.

## Special Topics

## Creek 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 6 key cities within the county (Sapulpa, Bristow, Kellyville, Mannford, Drumright, Mounds).

**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.

City of Sapulpa has a comprehensive plan. There are direct goals and discussion of connecting the comprehensive plan with the hazard mitigation plan:

“Incorporate elements of the adopted Multi-Hazard Mitigation Plan (such as flood damage prevention) into the public safety program and land use planning program with comprehensive programs of coordination and cooperation between the public and private sectors.” P. 22

- Incorporate the Multi-hazard Mitigation Plan into the land use and transportation planning program.
- Proactively seek and support initiatives for public and private funding for public safety programs and services.

#### **Floodplain Management Goals:**

1. Plan and prioritize the projects and provisions of the adopted Master Drainage Plans in the best interests of the public safety and welfare of all residents as funds are available.
2. Provide proper flood control in conjunction with stormwater drainage facilities to safeguard the citizenry and their property from the hazards of flooding, erosion, siltation and standing water. (p.28)

- Designate flood-prone areas as Development Sensitive and Conservation Areas and allow development only in accordance with the adopted flood damage prevention regulations and permitting requirements.

Clearly, planning in Sapulpa is working to be in alignment with the same principles outlined in the county HMP in order to protect the welfare of their community.

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. Creek 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.

#### Creek County Hazard Mitigation Plan

The Creek HMP explored scenarios related to each major risk to the community based on probability of an event occurring and potential damages and losses. This HMP was particularly progressive in performing this analysis as well as looking at their vulnerable populations within this plan to focus some of their attention in preparedness and recovery.

This plan further explored development trends in the area:

“There are 43,005 parcels of property in County. Of these, 18,189 parcels are undeveloped. And of these 18,189 undeveloped parcels, 3737 are in the regulatory floodplain; 1130 residential, 65 commercial, and 1794 agricultural. Map Number 17 in Appendix 1 shows this information. It must be noted that no new building development will be added to the flood hazard because any new building will conform to the County’s Flood Damage Prevention Ordinance, which the County will continue to vigorously enforce. It will be recommended to all new construction to investigate the shrink-swell potential of its soils, and design and construct the foundation with the soils’ properties as a consideration.” (p. 57)

Goals were also developed for all the hazard potential events:

**“Goal 1** General: To protect vulnerable populations and critical facilities from hazards.

**Objectives:**

1. Minimize the loss of life and damage to property and infrastructure from natural and man-made disasters.
2. Increase public awareness of risks from hazards and implement measures that can be taken to protect families and property from disasters.
3. Reduce the risk and effects of hazards and minimize disruption in the county.
4. Identify and protect vulnerable populations from natural and man-made hazards.
5. Identify and protect critical county and community facilities from hazards so that they can continue their missions in the event of a disaster.

**Goal 2** Flood Hazard: To reduce the risk of flood hazard in Creek County.

**Objectives:**

1. Identify buildings at risk from the 100-year regulatory flood.
2. Ensure that development does not increase flooding downstream or have off-site adverse impacts.
3. Identify and maximize the natural and beneficial uses of the floodplain.
4. Implement the best flood control measures to reduce vulnerability of flood-prone properties.

**Goal 3** Tornado Hazard: To reduce the risk from tornados in Creek County

**Objectives:**

1. Encourage building of individual safe rooms and storm shelters.
2. Educate and encourage the building trades industry about construction standards that are adequate to withstand frequent high winds.

**Goal 4** Hailstorm Hazard: To reduce the risk from hailstorms in Creek County.

**Objectives:**

1. Promote construction of hail resistant roofs.

**Goal 5** Lightning Hazard: To reduce the risk from lightning in Creek County.

**Objectives:**

1. Reduce loss of life and property, and injury due to lightning by increased public awareness of measures to prevent and reduce damage, including warnings.

**Goal 6** Winter Storm Hazard: To reduce the hazards from winter storms in Creek County.

**Objectives:**

1. Reduce property loss and community disruption due to severe winter cold and ice storms.

**Goal 7** High Winds Hazard: To reduce the risk from high winds in Creek County.

**Objectives:**

- 1 Educate and encourage the building trades industry about construction standards that are adequate to withstand frequent high winds.

**Goal 8** Drought Hazard: Reduce the economic impact of drought hazards to Creek County.

**Objectives:**

1. Reduce damage to property and building foundations due to drought by improving building codes.

**Goal 9** Wildfire Hazard: To reduce the threat of wildfire hazards and their financial impact in Creek County.

**Objectives:**

1. Develop a County-wide fire response and support group to facilitate the provisioning of water to fires during large fires.

**Goal 10** Expansive Soil Hazard: Reduce structure's susceptibility to soil movement.

**Objectives:**

1. Reduce damage to property and building foundations due to expansive soils by improving building codes.

**Goal 11** Earthquake Hazard: To reduce the risk from earthquakes in Creek County.

**Objectives:**

1. Educate and encourage the building trades industry about earthquake resistant construction.

**Goal 12** Hazardous Materials Hazard: To reduce the risk from hazardous material storage facilities around Creek County.

**Objectives:**

1. Protect the public from exposure from hazardous materials events from sites within the community.  
(pgs 58-59)

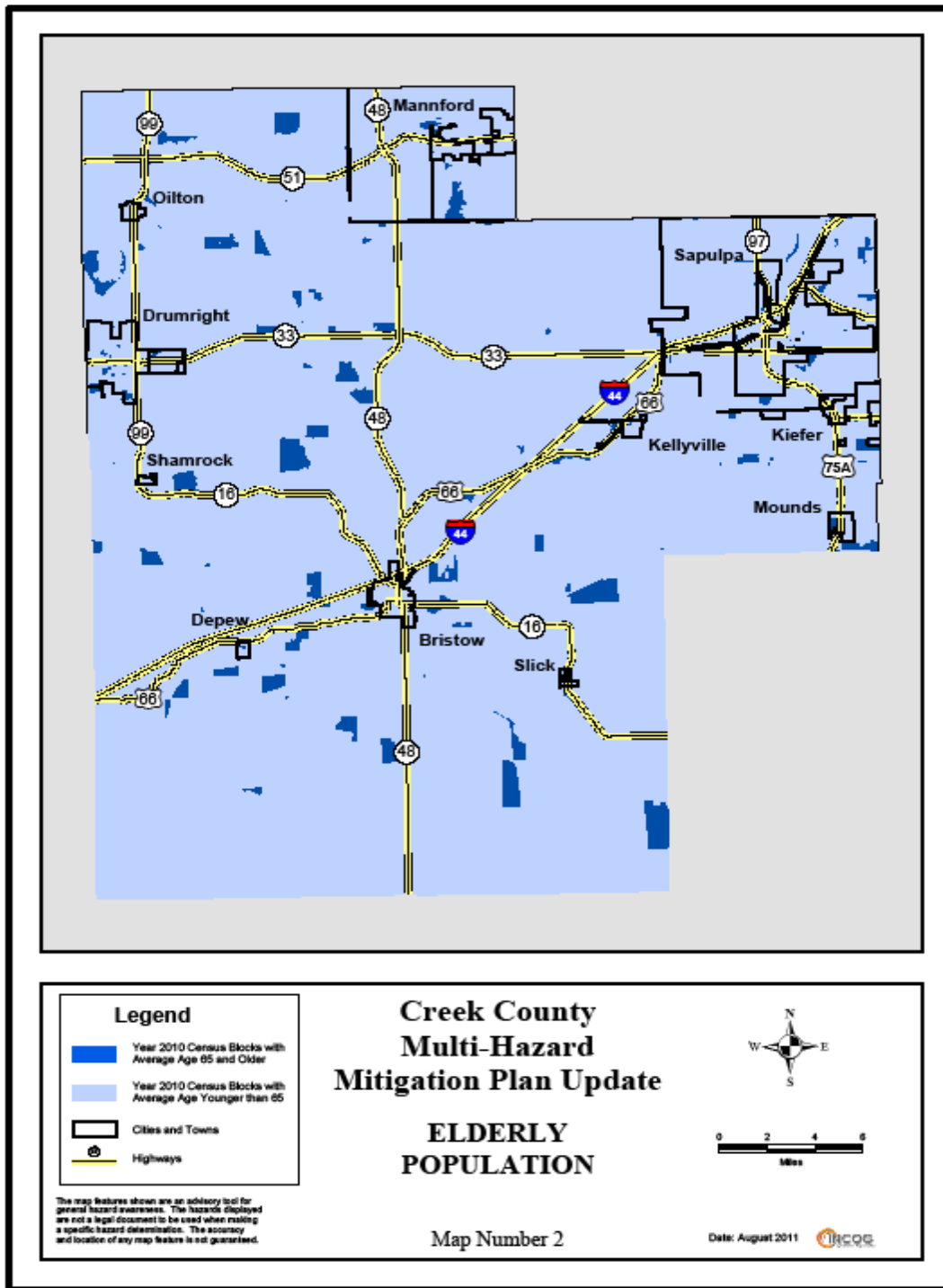
Prioritized list of projects to address goals in the HMP included:

1. Complete 911 addressing for all of the County
2. **Develop specific ideas for educating the public and businesses about hazards that can affect them, and methods of preparing for and minimizing the hazard event.**
3. Identify and plan for hazardous materials and incidents on major transportation routes through Creek County

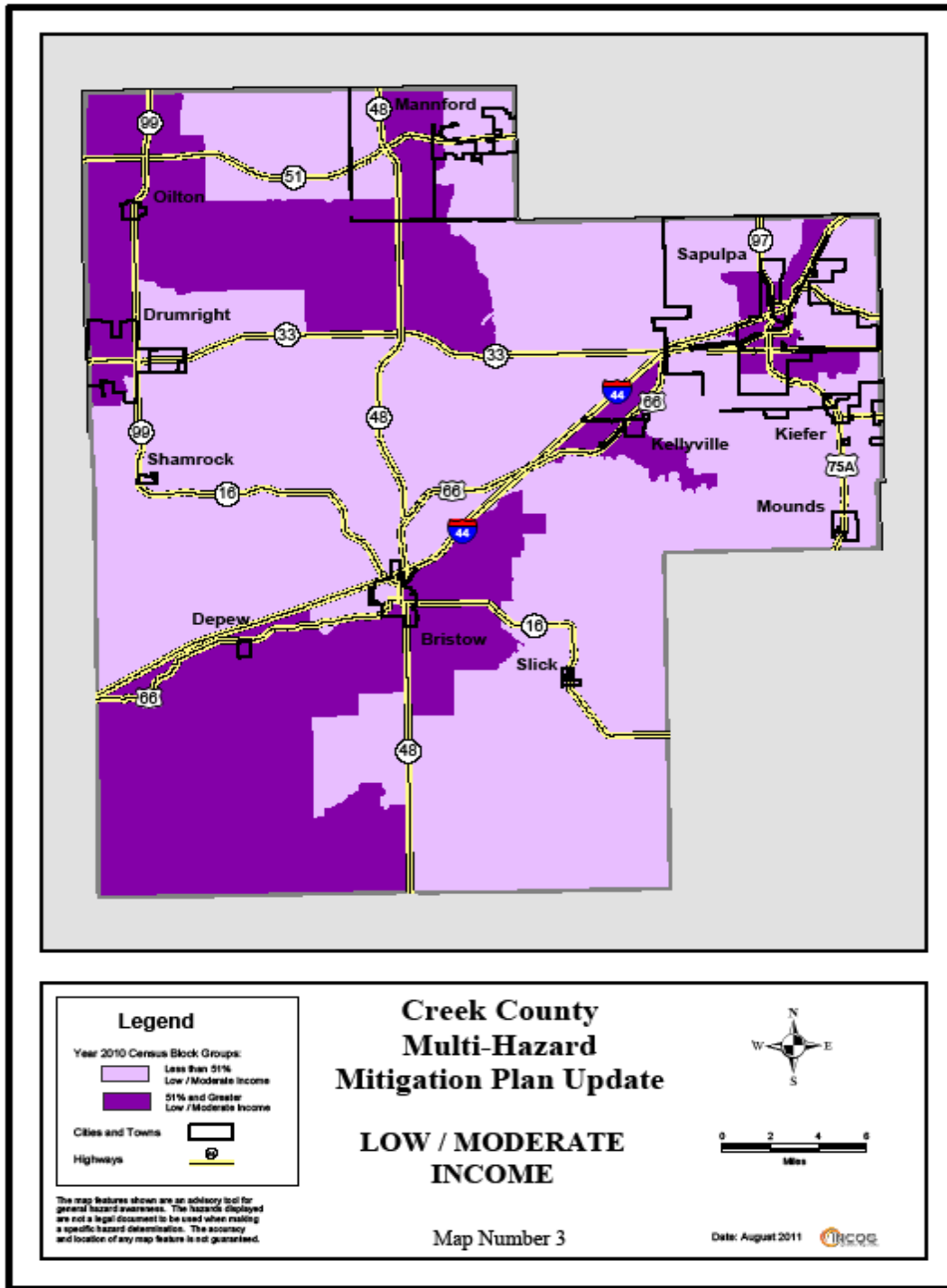
4. Develop a countywide fire response and support group to facilitate the provisioning of water to fire departments during large fires.
5. Build community partnerships involving local government leaders, civic, business and volunteer groups to work together.
6. **Acquire accurate or verify accuracy of existing flood plain maps and develop land use regulations to avoid construction in flood-prone locations.**
7. Inspect Creek County schools for tornado and high wind vulnerability.
8. Construct adequate bridges to pass 100-year regulatory flood without overtopping.
9. **Investigate voluntary pilot demonstration projects for mobile home communities providing a shelter and/or safe rooms for residents.**
10. Acquire and remove Repetitive Loss Properties and repeatedly flooded properties where acquisition is the most cost effective and desirable mitigation measure.

Bolded items above are clearly connected to building housing in the appropriate locations to avoid repeated flooding and the county is exploring ways to protect vulnerable populations such as those living in mobile homes.

As mentioned previously, this HMP provided analysis and attention to their vulnerable populations and mapped these areas:

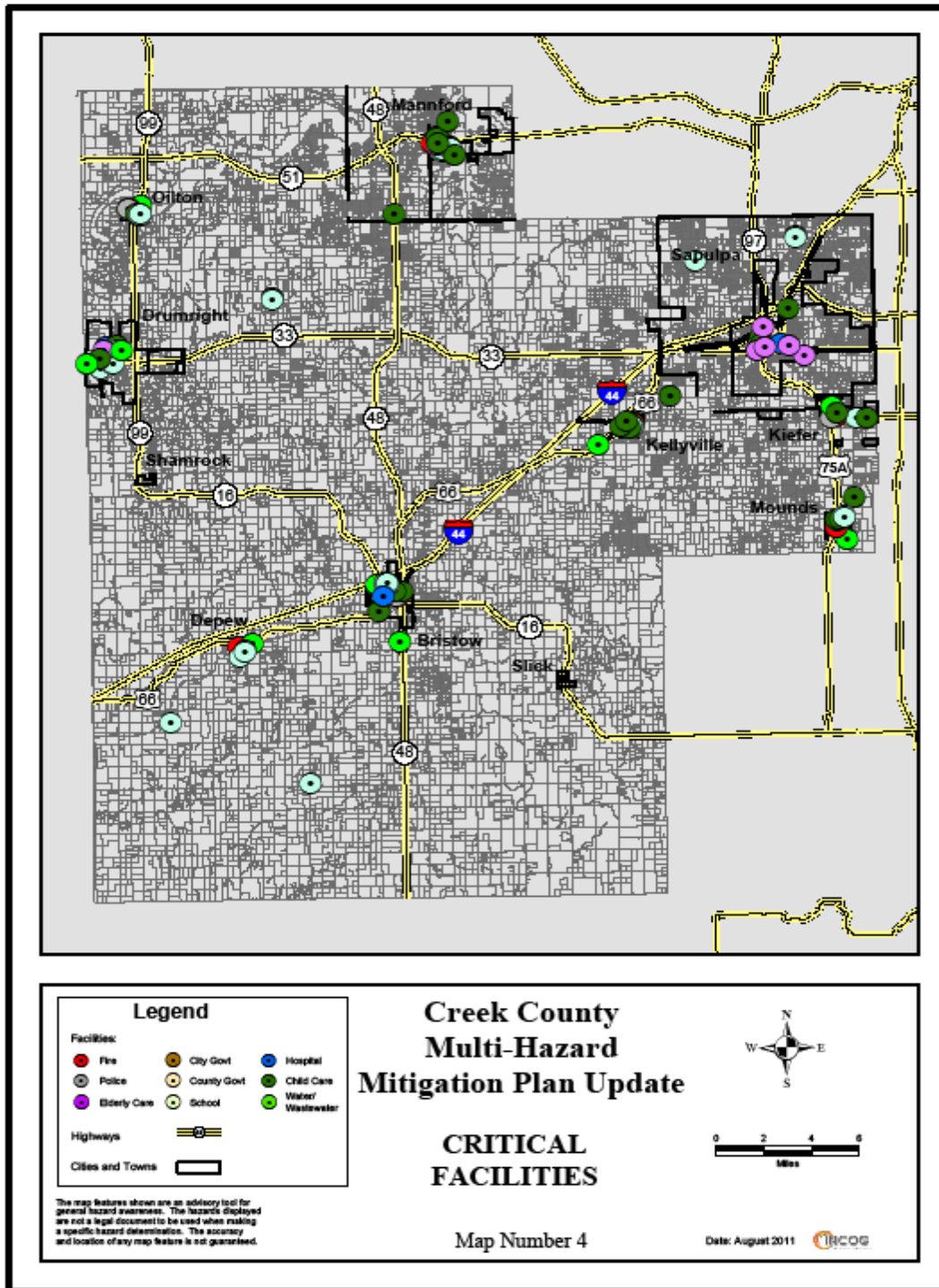


(Creek County HMP, p. 96)



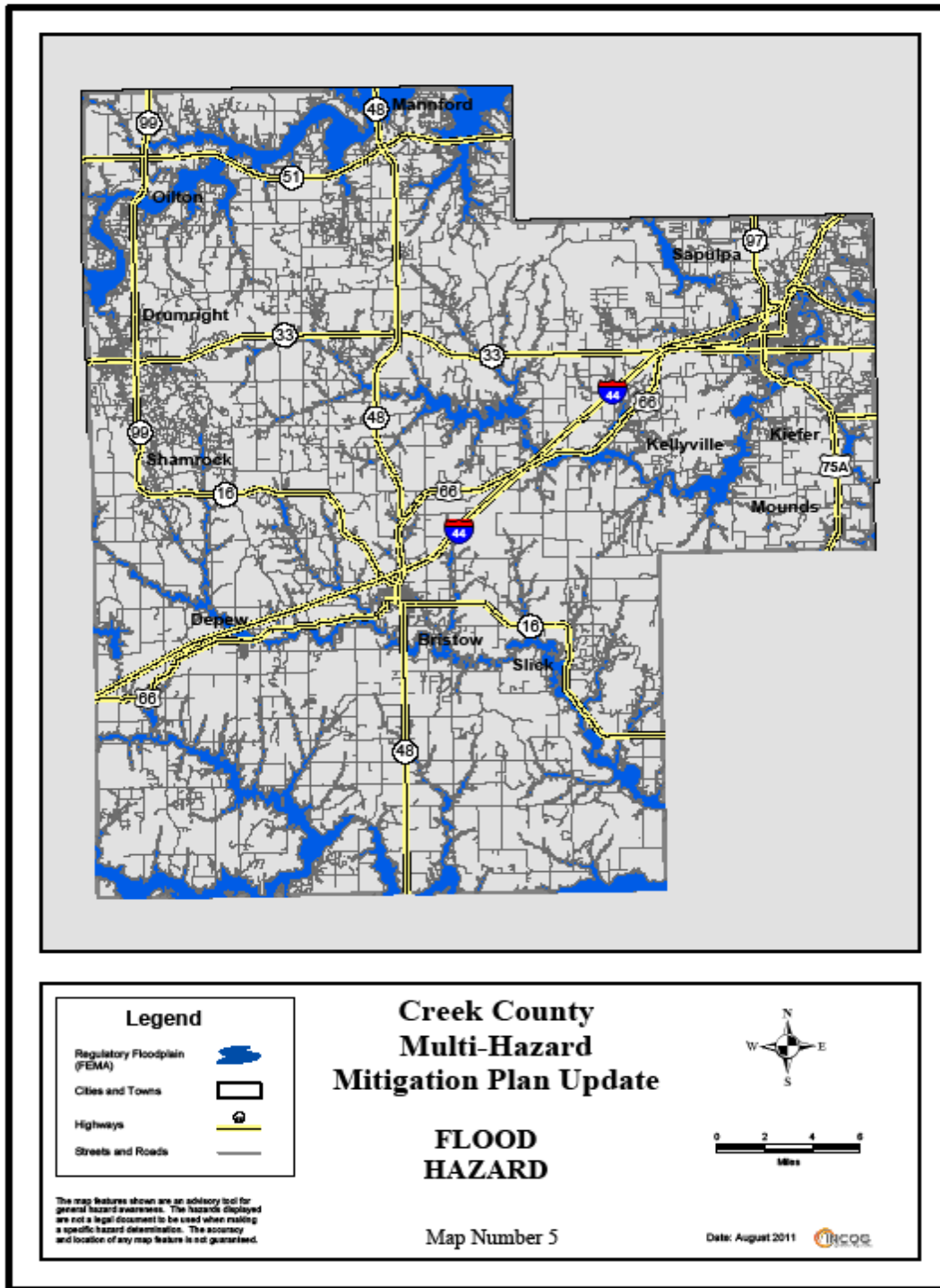
( Creek County HMP, p. 97)



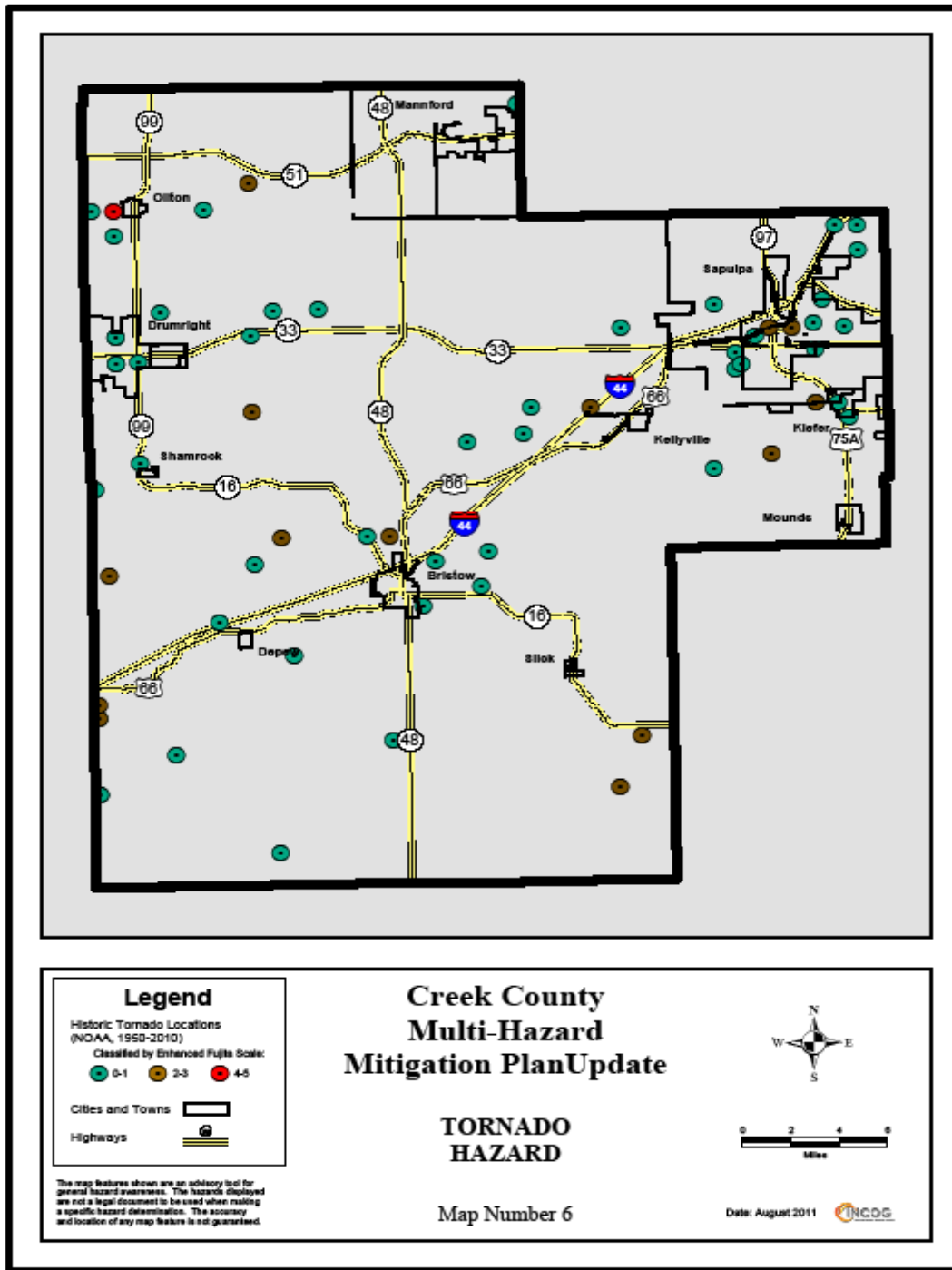


( Creek County HMP, p. 98)

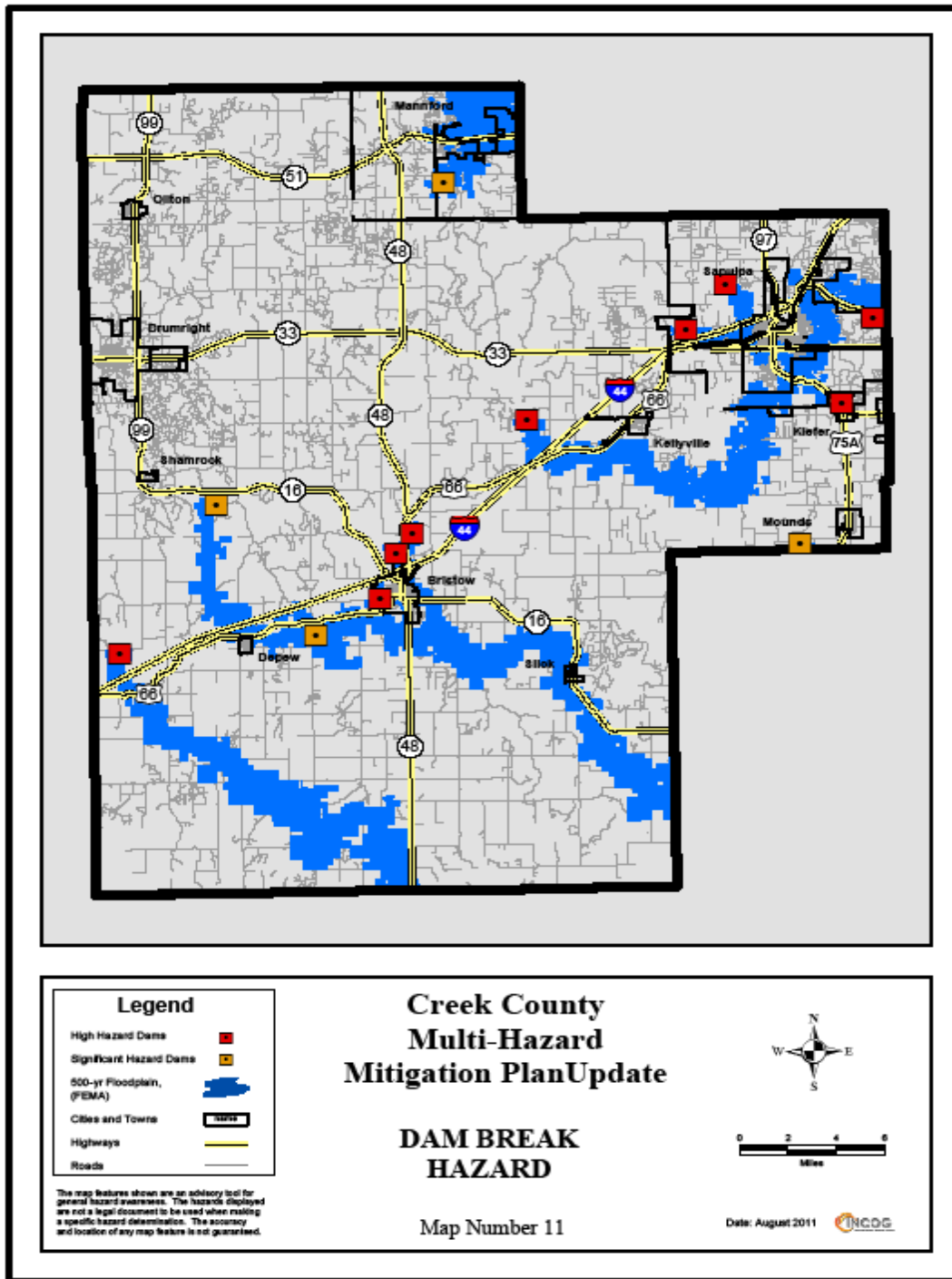




( Creek County HMP, p. 99)



( Creek County HMP, p. 100)



( Creek County HMP, p. 105)

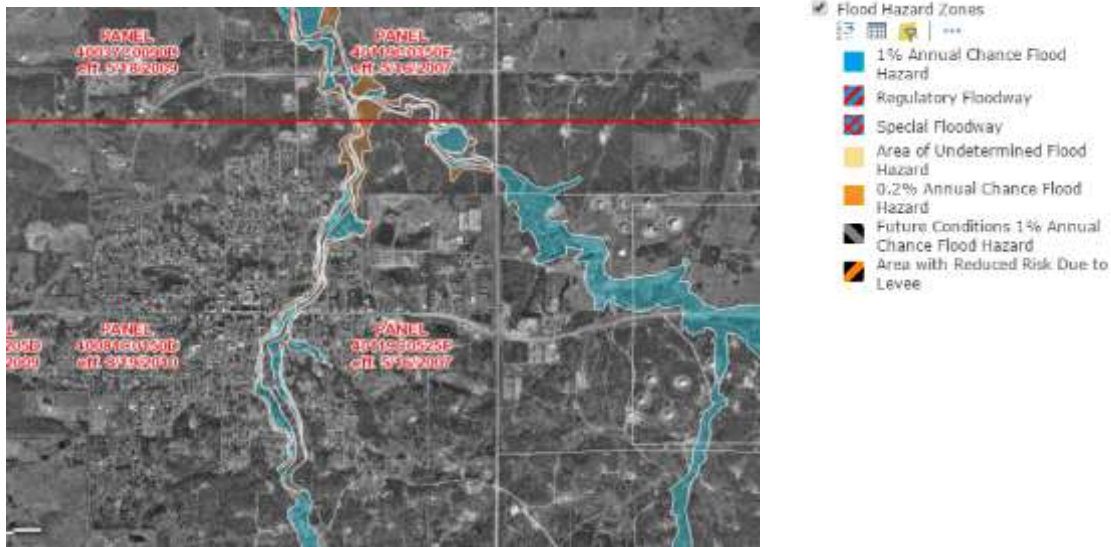
## Sapulpa Hazard Mitigation Plan Mitigation Measures

The following are the top ten high priority mitigation measures defined by the Sapulpa Hazard Mitigation Planning Committee.

- Floods - Implement structural and non-structural flood mitigation measures for flood-prone properties as recommended in the basin-wide master drainage plans and by FEMA.
- Floods - Eliminate Storm-water infiltration and inflow (I&I) into the sanitary sewer system.
- Floods - Obtain and install flood level monitoring equipment in Polecat and Rock Creeks.
- Floods - Launch an automatic monitoring and warning system for spot flooding.
- Floods - Acquire and remove Repetitive Loss Properties and repeatedly flooded properties where the community's Repetitive Loss and master drainage plans identify acquisition to be the most cost effective and desirable mitigation measure.
- General - Develop a Sapulpa debris management program.
- Tornadoes & High Winds - Provide Safe Rooms in Fire and Police stations to protect first responders.
- Tornadoes & High Winds - Investigate building codes and incentives for adequacy for tornadoes and high winds.
- Extreme Heat - Develop a heat response plan for Sapulpa.
- Urban Fires - Replace/continue replacing inadequately sized water lines with lines of sufficient size to provide proper fire protection to annexed and existing areas.

To supplement the information already provided in the HMPs, this data was prepared for the counties for this study to look at historical tornado fatalities, injuries, and property losses.

### Drumright



FEMA's National Flood Hazard Layer <http://fema.maps.arcgis.com/>

Bristow



Flood Hazard Zones  
■ 1% Annual Chance Flood Hazard

FEMA's National Flood Hazard Layer <http://fema.maps.arcgis.com/>

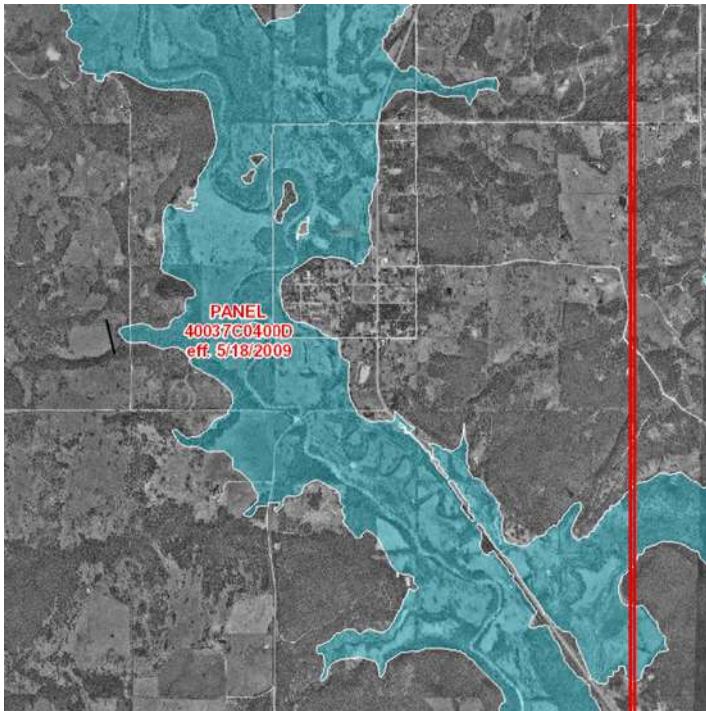
Sapulpa



Flood Hazard Zones  
■ 1% Annual Chance Flood Hazard  
■ Regulatory Floodway  
■ Special Floodway  
■ Area of Undetermined Flood Hazard  
■ 0.2% Annual Chance Flood Hazard  
■ Future Conditions 1% Annual Chance Flood Hazard  
■ Area with Reduced Risk Due to Levee

FEMA's National Flood Hazard Layer <http://fema.maps.arcgis.com/>

Slick



Flood Hazard Zones  
■ 1% Annual Chance Flood Hazard

FEMA's National Flood Hazard Layer <http://fema.maps.arcgis.com/>

Mannford



Flood Hazard Zones  
■ 1% Annual Chance Flood Hazard

FEMA's National Flood Hazard Layer <http://fema.maps.arcgis.com/>

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

Historic data on tornados between 1950-2014 there are 64 tornados documented. There were 526 injuries that occurred connected to these tornados, with 13 of those injuries happening in the 1999 tornado and 150 injuries related to the 1974 tornado. There were 30 fatalities connected to tornadoes during this time period, 14 of which occurred in 1974. Property losses between 1950-1996 ranged from \$12,935,503.00 to \$129,355,150.00. (The accounting methods used for losses changed in 1996.) The losses estimated between 1996-2014 was \$70,290,000.00.

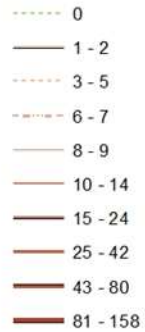


# Social Vulnerability - Impacts on Housing & Disaster Resiliency

## Tornado Events 1950 - 2014

### Creek County

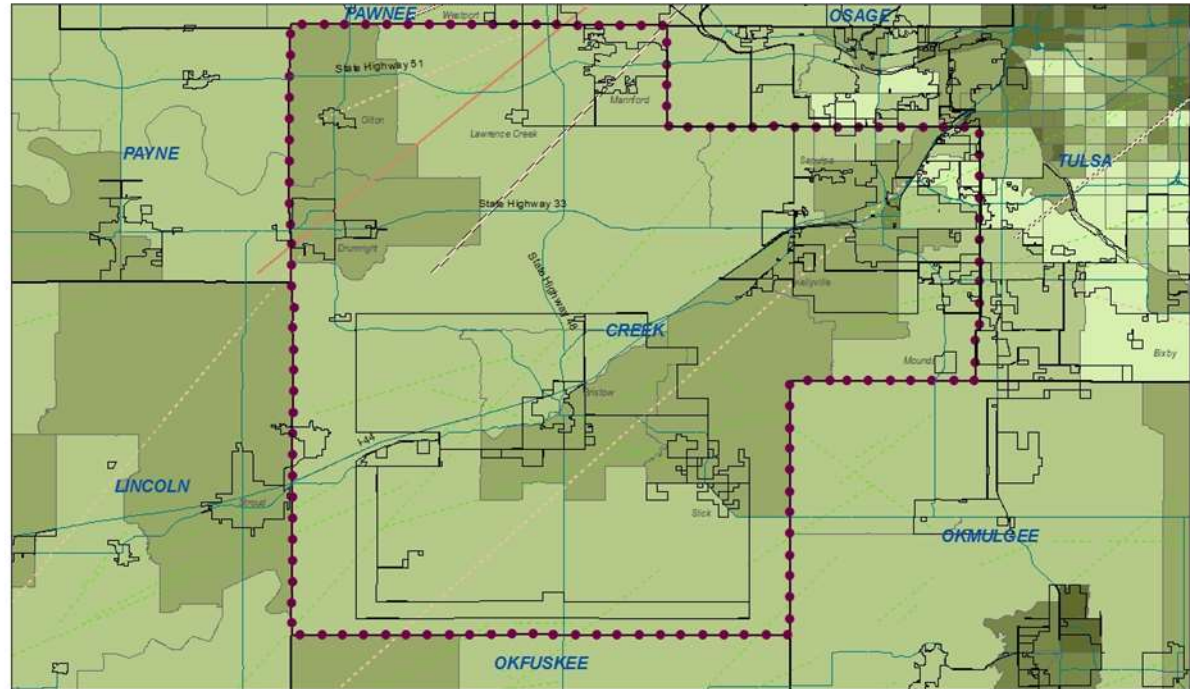
**# of fatalities associated with event**



**Social Vulnerability Index**



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



19XX or 20XX Year of Event

Oklahoma Municipal Boundaries

Selected County Boundary

COUNTY NAME



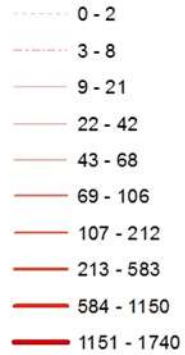
0 3.5 7 14 Miles

# Social Vulnerability - Impacts on Housing & Disaster Resiliency

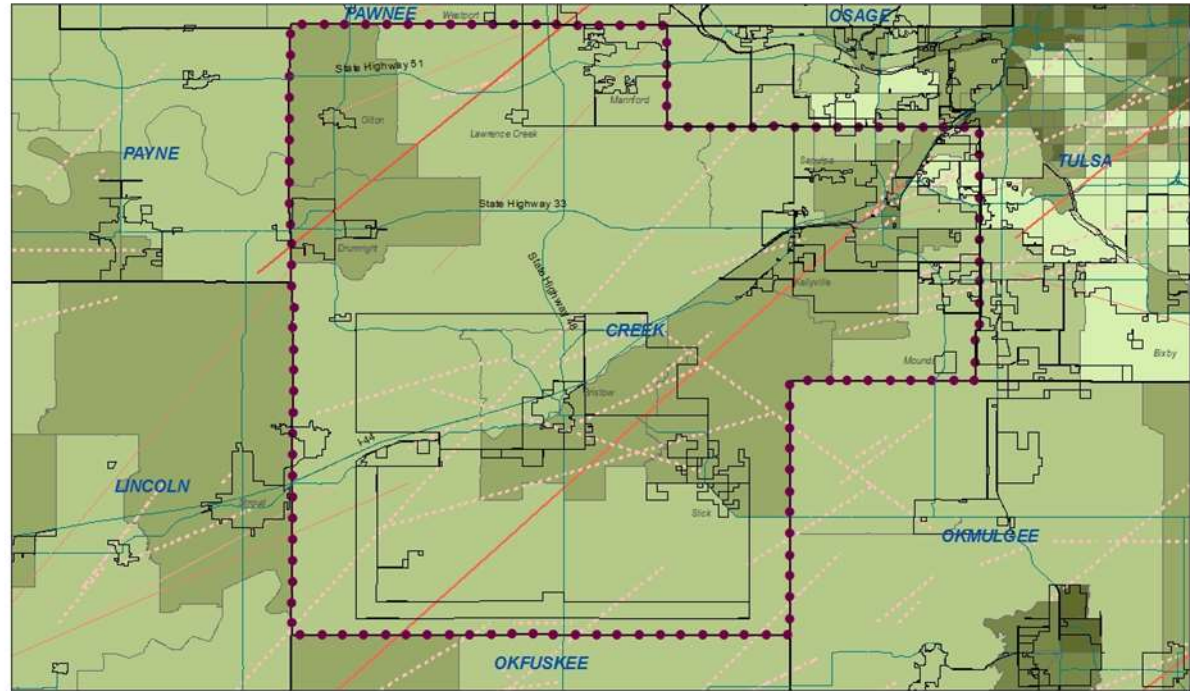
## Tornado Events 1950 - 2014

### Creek County

**# of injuries associated with event**



**Social Vulnerability Index**



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

19XX or 20XX Year of Event

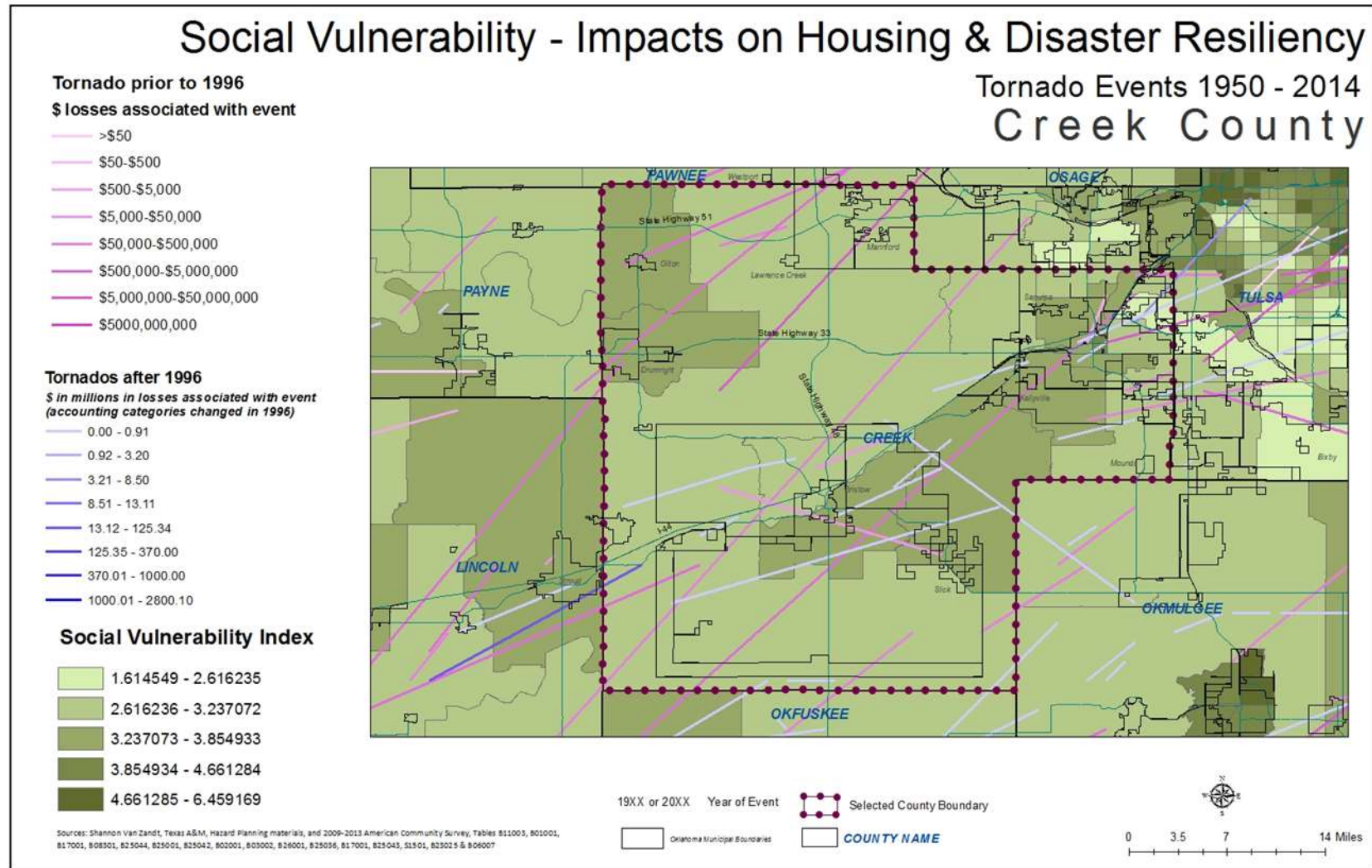
○ Oklahoma Municipal Boundaries

⬢ Selected County Boundary

□ COUNTY NAME



0 3.5 7 14 Miles



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

No public shelters were noted. However, the County HMP does include language to pursue addressing shelters for mobile home parks and encouraging through Safe Room Rebate program for individuals to have private shelters at home.

Storm shelter registration for Creek County:

[http://www.creekcountyonline.com/cem\\_files/CreekCountySafeRoomRegistration.pdf](http://www.creekcountyonline.com/cem_files/CreekCountySafeRoomRegistration.pdf)

### **C.2.1.3 Public Policy and Governance to Build Disaster Resiliency**

The Sapulpa comprehensive plan states directly that policies and planning should be in alignment with HMP for the city and county. Many provisions to avoid developing in flood-prone areas are supported.

### **C.2.1.4 Local Emergency Response Agency Structure**

### **C.2.1.5 Threat & Hazard Warning Systems**

The identified Threat & Hazard Warning Systems for Creek County include:

- Sirens
- Phone notification (Nixle)
- Emergency Broadcast System

City of Drumright included in their CIP in 2010 to replace older storm sirens.

City of Bristow included in the HMP to replace 2 sirens and add a

## Social Vulnerability

Based on the research work done by the Texas A&M University Hazard Reduction and Recovery Center [CITATION], 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 the

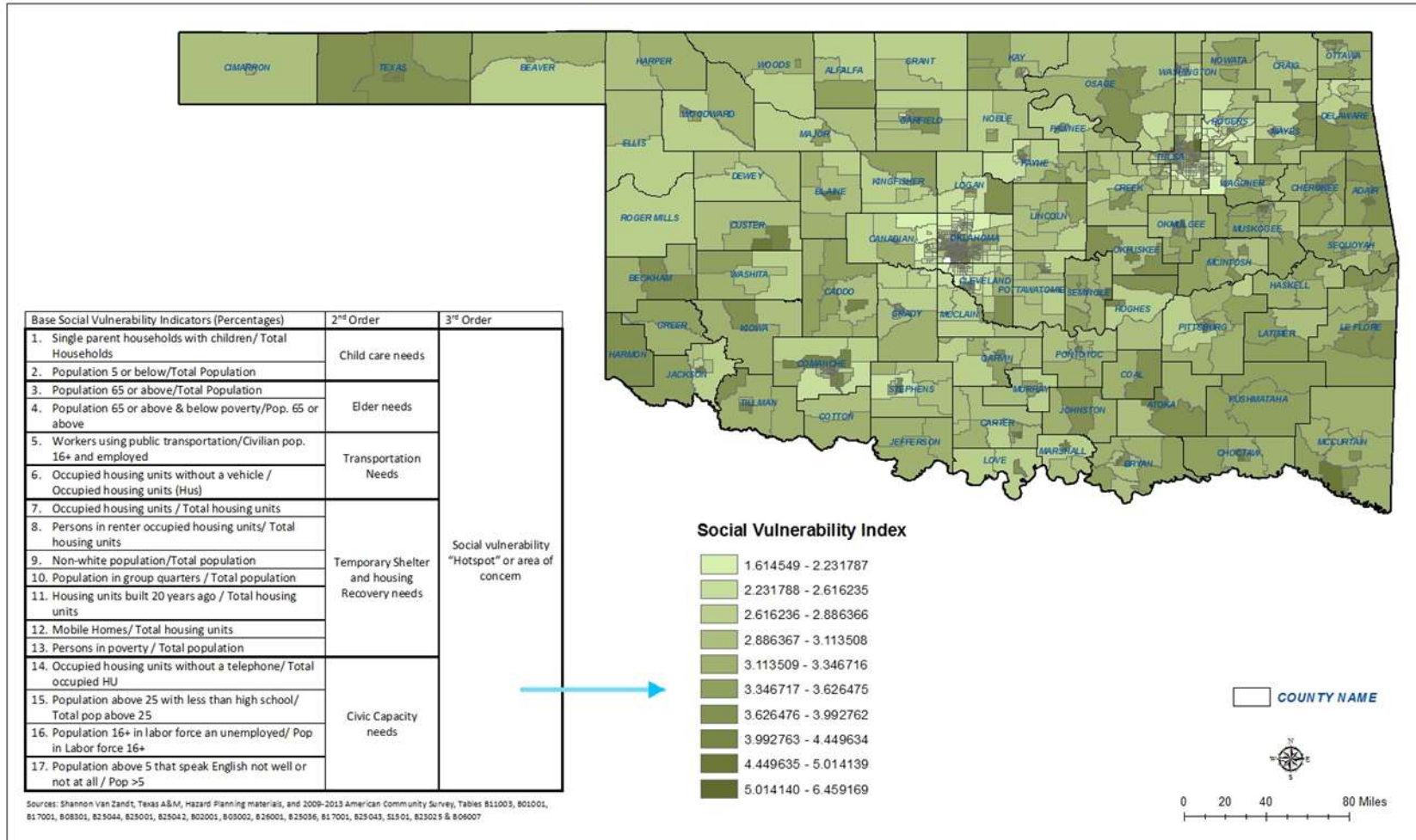
<b>Social Vulnerability Analysis - Creek County</b>		
<b>Base Social Vulnerability Indicators (%)</b>	<b>2nd Order</b>	<b>3rd Order</b>
1.) Single Parent Households	12.40%	<b>3.138 Social Vulnerability 'Hotspot' or Area of Concern</b>
2.) Population Under 5	6.26%	
3.) Population 65 or Above	15.55%	
4.) Population 65 or Above & Below Poverty Rate	9.38%	
5.) Workers Using Public Transportation	0.12%	
6.) Occupied Housing Units w/o Vehicle	4.32%	
7.) Housing Unit Occupancy Rate	88.40%	
8.) Rental Occupancy Rate	25.20%	
9.) Non-White Population	22.11%	
10.) Population in Group Quarters	1.13%	
11.) Housing Units Built Prior to 1990	68.82%	
12.) Mobile Homes, RVs, Vans, etc.	18.91%	
13.) Poverty Rate	14.72%	
14.) Housing Units Lacking Telephones	1.62%	
15.) Age 25+ With Less Than High School Diploma	15.20%	
16.) Unemployment Rate	8.69%	
17.) Age 5+ Which Cannot Speak English Well or Not At All	0.94%	

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

reof – can highlight places where additional work is needed to reduce impacts on households.



# Social Vulnerability - Impacts on Housing & Disaster Resiliency



# Social Vulnerability - Impacts on Housing & Disaster Resiliency

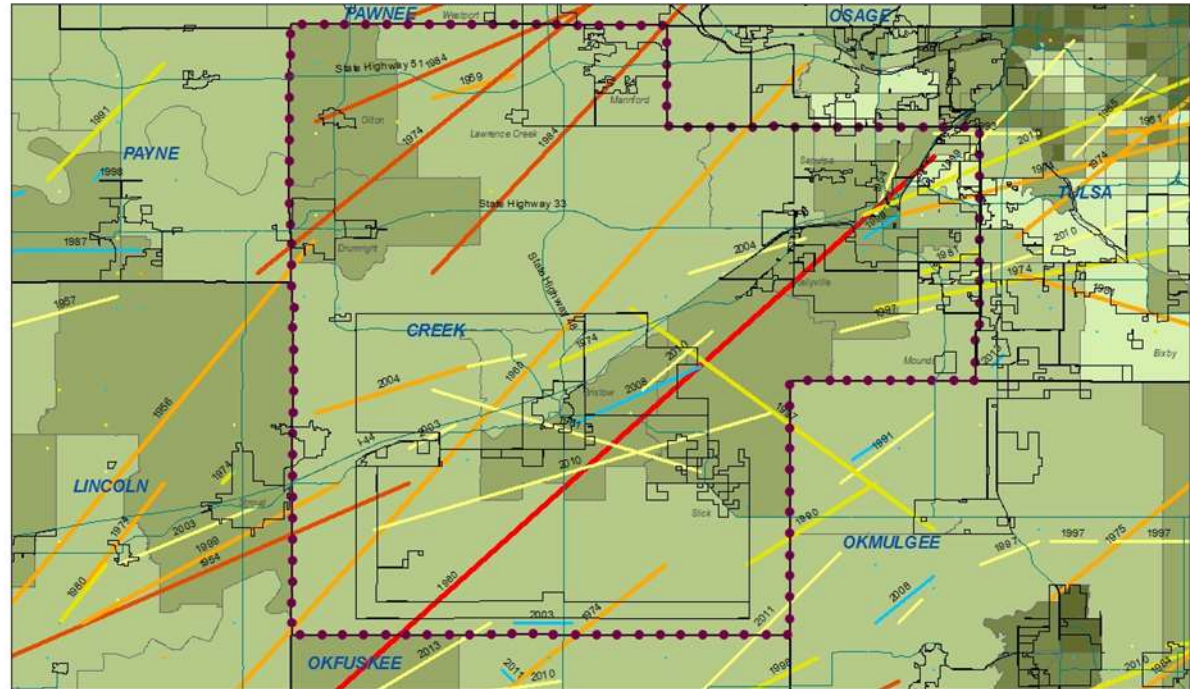
## Tornado Events 1950 - 2014

### Creek County

**Tornado Magnitude**



**Social Vulnerability Index**



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

19XX or 20XX Year of Event

□ Oklahoma Municipal Boundaries

● Selected County Boundary

□ COUNTY NAME



0 3.5 7 14 Miles



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 falls about average per this index for social vulnerability when comparing as a county to other counties in the state. There are several census tracts that have elevated social vulnerable scores and therefore attention during an event and as part of recovery should be directed in these areas.

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 Creek 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 500 North Central Oklahoma

OK 500 represents the north central region of Oklahoma, including Noble, Osage, Pawnee, Creek, Kay, Payne, Grant, Garfield counties and the City of Enid. There are approximately 136 homeless individuals in this area (100 of which are identified as sheltered). The majority of this population is over the age of 24. Most families with children are sheltered. There is no record of homeless youth and young adults in this region. The largest subpopulations of homeless in OK 500 include: the chronically homeless (29), chronic substance abusers (23), and domestic violence victims (24). The population of domestic violence victims in this area is disproportionately high, possibly because of the limited resources available in the region that address domestic violence.

There are a variety of shelter types available to the homeless in the North Central Oklahoma CoC. Eighty one of the beds are available for the sole purpose of emergency shelter to mixed populations. This CoC appears to have an ample supply of emergency shelter and transitional housing for homeless individuals and families. However, permanent housing options are significantly limited. More funds should be diverted to meet the long term housing needs of the mentally ill, substance abusers, and victims of domestic violence.

## OK 500 North Central OK

<b>OK 500 North Central OK</b>	<b>Emergency Shelter(sheltered)</b>	<b>Transitional Housing(sheltered)</b>	<b>Unsheltered</b>	<b>Total</b>
Households without children	38	29	29	96
Households with at least 1 adult & 1 child	14	19	7	40
Households with only children	0	0	0	0
<b>total homeless households</b>	52	48	36	136
<b>Persons in households without children</b>	38	29	29	96
persons age 18-24	6	8	8	22
persons over age 24	32	21	21	74
<b>Persons in households with at least 1 adult &amp; 1 child</b>	37	50	18	105
children under age 18	22	28	6	56
persons age 18-24	0	10	2	12
persons over 24	15	12	10	37
<b>persons in households with only 1 children</b>	0	0	0	0
<b>Total homeless persons</b>	75	79	47	201
<b>Subpopulations</b>	<b>Sheltered</b>		<b>Unsheltered</b>	<b>Total</b>
Chronically Homeless	24		5	29
Chronically Homeless Individuals	12		5	17
Chronically Homeless Persons in Families	12		0	12
Severely Mentally Ill	5		7	12
Chronic Substance Abuse	17		6	23
Veterans	7		4	11
HIV/AIDS	0		0	0
Victims of Domestic Violence	24		0	24

**CoC Number: OK-500****CoC Name: North Central Oklahoma CoC****Summary of all beds reported by Continuum of Care:**

	Family Units <sup>1</sup>	Family Beds <sup>1</sup>	Adult-Only Beds	Child-Only Beds	Total Yr-Round Beds	Seasonal	Overflow / Voucher	Subset of Total Bed Inventory		
								Chronic Beds <sup>2</sup>	Veteran Beds <sup>2</sup>	Youth Beds <sup>2</sup>
<b>Emergency, Safe Haven and Transitional Housing</b>	<b>50</b>	<b>138</b>	<b>97</b>	<b>0</b>	<b>235</b>	<b>0</b>	<b>26</b>	n/a	0	7
Emergency Shelter	29	75	52	0	127	0	26	n/a	0	0
Transitional Housing	21	63	45	0	108	n/a	n/a	n/a	0	7
<b>Permanent Housing</b>	<b>4</b>	<b>8</b>	<b>9</b>	<b>0</b>	<b>17</b>	<b>n/a</b>	<b>n/a</b>	<b>5</b>	<b>9</b>	<b>0</b>
Permanent Supportive Housing*	1	3	7	0	10	n/a	n/a	5	6	0
Rapid Re-Housing	3	5	2	0	7	n/a	n/a	n/a	3	0
<b>Grand Total</b>	<b>54</b>	<b>146</b>	<b>106</b>	<b>0</b>	<b>252</b>	<b>0</b>	<b>26</b>	<b>5</b>	<b>9</b>	<b>7</b>

**CoC beds reported by Program Type:****Emergency Shelter for Mixed Populations**

Provider Name	Facility Name	Family Units <sup>1</sup>	Family Beds <sup>2</sup>	Adult-Only Beds	Child-Only Beds	Seasonal	Overflow / Voucher	Total Beds	Subset of Total Bed Inventory		
									Chronic Beds <sup>2</sup>	Veteran Beds <sup>2</sup>	Youth Beds <sup>2</sup>
DVPNCO	Emergency Shelter	4	16	4	0	0	0	20	n/a	0	0
Peachtree Landing	Emergency Shelter	2	4	5	0	0	0	9	n/a	0	0
Stillwater DV Program	Emergency Shelter	8	16	2	0	0	0	18	n/a	0	0
YWCA of Enid	Emergency Shelter	8	24	10	0	0	0	34	n/a	0	0
<b>Total</b>		<b>22</b>	<b>60</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>81</b>	<b>n/a</b>	<b>0</b>	<b>0</b>

### **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 as 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 individuals likely classify as "couch homeless" and are in a continued state of being vulnerable to becoming homeless.

The PIC data indicates that there 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 personnel 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 <sup>1</sup>	1,652	376	575	2,603
Households with at least one adult and one child <sup>2</sup>	201	104	38	343
Households with only children <sup>3</sup>	35	0	39	74
<b>Total Homeless Households</b>	<b>1,888</b>	<b>480</b>	<b>652</b>	<b>3,020</b>

**Summary of persons in each household type:**

<b>Persons in households without children<sup>1</sup></b>	<b>1,676</b>	<b>397</b>	<b>623</b>	<b>2,696</b>
Persons Age 18 to 24	214	61	110	385
Persons Over Age 24	1,462	336	513	2,311
<b>Persons in households with at least one adult and one child<sup>2</sup></b>	<b>595</b>	<b>293</b>	<b>108</b>	<b>996</b>
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
<b>Persons in households with only children<sup>3</sup></b>	<b>38</b>	<b>0</b>	<b>47</b>	<b>85</b>
<b>Total Homeless Persons</b>	<b>2,309</b>	<b>690</b>	<b>778</b>	<b>3,777</b>

**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
<b>Total</b>	<b>2,309</b>	<b>690</b>	<b>778</b>	<b>3,777</b>

**Demographic summary by gender:**

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



## 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).

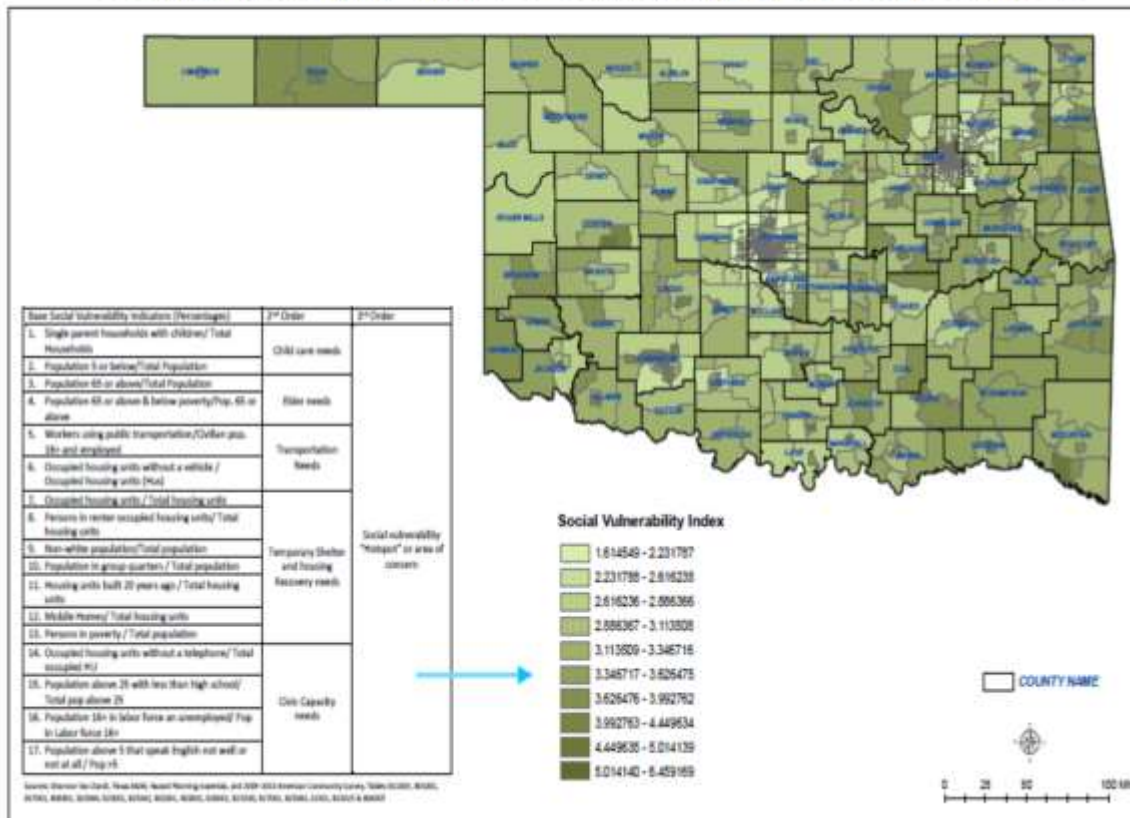
The absence of affordable housing in rural areas is a root cause of homelessness (Levinson, David, and Marcy Ross, 2007). In fact, it was noticed that many of the people were receiving monetary assistance or previously had some money saved up to spend on housing, but these measures were not enough to 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](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).

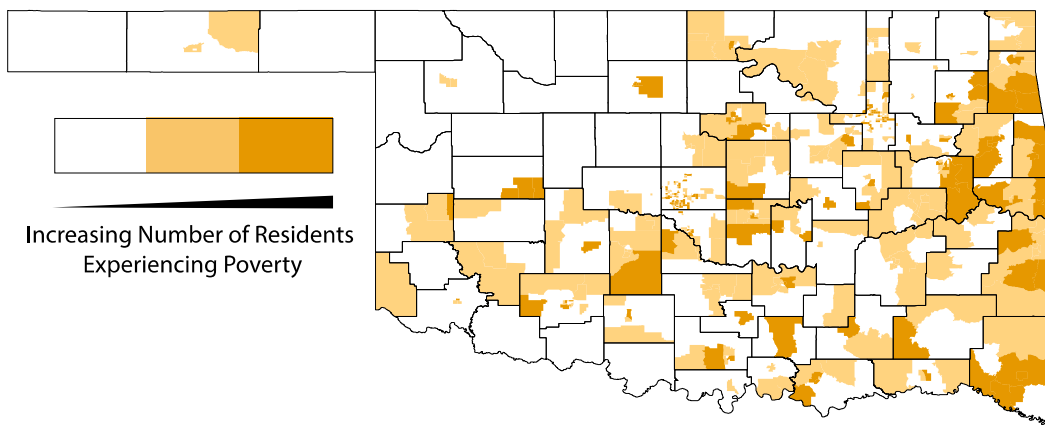
#### 1. Urban/Rural

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

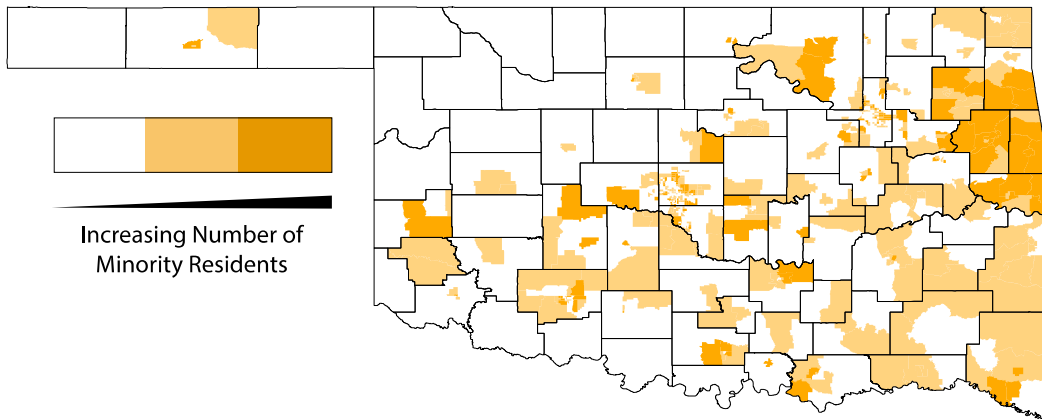
Approximately 70% of affordable housing units in Oklahoma are located in census tracts where the number of residents living in poverty is above the state average. About half of these units are located in areas of extreme poverty, where the number of individuals who are economically vulnerable exceeds 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

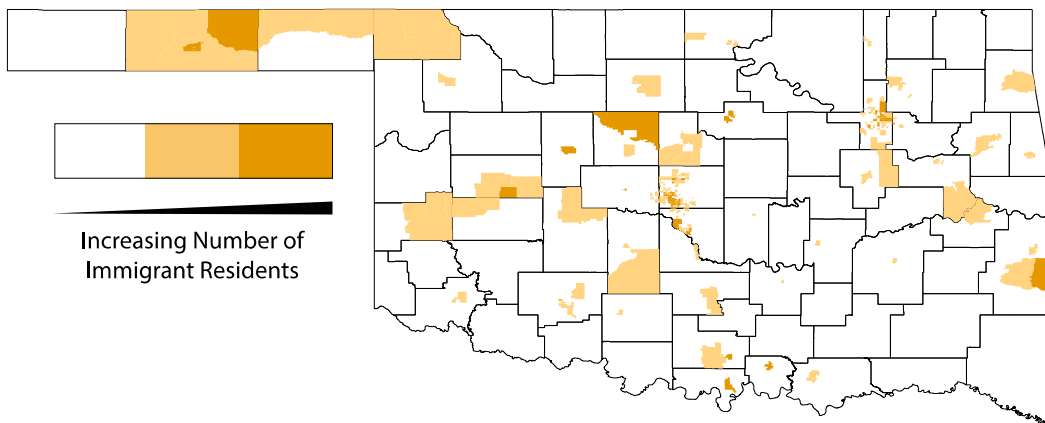
Just over 60% of affordable housing units in Oklahoma are located in census tracts where a majority of the residents are non-white. With just fewer than 24% of the total affordable housing units in census tracts heavily populated with residents who are not white – identified as census tracts where the 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

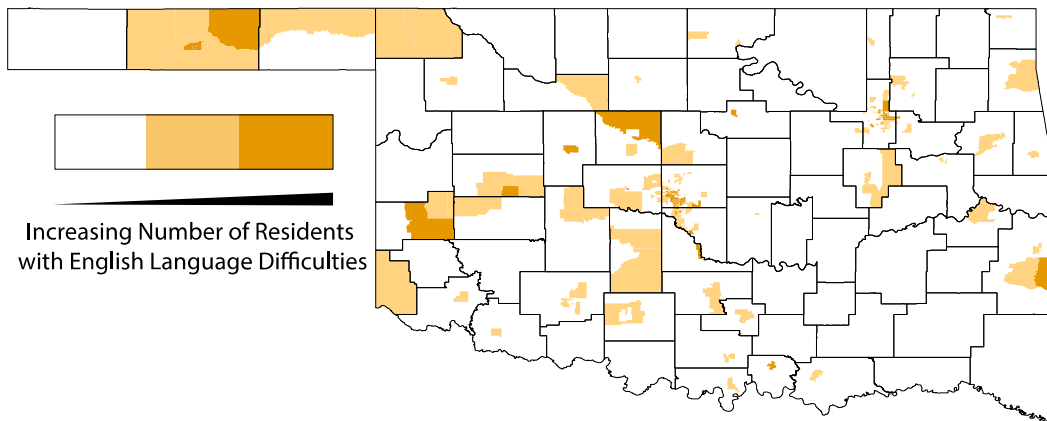
One-third of affordable housing units in Oklahoma are located in census tracts where more than the average number of residents are immigrants. About half of these units are located in areas dense with immigrants, where the number of individuals who are not citizen exceeds 349, more than one standard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

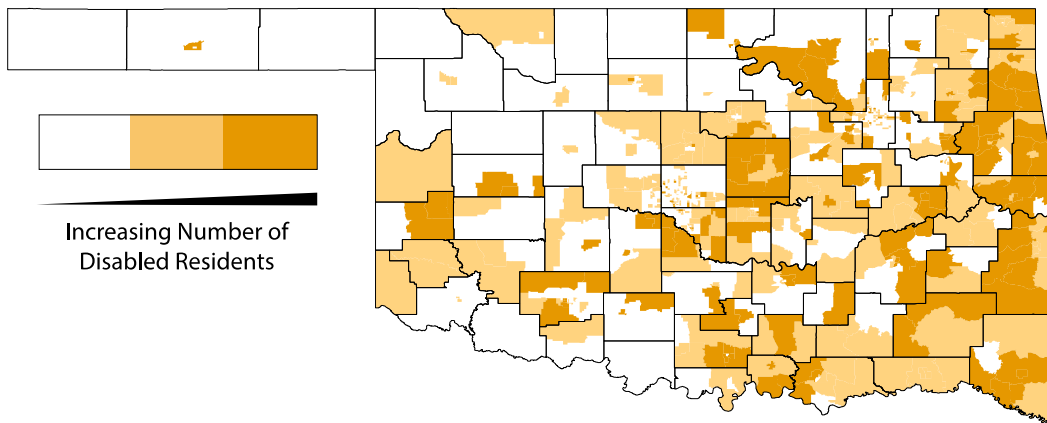
Almost 17,000 existing affordable housing units in Oklahoma are located in census tracts where more residents than average do not speak English very well. A little more than half of these units are located in areas dense with individuals with limited English proficiency, where the number of individuals 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

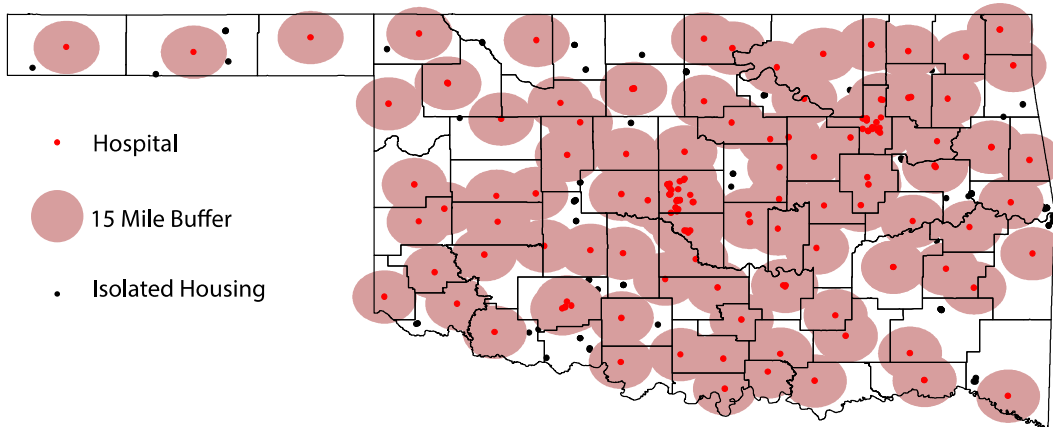
Almost 60% of existing affordable housing units in Oklahoma are located in census tracts where more residents than average have a disability. A little more than half of these units are located in areas dense with individuals with a disability, where the number of individuals who are disabled is greater 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.

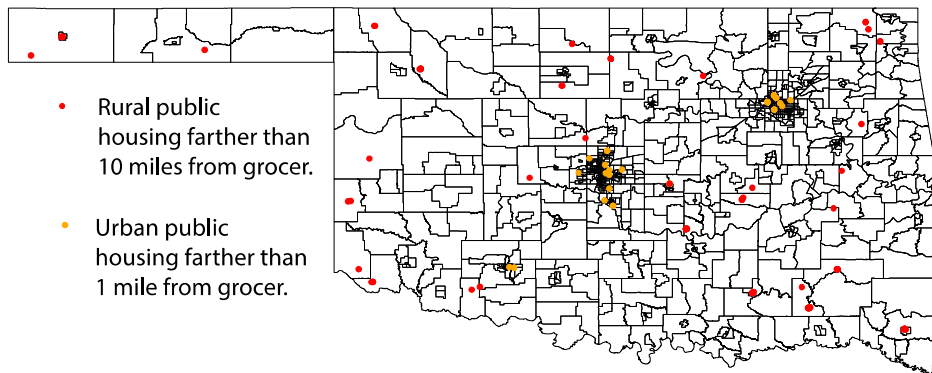


	Total Affordable Housing Units	More than 15 miles to nearest hospital	More than 30 miles to nearest hospital
OHFA	35,292	628 (1.8%)	0
515	5,384	500 (9.3%)	0
LIHTC	23,537	532 (2.3%)	0
Total	64,213	1,660 (2.6%)	0



8. Grocery Stores

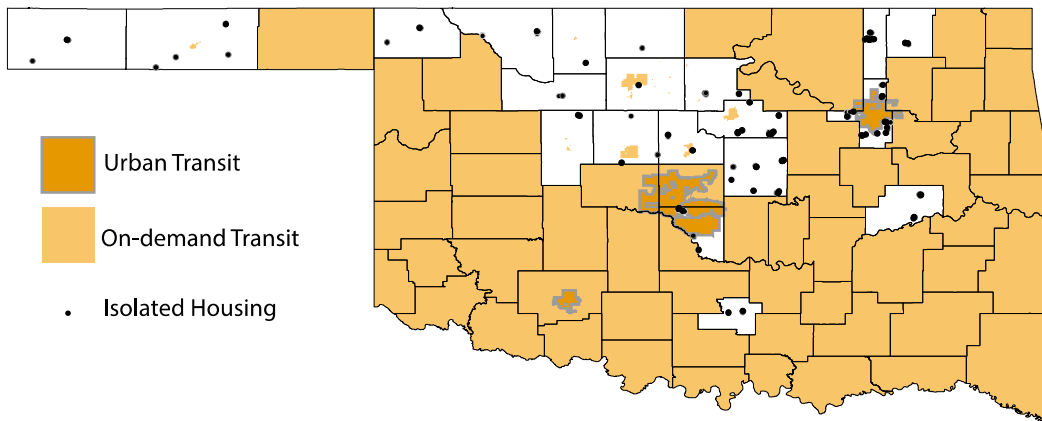
Approximately 7.8% of affordable housing units are in areas that are classified as food deserts. According to the United States Department of Agriculture, food deserts exist in urban environments further than 1 mile from a grocery store and in rural environments further than 10 miles from a grocery store (<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
<b>Creek</b>	<b>1,359</b>	<b>163</b>	<b>163</b>	<b>0</b>	<b>0</b>	<b>670</b>	<b>0</b>	<b>0</b>	<b>0</b>
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.

<b>Lead-Based Paint Hazards in Oklahoma</b>		
	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.

### **Creek County Findings**

The number of housing units in Creek 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 Creek 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.

<b>Housing Units in the South Census Region with Lead-Based Paint Hazards by Year of Construction</b>			
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%
<b>Total</b>	<b>38,996</b>	<b>6,067</b>	<b>15.6%</b>

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 Creek 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 Creek County.

<b>Total Housing Units in Creek County with Lead-Based Paint Hazards by Tenure</b>			
Total Owner-Occupied Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	10,151	3.57%	362
1960-1977	5,675	11.18%	635
1940-1959	2,050	38.48%	789
1939 or Earlier	1,750	63.38%	1,109
<b>Total</b>	<b>19,625</b>	<b>14.75%</b>	<b>2,894</b>
Total Renter-Occupied Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	2,409	3.57%	86
1960-1977	2,507	11.18%	280
1940-1959	1,135	38.48%	437
1939 or Earlier	700	63.38%	444
<b>Total</b>	<b>6,750</b>	<b>18.47%</b>	<b>1,246</b>
Total Housing Units	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	12,559	3.57%	448
1960-1977	8,181	11.18%	915
1940-1959	3,185	38.48%	1,225
1939 or Earlier	2,450	63.38%	1,553
<b>Total</b>	<b>26,375</b>	<b>15.70%</b>	<b>4,141</b>

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 Creek County with lead-based paint hazards, occupied by households with low-to-moderate incomes, by tenure:

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


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Owner-Occupied Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	1,561	3.57%	56
1960-1977	1,089	11.18%	122
1940-1959	580	38.48%	223
1939 or Earlier	410	63.38%	260
<b>Total</b>	<b>3,640</b>	<b>18.14%</b>	<b>660</b>

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Renter-Occupied Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	850	3.57%	30
1960-1977	1,035	11.18%	116
1940-1959	395	38.48%	152
1939 or Earlier	350	63.38%	222
<b>Total</b>	<b>2,630</b>	<b>19.77%</b>	<b>520</b>

---

Total Housing Units < 50% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	2,411	3.57%	86
1960-1977	2,124	11.18%	238
1940-1959	975	38.48%	375
1939 or Earlier	760	63.38%	482
<b>Total</b>	<b>6,270</b>	<b>18.82%</b>	<b>1,180</b>

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

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


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Owner-Occupied Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	1,618	3.57%	58
1960-1977	1,103	11.18%	123
1940-1959	480	38.48%	185
1939 or Earlier	410	63.38%	260
<b>Total</b>	<b>3,610</b>	<b>17.33%</b>	<b>625</b>

---

Renter-Occupied Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	558	3.57%	20
1960-1977	698	11.18%	78
1940-1959	415	38.48%	160
1939 or Earlier	105	63.38%	67
<b>Total</b>	<b>1,775</b>	<b>18.26%</b>	<b>324</b>

---

Total Housing Units 50%-80% AMI	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	2,175	3.57%	78
1960-1977	1,800	11.18%	201
1940-1959	895	38.48%	344
1939 or Earlier	515	63.38%	326
<b>Total</b>	<b>5,385</b>	<b>17.63%</b>	<b>950</b>

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

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To conclude, we estimate that there are a total of 4,141 homes in Creek County containing lead-based paint hazards, 2,894 owner-occupied and 1,246 renter-occupied. Of the 4,141 homes in the county estimated to have lead-based paint hazards, 1,180 are estimated to be occupied by households with low-incomes (incomes less than 50% of Area Median Income), and 950 are estimated to be occupied by households with moderate incomes (between 50% and 80% of Area Median Income), for a total of 2,130 housing units in Creek 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 Creek 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:



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**Housing Units in Creek 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	445	3.57%	16
1940-1977	385	19.98%	77
1939 or Earlier	130	63.38%	82
<b>Total</b>	<b>960</b>	<b>18.24%</b>	<b>175</b>

---

Housing Units 50%-80% AMI w/ Children under 6 Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	492	3.57%	18
1940-1977	518	19.98%	103
1939 or Earlier	55	63.38%	35
<b>Total</b>	<b>1,065</b>	<b>14.63%</b>	<b>156</b>

---

Total LMI Housing Units w/ Children Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	938	3.57%	33
1940-1977	903	19.98%	180
1939 or Earlier	185	63.38%	117
<b>Total</b>	<b>2,025</b>	<b>16.34%</b>	<b>331</b>

---

Total Housing Units w/ Children Present	Total Housing Units	Percent w/LBP Hazards	Number w/LBP Hazards
1978 or Later	2,475	3.57%	88
1940-1977	1,610	19.98%	322
1939 or Earlier	319	63.38%	202
<b>Total</b>	<b>4,404</b>	<b>13.90%</b>	<b>612</b>

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

As shown, we estimate there are 612 housing units in Creek County with lead-based paint hazards and children under the age of six present, and that 331 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

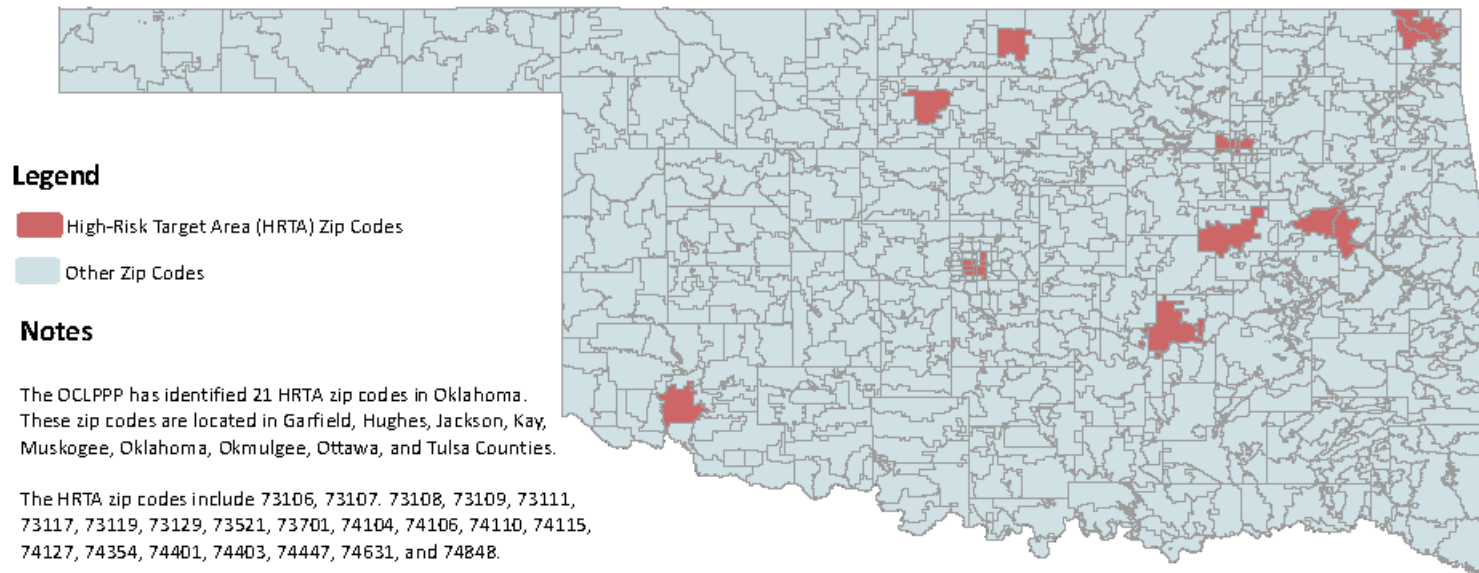
Oklahoma State Department of Health, Oklahoma Childhood Lead Poisoning Prevention Program Focusing in High Risk Groups"

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



**Legend**

- High-Risk Target Area (HRTA) Zip Codes
- Other Zip Codes

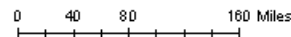
**Notes**

The OCLPPP has identified 21 HRTA zip codes in Oklahoma. These zip codes are located in Garfield, Hughes, Jackson, Kay, Muskogee, Oklahoma, Okmulgee, Ottawa, and Tulsa Counties.

The HRTA zip codes include 73106, 73107, 73108, 73109, 73111, 73117, 73119, 73129, 73521, 73701, 74104, 74106, 74110, 74115, 74127, 74354, 74401, 74403, 74447, 74631, and 74848.

The HRTA zip codes are identified using the following criteria:

- 1- Zip codes having the highest proportion of pre-1950 housing;
- 2- Zip codes having the highest proportion of children under six years of age living in poverty;
- 3- Zip codes having high elevated blood lead level (EBLL) prevalence rate; and
- 4- Zip codes having the highest proportion of minority populations.



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 Creek 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.

Creek County has undergone steady growth over the last fifteen years, in terms of population, households and employment levels. New population and employment growth has been met with new housing construction, both for rent and for ownership, and for the most part new housing construction appears to have kept pace with new housing demand. Notable new rental housing developments under construction include Walnut Park Manor (50 rental units for seniors) and Wickham Gardens (60 rental units for families), both of which will be affordable rental properties. There has been new construction of single family homes for ownership, and compared with many other communities in northeastern Oklahoma new homes are reasonably affordable, with many homes priced under \$150,000 and an average sale price of \$172,527, or \$98.55 per square foot.

Creek County has a relatively moderate rate of renters with high rent costs (30.79%) as well as homeowners with high ownership costs (19.50%). The county's poverty rate is also below the state, at 14.72% compared with 16.85% statewide.

In terms of disaster resiliency we note that 64 tornadoes have impacted the county between 1959 and 2014, with 526 injuries and 30 fatalities combined. Many communities in Creek County have notable development in or near floodplains, including Sapulpa, Drumright, Mannford, Bristow and Slick. We note that the Sapulpa Hazard Mitigation Plan is very well connected with its comprehensive plan.

Creek County is located within the North Central Oklahoma Continuum of Care (CoC), which provides services to the area's homeless populations among other functions. Throughout the entire North Central Oklahoma CoC, there are an estimated 201 homeless persons, 154 of which are estimated to be sheltered. This Continuum of Care has large subpopulations of the chronically homeless, chronic substance abusers, and victims of domestic violence, with little in the way of permanent housing options.

In terms of fair housing issues, many affordable housing units are located in areas at risk for poverty, in primarily non-white enclaves, and in areas with high numbers of persons with one or more disabilities.

Due to the age of the county's housing stock, lead-based paint hazards are an issue, with an estimated 4,141 occupied housing units with such hazards, and 612 of those units occupied by low-to-moderate income households with children under the age of 6 present.

In summary, it is apparent that new housing in several categories is required in Creek County. As the population continues to grow in Creek County as a whole, this demand will continue to increase. We estimate the county will need 370 housing units for ownership and 125 housing units for rent over the next five years, in order to accommodate projected population and household growth. These units should include a mixture of both market rate rental units, affordable housing units, and housing for ownership affordable to a range of incomes.

**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

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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  
District Court of Oklahoma County, Oklahoma  
District Court of Garfield County, Oklahoma  
Tulsa County Board of Equalization

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## Owen S. Ard, MAI

### Qualified Before Courts & Administrative Bodies (Cont'd)

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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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# Integra Realty Resources, Inc.

## 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  
BOSTON, MA - David L. Cary, Jr., MAI, MRICS  
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  
DENVER, CO - Brad A. Weiman, MAI, FRICS  
DETROIT, MI - Anthony Sanna, MAI, CRE, FRICS  
FORT WORTH, TX - Gregory B. Cook, SR/WA  
GREENSBORO, NC - Nancy Tritt, MAI, SRA, FRICS  
GREENVILLE, SC - Michael B. Dodds, MAI, CCIM  
HARTFORD, CT - Mark F. Bates, MAI, CRE, FRICS  
HOUSTON, TX - David R. Dominy, MAI, CRE, FRICS  
INDIANAPOLIS, IN - Michael C. Lady, MAI, SRA, CCIM, FRICS  
JACKSON, MS - John R. Praytor, MAI  
JACKSONVILLE, FL - Robert Crenshaw, MAI, FRICS  
KANSAS CITY, MO/KS - Kenneth Jagers, MAI, FRICS  
LAS VEGAS, NV - Charles E. Jack IV, MAI  
LOS ANGELES, CA - John G. Ellis, MAI, CRE, FRICS  
LOS ANGELES, CA - Matthew J. Swanson, MAI  
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MINNEAPOLIS, MN - Michael F. Amundson, MAI, CCIM, FRICS  
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NEW JERSEY NORTHERN - Matthew S. Krauser, CRE, FRICS  
NEW YORK, NY - Raymond T. Cirz, MAI, CRE, FRICS  
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PHILADELPHIA, PA - Joseph D. Pasquarella, MAI, CRE, FRICS  
PHOENIX, AZ - Walter "Tres" Winius III, MAI, FRICS  
PITTSBURGH, PA - Paul D. Griffith, MAI, CRE, FRICS  
PORTLAND, OR - Brian A. Glanville, MAI, CRE, FRICS  
PROVIDENCE, RI - Gerard H. McDonough, MAI, FRICS  
RALEIGH, NC - Chris R. Morris, MAI, FRICS  
RICHMOND, VA - Kenneth L. Brown, MAI, CCIM, FRICS  
SACRAMENTO, CA - Scott Beebe, MAI, FRICS  
ST. LOUIS, MO - P. Ryan McDonald, MAI, FRICS  
SALT LAKE CITY, UT - Darrin W. Liddell, MAI, FRICS, CCIM  
SAN DIEGO, CA - Jeff A. Greenwald, MAI, SRA, FRICS  
SAN FRANCISCO, CA - Jan Kleczewski, MAI, FRICS  
SARASOTA, FL - Carlton J. Lloyd, MAI, FRICS  
SAVANNAH, GA - J. Carl Schultz, Jr., MAI, FRICS, CRE, SRA  
SEATTLE, WA - Allen N. Safer, MAI, MRICS  
SYRACUSE, NY - William J. Kimball, MAI, FRICS  
TAMPA, FL - Bradford L. Johnson, MAI, MRICS  
TULSA, OK - Owen S. Ard, MAI  
WASHINGTON, DC - Patrick C. Kerr, MAI, FRICS, SRA  
WILMINGTON, DE - Douglas L. Nickel, MAI, FRICS  
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**DAWN EVE JOURDAN, ESQ., PH.D.**

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Regional and City Planning  
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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.

**WORK EXPERIENCE:**

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)

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)  
Attorney-Client Communications (undergraduate level, at Florida State University)  
Legal Communications (undergraduate level, at Florida State University)  
Environmental Law (continuing education, at Rutgers University)  
Historic Preservation Law (continuing education, at Rutgers University)  
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.

**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)  
Attorney-Client Communications (undergraduate level, at Florida State University)  
Legal Communications (undergraduate level, at Florida State University)  
Environmental Law (continuing education, at Rutgers University)  
Historic Preservation Law (continuing education, at Rutgers University)  
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.

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

**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**

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**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)



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**

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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**

---

<b>Assistant Professor - University of Oklahoma</b>		<b>Fall 2009 – to present</b>
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**

---

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

**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

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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 82<sup>nd</sup> 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

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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

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*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

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*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

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

### Education

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

### Publications

<b>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</b>	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	
<b>The Prevalence of Harmful Content on Outdoor Advertising in Los Angeles: Land use, community characteristics, and the spatial inequality of a public health nuisance</b>	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

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- 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*



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

