

**Housing Needs Assessment**  
**McIntosh 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:**

August 27, 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.





January 25, 2016

Mr. Dennis Shockley, Executive Director  
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SUBJECT:       Housing Needs Assessment  
                  McIntosh County  
                  IRR - Tulsa/OKC File No. 140-2015-0062

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 McIntosh County Residential Housing Market Analysis. Analyst Salma Al Nairab personally inspected the McIntosh County area during the month of August 2015 to collect the data used in the preparation of the McIntosh 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  
January 25, 2016  
Page 2

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

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

Respectfully submitted,

**Integra Realty Resources - Tulsa/OKC**

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# Table of Contents

|  |           |   |           |
|--|-----------|---|-----------|
| <b>Introduction and Executive Summary</b>      | <b>1</b>  | Housing Units by Year of Construction and Tenure            | 29        |
| <b>General Information</b>                     | <b>4</b>  | Substandard Housing   | 30        |
| Purpose and Function of the Market Study       | 4         | Vacancy Rates   | 31        |
| Effective Date of Consultation                 | 4         | Building Permits  | 32        |
| Scope of the Assignment                        | 4         | New Construction Activity                                   | 32        |
| Data Sources                                   | 4         | Homeownership Market  | 34        |
| <b>McIntosh County Analysis</b>                | <b>6</b>  | Housing Units by Home Value                                 | 34        |
| Area Information                               | 6         | McIntosh County Median Home Values by Census Tract          | 35        |
| Access and Linkages                            | 6         | Home Values by Year of Construction                         | 36        |
| Educational Facilities                         | 7         | Eufaula Single Family Sales Activity                        | 36        |
| Medical Facilities                             | 7         | Foreclosure Rates   | 37        |
| Demographic Analysis                           | 10        | Rental Market   | 39        |
| Population and Households                      | 10        | Gross Rent Levels   | 39        |
| Population by Race and Ethnicity               | 11        | Eufaula Rental Survey Data                                  | 40        |
| Population by Age                              | 11        | Rental Market Vacancy – Eufaula                             | 40        |
| Families by Presence of Children               | 13        | Summary of HUD Subsidized Properties                        | 43        |
| Population by Presence of Disabilities         | 13        | <b>Projected Housing Need</b>                               | <b>48</b> |
| Group Quarters Population                      | 15        | Consolidated Housing Affordability Strategy (CHAS)          | 48        |
| Household Income Levels                        | 15        | Cost Burden by Income Threshold                             | 48        |
| Household Income Trend                         | 17        | Substandard Conditions / Overcrowding by Income Threshold   | 50        |
| Poverty Rates                                  | 18        | Cost Burden by Household Type                               | 53        |
| <b>Economic Conditions</b>                     | <b>19</b> | Housing Problems by Household Type                          | 55        |
| Employment and Unemployment                    | 19        | Housing Problems by Race / Ethnicity                        | 57        |
| Employment Level Trends                        | 19        | CHAS Conclusions  | 59        |
| Unemployment Rate Trends                       | 20        | Overall Anticipated Housing Demand                          | 60        |
| Employment and Wages by Industrial Supersector | 21        | Eufaula Anticipated Demand                                  | 60        |
| Working Families                               | 24        | McIntosh County Anticipated Demand                          | 60        |
| Major Employers                                | 25        | Housing Demand – Population Subsets                         | 62        |
| Commuting Patterns                             | 25        | Housing Needs by Income Thresholds                          | 62        |
| <b>Housing Stock Analysis</b>                  | <b>27</b> | Elderly Housing Needs                                       | 62        |
| Existing Housing Units                         | 27        | Housing Needs for Persons with Disabilities / Special Needs | 62        |
| Housing by Units in Structure                  | 27        | Housing Needs for Veterans                                  | 63        |
| Housing Units Number of Bedrooms and Tenure    | 28        | Housing Needs for Working Families                          | 63        |
| Housing Units Tenure and Household Income      | 28        | Population Subset Conclusions                               | 63        |

# Table of Contents

|   |            |
|---|------------|
| <b>Special Topics</b>   | <b>65</b>  |
| McIntosh County Disaster Resiliency Assessment                    | 66         |
| C.0 Comprehensive Plans & Hazard Mitigation Plans                 | 66         |
| C.2.1.1. Historical Data on Natural Disasters and Other Hazards   | 66         |
| C.2.1.2; C.2.1.6; C.2.1.7;C.2.1.8 Shelters from Disaster Event    | 71         |
| C.2.1.3 Public Policy and Governance to Build Disaster Resiliency | 71         |
| C.2.1.4 Local Emergency Response Agency Structure                 | 71         |
| C.2.1.5 Threat & Hazard Warning Systems                           | 71         |
| Social Vulnerability  | 72         |
| Homelessness  | 77         |
| By Continuum of Care  | 77         |
| A Snap Shot of Homelessness in the State                          | 80         |
| Rural Areas   | 84         |
| At Risk For Homelessness  | 86         |
| Findings and Recommendations                                      | 88         |
| Fair Housing  | 91         |
| Summary   | 91         |
| Key Findings:   | 91         |
| Recommendations:  | 91         |
| Appendix 1: County affordable housing Summaries                   | 106        |
| Lead-Based Paint Hazards  | 110        |
| McIntosh County Findings  | 112        |
| <b>Conclusions</b>  | <b>123</b> |
| <b>Addenda</b>  |            |
| A. Acknowledgments  |            |
| B. Qualifications   |            |

# Introduction and Executive Summary

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

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

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

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

## **Housing Market Analysis Specific Findings:**

1. The population of McIntosh County is projected to grow by 0.43% per year over the next five years, underperforming the State of Oklahoma.
2. McIntosh County is projected to need a total of 162 housing units for ownership and 41 housing units for rent over the next five years.
3. Median Household Income in McIntosh County is estimated to be \$37,531 in 2015, compared with \$47,049 estimated for the State of Oklahoma. The poverty rate in McIntosh County is estimated to be 20.73%, compared with 16.85% for Oklahoma.
4. Homeowner and rental vacancy rates in Caddo County are higher than the state averages. A large number of vacant housing units in McIntosh County are for seasonal or recreational use due to the influence of Lake Eufaula.
5. Home values and rental rates in Caddo County are lower than the state averages.
6. The average sale price in Eufaula in 2015 is estimated to be \$82,289, or \$65.67 per square foot. The average year of construction for homes sold in 2015 is estimated to be 1958.

7. Approximately 40.29% of renters and 19.83% of owners are housing cost overburdened.

**Disaster Resiliency Specific Findings:**

1. Maintain the county HMP
2. Tornadoes (1959-2014): Number:46 Injuries: 19 Fatalities: 2 Damages (1996-2014): \$4,290,000.00
3. Social Vulnerability: Similar to the state score; at the census tract level, the western portion of the county have particularly higher scores
4. Floodplain: updated flood maps not available.

**Homelessness Specific Findings**

1. McIntosh County is located in the Southeastern Oklahoma Continuum of Care.
2. There are an estimated 442 homeless individuals in this area, 225 of which are identified as sheltered.
3. There is a high rate of homelessness in this region, most of which seek shelter in small towns and rural areas.
4. Many of the homeless in this CoC are classified as chronically homeless (73).
5. Other significant homeless subpopulations include the mentally ill (49) and chronic substance abusers (50).

**Fair Housing Specific Findings**

1. Units nearer elevated number of disabled persons: 169
2. Units that lack readily available transit: 488

**Lead-Based Paint Specific Findings**

3. We estimate there are 1,295 occupied housing units in McIntosh County with lead-based paint hazards.
4. 678 of those housing units are estimated to be occupied by low-to-moderate income households.
5. We estimate that 136 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 McIntosh 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 McIntosh 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 McIntosh 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 McIntosh County, Oklahoma. The analysis will consider existing supply and projected demand and overall market trends in the McIntosh County area.

## Effective Date of Consultation

The McIntosh County area was inspected and research was performed during August, 2015. The effective date of this analysis is August 27, 2015. The date of this report is January 25, 2016. The market study is valid only as of the stated effective date or dates.

## Scope of the Assignment

1. The McIntosh County area was inspected during August, 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



# McIntosh County Analysis

## Area Information

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

McIntosh County is located in eastern Oklahoma. The county is bordered on the north by Muskogee and Okmulgee Counties, on the west by Okmulgee, Okfuskee, and Hughes Counties, on the south by Pittsburg and Haskell Counties, and on the east by Muskogee County. The McIntosh County Seat is Eufaula, which is located in the southern part of the county. This location is approximately 83 miles southeast of Tulsa and 128 miles east of Oklahoma City.

McIntosh County has a total area of 712 square miles (618 square miles of land, and 94 square miles of water), ranking 53rd out of Oklahoma's 77 counties in terms of total area. The total population of McIntosh County as of the 2010 Census was 20,252 persons, for a population density of 33 persons per square mile of land.

## Access and Linkages

The county has above average accessibility to state and national highway systems. Multiple major highways intersect within McIntosh. These are I-40, US 62, US-69, and OK-9. The nearest interstate highway is I-40, which runs through the northern portion of the county.

Public transportation is provided by the Ki Bois Area Transit System (KATS), which operates a demand-responsive transportation service. KATS operates within McIntosh County, as well as throughout the surrounding 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.

The Eufaula Municipal Airport is located north of Eufaula. The airport has an asphalt runway and averages 33 aircraft operations per day. The nearest full service commercial airport is the Tulsa International Airport, approximately 82 miles away. Further, the Fort Smith Regional Airport is located 84.9

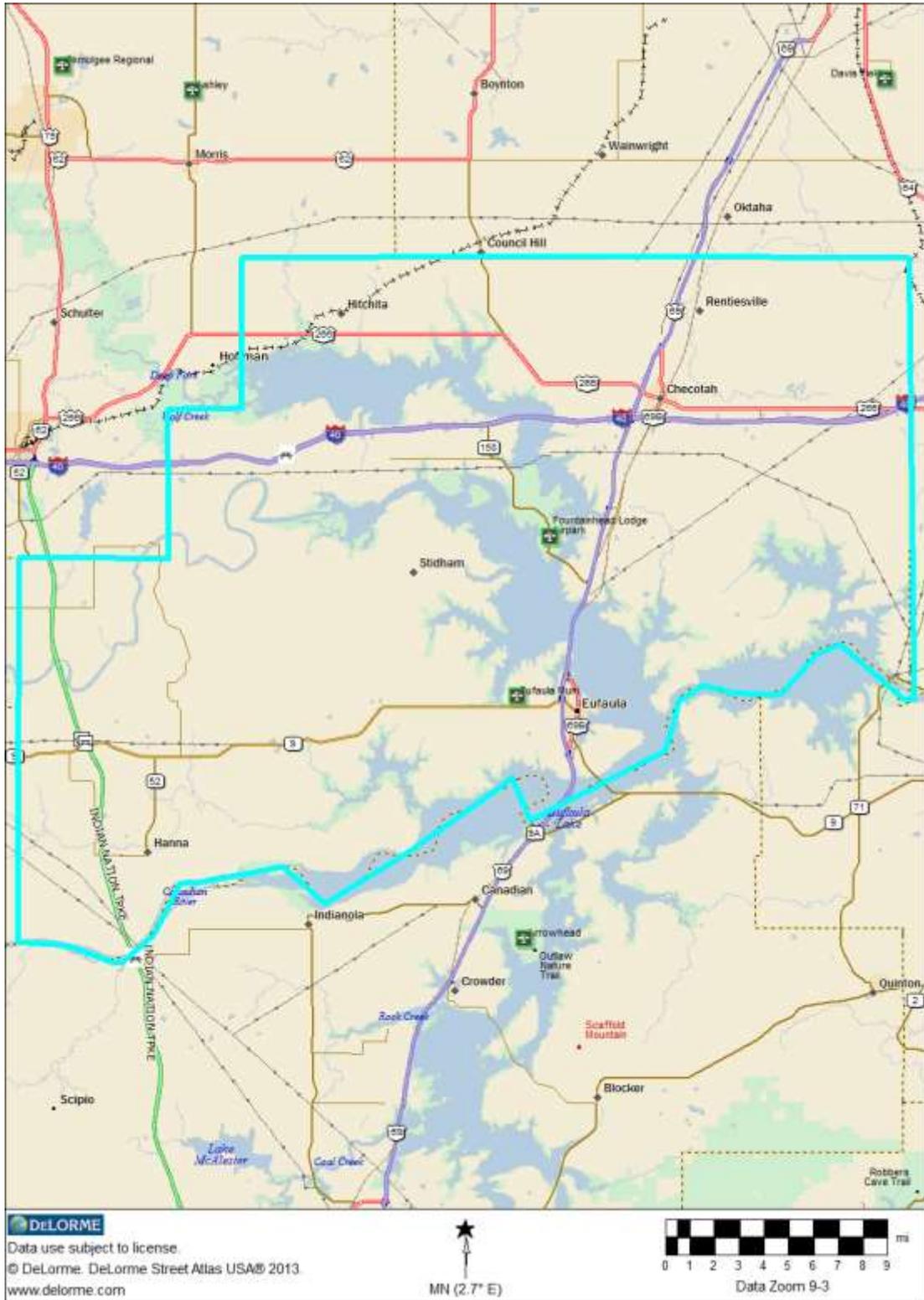
**Educational Facilities**

All of the county communities have public school facilities. Eufaula is served by Eufaula Public Schools. Eufaula Public Schools is comprised of one elementary, middle, and high school. The nearest higher education opportunities to McIntosh County are Connors State College in Warner, Eastern Oklahoma State College in Wilburton (EOSC also operates a satellite campus in McAlester), and Oklahoma State University Institute of Technology in Okmulgee.

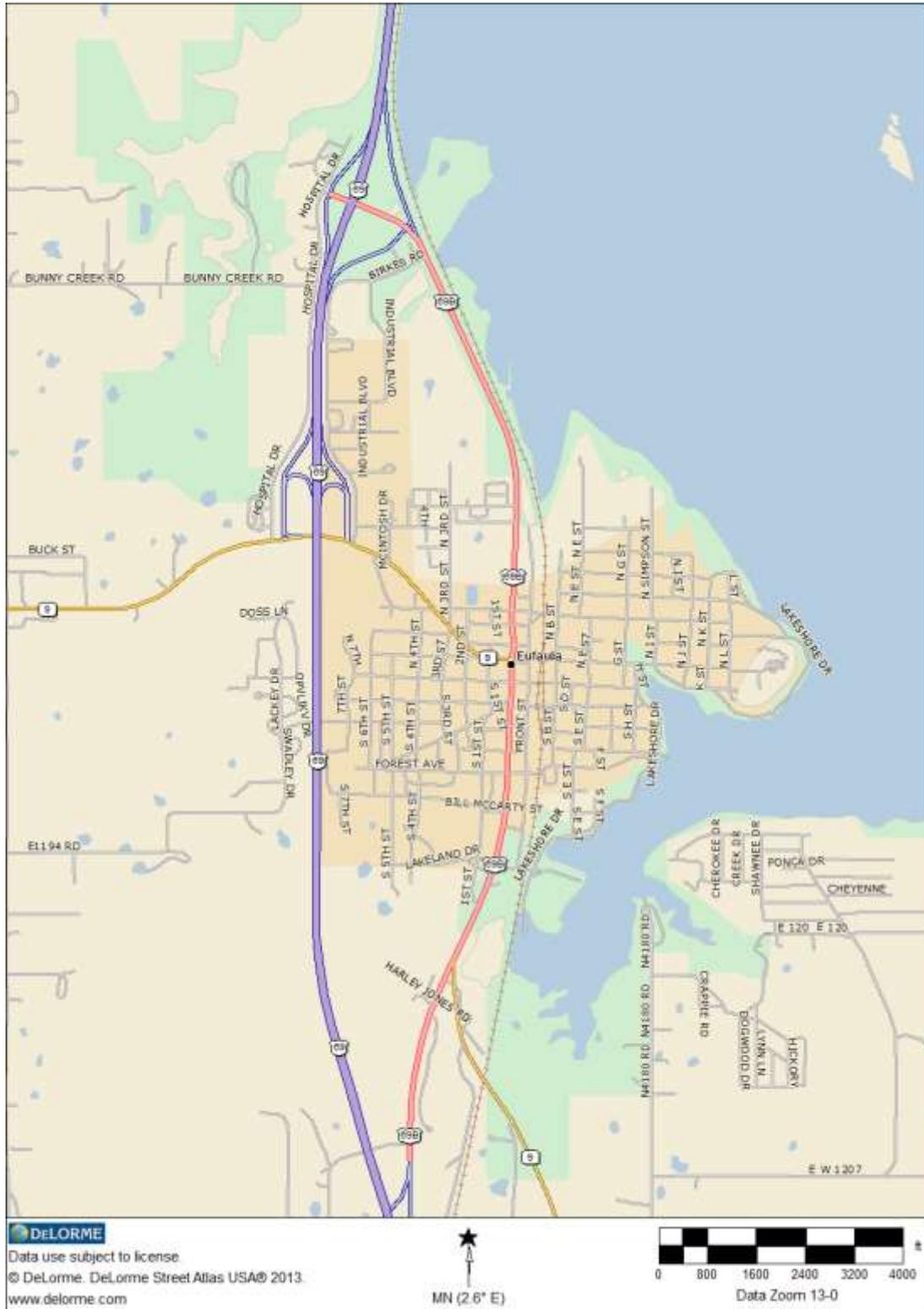
**Medical Facilities**

Medical services are provided by the Epic Medical Center, providing Eufaula with emergency care, in and out-patient procedures, and additional medical services. Additionally, the Eufaula Indian health Center is located in the southern portion of the city. The smaller county communities typically have either small outpatient medical services or doctor's officing in the community.

### McIntosh County Area Map



### Eufaula Area Map



## Demographic Analysis

### Population and Households

The following table presents population levels and annualized changes in McIntosh 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 |
| Eufaula                                     | 2,639     | 2,813     | 0.64%  | 2,870     | 0.40%  | 2,912     | 0.29%  |
| McIntosh County                             | 19,456    | 20,252    | 0.40%  | 20,545    | 0.29%  | 20,987    | 0.43%  |
| 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 McIntosh County was 20,252 persons as of the 2010 Census, a 0.40% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of McIntosh County to be 20,545 persons, and projects that the population will show 0.43% annualized growth over the next five years.

The population of Eufaula was 2,813 persons as of the 2010 Census, a 0.64% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Eufaula to be 2,870 persons, and projects that the population will show 0.29% annualized growth over the next five years.

The next table presents data regarding household levels in McIntosh 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 |
| Eufaula                                     | 1,150     | 1,177     | 0.23%  | 1,204     | 0.45%  | 1,224     | 0.33%  |
| McIntosh County                             | 8,085     | 8,460     | 0.45%  | 8,602     | 0.33%  | 8,805     | 0.47%  |
| 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 |
| Eufaula                                     | 663       | 705       | 0.62%  | 728       | 0.64%  | 739       | 0.30%  |
| McIntosh County                             | 5,685     | 5,771     | 0.15%  | 5,865     | 0.32%  | 5,999     | 0.45%  |
| 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, McIntosh County had a total of 8,460 households, representing a 0.45% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates McIntosh County to have 8,602 households. This number is expected to experience a 0.47% annualized rate of growth over the next five years.

As of 2010, Eufaula had a total of 1,177 households, representing a 0.23% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Eufaula to have 1,204 households. This number is expected to experience a 0.33% 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 McIntosh 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>Eufaula</b> |                | <b>McIntosh County</b> |                |
|  | <b>No.</b>     | <b>Percent</b> | <b>No.</b>             | <b>Percent</b> |
| Total Population                               | 2,855          |                | 20,358                 |                |
| White Alone                                    | 1,559          | 54.61%         | 14,312                 | 70.30%         |
| Black or African American Alone                | 147            | 5.15%          | 698                    | 3.43%          |
| Amer. Indian or Alaska Native Alone            | 592            | 20.74%         | 3,024                  | 14.85%         |
| Asian Alone                                    | 26             | 0.91%          | 76                     | 0.37%          |
| Native Hawaiian and Other Pac. Isl. Alone      | 0              | 0.00%          | 0                      | 0.00%          |
| Some Other Race Alone                          | 2              | 0.07%          | 10                     | 0.05%          |
| Two or More Races                              | 529            | 18.53%         | 2,238                  | 10.99%         |
| <b>Population by Hispanic or Latino Origin</b> | <b>Eufaula</b> |                | <b>McIntosh County</b> |                |
|  | <b>No.</b>     | <b>Percent</b> | <b>No.</b>             | <b>Percent</b> |
| Total Population                               | 2,855          |                | 20,358                 |                |
| Hispanic or Latino                             | 80             | 2.80%          | 441                    | 2.17%          |
| <i>Hispanic or Latino, White Alone</i>         | 22             | 27.50%         | 243                    | 55.10%         |
| <i>Hispanic or Latino, All Other Races</i>     | 58             | 72.50%         | 198                    | 44.90%         |
| Not Hispanic or Latino                         | 2,775          | 97.20%         | 19,917                 | 97.83%         |
| <i>Not Hispanic or Latino, White Alone</i>     | 1,537          | 55.39%         | 14,069                 | 70.64%         |
| <i>Not Hispanic or Latino, All Other Races</i> | 1,238          | 44.61%         | 5,848                  | 29.36%         |

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

In McIntosh County, racial and ethnic minorities comprise 30.89% of the total population. Within Eufaula, racial and ethnic minorities represent 46.16% of the population.

### Population by Age

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

| <b>McIntosh 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>                 | 20,252       |               | 20,545       |               | 20,987       |               |              |              |
| Age 0 - 4                                | 1,069        | 5.28%         | 1,026        | 4.99%         | 1,060        | 5.05%         | -0.82%       | 0.65%        |
| Age 5 - 9                                | 1,138        | 5.62%         | 1,085        | 5.28%         | 1,045        | 4.98%         | -0.95%       | -0.75%       |
| Age 10 - 14                              | 1,253        | 6.19%         | 1,204        | 5.86%         | 1,107        | 5.27%         | -0.79%       | -1.67%       |
| Age 15 - 17                              | 797          | 3.94%         | 778          | 3.79%         | 769          | 3.66%         | -0.48%       | -0.23%       |
| Age 18 - 20                              | 605          | 2.99%         | 670          | 3.26%         | 719          | 3.43%         | 2.06%        | 1.42%        |
| Age 21 - 24                              | 692          | 3.42%         | 873          | 4.25%         | 1,017        | 4.85%         | 4.76%        | 3.10%        |
| Age 25 - 34                              | 1,894        | 9.35%         | 1,909        | 9.29%         | 2,059        | 9.81%         | 0.16%        | 1.52%        |
| Age 35 - 44                              | 2,148        | 10.61%        | 1,949        | 9.49%         | 1,920        | 9.15%         | -1.93%       | -0.30%       |
| Age 45 - 54                              | 3,103        | 15.32%        | 2,651        | 12.90%        | 2,238        | 10.66%        | -3.10%       | -3.33%       |
| Age 55 - 64                              | 3,108        | 15.35%        | 3,189        | 15.52%        | 3,224        | 15.36%        | 0.52%        | 0.22%        |
| Age 65 - 74                              | 2,521        | 12.45%        | 3,106        | 15.12%        | 3,607        | 17.19%        | 4.26%        | 3.04%        |
| Age 75 - 84                              | 1,490        | 7.36%         | 1,608        | 7.83%         | 1,676        | 7.99%         | 1.54%        | 0.83%        |
| Age 85 and over                          | 434          | 2.14%         | 497          | 2.42%         | 546          | 2.60%         | 2.75%        | 1.90%        |
| <i>Age 55 and over</i>                   | <i>7,553</i> | <i>37.30%</i> | <i>8,400</i> | <i>40.89%</i> | <i>9,053</i> | <i>43.14%</i> | <i>2.15%</i> | <i>1.51%</i> |
| <i>Age 62 and over</i>                   | <i>4,943</i> | <i>24.41%</i> | <i>5,671</i> | <i>27.60%</i> | <i>6,250</i> | <i>29.78%</i> | <i>2.78%</i> | <i>1.97%</i> |
| <b>Median Age</b>                        | 46.7         |               | 47.9         |               | 48.6         |               | 0.51%        | 0.29%        |

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of McIntosh County is 47.9 years. This compares with the statewide figure of 36.6 years. Approximately 4.99% of the population is below the age of 5, while 27.60% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 1.97% per year.

| <b>Eufaula 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>         | 2,813        |               | 2,870        |               | 2,912        |               |              |              |
| Age 0 - 4                        | 161          | 5.72%         | 153          | 5.33%         | 151          | 5.19%         | -1.01%       | -0.26%       |
| Age 5 - 9                        | 148          | 5.26%         | 162          | 5.64%         | 156          | 5.36%         | 1.82%        | -0.75%       |
| Age 10 - 14                      | 159          | 5.65%         | 159          | 5.54%         | 164          | 5.63%         | 0.00%        | 0.62%        |
| Age 15 - 17                      | 101          | 3.59%         | 102          | 3.55%         | 102          | 3.50%         | 0.20%        | 0.00%        |
| Age 18 - 20                      | 89           | 3.16%         | 90           | 3.14%         | 98           | 3.37%         | 0.22%        | 1.72%        |
| Age 21 - 24                      | 115          | 4.09%         | 129          | 4.49%         | 140          | 4.81%         | 2.32%        | 1.65%        |
| Age 25 - 34                      | 286          | 10.17%        | 299          | 10.42%        | 310          | 10.65%        | 0.89%        | 0.73%        |
| Age 35 - 44                      | 297          | 10.56%        | 272          | 9.48%         | 289          | 9.92%         | -1.74%       | 1.22%        |
| Age 45 - 54                      | 402          | 14.29%        | 354          | 12.33%        | 302          | 10.37%        | -2.51%       | -3.13%       |
| Age 55 - 64                      | 354          | 12.58%        | 374          | 13.03%        | 387          | 13.29%        | 1.11%        | 0.69%        |
| Age 65 - 74                      | 331          | 11.77%        | 379          | 13.21%        | 417          | 14.32%        | 2.75%        | 1.93%        |
| Age 75 - 84                      | 265          | 9.42%         | 281          | 9.79%         | 278          | 9.55%         | 1.18%        | -0.21%       |
| Age 85 and over                  | 105          | 3.73%         | 116          | 4.04%         | 118          | 4.05%         | 2.01%        | 0.34%        |
| <i>Age 55 and over</i>           | <i>1,055</i> | <i>37.50%</i> | <i>1,150</i> | <i>40.07%</i> | <i>1,200</i> | <i>41.21%</i> | <i>1.74%</i> | <i>0.85%</i> |
| <i>Age 62 and over</i>           | <i>702</i>   | <i>24.96%</i> | <i>772</i>   | <i>26.91%</i> | <i>811</i>   | <i>27.85%</i> | <i>1.92%</i> | <i>0.99%</i> |
| <b>Median Age</b>                | 46.3         |               | 46.9         |               | 46.5         |               | 0.26%        | -0.17%       |

Source: Nielsen SiteReports

As of 2015, Nielsen estimates that the median age of Eufaula is 46.9 years. This compares with the statewide figure of 36.6 years. Approximately 5.33% of the population is below the age of 5, while 26.91% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 0.99% per year.

The populations of Eufaula and McIntosh County as a whole are significantly older than the rest of the state. This is due in large part to the influence of Lake Eufaula which is a popular retirement location.

### Families by Presence of Children

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

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

|  | Eufaula |         | McIntosh County |         |
|--|---------|---------|-----------------|---------|
|  | No.     | Percent | No.             | Percent |
| Total Families:                        | 683     |         | 5,518           |         |
| Married-Couple Family:                 | 482     | 70.57%  | 4,369           | 79.18%  |
| With Children Under 18 Years           | 150     | 21.96%  | 1,257           | 22.78%  |
| No Children Under 18 Years             | 332     | 48.61%  | 3,112           | 56.40%  |
| Other Family:                          | 201     | 29.43%  | 1,149           | 20.82%  |
| Male Householder, No Wife Present      | 49      | 7.17%   | 358             | 6.49%   |
| With Children Under 18 Years           | 19      | 2.78%   | 223             | 4.04%   |
| No Children Under 18 Years             | 30      | 4.39%   | 135             | 2.45%   |
| Female Householder, No Husband Present | 152     | 22.25%  | 791             | 14.33%  |
| With Children Under 18 Years           | 73      | 10.69%  | 372             | 6.74%   |
| No Children Under 18 Years             | 79      | 11.57%  | 419             | 7.59%   |
| <hr/>                                  |         |         |                 |         |
| Total Single Parent Families           | 92      |         | 595             |         |
| Male Householder                       | 19      | 20.65%  | 223             | 37.48%  |
| Female Householder                     | 73      | 79.35%  | 372             | 62.52%  |

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

As shown, within McIntosh County, among all families 10.78% are single-parent families, while in Eufaula, the percentage is 13.47%.

### Population by Presence of Disabilities

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

**2013 Age by Number of Disabilities**

|   | Eufaula    |               | McIntosh County |               | State of Oklahoma |               |
|---|------------|---------------|-----------------|---------------|-------------------|---------------|
|   | No.        | Percent       | No.             | Percent       | No.               | Percent       |
| Civilian Non-Institutionalized Population:        | 2,663      |               | 20,056          |               | 3,702,515         |               |
| Under 18 Years:                                   | 593        |               | 4,248           |               | 933,738           |               |
| With One Type of Disability                       | 31         | 5.23%         | 164             | 3.86%         | 33,744            | 3.61%         |
| With Two or More Disabilities                     | 2          | 0.34%         | 27              | 0.64%         | 11,082            | 1.19%         |
| No Disabilities                                   | 560        | 94.44%        | 4,057           | 95.50%        | 888,912           | 95.20%        |
| 18 to 64 Years:                                   | 1,423      |               | 11,285          |               | 2,265,702         |               |
| With One Type of Disability                       | 108        | 7.59%         | 1,298           | 11.50%        | 169,697           | 7.49%         |
| With Two or More Disabilities                     | 128        | 9.00%         | 1,350           | 11.96%        | 149,960           | 6.62%         |
| No Disabilities                                   | 1,187      | 83.42%        | 8,637           | 76.54%        | 1,946,045         | 85.89%        |
| 65 Years and Over:                                | 647        |               | 4,523           |               | 503,075           |               |
| With One Type of Disability                       | 130        | 20.09%        | 880             | 19.46%        | 95,633            | 19.01%        |
| With Two or More Disabilities                     | 180        | 27.82%        | 1,187           | 26.24%        | 117,044           | 23.27%        |
| No Disabilities                                   | 337        | 52.09%        | 2,456           | 54.30%        | 290,398           | 57.72%        |
| <b>Total Number of Persons with Disabilities:</b> | <b>579</b> | <b>21.74%</b> | <b>4,906</b>    | <b>24.46%</b> | <b>577,160</b>    | <b>15.59%</b> |

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

Within McIntosh County, 24.46% of the civilian non-institutionalized population has one or more disabilities, compared with 15.59% of Oklahomans as a whole. In Eufaula the percentage is 21.74%. Compared with the rest of the state, the populations of Eufaula and McIntosh County are far more likely to have one or more disabilities.

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

**2013 Population by Veteran and Disability Status**

|   | Eufaula |         | McIntosh County |         | State of Oklahoma |         |
|---|---------|---------|-----------------|---------|-------------------|---------|
|   | No.     | Percent | No.             | Percent | No.               | Percent |
| Civilian Population Age 18+ For Whom Poverty Status is Determined | 2,070   |         | 15,808          |         | 2,738,788         |         |
| Veteran:  | 231     | 11.16%  | 2,142           | 13.55%  | 305,899           | 11.17%  |
| With a Disability   | 104     | 45.02%  | 824             | 38.47%  | 100,518           | 32.86%  |
| No Disability   | 127     | 54.98%  | 1,318           | 61.53%  | 205,381           | 67.14%  |
| Non-veteran:  | 1,839   | 88.84%  | 13,666          | 86.45%  | 2,432,889         | 88.83%  |
| With a Disability   | 442     | 24.03%  | 3,891           | 28.47%  | 430,610           | 17.70%  |
| No Disability   | 1,397   | 75.97%  | 9,775           | 71.53%  | 2,002,279         | 82.30%  |

Source: 2009-2013 American Community Survey, Table C21007

Within McIntosh County, the Census Bureau estimates there are 2,142 veterans, 38.47% of which have one or more disabilities (compared with 32.86% at a statewide level). In Eufaula, there are an estimated 231 veterans, 45.02% of which are estimated to have a disability. McIntosh County has a slightly disproportionate number of veterans compared with the rest of the state, and veterans in McIntosh County and Eufaula in particular are more likely to have one or more disabilities compared with veterans in the rest of the state.

## Group Quarters Population

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

|   | Eufaula |         | McIntosh County |         |
|---|---------|---------|-----------------|---------|
|   | No.     | Percent | No.             | Percent |
| Total Population                              | 2,813   |         | 20,252          |         |
| Group Quarters Population                     | 216     | 7.68%   | 345             | 1.70%   |
| Institutionalized Population                  | 216     | 7.68%   | 267             | 1.32%   |
| Correctional facilities for adults            | 80      | 2.84%   | 80              | 0.40%   |
| Juvenile facilities                           | 0       | 0.00%   | 0               | 0.00%   |
| Nursing facilities/Skilled-nursing facilities | 136     | 4.83%   | 187             | 0.92%   |
| Other institutional facilities                | 0       | 0.00%   | 0               | 0.00%   |
| Noninstitutionalized population               | 0       | 0.00%   | 78              | 0.39%   |
| College/University student housing            | 0       | 0.00%   | 0               | 0.00%   |
| Military quarters                             | 0       | 0.00%   | 0               | 0.00%   |
| Other noninstitutional facilities             | 0       | 0.00%   | 78              | 0.39%   |

Source: 2010 Decennial Census, Table P42

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

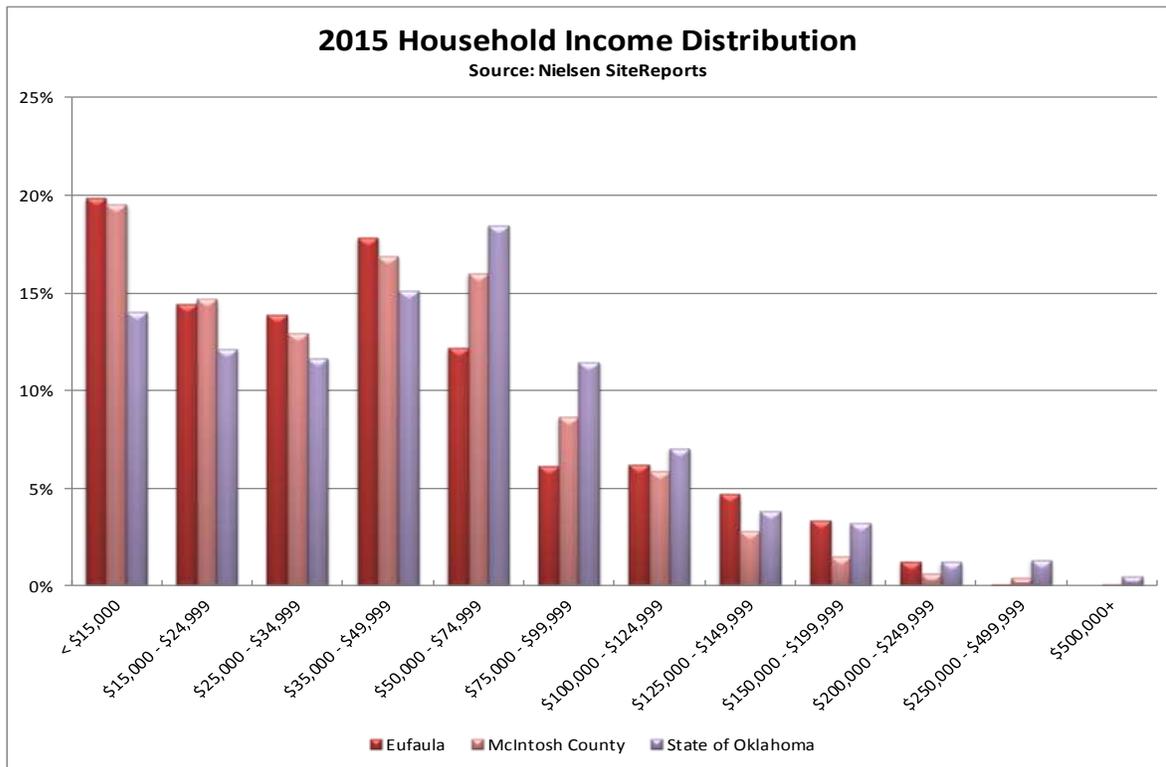
## Household Income Levels

Data in the following chart shows the distribution of household income in McIntosh 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>Eufaula</b> |                | <b>McIntosh 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>            | 1,204          |                | 8,602                  |                | 1,520,327                |                |
| < \$15,000                                | 239            | 19.85%         | 1,680                  | 19.53%         | 213,623                  | 14.05%         |
| \$15,000 - \$24,999                       | 174            | 14.45%         | 1,264                  | 14.69%         | 184,613                  | 12.14%         |
| \$25,000 - \$34,999                       | 167            | 13.87%         | 1,112                  | 12.93%         | 177,481                  | 11.67%         |
| \$35,000 - \$49,999                       | 215            | 17.86%         | 1,452                  | 16.88%         | 229,628                  | 15.10%         |
| \$50,000 - \$74,999                       | 147            | 12.21%         | 1,376                  | 16.00%         | 280,845                  | 18.47%         |
| \$75,000 - \$99,999                       | 74             | 6.15%          | 743                    | 8.64%          | 173,963                  | 11.44%         |
| \$100,000 - \$124,999                     | 75             | 6.23%          | 506                    | 5.88%          | 106,912                  | 7.03%          |
| \$125,000 - \$149,999                     | 57             | 4.73%          | 241                    | 2.80%          | 57,804                   | 3.80%          |
| \$150,000 - \$199,999                     | 40             | 3.32%          | 128                    | 1.49%          | 48,856                   | 3.21%          |
| \$200,000 - \$249,999                     | 15             | 1.25%          | 55                     | 0.64%          | 18,661                   | 1.23%          |
| \$250,000 - \$499,999                     | 1              | 0.08%          | 35                     | 0.41%          | 20,487                   | 1.35%          |
| \$500,000+                                | 0              | 0.00%          | 10                     | 0.12%          | 7,454                    | 0.49%          |
| <b>Median Household Income</b>            | \$36,535       |                | \$37,531               |                | \$47,049                 |                |
| <b>Average Household Income</b>           | \$51,557       |                | \$49,354               |                | \$63,390                 |                |

Source: Nielsen SiteReports

As shown, median household income for McIntosh County is estimated to be \$37,531 in 2015. By way of comparison, the median household income of Oklahoma is estimated to be \$47,049. For Eufaula, median household income is estimated to be \$36,535. As can be seen in the following chart, Eufaula and McIntosh County have disproportionately higher concentrations of households in the lower income brackets, under \$50,000.



**Household Income Trend**

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

| <b>Household Income Trend</b> |                       |                       |                |                |             |
|-------------------------------|-----------------------|-----------------------|----------------|----------------|-------------|
|                               | 1999 Median HH Income | 2015 Median HH Income | Nominal Growth | Inflation Rate | Real Growth |
| Eufaula                       | \$20,547              | \$36,535              | 3.66%          | 2.40%          | 1.26%       |
| McIntosh County               | \$25,964              | \$37,531              | 2.33%          | 2.40%          | -0.07%      |
| 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 McIntosh County and the State of Oklahoma as a whole saw negative growth in “real” median household income, once inflation is taken into account (Eufaula experienced positive growth, but the city’s median household income remains lower than both the county and state). It should be noted that this trend is not unique to Oklahoma or McIntosh 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 McIntosh 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.

|                   | 2000<br>Census | 2013<br>ACS | Change<br>(Basis Points) | 2013 Poverty Rates for Single-Parent Families |                    |
|-------------------|----------------|-------------|--------------------------|---|--------------------|
|                   |                |             |                          | Male Householder                              | Female Householder |
| Eufaula           | 27.58%         | 26.06%      | -152                     | 63.16%  | 61.64%             |
| McIntosh County   | 18.18%         | 20.73%      | 255                      | 39.91%  | 51.61%             |
| 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 McIntosh County is estimated to be 20.73% by the American Community Survey. This is an increase of 255 basis points since the 2000 Census. Within Eufaula, the poverty rate is estimated to be 26.06% (a slight decline from the 2000 Census, but nonetheless much higher than the county and state). 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 McIntosh 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<br>Employment | May-2015<br>Employment | Annual<br>Growth | May-2010<br>Unemp. Rate | May-2015<br>Unemp. Rate | Change<br>(bp) |
| McIntosh County                    | 6,696                  | 6,619                  | -0.23%           | 10.7%                   | 8.2%                    | -250           |
| 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           |

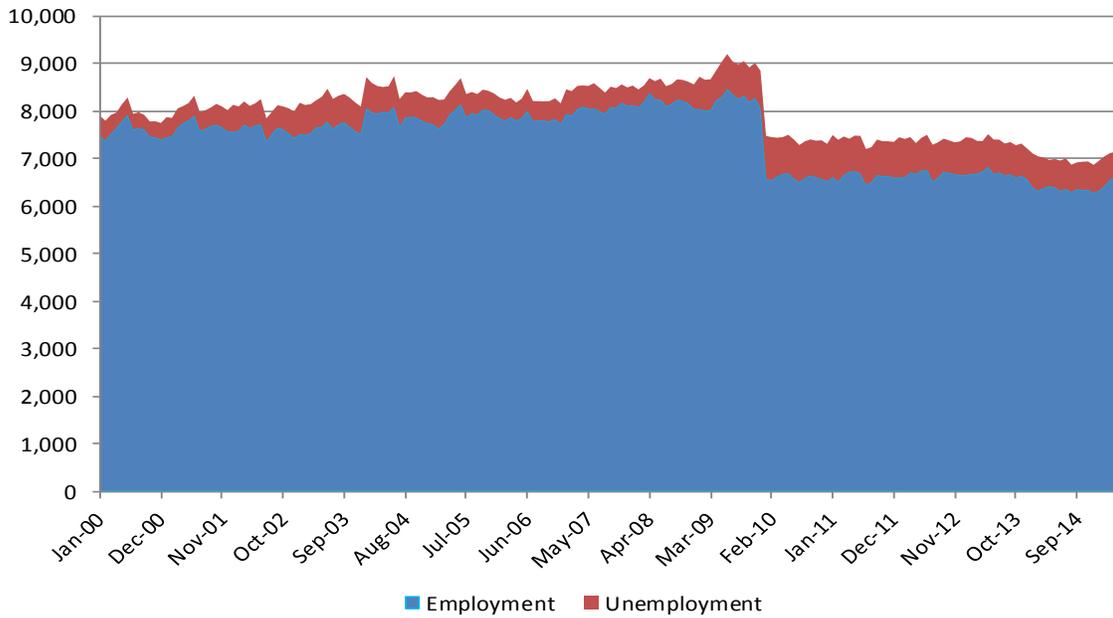
Sources: Bureau of Labor Statistics, Local Area Unemployment Statistics and Current Population Survey

As of May 2015, total employment in McIntosh County was 6,619 persons. Compared with figures from May 2010, this represents annualized employment decline of -0.23% per year. The unemployment rate in May was 8.2%, a decrease of -250 basis points from May 2010, which was 10.7%. Over the last five years, both the statewide and national trends have been improving employment levels and declining unemployment rates, and McIntosh County has underperformed both the state and nation in these statistics.

### Employment Level Trends

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

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



Source: Bureau of Labor Statistics, Local Area Unemployment Statistics

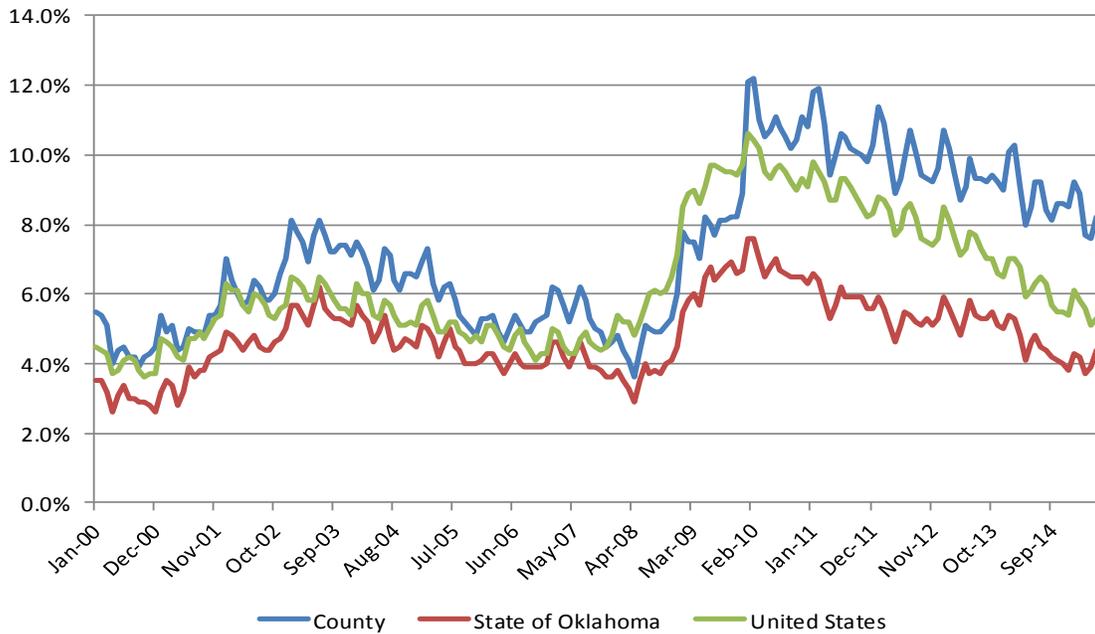
As shown, total employment levels have generally trended upward from 2000 through the 3<sup>rd</sup> quarter of 2008, which marked the beginning of the national economic recession. The large decline shown in January 2010 is a statistical adjustment on the part of the Bureau of Labor Statistics and does not represent an actual decline in employment. Total employment was largely level from that period forward, until a slight decline in late 2012. Employment growth has resumed in the last twelve months, to its current level of 6,619 persons. The number of unemployed persons in May 2015 was 588, out of a total labor force of 7,207 persons.

**Unemployment Rate Trends**

The next chart shows historic unemployment rates for McIntosh 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 McIntosh 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 McIntosh 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 8.2%. On the whole, unemployment rates in McIntosh County track very well with statewide figures but are typically above the state, and have been well above the state since late 2009. Compared with the United States, unemployment rates in McIntosh County have been higher than the national average since late 2009 as well.

**Employment and Wages by Industrial Supersector**

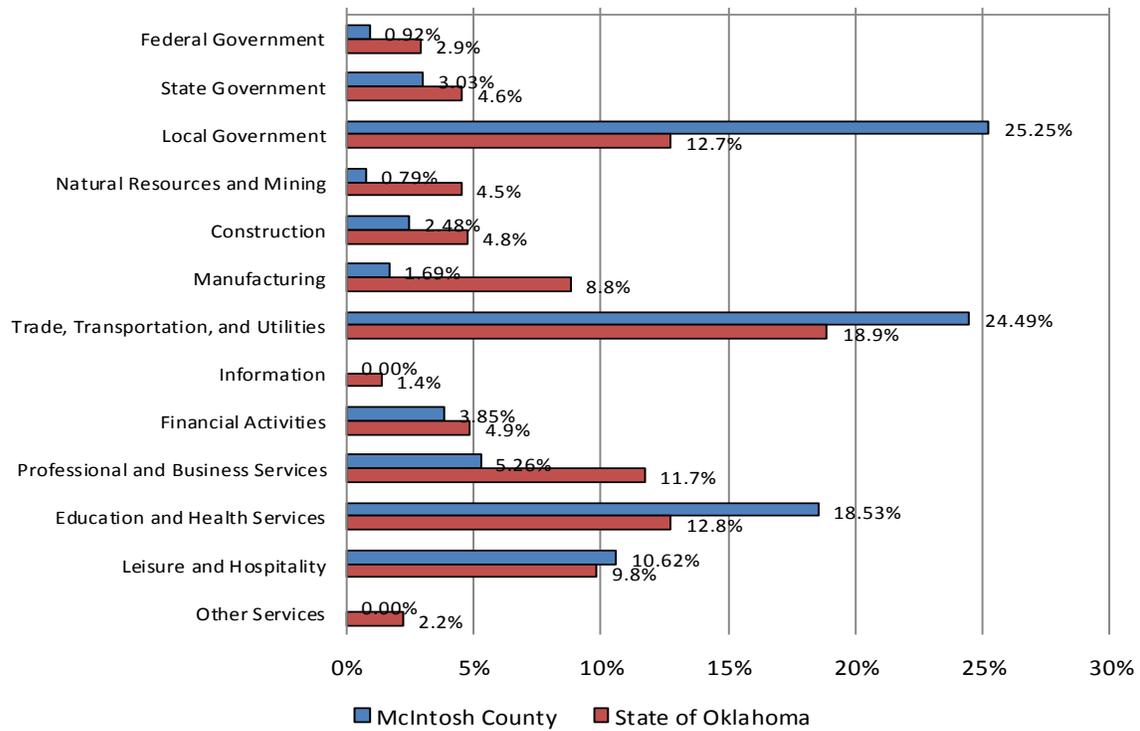
The next table presents data regarding employment in McIntosh County by industry, including total number of establishments, average number of employees in 2014, average annual pay, and location quotients for each industry compared with the United States. This data is furnished by the Bureau of Labor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



| <b>Employees and Wages by Supersector - 2014</b> |                |                       |                  |                 |                   |
|--|----------------|-----------------------|------------------|-----------------|-------------------|
| Supersector                                      | Establishments | Avg. No. of Employees | Percent of Total | Avg. Annual Pay | Location Quotient |
| Federal Government                               | 5              | 37                    | 0.92%            | \$42,747        | 0.46              |
| State Government                                 | 11             | 122                   | 3.03%            | \$33,631        | 0.91              |
| Local Government                                 | 36             | 1,018                 | 25.25%           | \$32,268        | 2.51              |
| Natural Resources and Mining                     | 9              | 32                    | 0.79%            | \$33,208        | 0.52              |
| Construction                                     | 29             | 100                   | 2.48%            | \$42,615        | 0.55              |
| Manufacturing                                    | 11             | 68                    | 1.69%            | \$27,395        | 0.19              |
| Trade, Transportation, and Utilities             | 95             | 987                   | 24.49%           | \$24,641        | 1.28              |
| Information                                      | 3              | N/A                   | N/A              | N/A             | N/A               |
| Financial Activities                             | 38             | 155                   | 3.85%            | \$39,241        | 0.68              |
| Professional and Business Services               | 58             | 212                   | 5.26%            | \$43,887        | 0.38              |
| Education and Health Services                    | 52             | 747                   | 18.53%           | \$25,307        | 1.23              |
| Leisure and Hospitality                          | 41             | 428                   | 10.62%           | \$12,035        | 0.99              |
| Other Services                                   | 25             | N/A                   | N/A              | N/A             | N/A               |
| <b>Total</b>                                     | <b>412</b>     | <b>4,031</b>          |                  | <b>\$28,123</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 (24.49%) are employed in Trade, Transportation, and Utilities. The average annual pay in this sector is \$24,641 per year. The industry



with the highest annual pay is Professional and Business Services, with average annual pay of \$43,887 per year.

The rightmost column of the previous table provides location quotients for each industry for McIntosh 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 (McIntosh 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.

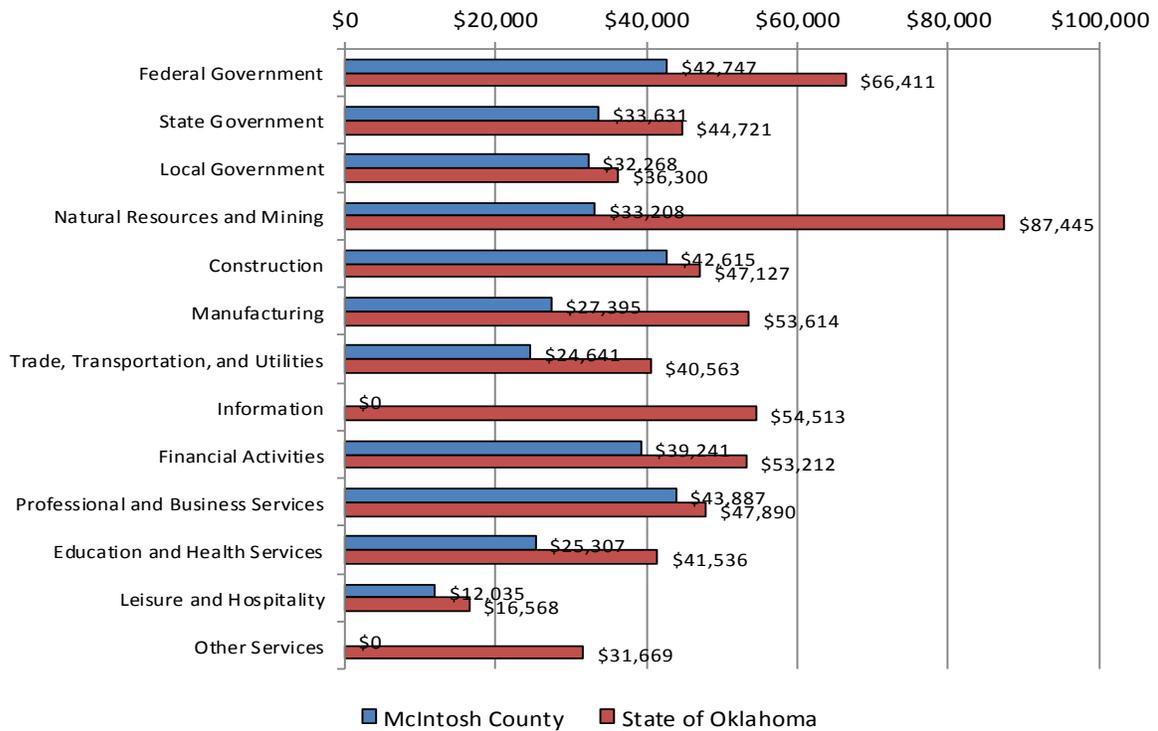
Within McIntosh County, among all industries the largest location quotient is in Local Government, with a quotient of 2.51. Among private employers, the largest is Trade, Transportation, and Utilities, with a quotient of 1.28.

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

| <b>Comparison of 2014 Average Annual Pay by Supersector</b> |                 |                   |                 |                  |                   |
|---|-----------------|-------------------|-----------------|------------------|-------------------|
| Supersector   | McIntosh County | State of Oklahoma | United States   | Percent of State | Percent of Nation |
| Federal Government  | \$42,747        | \$66,411          | \$75,784        | 64.4%            | 56.4%             |
| State Government  | \$33,631        | \$44,721          | \$54,184        | 75.2%            | 62.1%             |
| Local Government  | \$32,268        | \$36,300          | \$46,146        | 88.9%            | 69.9%             |
| Natural Resources and Mining                                | \$33,208        | \$87,445          | \$59,666        | 38.0%            | 55.7%             |
| Construction  | \$42,615        | \$47,127          | \$55,041        | 90.4%            | 77.4%             |
| Manufacturing   | \$27,395        | \$53,614          | \$62,977        | 51.1%            | 43.5%             |
| Trade, Transportation, and Utilities                        | \$24,641        | \$40,563          | \$42,988        | 60.7%            | 57.3%             |
| Information   | N/A             | \$54,513          | \$90,804        | N/A              | N/A               |
| Financial Activities  | \$39,241        | \$53,212          | \$85,261        | 73.7%            | 46.0%             |
| Professional and Business Services                          | \$43,887        | \$47,890          | \$66,657        | 91.6%            | 65.8%             |
| Education and Health Services                               | \$25,307        | \$41,536          | \$45,951        | 60.9%            | 55.1%             |
| Leisure and Hospitality                                     | \$12,035        | \$16,568          | \$20,993        | 72.6%            | 57.3%             |
| Other Services  | N/A             | \$31,669          | \$33,935        | N/A              | N/A               |
| <b>Total</b>  | <b>\$28,123</b> | <b>\$43,774</b>   | <b>\$51,361</b> | <b>64.2%</b>     | <b>54.8%</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, McIntosh County has lower average wages in each employment sector without exception, 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>Eufaula</b> |                | <b>McIntosh 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>683</b>     |                | <b>5,518</b>           |                | <b>961,468</b>           |                |
| With Children <18 Years:                                      | 242            | 35.43%         | 1,852                  | 33.56%         | 425,517                  | 44.26%         |
| Married Couple:   | 150            | 61.98%         | 1,257                  | 67.87%         | 281,418                  | 66.14%         |
| Both Parents Employed   | 104            | 69.33%         | 765                    | 60.86%         | 166,700                  | 59.24%         |
| One Parent Employed   | 39             | 26.00%         | 375                    | 29.83%         | 104,817                  | 37.25%         |
| Neither Parent Employed                                       | 7              | 4.67%          | 117                    | 9.31%          | 9,901                    | 3.52%          |
| Other Family:   | 92             | 38.02%         | 595                    | 32.13%         | 144,099                  | 33.86%         |
| Male Householder:   | 19             | 20.65%         | 223                    | 37.48%         | 36,996                   | 25.67%         |
| Employed  | 19             | 100.00%        | 170                    | 76.23%         | 31,044                   | 83.91%         |
| Not Employed  | 0              | 0.00%          | 53                     | 23.77%         | 5,952                    | 16.09%         |
| Female Householder:   | 73             | 79.35%         | 372                    | 62.52%         | 107,103                  | 74.33%         |
| Employed  | 53             | 72.60%         | 239                    | 64.25%         | 75,631                   | 70.62%         |
| Not Employed  | 20             | 27.40%         | 133                    | 35.75%         | 31,472                   | 29.38%         |
| Without Children <18 Years:                                   | 441            | 64.57%         | 3,666                  | 66.44%         | 535,951                  | 55.74%         |
| Married Couple:   | 332            | 75.28%         | 3,112                  | 84.89%         | 431,868                  | 80.58%         |
| Both Spouses Employed   | 62             | 18.67%         | 718                    | 23.07%         | 167,589                  | 38.81%         |
| One Spouse Employed   | 118            | 35.54%         | 878                    | 28.21%         | 138,214                  | 32.00%         |
| Neither Spouse Employed                                       | 152            | 45.78%         | 1,516                  | 48.71%         | 126,065                  | 29.19%         |
| Other Family:   | 109            | 24.72%         | 554                    | 15.11%         | 104,083                  | 19.42%         |
| Male Householder:   | 30             | 19.74%         | 135                    | 8.91%          | 32,243                   | 25.58%         |
| Employed  | 0              | 0.00%          | 15                     | 11.11%         | 19,437                   | 60.28%         |
| Not Employed  | 30             | 100.00%        | 120                    | 88.89%         | 12,806                   | 39.72%         |
| Female Householder:   | 79             | 72.48%         | 419                    | 75.63%         | 71,840                   | 69.02%         |
| Employed  | 55             | 69.62%         | 172                    | 41.05%         | 36,601                   | 50.95%         |
| Not Employed  | 24             | 30.38%         | 247                    | 58.95%         | 35,239                   | 49.05%         |
| <i>Total Working Families:</i>                                | <i>450</i>     | <i>65.89%</i>  | <i>3,332</i>           | <i>60.38%</i>  | <i>740,033</i>           | <i>76.97%</i>  |
| <i>  With Children &lt;18 Years:</i>                          | <i>215</i>     | <i>47.78%</i>  | <i>1,549</i>           | <i>46.49%</i>  | <i>378,192</i>           | <i>51.10%</i>  |
| <i>  Without Children &lt;18 Years:</i>                       | <i>235</i>     | <i>52.22%</i>  | <i>1,783</i>           | <i>53.51%</i>  | <i>361,841</i>           | <i>48.90%</i>  |

Source: 2009-2013 American Community Survey, Table B23007

Within McIntosh County, there are 3,332 working families, 46.49% 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 Eufaula area include Eufaula public schools, Eufaula Municipal Hospital, McIntosh County, the Creek Nation, and D-P Manufacturing Company.

## Commuting Patterns

### Travel Time to Work

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

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

|                           | Eufaula    |         | McIntosh County |         | State of Oklahoma |         |
|---------------------------|------------|---------|-----------------|---------|-------------------|---------|
|                           | No.        | Percent | No.             | Percent | No.               | Percent |
| <b>Commuting Workers:</b> | <b>922</b> |         | <b>6,779</b>    |         | <b>1,613,364</b>  |         |
| Less than 15 minutes      | 510        | 55.31%  | 2,167           | 31.97%  | 581,194           | 36.02%  |
| 15 to 30 minutes          | 136        | 14.75%  | 2,074           | 30.59%  | 625,885           | 38.79%  |
| 30 to 45 minutes          | 142        | 15.40%  | 1,326           | 19.56%  | 260,192           | 16.13%  |
| 45 to 60 minutes          | 109        | 11.82%  | 586             | 8.64%   | 74,625            | 4.63%   |
| 60 or more minutes        | 25         | 2.71%   | 626             | 9.23%   | 71,468            | 4.43%   |

Source: 2009-2013 American Community Survey, Table B08303

Within McIntosh County, the largest percentage of workers (31.97%) travel fewer than 15 minutes to work. Although McIntosh County has an active labor market, it appears that some workers living in McIntosh County commute to other labor markets in the region such as McAlester and Muskogee.

### Means of Transportation

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

### Workers 16 Years and Over by Means of Transportation to Work

|                              | Eufaula    |         | McIntosh County |         | State of Oklahoma |         |
|------------------------------|------------|---------|-----------------|---------|-------------------|---------|
|                              | No.        | Percent | No.             | Percent | No.               | Percent |
| <b>Total Workers Age 16+</b> | <b>925</b> |         | <b>7,005</b>    |         | <b>1,673,026</b>  |         |
| Car, Truck or Van:           | 879        | 95.03%  | 6,562           | 93.68%  | 1,551,461         | 92.73%  |
| <i>Drove Alone</i>           | 725        | 82.48%  | 5,862           | 89.33%  | 1,373,407         | 88.52%  |
| <i>Carpooled</i>             | 154        | 17.52%  | 700             | 10.67%  | 178,054           | 11.48%  |
| Public Transportation        | 8          | 0.86%   | 45              | 0.64%   | 8,092             | 0.48%   |
| Taxicab                      | 0          | 0.00%   | 2               | 0.03%   | 984               | 0.06%   |
| Motorcycle                   | 0          | 0.00%   | 14              | 0.20%   | 3,757             | 0.22%   |
| Bicycle                      | 0          | 0.00%   | 0               | 0.00%   | 4,227             | 0.25%   |
| Walked                       | 31         | 3.35%   | 138             | 1.97%   | 30,401            | 1.82%   |
| Other Means                  | 4          | 0.43%   | 18              | 0.26%   | 14,442            | 0.86%   |
| Worked at Home               | 3          | 0.32%   | 226             | 3.23%   | 59,662            | 3.57%   |

Source: 2009-2013 American Community Survey, Table B08301

As shown, the vast majority of persons in McIntosh 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 McIntosh 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<br>Census | 2010<br>Census | Annual<br>Change | 2015<br>Estimate | Annual<br>Change |
| Eufaula                    | 1,468          | 1,552          | 0.56%            | 1,649            | 1.22%            |
| McIntosh County            | 12,640         | 13,350         | 0.55%            | 13,560           | 0.31%            |
| 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 McIntosh County grew by 0.31% per year, to a total of 13,560 housing units in 2015. In terms of new housing unit construction, McIntosh County underperformed Oklahoma as a whole between 2010 and 2015.

### Housing by Units in Structure

The next table separates housing units in McIntosh 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> |              |               |                 |              |                   |               |
|---|--------------|---------------|-----------------|--------------|-------------------|---------------|
|   | Eufaula      |               | McIntosh County |              | State of Oklahoma |               |
|   | No.          | Percent       | No.             | Percent      | No.               | Percent       |
| <b>Total Housing Units</b>                      | <b>1,543</b> |               | <b>13,316</b>   |              | <b>1,669,828</b>  |               |
| 1 Unit, Detached                                | 1,127        | 73.04%        | 8,348           | 62.69%       | 1,219,987         | 73.06%        |
| 1 Unit, Attached                                | 23           | 1.49%         | 113             | 0.85%        | 34,434            | 2.06%         |
| Duplex Units                                    | 123          | 7.97%         | 202             | 1.52%        | 34,207            | 2.05%         |
| 3-4 Units                                       | 74           | 4.80%         | 204             | 1.53%        | 42,069            | 2.52%         |
| 5-9 Units                                       | 11           | 0.71%         | 43              | 0.32%        | 59,977            | 3.59%         |
| 10-19 Units                                     | 0            | 0.00%         | 0               | 0.00%        | 57,594            | 3.45%         |
| 20-49 Units                                     | 0            | 0.00%         | 20              | 0.15%        | 29,602            | 1.77%         |
| 50 or More Units                                | 5            | 0.32%         | 16              | 0.12%        | 30,240            | 1.81%         |
| Mobile Homes                                    | 180          | 11.67%        | 4,365           | 32.78%       | 159,559           | 9.56%         |
| Boat, RV, Van, etc.                             | 0            | 0.00%         | 5               | 0.04%        | 2,159             | 0.13%         |
| <b>Total Multifamily Units</b>                  | <b>213</b>   | <b>13.80%</b> | <b>485</b>      | <b>3.64%</b> | <b>253,689</b>    | <b>15.19%</b> |

Source: 2009-2013 American Community Survey, Table B25024

Within McIntosh County, 62.69% of housing units are single-family, detached. 3.64% of housing units are multifamily in structure (two or more units per building), while 32.82% of housing units comprise mobile homes, RVs, etc.

Within Eufaula, 73.04% of housing units are single-family, detached. 13.80% of housing units are multifamily in structure, while 11.67% of housing units comprise mobile homes, RVs, etc.

### Housing Units Number of Bedrooms and Tenure

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

| <b>2013 Housing Units by Tenure and Number of Bedrooms</b> |                |                |                        |                |                          |                |
|--|----------------|----------------|------------------------|----------------|--------------------------|----------------|
|  | <b>Eufaula</b> |                | <b>McIntosh 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 Occupied Housing Units</b>                        | <b>1,104</b>   |                | <b>8,092</b>           |                | <b>1,444,081</b>         |                |
| <b>Owner Occupied:</b>                                     | <b>717</b>     | <b>64.95%</b>  | <b>6,460</b>           | <b>79.83%</b>  | <b>968,736</b>           | <b>67.08%</b>  |
| No Bedroom   | 0              | 0.00%          | 38                     | 0.59%          | 2,580                    | 0.27%          |
| 1 Bedroom  | 34             | 4.74%          | 294                    | 4.55%          | 16,837                   | 1.74%          |
| 2 Bedrooms   | 165            | 23.01%         | 1,732                  | 26.81%         | 166,446                  | 17.18%         |
| 3 Bedrooms   | 442            | 61.65%         | 3,596                  | 55.67%         | 579,135                  | 59.78%         |
| 4 Bedrooms   | 71             | 9.90%          | 689                    | 10.67%         | 177,151                  | 18.29%         |
| 5 or More Bedrooms   | 5              | 0.70%          | 111                    | 1.72%          | 26,587                   | 2.74%          |
| <b>Renter Occupied:</b>                                    | <b>387</b>     | <b>35.05%</b>  | <b>1,632</b>           | <b>20.17%</b>  | <b>475,345</b>           | <b>32.92%</b>  |
| No Bedroom   | 55             | 14.21%         | 114                    | 6.99%          | 13,948                   | 2.93%          |
| 1 Bedroom  | 67             | 17.31%         | 204                    | 12.50%         | 101,850                  | 21.43%         |
| 2 Bedrooms   | 174            | 44.96%         | 661                    | 40.50%         | 179,121                  | 37.68%         |
| 3 Bedrooms   | 61             | 15.76%         | 550                    | 33.70%         | 152,358                  | 32.05%         |
| 4 Bedrooms   | 30             | 7.75%          | 81                     | 4.96%          | 24,968                   | 5.25%          |
| 5 or More Bedrooms   | 0              | 0.00%          | 22                     | 1.35%          | 3,100                    | 0.65%          |

Source: 2009-2013 American Community Survey, Table B25042

The overall homeownership rate in McIntosh County is 79.83%, while 20.17% of housing units are renter occupied. In Eufaula, the homeownership rate is 64.95%, while 35.05% of households are renters.

### Housing Units Tenure and Household Income

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

**McIntosh County Owner/Renter Percentages by Income Band in 2013**

| Household Income                 | Total Households | Total Owners | Total Renters | % Owners      | % Renters     |
|----------------------------------|------------------|--------------|---------------|---------------|---------------|
| <b>Total</b>                     | <b>8,092</b>     | <b>6,460</b> | <b>1,632</b>  | <b>79.83%</b> | <b>20.17%</b> |
| Less than \$5,000                | 263              | 157          | 106           | 59.70%        | 40.30%        |
| \$5,000 - \$9,999                | 691              | 358          | 333           | 51.81%        | 48.19%        |
| \$10,000-\$14,999                | 690              | 413          | 277           | 59.86%        | 40.14%        |
| \$15,000-\$19,999                | 604              | 454          | 150           | 75.17%        | 24.83%        |
| \$20,000-\$24,999                | 619              | 524          | 95            | 84.65%        | 15.35%        |
| \$25,000-\$34,999                | 1,101            | 863          | 238           | 78.38%        | 21.62%        |
| \$35,000-\$49,999                | 1,350            | 1,096        | 254           | 81.19%        | 18.81%        |
| \$50,000-\$74,999                | 1,334            | 1,214        | 120           | 91.00%        | 9.00%         |
| \$75,000-\$99,999                | 792              | 776          | 16            | 97.98%        | 2.02%         |
| \$100,000-\$149,999              | 473              | 447          | 26            | 94.50%        | 5.50%         |
| \$150,000 or more                | 175              | 158          | 17            | 90.29%        | 9.71%         |
| <b>Income Less Than \$25,000</b> | <b>2,867</b>     | <b>1,906</b> | <b>961</b>    | <b>66.48%</b> | <b>33.52%</b> |

Source: 2009-2013 American Community Survey, Table B25118

Within McIntosh County as a whole, 33.52% of households with incomes less than \$25,000 are estimated to be renters, while 66.48% are estimated to be homeowners.

**Eufaula Owner/Renter Percentages by Income Band in 2013**

| Household Income                 | Total Households | Total Owners | Total Renters | % Owners      | % Renters     |
|----------------------------------|------------------|--------------|---------------|---------------|---------------|
| <b>Total</b>                     | <b>1,104</b>     | <b>717</b>   | <b>387</b>    | <b>64.95%</b> | <b>35.05%</b> |
| Less than \$5,000                | 34               | 10           | 24            | 29.41%        | 70.59%        |
| \$5,000 - \$9,999                | 110              | 30           | 80            | 27.27%        | 72.73%        |
| \$10,000-\$14,999                | 108              | 38           | 70            | 35.19%        | 64.81%        |
| \$15,000-\$19,999                | 56               | 24           | 32            | 42.86%        | 57.14%        |
| \$20,000-\$24,999                | 61               | 28           | 33            | 45.90%        | 54.10%        |
| \$25,000-\$34,999                | 193              | 138          | 55            | 71.50%        | 28.50%        |
| \$35,000-\$49,999                | 183              | 138          | 45            | 75.41%        | 24.59%        |
| \$50,000-\$74,999                | 152              | 114          | 38            | 75.00%        | 25.00%        |
| \$75,000-\$99,999                | 75               | 68           | 7             | 90.67%        | 9.33%         |
| \$100,000-\$149,999              | 122              | 119          | 3             | 97.54%        | 2.46%         |
| \$150,000 or more                | 10               | 10           | 0             | 100.00%       | 0.00%         |
| <b>Income Less Than \$25,000</b> | <b>369</b>       | <b>130</b>   | <b>239</b>    | <b>35.23%</b> | <b>64.77%</b> |

Source: 2009-2013 American Community Survey, Table B25118

Within Eufaula, 64.77% of households with incomes less than \$25,000 are estimated to be renters, while 35.23% 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.

| <b>2013 Housing Units by Tenure and Year of Construction</b> |                |                |                        |                |                          |                |
|--|----------------|----------------|------------------------|----------------|--------------------------|----------------|
|  | <b>Eufaula</b> |                | <b>McIntosh 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 Occupied Housing Units</b>                          | <b>1,104</b>   |                | <b>8,092</b>           |                | <b>1,444,081</b>         |                |
| <b>Owner Occupied:</b>                                       | <b>717</b>     | <b>64.95%</b>  | <b>6,460</b>           | <b>79.83%</b>  | <b>968,736</b>           | <b>67.08%</b>  |
| Built 2010 or Later  | 0              | 0.00%          | 33                     | 0.51%          | 10,443                   | 1.08%          |
| Built 2000 to 2009   | 59             | 8.23%          | 870                    | 13.47%         | 153,492                  | 15.84%         |
| Built 1990 to 1999   | 109            | 15.20%         | 1,062                  | 16.44%         | 125,431                  | 12.95%         |
| Built 1980 to 1989   | 98             | 13.67%         | 1,295                  | 20.05%         | 148,643                  | 15.34%         |
| Built 1970 to 1979   | 107            | 14.92%         | 1,402                  | 21.70%         | 184,378                  | 19.03%         |
| Built 1960 to 1969   | 84             | 11.72%         | 650                    | 10.06%         | 114,425                  | 11.81%         |
| Built 1950 to 1959   | 98             | 13.67%         | 432                    | 6.69%          | 106,544                  | 11.00%         |
| Built 1940 to 1949   | 28             | 3.91%          | 309                    | 4.78%          | 50,143                   | 5.18%          |
| Built 1939 or Earlier  | 134            | 18.69%         | 407                    | 6.30%          | 75,237                   | 7.77%          |
| Median Year Built:   |                | 1971           |                        | 1980           |                          | 1977           |
| <b>Renter Occupied:</b>                                      | <b>387</b>     | <b>35.05%</b>  | <b>1,632</b>           | <b>20.17%</b>  | <b>475,345</b>           | <b>32.92%</b>  |
| Built 2010 or Later  | 4              | 1.03%          | 4                      | 0.25%          | 5,019                    | 1.06%          |
| Built 2000 to 2009   | 57             | 14.73%         | 133                    | 8.15%          | 50,883                   | 10.70%         |
| Built 1990 to 1999   | 35             | 9.04%          | 140                    | 8.58%          | 47,860                   | 10.07%         |
| Built 1980 to 1989   | 63             | 16.28%         | 368                    | 22.55%         | 77,521                   | 16.31%         |
| Built 1970 to 1979   | 81             | 20.93%         | 319                    | 19.55%         | 104,609                  | 22.01%         |
| Built 1960 to 1969   | 54             | 13.95%         | 285                    | 17.46%         | 64,546                   | 13.58%         |
| Built 1950 to 1959   | 29             | 7.49%          | 115                    | 7.05%          | 54,601                   | 11.49%         |
| Built 1940 to 1949   | 15             | 3.88%          | 60                     | 3.68%          | 31,217                   | 6.57%          |
| Built 1939 or Earlier  | 49             | 12.66%         | 208                    | 12.75%         | 39,089                   | 8.22%          |
| Median Year Built:   |                | 1976           |                        | 1975           |                          | 1975           |
| <b>Overall Median Year Built:</b>                            |                | <b>1971</b>    |                        | <b>1979</b>    |                          | <b>1976</b>    |

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

Within McIntosh County, 12.85% of housing units were built after the year 2000. This compares with 15.22% statewide. Within Eufaula the percentage is 10.87%.

72.29% of housing units in McIntosh County were built prior to 1990, while in Eufaula the percentage is 76.09%. These figures compare with the statewide figure of 72.78%.

### Substandard Housing

The next table presents data regarding substandard housing in McIntosh 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 |
| Eufaula           | 1,104     | 6                   | 0.54%   | 42                 | 3.80%   | 8                  | 0.72%   |
| McIntosh County   | 8,092     | 73                  | 0.90%   | 91                 | 1.12%   | 467                | 5.77%   |
| 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 McIntosh County, 0.90% of occupied housing units have inadequate plumbing (compared with 0.49% at a statewide level), while 1.12% 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. Compared with the rest of the state, the percentage of substandard housing units in McIntosh County and Eufaula is somewhat higher.

## Vacancy Rates

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

### 2013 Housing Units by Vacancy

|  | Eufaula |         | McIntosh County |         | State of Oklahoma |         |
|--|---------|---------|-----------------|---------|-------------------|---------|
|  | No.     | Percent | No.             | Percent | No.               | Percent |
| <b>Total Housing Units</b>                       | 1,543   |         | 13,316          |         | 1,669,828         |         |
| Total Vacant Units                               | 439     | 28.45%  | 5,224           | 39.23%  | 225,747           | 13.52%  |
| For rent   | 52      | 11.85%  | 246             | 4.71%   | 43,477            | 19.26%  |
| Rented, not occupied                             | 10      | 2.28%   | 17              | 0.33%   | 9,127             | 4.04%   |
| For sale only                                    | 93      | 21.18%  | 301             | 5.76%   | 23,149            | 10.25%  |
| Sold, not occupied                               | 6       | 1.37%   | 117             | 2.24%   | 8,618             | 3.82%   |
| For seasonal, recreational,<br>or occasional use | 130     | 29.61%  | 3,538           | 67.73%  | 39,475            | 17.49%  |
| For migrant workers                              | 0       | 0.00%   | 4               | 0.08%   | 746               | 0.33%   |
| Other vacant                                     | 148     | 33.71%  | 1,001           | 19.16%  | 101,155           | 44.81%  |
| <b>Homeowner Vacancy Rate</b>                    | 11.40%  |         | 4.38%           |         | 2.31%             |         |
| <b>Rental Vacancy Rate</b>                       | 11.58%  |         | 12.98%          |         | 8.24%             |         |

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

Within McIntosh County, the overall housing vacancy rate is estimated to be 39.23%. The homeowner vacancy rate is estimated to be 4.38%, while the rental vacancy rate is estimated to be 12.98%.

In Eufaula, the overall housing vacancy rate is estimated to be 28.45%. The homeowner vacancy rate is estimated to be 11.40%, while the rental vacancy rate is estimated to be 11.58%.

## Building Permits

The table presents data regarding new residential building permits issued in Eufaula. 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.

### Eufaula

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

| Year | Single Family Units | Avg. Construction Cost | Multifamily Units | Avg. Multifamily Construction Cost |
|------|---------------------|------------------------|-------------------|------------------------------------|
| 2004 | 6                   | \$103,667              | 0                 | N/A                                |
| 2005 | 9                   | \$104,444              | 0                 | N/A                                |
| 2006 | 13                  | \$70,572               | 0                 | N/A                                |
| 2007 | 9                   | \$116,889              | 0                 | N/A                                |
| 2008 | 10                  | \$111,100              | 10                | \$60,000                           |
| 2009 | 8                   | \$102,940              | 10                | \$85,500                           |
| 2010 | 18                  | \$143,333              | 0                 | N/A                                |
| 2011 | 8                   | \$92,375               | 4                 | \$62,000                           |
| 2012 | 28                  | \$134,286              | 0                 | N/A                                |
| 2013 | 0                   | N/A                    | 0                 | N/A                                |
| 2014 | 0                   | N/A                    | 0                 | N/A                                |

Source: United States Census Bureau Building Permits Survey

In Eufaula, building permits for 133 housing units were issued between 2004 and 2014, for an average of 12 units per year. 81.95% of these housing units were single family homes, and 18.05% consisted of multifamily units (comprising small duplexes and quadplexes).

## New Construction Activity

### For Ownership:

Most new construction for ownership in McIntosh County has been on rural, unplatted acreages outside of the city limits of Eufaula or Checotah. There has been new construction in Eufaula, some of it on infill lots in existing subdivisions, but most new construction has been outside of Eufaula and included new homes on or very near the shores of Lake Eufaula. Though some new construction has been reasonably affordable, much has not: the average sale price of homes constructed in McIntosh County after 2010 (and sold after January 2014) is \$205,935 or \$128.43 per square foot, which is well

above what could be afforded by a household earning at or less than median household income for McIntosh County, which is estimated to be \$37,531 in 2015.

**For Rent:**

Most new market rate construction in Eufaula has consisted of very small properties with two to four units. In terms of affordable housing, Lakehurst Senior Living was completed in Eufaula in 2009, with 40 units intended for seniors age 62 and up, with incomes less than 60% of Area Median Income. This property was well-received and typically operates at full occupancy with a waiting list. 35 affordable single-family rental homes are currently under construction next to that development (Lakehurst Village), which will be intended for families with incomes less than 60% of Area Median Income. Lakehurst Village should be completed within six to twelve months of the writing of this report.

## Homeownership Market

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

### Housing Units by Home Value

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

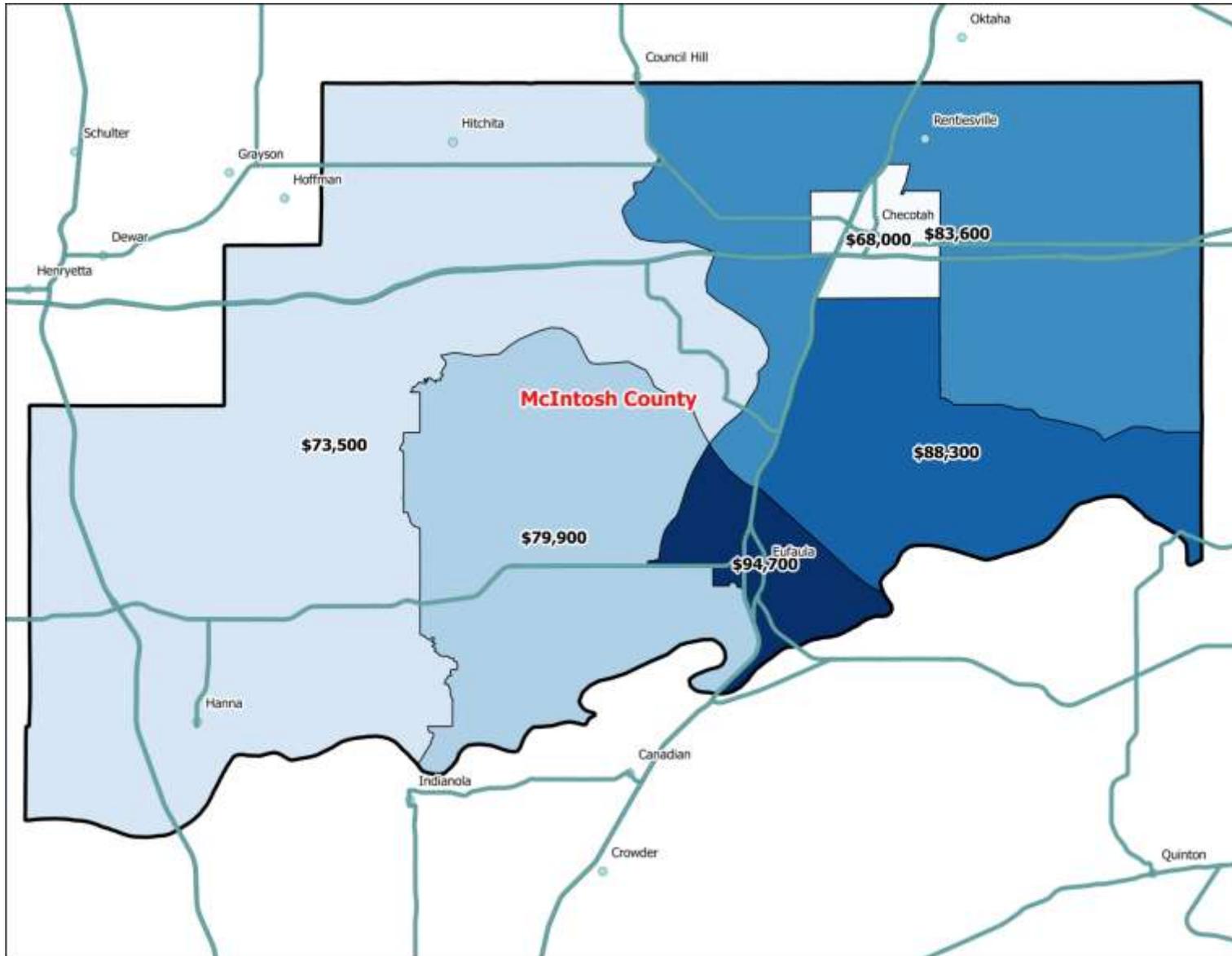
| <b>2013 Housing Units by Home Value</b> |                 |                |                        |                |                          |                |
|---|-----------------|----------------|------------------------|----------------|--------------------------|----------------|
|   | <b>Eufaula</b>  |                | <b>McIntosh 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 Owner-Occupied Units:</b>      | <b>717</b>      |                | <b>6,460</b>           |                | <b>968,736</b>           |                |
| Less than \$10,000                      | 0               | 0.00%          | 279                    | 4.32%          | 20,980                   | 2.17%          |
| \$10,000 to \$14,999                    | 4               | 0.56%          | 116                    | 1.80%          | 15,427                   | 1.59%          |
| \$15,000 to \$19,999                    | 5               | 0.70%          | 230                    | 3.56%          | 13,813                   | 1.43%          |
| \$20,000 to \$24,999                    | 29              | 4.04%          | 252                    | 3.90%          | 16,705                   | 1.72%          |
| \$25,000 to \$29,999                    | 8               | 1.12%          | 159                    | 2.46%          | 16,060                   | 1.66%          |
| \$30,000 to \$34,999                    | 11              | 1.53%          | 179                    | 2.77%          | 19,146                   | 1.98%          |
| \$35,000 to \$39,999                    | 26              | 3.63%          | 173                    | 2.68%          | 14,899                   | 1.54%          |
| \$40,000 to \$49,999                    | 38              | 5.30%          | 341                    | 5.28%          | 39,618                   | 4.09%          |
| \$50,000 to \$59,999                    | 66              | 9.21%          | 596                    | 9.23%          | 45,292                   | 4.68%          |
| \$60,000 to \$69,999                    | 13              | 1.81%          | 537                    | 8.31%          | 52,304                   | 5.40%          |
| \$70,000 to \$79,999                    | 42              | 5.86%          | 382                    | 5.91%          | 55,612                   | 5.74%          |
| \$80,000 to \$89,999                    | 78              | 10.88%         | 283                    | 4.38%          | 61,981                   | 6.40%          |
| \$90,000 to \$99,999                    | 45              | 6.28%          | 216                    | 3.34%          | 51,518                   | 5.32%          |
| \$100,000 to \$124,999                  | 84              | 11.72%         | 606                    | 9.38%          | 119,416                  | 12.33%         |
| \$125,000 to \$149,999                  | 55              | 7.67%          | 681                    | 10.54%         | 96,769                   | 9.99%          |
| \$150,000 to \$174,999                  | 34              | 4.74%          | 466                    | 7.21%          | 91,779                   | 9.47%          |
| \$175,000 to \$199,999                  | 65              | 9.07%          | 196                    | 3.03%          | 53,304                   | 5.50%          |
| \$200,000 to \$249,999                  | 33              | 4.60%          | 257                    | 3.98%          | 69,754                   | 7.20%          |
| \$250,000 to \$299,999                  | 20              | 2.79%          | 141                    | 2.18%          | 41,779                   | 4.31%          |
| \$300,000 to \$399,999                  | 41              | 5.72%          | 237                    | 3.67%          | 37,680                   | 3.89%          |
| \$400,000 to \$499,999                  | 20              | 2.79%          | 57                     | 0.88%          | 13,334                   | 1.38%          |
| \$500,000 to \$749,999                  | 0               | 0.00%          | 27                     | 0.42%          | 12,784                   | 1.32%          |
| \$750,000 to \$999,999                  | 0               | 0.00%          | 26                     | 0.40%          | 3,764                    | 0.39%          |
| \$1,000,000 or more                     | 0               | 0.00%          | 23                     | 0.36%          | 5,018                    | 0.52%          |
| <b>Median Home Value:</b>               | <b>\$98,600</b> |                | <b>\$79,600</b>        |                | <b>\$112,800</b>         |                |

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

The median value of owner-occupied homes in McIntosh County is \$79,600. This is -29.4% lower than the statewide median, which is \$112,800. The median home value in Eufaula is estimated to be \$98,600.

The geographic distribution of home values in McIntosh County can be visualized by the following map. As can be seen, the highest home values are in the immediate vicinity of the City of Eufaula and the areas surrounding Lake Eufaula, while the lowest homes values are in the Checotah area.

### McIntosh County Median Home Values by Census Tract



## Home Values by Year of Construction

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

### 2013 Median Home Value by Year of Construction

|                                    | Eufaula<br>Median Value | McIntosh County<br>Median Value | State of Oklahoma<br>Median Value |
|------------------------------------|-------------------------|---------------------------------|-----------------------------------|
| <b>Total Owner-Occupied Units:</b> |                         |                                 |                                   |
| Built 2010 or Later                | -                       | \$67,900                        | \$188,900                         |
| Built 2000 to 2009                 | \$133,900               | \$115,400                       | \$178,000                         |
| Built 1990 to 1999                 | \$122,000               | \$92,500                        | \$147,300                         |
| Built 1980 to 1989                 | \$104,200               | \$74,300                        | \$118,300                         |
| Built 1970 to 1979                 | \$130,900               | \$79,100                        | \$111,900                         |
| Built 1960 to 1969                 | \$94,200                | \$72,600                        | \$97,100                          |
| Built 1950 to 1959                 | \$64,000                | \$72,700                        | \$80,300                          |
| Built 1940 to 1949                 | \$63,800                | \$63,100                        | \$67,900                          |
| Built 1939 or Earlier              | \$83,800                | \$88,600                        | \$74,400                          |

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

Source: 2009-2013 American Community Survey, Table 25107

## Eufaula Single Family Sales Activity

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

### Eufaula Single Family Sales Activity

#### Two Bedroom Units

| Year                | 2011     | 2012     | 2013     | 2014     | YTD 2015 |
|---------------------|----------|----------|----------|----------|----------|
| # of Units Sold     | 14       | 23       | 22       | 28       | 15       |
| Average Sale Price  | \$74,571 | \$66,882 | \$69,119 | \$82,220 | \$68,133 |
| Average Square Feet | 1,106    | 1,001    | 1,178    | 1,122    | 1,131    |
| Average Price/SF    | \$67.42  | \$66.82  | \$58.67  | \$73.28  | \$60.24  |
| Average Year Built  | 1952     | 1968     | 1960     | 1967     | 1948     |

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

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

| Year                | 2011     | 2012     | 2013      | 2014      | YTD 2015 |
|---------------------|----------|----------|-----------|-----------|----------|
| # of Units Sold     | 15       | 18       | 31        | 37        | 19       |
| Average Sale Price  | \$88,600 | \$86,529 | \$106,948 | \$102,649 | \$84,375 |
| Average Square Feet | 1,525    | 1,424    | 1,525     | 1,543     | 1,514    |
| Average Price/SF    | \$58.10  | \$60.76  | \$70.13   | \$66.53   | \$55.73  |
| Average Year Built  | 1970     | 1973     | 1978      | 1967      | 1970     |

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

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

| Year                | 2011      | 2012      | 2013 | 2014      | YTD 2015 |
|---------------------|-----------|-----------|------|-----------|----------|
| # of Units Sold     | 1         | 2         | 0    | 4         | 1        |
| Average Sale Price  | \$255,000 | \$126,750 | N/A  | \$181,000 | \$93,000 |
| Average Square Feet | 2,794     | 1,894     | N/A  | 2,167     | 1,674    |
| Average Price/SF    | \$91.27   | \$66.92   | N/A  | \$83.53   | \$55.56  |
| Average Year Built  | 1973      | 1938      | N/A  | 1965      | 1974     |

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

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

| Year                | 2011     | 2012     | 2013     | 2014      | YTD 2015 |
|---------------------|----------|----------|----------|-----------|----------|
| # of Units Sold     | 37       | 45       | 57       | 76        | 41       |
| Average Sale Price  | \$84,333 | \$79,355 | \$90,154 | \$100,452 | \$82,289 |
| Average Square Feet | 1,345    | 1,200    | 1,360    | 1,333     | 1,253    |
| Average Price/SF    | \$62.70  | \$66.13  | \$66.29  | \$75.36   | \$65.67  |
| Average Year Built  | 1961     | 1969     | 1970     | 1963      | 1958     |

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

Between 2011 and 2014, the average sale price grew by 4.47% per year. The average sale price in 2015 was \$82,289 for an average price per square foot of \$65.67. The average year of construction for homes sold in 2015 is estimated to be 1958.

**Foreclosure Rates**

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

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## Foreclosure Rates

| Geography                         | % of Outstanding Mortgages in Foreclosure, May 2014 |
|-----------------------------------|---|
| McIntosh County                   | 2.4%  |
| State of Oklahoma                 | 2.1%  |
| United States                     | 2.1%  |
| Rank among Counties in Oklahoma*: | 26  |

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

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

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According to the data provided, the foreclosure rate in McIntosh County was 2.4% in May 2014. The county ranked 26 out of 64 counties in terms of highest foreclosure rates in Oklahoma. This rate compares with the statewide and nationwide foreclosure rates, both of which were 2.1%. With a somewhat higher rate of foreclosure compared with the rest of the state, foreclosures have likely had some impact on the local housing market. High rates of foreclosure in a neighborhood can have a depressing effect on housing values, lengthening marketing times and making it more difficult for potential buyers to secure financing.

## Rental Market

This section will discuss supply and demand factors for the rental market in McIntosh 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 McIntosh 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).

| <b>2013 Rental Units by Gross Rent</b> |                |                |                        |                |                          |                |
|--|----------------|----------------|------------------------|----------------|--------------------------|----------------|
|  | <b>Eufaula</b> |                | <b>McIntosh 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 Rental Units:</b>             | <b>387</b>     |                | <b>1,632</b>           |                | <b>475,345</b>           |                |
| With cash rent:                        | 356            |                | 1,278                  |                | 432,109                  |                |
| Less than \$100                        | 0              | 0.00%          | 0                      | 0.00%          | 2,025                    | 0.43%          |
| \$100 to \$149                         | 12             | 3.10%          | 30                     | 1.84%          | 2,109                    | 0.44%          |
| \$150 to \$199                         | 4              | 1.03%          | 15                     | 0.92%          | 4,268                    | 0.90%          |
| \$200 to \$249                         | 42             | 10.85%         | 87                     | 5.33%          | 8,784                    | 1.85%          |
| \$250 to \$299                         | 5              | 1.29%          | 69                     | 4.23%          | 8,413                    | 1.77%          |
| \$300 to \$349                         | 35             | 9.04%          | 87                     | 5.33%          | 9,107                    | 1.92%          |
| \$350 to \$399                         | 6              | 1.55%          | 40                     | 2.45%          | 10,932                   | 2.30%          |
| \$400 to \$449                         | 49             | 12.66%         | 107                    | 6.56%          | 15,636                   | 3.29%          |
| \$450 to \$499                         | 17             | 4.39%          | 56                     | 3.43%          | 24,055                   | 5.06%          |
| \$500 to \$549                         | 42             | 10.85%         | 82                     | 5.02%          | 31,527                   | 6.63%          |
| \$550 to \$599                         | 30             | 7.75%          | 138                    | 8.46%          | 33,032                   | 6.95%          |
| \$600 to \$649                         | 30             | 7.75%          | 113                    | 6.92%          | 34,832                   | 7.33%          |
| \$650 to \$699                         | 14             | 3.62%          | 133                    | 8.15%          | 32,267                   | 6.79%          |
| \$700 to \$749                         | 5              | 1.29%          | 95                     | 5.82%          | 30,340                   | 6.38%          |
| \$750 to \$799                         | 17             | 4.39%          | 44                     | 2.70%          | 27,956                   | 5.88%          |
| \$800 to \$899                         | 27             | 6.98%          | 103                    | 6.31%          | 45,824                   | 9.64%          |
| \$900 to \$999                         | 4              | 1.03%          | 8                      | 0.49%          | 34,153                   | 7.18%          |
| \$1,000 to \$1,249                     | 17             | 4.39%          | 61                     | 3.74%          | 46,884                   | 9.86%          |
| \$1,250 to \$1,499                     | 0              | 0.00%          | 10                     | 0.61%          | 14,699                   | 3.09%          |
| \$1,500 to \$1,999                     | 0              | 0.00%          | 0                      | 0.00%          | 10,145                   | 2.13%          |
| \$2,000 or more                        | 0              | 0.00%          | 0                      | 0.00%          | 5,121                    | 1.08%          |
| No cash rent                           | 31             | 8.01%          | 354                    | 21.69%         | 43,236                   | 9.10%          |
| <b>Median Gross Rent</b>               | <b>\$510</b>   |                | <b>\$574</b>           |                | <b>\$699</b>             |                |

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

Median gross rent in McIntosh County is estimated to be \$574, which is -17.9% less than Oklahoma's median gross rent of \$699/month. Median gross rent in Eufaula is estimated to be \$510.

### 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

|                            | Eufaula<br>Median Rent | McIntosh County<br>Median Rent | State of Oklahoma<br>Median Rent |
|----------------------------|------------------------|--------------------------------|----------------------------------|
| <b>Total Rental Units:</b> |                        |                                |                                  |
| Built 2010 or Later        | -                      | -                              | \$933                            |
| Built 2000 to 2009         | \$521                  | \$549                          | \$841                            |
| Built 1990 to 1999         | \$243                  | \$455                          | \$715                            |
| Built 1980 to 1989         | \$596                  | \$577                          | \$693                            |
| Built 1970 to 1979         | \$300                  | \$481                          | \$662                            |
| Built 1960 to 1969         | \$618                  | \$597                          | \$689                            |
| Built 1950 to 1959         | \$830                  | \$571                          | \$714                            |
| Built 1940 to 1949         | -                      | \$536                          | \$673                            |
| Built 1939 or Earlier      | \$523                  | \$638                          | \$651                            |

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

Source: 2009-2013 American Community Survey, Table 25111

### Eufaula Rental Survey Data

The next table shows the results of our rental survey of Eufaula. Most multifamily properties in Eufaula affordable or subsidized in some manner.

| Eufaula Rental Properties  |                      |            |          |           |           |       |         |         |
|----------------------------|----------------------|------------|----------|-----------|-----------|-------|---------|---------|
| Name                       | Type                 | Year Built | Bedrooms | Bathrooms | Size (SF) | Rate  | Rate/SF | Vacancy |
| Eufaula Village Apartments | LIHTC/USDA - Family  | 1977       | 2        | 1         | 803       | 30%   | N/A     | 0.00%   |
| Eufaula Village Apartments | LIHTC/USDA - Family  | 1977       | 3        | 1         | 1,010     | 30%   | N/A     | 0.00%   |
| Lakehurst Senior Living    | LIHTC - Elderly      | 2009       | 1        | 1         | 715       | \$383 | \$0.536 | 0.00%   |
| Lakehurst Senior Living    | LIHTC - Elderly      | 2009       | 1        | 1         | 715       | \$457 | \$0.639 | 0.00%   |
| Lakehurst Senior Living    | LIHTC - Elderly      | 2009       | 2        | 1         | 915       | \$467 | \$0.510 | 0.00%   |
| Lakehurst Senior Living    | LIHTC - Elderly      | 2009       | 2        | 1         | 915       | \$546 | \$0.597 | 0.00%   |
| Lakeland Cove Apartments   | LIHTC/USDA - Elderly | 1994       | 1        | 1         | 715       | \$475 | \$0.664 | 6.25%   |
| Lakeland Cove Apartments   | LIHTC/USDA - Elderly | 1994       | 2        | 1         | 826       | \$580 | \$0.702 | 6.25%   |
| Lakeridge Apartments       | LIHTC - Elderly      | 2004       | 1        | 1         | 700       | \$439 | \$0.627 | 12.50%  |
| Lakeridge Apartments       | LIHTC - Elderly      | 2004       | 2        | 1         | 826       | \$543 | \$0.657 | 12.50%  |

The previous rent surveys encompass over one hundred rental units in four complexes. These properties are located throughout the community and provide a good indication of the availability and rental structure of multifamily property. Review of historical rental data indicates the comparable rental rates have been generally stable over the last several years.

### Rental Market Vacancy – Eufaula

There are four affordable housing developments in Eufaula. Lakeland Cove, Lakeridge Apartments and Lakehurst Senior Living are all restricted to senior households. All typically remain at or near 100% occupancy. There is only one affordable housing development in Eufaula available to families: Eufaula Village Apartments, which is subject to the LIHTC program as well as USDA-Rural Development's rental housing program, with all tenants receiving rental assistance. This property also remains at full

occupancy with a waiting list. One property is under development: Lakehurst Village Homes, a 35-unit single family LIHTC development for families. The overall market vacancy of rental housing units was reported at 11.58% by the Census Bureau as of the most recent American Community Survey: this figure includes rental houses and small rental properties, as well as condominium units for rent.



Lakeridge Apartments



Lakeland Cove Apartments



Lakehurst Senior Living



Eufaula Village Apartments

## Summary of HUD Subsidized Properties

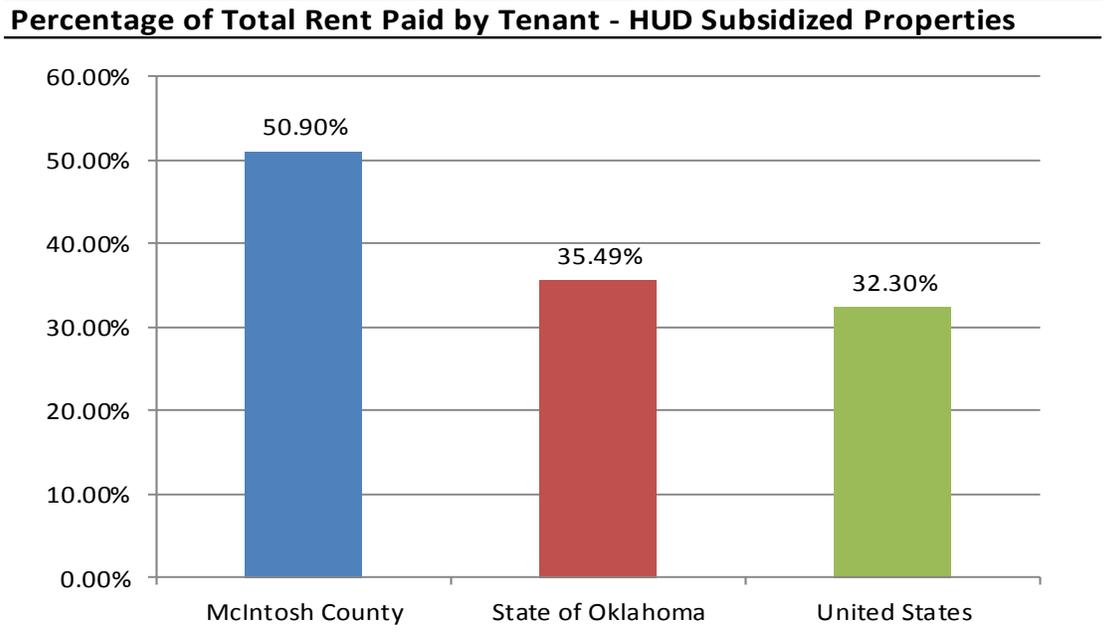
The following tables present data for housing units and households subsidized by the United States Department of Housing and Urban Development, for McIntosh County, the State of Oklahoma, and the United States. This data is taken from HUD's "Picture of Subsidized Households" data for 2013, the most recent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

### HUD Programs in McIntosh County

|                             | # Units   | Occupancy Rate | Avg. Household Income | Tenant Contribution | Federal Contribution | % of Total Rent |
|-----------------------------|-----------|----------------|-----------------------|---------------------|----------------------|-----------------|
| <b>McIntosh County</b>      |           |                |                       |                     |                      |                 |
| Public Housing              | 0         | N/A            | N/A                   | N/A                 | N/A                  | N/A             |
| Housing Choice Vouchers     | 49        | 95%            | \$11,299              | \$288               | \$277                | 50.90%          |
| Mod Rehab                   | 0         | N/A            | N/A                   | N/A                 | N/A                  | N/A             |
| Section 8 NC/SR             | 0         | N/A            | N/A                   | N/A                 | N/A                  | N/A             |
| Section 236                 | 0         | N/A            | N/A                   | N/A                 | N/A                  | N/A             |
| Multi-Family Other          | 0         | N/A            | N/A                   | N/A                 | N/A                  | N/A             |
| Summary of All HUD Programs | 49        | 95%            | \$11,299              | \$288               | \$277                | 50.90%          |
| <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 49 housing units located within McIntosh County, with an overall occupancy rate of 95%. The average household income among households living in these units is \$11,299. Total monthly rent for these units averages \$565, with the federal contribution averaging \$277 (49.10%) and the tenant's contribution averaging \$288 (50.90%).



Source: 2013 HUD Picture of Subsidized Households

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



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**Demographics of Persons in HUD Programs in McIntosh County**


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| <b>McIntosh 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                     | 0                | N/A                     | N/A                    | N/A              | N/A                            | N/A               |
| Housing Choice Vouchers            | 49               | 15%                     | 65%                    | 66%              | 84%                            | 19%               |
| Mod Rehab                          | 0                | N/A                     | N/A                    | N/A              | N/A                            | N/A               |
| Section 8 NC/SR                    | 0                | N/A                     | N/A                    | N/A              | N/A                            | N/A               |
| Section 236                        | 0                | N/A                     | N/A                    | N/A              | N/A                            | N/A               |
| Multi-Family Other                 | 0                | N/A                     | N/A                    | N/A              | N/A                            | N/A               |
| <b>Summary of All HUD Programs</b> | <b>49</b>        | <b>15%</b>              | <b>65%</b>             | <b>66%</b>       | <b>84%</b>                     | <b>19%</b>        |
| <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%               |
| <b>Summary of All HUD Programs</b> | <b>50,599</b>    | <b>38%</b>              | <b>23%</b>             | <b>25%</b>       | <b>53%</b>                     | <b>50%</b>        |
| <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%               |
| <b>Summary of All HUD Programs</b> | <b>5,180,467</b> | <b>36%</b>              | <b>20%</b>             | <b>33%</b>       | <b>40%</b>                     | <b>64%</b>        |

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

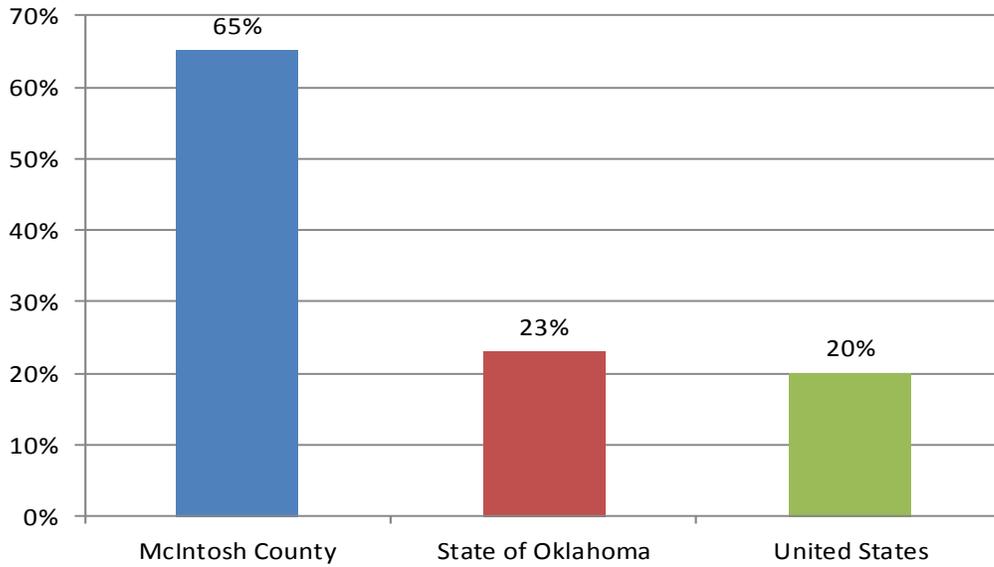
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15% of housing units are occupied by single parents with female heads of household. 65% of households have at least one person with a disability. 66% of households have either a householder or spouse age 62 or above. Of the households age 62 or above, 84% have one or more disabilities. Finally, 19% of households are designated as racial or ethnic minorities.

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**Percentage of Households with Disabilities - HUD Subsidized Properties**

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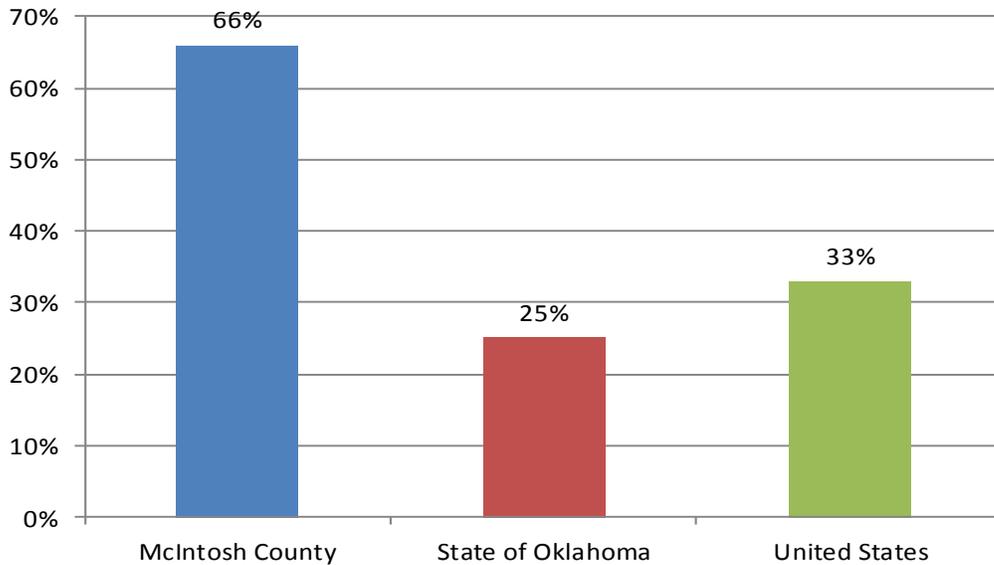
Source: 2013 HUD Picture of Subsidized Households

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**Percentage of Households Age 62+ - HUD Subsidized Properties**

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Source: 2013 HUD Picture of Subsidized Households

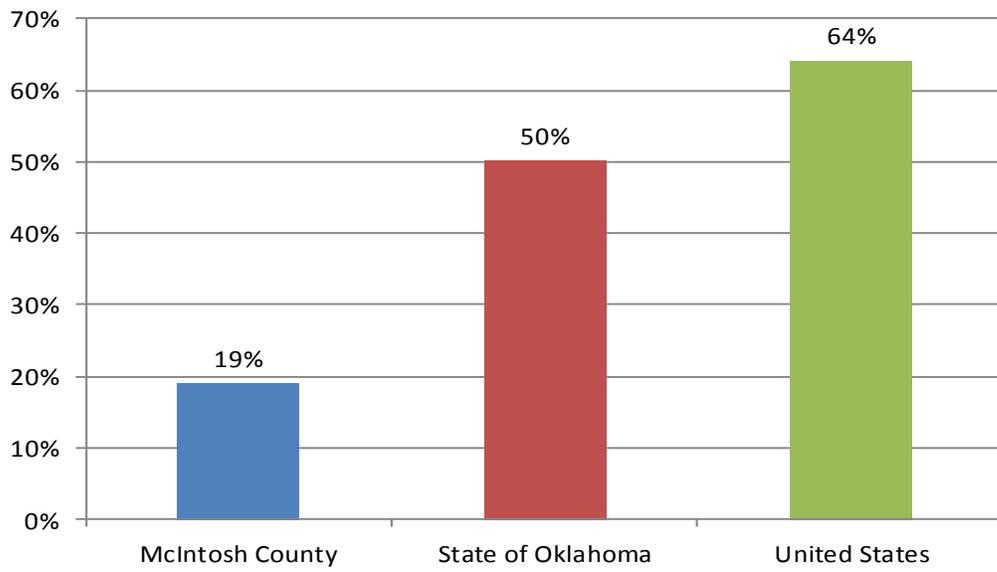
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**Percentage of Minority Households - HUD Subsidized Properties**

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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 McIntosh 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 McIntosh 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.

| <b>McIntosh County : CHAS - Housing Cost Burden by HAMFI</b> |               |                |                |                |
|--|---------------|----------------|----------------|----------------|
|  | <b>Owners</b> |                | <b>Renters</b> |                |
| <b>Household Income / Cost Burden</b>                        | <b>Number</b> | <b>Percent</b> | <b>Number</b>  | <b>Percent</b> |
| <b>Income &lt; 30% HAMFI</b>                                 | <b>635</b>    |                | <b>570</b>     |                |
| Cost Burden Less Than 30%                                    | 130           | 20.47%         | 200            | 35.09%         |
| Cost Burden Between 30%-50%                                  | 85            | 13.39%         | 80             | 14.04%         |
| Cost Burden Greater Than 50%                                 | 365           | 57.48%         | 270            | 47.37%         |
| Not Computed (no/negative income)                            | 55            | 8.66%          | 20             | 3.51%          |
| <b>Income 30%-50% HAMFI</b>                                  | <b>820</b>    |                | <b>315</b>     |                |
| Cost Burden Less Than 30%                                    | 515           | 62.80%         | 130            | 41.27%         |
| Cost Burden Between 30%-50%                                  | 205           | 25.00%         | 150            | 47.62%         |
| Cost Burden Greater Than 50%                                 | 100           | 12.20%         | 35             | 11.11%         |
| Not Computed (no/negative income)                            | 0             | 0.00%          | 0              | 0.00%          |
| <b>Income 50%-80% HAMFI</b>                                  | <b>1,255</b>  |                | <b>305</b>     |                |
| Cost Burden Less Than 30%                                    | 950           | 75.70%         | 175            | 57.38%         |
| Cost Burden Between 30%-50%                                  | 255           | 20.32%         | 130            | 42.62%         |
| Cost Burden Greater Than 50%                                 | 45            | 3.59%          | 0              | 0.00%          |
| Not Computed (no/negative income)                            | 0             | 0.00%          | 0              | 0.00%          |
| <b>Income 80%-100% HAMFI</b>                                 | <b>665</b>    |                | <b>200</b>     |                |
| Cost Burden Less Than 30%                                    | 590           | 88.72%         | 180            | 90.00%         |
| Cost Burden Between 30%-50%                                  | 70            | 10.53%         | 20             | 10.00%         |
| Cost Burden Greater Than 50%                                 | 10            | 1.50%          | 0              | 0.00%          |
| Not Computed (no/negative income)                            | 0             | 0.00%          | 0              | 0.00%          |
| <b>All Incomes</b>   | <b>6,300</b>  |                | <b>1,700</b>   |                |
| Cost Burden Less Than 30%                                    | 5,000         | 79.37%         | 995            | 58.53%         |
| Cost Burden Between 30%-50%                                  | 725           | 11.51%         | 380            | 22.35%         |
| Cost Burden Greater Than 50%                                 | 524           | 8.32%          | 305            | 17.94%         |
| Not Computed (no/negative income)                            | 55            | 0.87%          | 20             | 1.18%          |

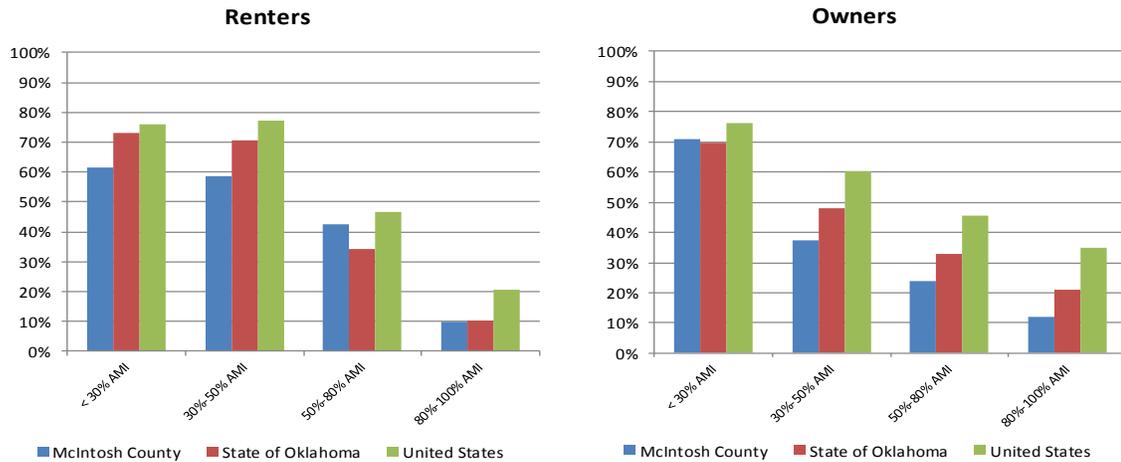
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 8

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 McIntosh County with the State of Oklahoma as a whole, and the United States.

| <b>McIntosh County : Households by Income by Cost Burden</b> |               |                                  |                |                                  |
|--|---------------|----------------------------------|----------------|----------------------------------|
|  | <b>Owners</b> |                                  | <b>Renters</b> |                                  |
| <b>Household Income Threshold</b>                            | <b>Total</b>  | <b>% w/ Cost &gt; 30% Income</b> | <b>Total</b>   | <b>% w/ Cost &gt; 30% Income</b> |
| Income < 30% HAMFI   | 635           | 70.87%                           | 570            | 61.40%                           |
| Income 30%-50% HAMFI   | 820           | 37.20%                           | 315            | 58.73%                           |
| Income 50%-80% HAMFI   | 1,255         | 23.90%                           | 305            | 42.62%                           |
| Income 80%-100% HAMFI  | 665           | 12.03%                           | 200            | 10.00%                           |
| All Incomes  | 6,300         | 19.83%                           | 1,700          | 40.29%                           |

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.



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

| Household Income / Housing Problem   | Owners       |         | Renters      |         |
|--------------------------------------|--------------|---------|--------------|---------|
|                                      | Number       | Percent | Number       | Percent |
| <b>Income &lt; 30% HAMFI</b>         | <b>635</b>   |         | <b>570</b>   |         |
| Between 1.0 and 1.5 Persons per Room | 10           | 1.57%   | 40           | 7.02%   |
| More than 1.5 Persons per Room       | 0            | 0.00%   | 45           | 7.89%   |
| Lacks Complete Kitchen or Plumbing   | 40           | 6.30%   | 10           | 1.75%   |
| <b>Income 30%-50% HAMFI</b>          | <b>820</b>   |         | <b>315</b>   |         |
| Between 1.0 and 1.5 Persons per Room | 4            | 0.49%   | 15           | 4.76%   |
| More than 1.5 Persons per Room       | 4            | 0.49%   | 4            | 1.27%   |
| Lacks Complete Kitchen or Plumbing   | 20           | 2.44%   | 10           | 3.17%   |
| <b>Income 50%-80% HAMFI</b>          | <b>1,255</b> |         | <b>305</b>   |         |
| Between 1.0 and 1.5 Persons per Room | 30           | 2.39%   | 10           | 3.28%   |
| More than 1.5 Persons per Room       | 4            | 0.32%   | 0            | 0.00%   |
| Lacks Complete Kitchen or Plumbing   | 4            | 0.32%   | 10           | 3.28%   |
| <b>Income 80%-100% HAMFI</b>         | <b>665</b>   |         | <b>200</b>   |         |
| Between 1.0 and 1.5 Persons per Room | 0            | 0.00%   | 0            | 0.00%   |
| More than 1.5 Persons per Room       | 0            | 0.00%   | 0            | 0.00%   |
| Lacks Complete Kitchen or Plumbing   | 10           | 1.50%   | 0            | 0.00%   |
| <b>All Incomes</b>                   | <b>6,300</b> |         | <b>1,700</b> |         |
| Between 1.0 and 1.5 Persons per Room | 54           | 0.86%   | 69           | 4.06%   |
| More than 1.5 Persons per Room       | 12           | 0.19%   | 49           | 2.88%   |
| Lacks Complete Kitchen or Plumbing   | 80           | 1.27%   | 30           | 1.76%   |

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 McIntosh County, Oklahoma and the nation.

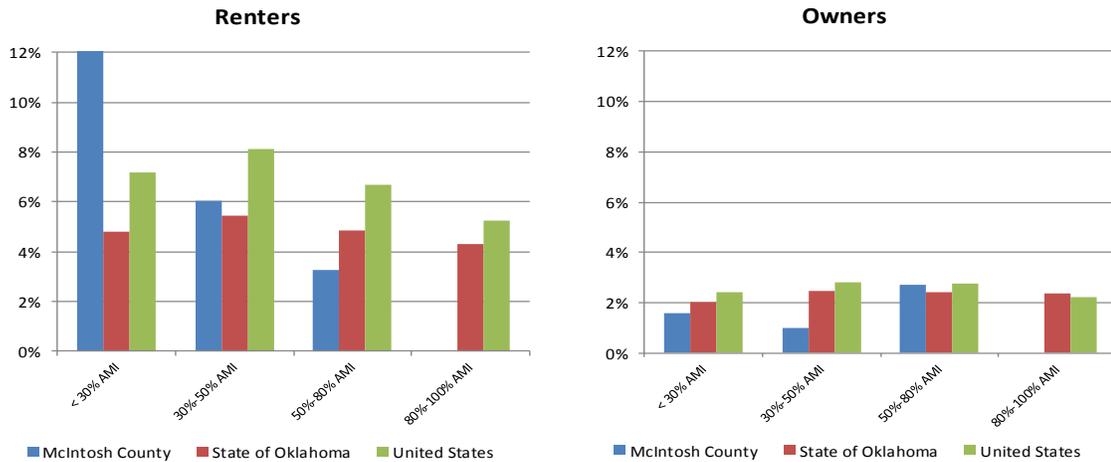
**McIntosh County : Households by Income by Overcrowding**

| Household Income Threshold | Total | Owners                         |       | Renters                        |       |
|----------------------------|-------|--------------------------------|-------|--------------------------------|-------|
|                            |       | % > 1.0<br>Persons per<br>Room | Total | % > 1.0<br>Persons per<br>Room | Total |
| Income < 30% HAMFI         | 635   | 1.57%                          | 570   | 14.91%                         | 570   |
| Income 30%-50% HAMFI       | 820   | 0.98%                          | 315   | 6.03%                          | 315   |
| Income 50%-80% HAMFI       | 1,255 | 2.71%                          | 305   | 3.28%                          | 305   |
| Income 80%-100% HAMFI      | 665   | 0.00%                          | 200   | 0.00%                          | 200   |
| All Incomes                | 6,300 | 1.05%                          | 1,700 | 6.94%                          | 1,700 |

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 McIntosh County, the state and the nation.

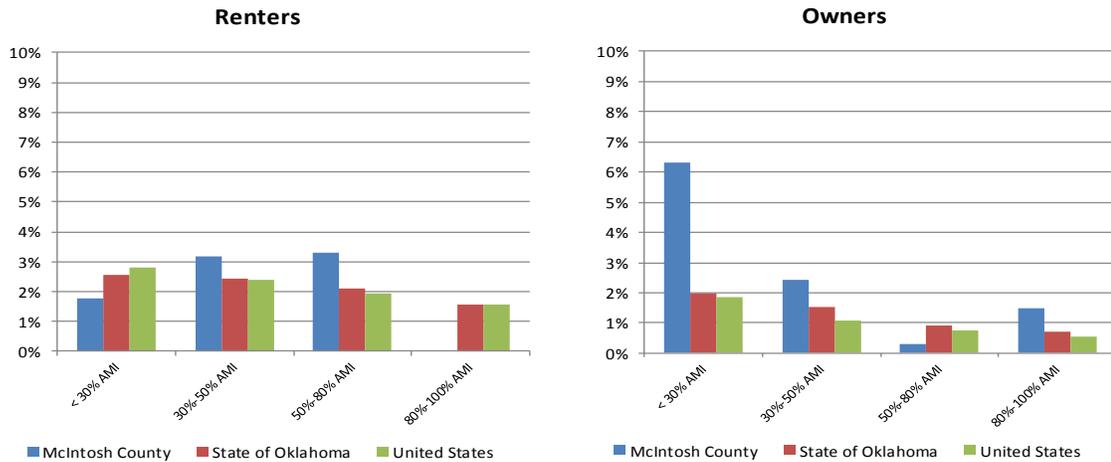
**McIntosh County : Households by Income by Substandard Conditions**

| Household Size/Type   | Total | Owners                        |       | Renters                       |       |
|-----------------------|-------|-------------------------------|-------|-------------------------------|-------|
|                       |       | % Lacking Kitchen or Plumbing | Total | % Lacking Kitchen or Plumbing | Total |
| Income < 30% HAMFI    | 635   | 6.30%                         | 570   | 1.75%                         |       |
| Income 30%-50% HAMFI  | 820   | 2.44%                         | 315   | 3.17%                         |       |
| Income 50%-80% HAMFI  | 1,255 | 0.32%                         | 305   | 3.28%                         |       |
| Income 80%-100% HAMFI | 665   | 1.50%                         | 200   | 0.00%                         |       |
| All Incomes           | 6,300 | 1.27%                         | 1,700 | 1.76%                         |       |

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.



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

| Income, Household Size/Type      | Total        | Owners                         |                                 | Renters      |                                |                                 |
|----------------------------------|--------------|--------------------------------|---------------------------------|--------------|--------------------------------|---------------------------------|
|                                  |              | No. w/<br>Cost > 30%<br>Income | Pct. w/<br>Cost > 30%<br>Income | Total        | No. w/<br>Cost > 30%<br>Income | Pct. w/<br>Cost > 30%<br>Income |
| <b>Income &lt; 30% HAMFI</b>     | <b>635</b>   | <b>449</b>                     | <b>70.71%</b>                   | <b>570</b>   | <b>350</b>                     | <b>61.40%</b>                   |
| Elderly Family                   | 80           | 75                             | 93.75%                          | 20           | 15                             | 75.00%                          |
| Small Family (2-4 persons)       | 185          | 150                            | 81.08%                          | 160          | 125                            | 78.13%                          |
| Large Family (5 or more persons) | 15           | 4                              | 26.67%                          | 60           | 45                             | 75.00%                          |
| Elderly Non-Family               | 220          | 145                            | 65.91%                          | 40           | 15                             | 37.50%                          |
| Non-Family, Non-Elderly          | 140          | 75                             | 53.57%                          | 295          | 150                            | 50.85%                          |
| <b>Income 30%-50% HAMFI</b>      | <b>820</b>   | <b>299</b>                     | <b>36.46%</b>                   | <b>315</b>   | <b>190</b>                     | <b>60.32%</b>                   |
| Elderly Family                   | 290          | 75                             | 25.86%                          | 50           | 20                             | 40.00%                          |
| Small Family (2-4 persons)       | 160          | 75                             | 46.88%                          | 115          | 85                             | 73.91%                          |
| Large Family (5 or more persons) | 35           | 15                             | 42.86%                          | 15           | 10                             | 66.67%                          |
| Elderly Non-Family               | 220          | 65                             | 29.55%                          | 120          | 65                             | 54.17%                          |
| Non-Family, Non-Elderly          | 120          | 69                             | 57.50%                          | 15           | 10                             | 66.67%                          |
| <b>Income 50%-80% HAMFI</b>      | <b>1,255</b> | <b>298</b>                     | <b>23.75%</b>                   | <b>305</b>   | <b>134</b>                     | <b>43.93%</b>                   |
| Elderly Family                   | 385          | 110                            | 28.57%                          | 35           | 10                             | 28.57%                          |
| Small Family (2-4 persons)       | 360          | 100                            | 27.78%                          | 180          | 110                            | 61.11%                          |
| Large Family (5 or more persons) | 40           | 8                              | 20.00%                          | 10           | 0                              | 0.00%                           |
| Elderly Non-Family               | 340          | 35                             | 10.29%                          | 35           | 4                              | 11.43%                          |
| Non-Family, Non-Elderly          | 130          | 45                             | 34.62%                          | 45           | 10                             | 22.22%                          |
| <b>Income 80%-100% HAMFI</b>     | <b>665</b>   | <b>73</b>                      | <b>10.98%</b>                   | <b>200</b>   | <b>19</b>                      | <b>9.50%</b>                    |
| Elderly Family                   | 245          | 15                             | 6.12%                           | 4            | 4                              | 100.00%                         |
| Small Family (2-4 persons)       | 175          | 25                             | 14.29%                          | 90           | 15                             | 16.67%                          |
| Large Family (5 or more persons) | 25           | 0                              | 0.00%                           | 20           | 0                              | 0.00%                           |
| Elderly Non-Family               | 140          | 14                             | 10.00%                          | 10           | 0                              | 0.00%                           |
| Non-Family, Non-Elderly          | 80           | 19                             | 23.75%                          | 75           | 0                              | 0.00%                           |
| <b>All Incomes</b>               | <b>6,300</b> | <b>1,227</b>                   | <b>19.48%</b>                   | <b>1,700</b> | <b>693</b>                     | <b>40.76%</b>                   |
| Elderly Family                   | 1,785        | 315                            | 17.65%                          | 164          | 49                             | 29.88%                          |
| Small Family (2-4 persons)       | 2,365        | 394                            | 16.66%                          | 710          | 335                            | 47.18%                          |
| Large Family (5 or more persons) | 325          | 27                             | 8.31%                           | 135          | 55                             | 40.74%                          |
| Elderly Non-Family               | 1,150        | 279                            | 24.26%                          | 209          | 84                             | 40.19%                          |
| Non-Family, Non-Elderly          | 680          | 212                            | 31.18%                          | 480          | 170                            | 35.42%                          |

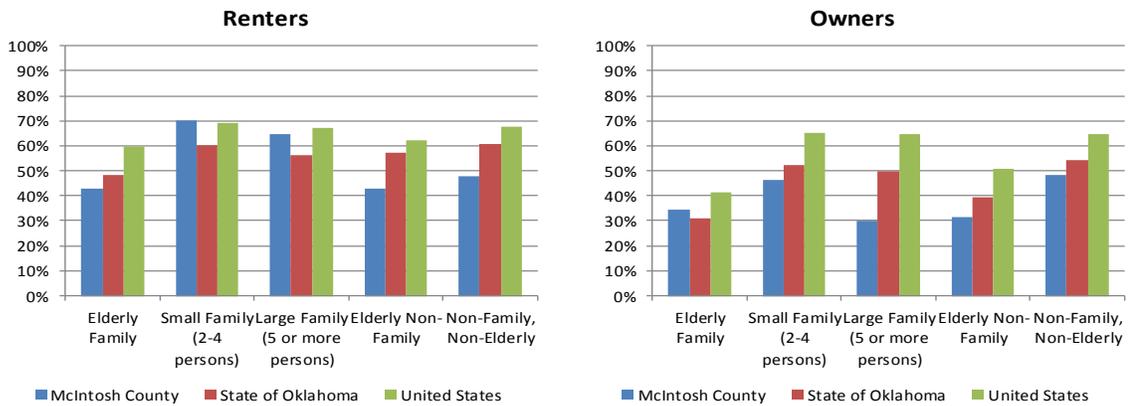
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 7

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

| Household Size/Type              | Total        | Owners                         |                                 | Renters                        |                                 |
|----------------------------------|--------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|
|                                  |              | No. w/<br>Cost > 30%<br>Income | Pct. w/<br>Cost > 30%<br>Income | No. w/<br>Cost > 30%<br>Income | Pct. w/<br>Cost > 30%<br>Income |
| <b>Income &lt; 80% HAMFI</b>     | <b>2,710</b> | <b>1,046</b>                   | <b>38.60%</b>                   | <b>1,190</b>                   | <b>56.64%</b>                   |
| Elderly Family                   | 755          | 260                            | 34.44%                          | 105                            | 42.86%                          |
| Small Family (2-4 persons)       | 705          | 325                            | 46.10%                          | 455                            | 70.33%                          |
| Large Family (5 or more persons) | 90           | 27                             | 30.00%                          | 85                             | 64.71%                          |
| Elderly Non-Family               | 780          | 245                            | 31.41%                          | 195                            | 43.08%                          |
| Non-Family, Non-Elderly          | 390          | 189                            | 48.46%                          | 355                            | 47.89%                          |

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).



| <b>McIntosh County : CHAS - Housing Problems by Household Type and HAMFI</b> |              |                               |                                |              |                               |                                |
|--|--------------|-------------------------------|--------------------------------|--------------|-------------------------------|--------------------------------|
| Income, Household Size/Type  | Total        | Owners                        |                                | Renters      |                               |                                |
|  |              | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems | Total        | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems |
| <b>Income &lt; 30% HAMFI</b>   | <b>635</b>   | <b>465</b>                    | <b>73.23%</b>                  | <b>570</b>   | <b>400</b>                    | <b>70.18%</b>                  |
| Elderly Family   | 80           | 80                            | 100.00%                        | 20           | 15                            | 75.00%                         |
| Small Family (2-4 persons)   | 185          | 150                           | 81.08%                         | 160          | 155                           | 96.88%                         |
| Large Family (5 or more persons)   | 15           | 15                            | 100.00%                        | 60           | 60                            | 100.00%                        |
| Elderly Non-Family   | 220          | 145                           | 65.91%                         | 40           | 25                            | 62.50%                         |
| Non-Family, Non-Elderly  | 140          | 75                            | 53.57%                         | 295          | 145                           | 49.15%                         |
| <b>Income 30%-50% HAMFI</b>  | <b>820</b>   | <b>320</b>                    | <b>39.02%</b>                  | <b>315</b>   | <b>200</b>                    | <b>63.49%</b>                  |
| Elderly Family   | 290          | 75                            | 25.86%                         | 50           | 15                            | 30.00%                         |
| Small Family (2-4 persons)   | 160          | 75                            | 46.88%                         | 115          | 95                            | 82.61%                         |
| Large Family (5 or more persons)   | 35           | 20                            | 57.14%                         | 15           | 15                            | 100.00%                        |
| Elderly Non-Family   | 220          | 65                            | 29.55%                         | 120          | 65                            | 54.17%                         |
| Non-Family, Non-Elderly  | 120          | 85                            | 70.83%                         | 15           | 10                            | 66.67%                         |
| <b>Income 50%-80% HAMFI</b>  | <b>1,255</b> | <b>330</b>                    | <b>26.29%</b>                  | <b>305</b>   | <b>149</b>                    | <b>48.85%</b>                  |
| Elderly Family   | 385          | 110                           | 28.57%                         | 35           | 10                            | 28.57%                         |
| Small Family (2-4 persons)   | 360          | 100                           | 27.78%                         | 180          | 110                           | 61.11%                         |
| Large Family (5 or more persons)   | 40           | 40                            | 100.00%                        | 10           | 10                            | 100.00%                        |
| Elderly Non-Family   | 340          | 35                            | 10.29%                         | 35           | 4                             | 11.43%                         |
| Non-Family, Non-Elderly  | 130          | 45                            | 34.62%                         | 45           | 15                            | 33.33%                         |
| <b>Income Greater than 80% of HAMFI</b>                                      | <b>3,590</b> | <b>229</b>                    | <b>6.38%</b>                   | <b>510</b>   | <b>39</b>                     | <b>7.65%</b>                   |
| Elderly Family   | 1,030        | 65                            | 6.31%                          | 60           | 15                            | 25.00%                         |
| Small Family (2-4 persons)   | 1,665        | 85                            | 5.11%                          | 255          | 20                            | 7.84%                          |
| Large Family (5 or more persons)   | 240          | 4                             | 1.67%                          | 50           | 4                             | 8.00%                          |
| Elderly Non-Family   | 365          | 35                            | 9.59%                          | 20           | 0                             | 0.00%                          |
| Non-Family, Non-Elderly  | 290          | 40                            | 13.79%                         | 120          | 0                             | 0.00%                          |
| <b>All Incomes</b>   | <b>6,300</b> | <b>1,344</b>                  | <b>21.33%</b>                  | <b>1,700</b> | <b>788</b>                    | <b>46.35%</b>                  |
| Elderly Family   | 1,785        | 330                           | 18.49%                         | 165          | 55                            | 33.33%                         |
| Small Family (2-4 persons)   | 2,370        | 410                           | 17.30%                         | 710          | 380                           | 53.52%                         |
| Large Family (5 or more persons)   | 330          | 79                            | 23.94%                         | 135          | 89                            | 65.93%                         |
| Elderly Non-Family   | 1,145        | 280                           | 24.45%                         | 215          | 94                            | 43.72%                         |
| Non-Family, Non-Elderly  | 680          | 245                           | 36.03%                         | 475          | 170                           | 35.79%                         |

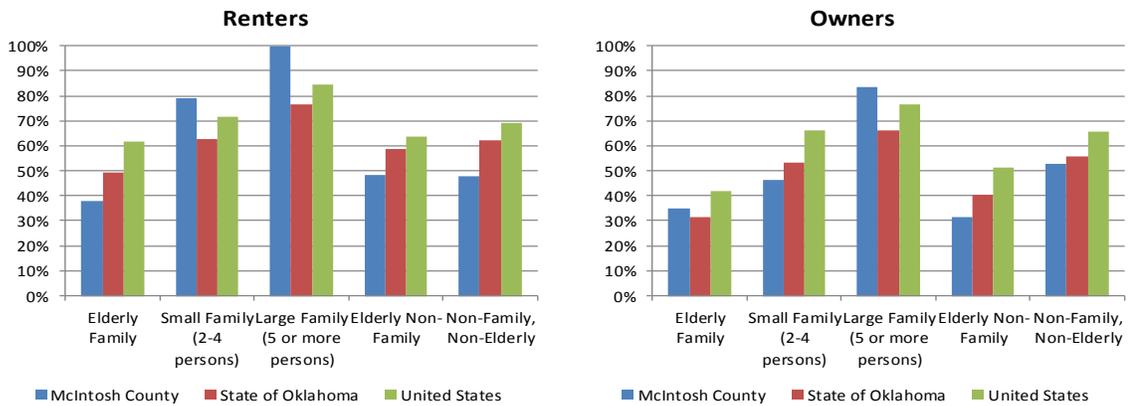
Source: 2008-2012 HUD Comprehensive Housing Affordability Strategy, Table 16

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

| Household Size/Type              | Total        | Owners                        |                                | Renters                       |                                |
|----------------------------------|--------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|
|                                  |              | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems |
| <b>Income &lt; 80% HAMFI</b>     | <b>2,710</b> | <b>1,115</b>                  | <b>41.14%</b>                  | <b>1,190</b>                  | <b>62.94%</b>                  |
| Elderly Family                   | 755          | 265                           | 35.10%                         | 105                           | 38.10%                         |
| Small Family (2-4 persons)       | 705          | 325                           | 46.10%                         | 455                           | 79.12%                         |
| Large Family (5 or more persons) | 90           | 75                            | 83.33%                         | 85                            | 100.00%                        |
| Elderly Non-Family               | 780          | 245                           | 31.41%                         | 195                           | 48.21%                         |
| Non-Family, Non-Elderly          | 390          | 205                           | 52.56%                         | 355                           | 47.89%                         |

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 McIntosh 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.”

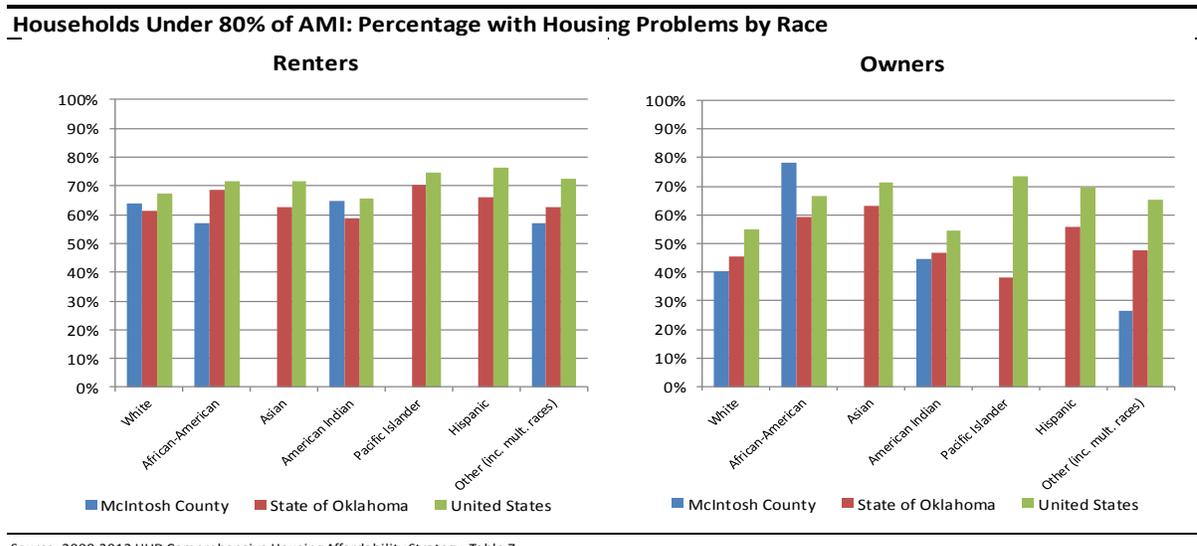


| <b>McIntosh County : CHAS - Housing Problems by Race / Ethnicity and HAMFI</b> |              |  |   |              |  |   |
|--|--------------|--|---|--------------|--|---|
| <b>Income, Race / Ethnicity</b>  | <b>Total</b> | <b>Owners</b>                          |   | <b>Total</b> | <b>Renters</b>                         |   |
|  |              | <b>No. w/<br/>Housing<br/>Problems</b> | <b>Pct. w/<br/>Housing<br/>Problems</b> |              | <b>No. w/<br/>Housing<br/>Problems</b> | <b>Pct. w/<br/>Housing<br/>Problems</b> |
| <b>Income &lt; 30% HAMFI</b>   | <b>635</b>   | <b>460</b>                             | <b>72.4%</b>                            | <b>569</b>   | <b>400</b>                             | <b>70.3%</b>                            |
| White alone, non-Hispanic  | 425          | 300                                    | 70.6%                                   | 374          | 255                                    | 68.2%                                   |
| Black or African-American alone  | 60           | 45                                     | 75.0%                                   | 25           | 10                                     | 40.0%                                   |
| Asian alone  | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| American Indian alone  | 109          | 75                                     | 68.8%                                   | 149          | 120                                    | 80.5%                                   |
| Pacific Islander alone   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Hispanic, any race   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Other (including multiple races)   | 55           | 45                                     | 81.8%                                   | 24           | 20                                     | 83.3%                                   |
| <b>Income 30%-50% HAMFI</b>  | <b>820</b>   | <b>320</b>                             | <b>39.0%</b>                            | <b>315</b>   | <b>200</b>                             | <b>63.5%</b>                            |
| White alone, non-Hispanic  | 595          | 260                                    | 43.7%                                   | 190          | 105                                    | 55.3%                                   |
| Black or African-American alone  | 40           | 30                                     | 75.0%                                   | 10           | 10                                     | 100.0%                                  |
| Asian alone  | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| American Indian alone  | 110          | 20                                     | 18.2%                                   | 60           | 40                                     | 66.7%                                   |
| Pacific Islander alone   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Hispanic, any race   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Other (including multiple races)   | 75           | 10                                     | 13.3%                                   | 60           | 45                                     | 75.0%                                   |
| <b>Income 50%-80% HAMFI</b>  | <b>1,255</b> | <b>335</b>                             | <b>26.7%</b>                            | <b>305</b>   | <b>150</b>                             | <b>49.2%</b>                            |
| White alone, non-Hispanic  | 995          | 250                                    | 25.1%                                   | 205          | 130                                    | 63.4%                                   |
| Black or African-American alone  | 34           | 30                                     | 88.2%                                   | 0            | 0                                      | N/A                                     |
| Asian alone  | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| American Indian alone  | 105          | 50                                     | 47.6%                                   | 70           | 20                                     | 28.6%                                   |
| Pacific Islander alone   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Hispanic, any race   | 25           | 0                                      | 0.0%                                    | 0            | 0                                      | N/A                                     |
| Other (including multiple races)   | 94           | 4                                      | 4.3%                                    | 30           | 0                                      | 0.0%                                    |
| <b>Income 80%-100% HAMFI</b>   | <b>670</b>   | <b>90</b>                              | <b>13.4%</b>                            | <b>200</b>   | <b>20</b>                              | <b>10.0%</b>                            |
| White alone, non-Hispanic  | 510          | 75                                     | 14.7%                                   | 150          | 20                                     | 13.3%                                   |
| Black or African-American alone  | 29           | 4                                      | 13.8%                                   | 4            | 0                                      | 0.0%                                    |
| Asian alone  | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| American Indian alone  | 44           | 4                                      | 9.1%                                    | 25           | 0                                      | 0.0%                                    |
| Pacific Islander alone   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Hispanic, any race   | 25           | 10                                     | 40.0%                                   | 10           | 0                                      | 0.0%                                    |
| Other (including multiple races)   | 65           | 0                                      | 0.0%                                    | 10           | 0                                      | 0.0%                                    |
| <b>All Incomes</b>   | <b>6,305</b> | <b>1,340</b>                           | <b>21.3%</b>                            | <b>1,699</b> | <b>785</b>                             | <b>46.2%</b>                            |
| White alone, non-Hispanic  | 4,840        | 990                                    | 20.5%                                   | 1,139        | 520                                    | 45.7%                                   |
| Black or African-American alone  | 208          | 124                                    | 59.6%                                   | 64           | 20                                     | 31.3%                                   |
| Asian alone  | 10           | 0                                      | 0.0%                                    | 0            | 0                                      | N/A                                     |
| American Indian alone  | 682          | 153                                    | 22.4%                                   | 343          | 184                                    | 53.6%                                   |
| Pacific Islander alone   | 0            | 0                                      | N/A                                     | 0            | 0                                      | N/A                                     |
| Hispanic, any race   | 60           | 10                                     | 16.7%                                   | 10           | 0                                      | 0.0%                                    |
| Other (including multiple races)   | 519          | 69                                     | 13.3%                                   | 149          | 65                                     | 43.6%                                   |

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

| <b>McIntosh County : Households under 80% AMI by Race/Ethnicity</b> |              |                               |                                |              |                               |                                |
|---|--------------|-------------------------------|--------------------------------|--------------|-------------------------------|--------------------------------|
| Household Size/Type   | Total        | Owners                        |                                | Renters      |                               |                                |
|   |              | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems | Total        | No. w/<br>Housing<br>Problems | Pct. w/<br>Housing<br>Problems |
| <b>Income &lt; 80% HAMFI</b>  | <b>2,710</b> | <b>1,115</b>                  | <b>41.14%</b>                  | <b>1,189</b> | <b>750</b>                    | <b>63.08%</b>                  |
| White alone, non-Hispanic   | 2,015        | 810                           | 40.20%                         | 769          | 490                           | 63.72%                         |
| Black or African-American alone                                     | 134          | 105                           | 78.36%                         | 35           | 20                            | 57.14%                         |
| Asian alone   | 0            | 0                             | N/A                            | 0            | 0                             | N/A                            |
| American Indian alone   | 324          | 145                           | 44.75%                         | 279          | 180                           | 64.52%                         |
| Pacific Islander alone  | 0            | 0                             | N/A                            | 0            | 0                             | N/A                            |
| Hispanic, any race  | 25           | 0                             | 0.00%                          | 0            | 0                             | N/A                            |
| Other (including multiple races)                                    | 224          | 59                            | 26.34%                         | 114          | 65                            | 57.02%                         |

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 McIntosh 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 535 renter households that are cost overburdened, and 755 homeowners that are cost overburdened.
- Among **elderly** households with incomes less than 50% of Area Median Income, there are 115 renter households that are cost overburdened, and 360 homeowners that are cost overburdened.
- 78.36% of African American homeowners with incomes less than 80% of Area Median Income have one or more housing problems.







## Housing Demand – Population Subsets

This section will address 5-year forecasted needs and trends for population special population subsets for McIntosh 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 McIntosh 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>McIntosh County: 2015-2020 Housing Needs by Income Threshold</b> |                   |                    |        |         |       |
|---|-------------------|--------------------|--------|---------|-------|
|   | Owner<br>Subset % | Renter<br>Subset % | Owners | Renters | Total |
| Total New Demand: 2015-2020   | 100.00%           | 100.00%            | 162    | 41      | 203   |
| Less than 30% AMI   | 10.08%            | 33.53%             | 16     | 14      | 30    |
| Less than 50% AMI   | 23.10%            | 52.06%             | 37     | 21      | 59    |
| Less than 60% AMI   | 27.71%            | 62.47%             | 45     | 26      | 70    |
| Less than 80% AMI   | 43.02%            | 70.00%             | 70     | 29      | 98    |

### 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>McIntosh County: 2015-2020 Housing Needs Age 62 and Up</b> |                   |                    |                   |                    |                  |
|---|-------------------|--------------------|-------------------|--------------------|------------------|
|   | Owner<br>Subset % | Renter<br>Subset % | Elderly<br>Owners | Elderly<br>Renters | Elderly<br>Total |
| Total New Elderly (62+) Demand: 2015-2020                     | 46.59%            | 21.94%             | 75                | 9                  | 84               |
| Elderly less than 30% AMI                                     | 4.76%             | 3.53%              | 8                 | 1                  | 9                |
| Elderly less than 50% AMI                                     | 12.86%            | 13.53%             | 21                | 6                  | 26               |
| Elderly less than 60% AMI                                     | 15.43%            | 16.24%             | 25                | 7                  | 32               |
| Elderly less than 80% AMI                                     | 24.37%            | 17.65%             | 39                | 7                  | 47               |

### 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.



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

|                                       | Owner<br>Subset % | Renter<br>Subset % | Disabled<br>Owners | Disabled<br>Renters | Disabled<br>Total |
|---------------------------------------|-------------------|--------------------|--------------------|---------------------|-------------------|
| Total New Disabled Demand (2015-2020) | 45.79%            | 44.71%             | 74                 | 18                  | <b>93</b>         |
| Disabled less than 30% AMI            | 7.54%             | 14.71%             | 12                 | 6                   | <b>18</b>         |
| Disabled less than 50% AMI            | 14.92%            | 26.76%             | 24                 | 11                  | <b>35</b>         |
| Disabled less than 60% AMI            | 17.90%            | 32.12%             | 29                 | 13                  | <b>42</b>         |
| Disabled less than 80% AMI            | 24.13%            | 36.18%             | 39                 | 15                  | <b>54</b>         |

**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.

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

|                                 | Owner<br>Subset % | Renter<br>Subset % | Veteran<br>Owners | Veteran<br>Renters | Veteran<br>Total |
|---------------------------------|-------------------|--------------------|-------------------|--------------------|------------------|
| Total New Demand (2015-2020)    | 100.00%           | 100.00%            | 162               | 41                 | 203              |
| Total Veteran Demand            | 13.55%            | 13.55%             | 22                | 6                  | <b>28</b>        |
| Veterans with Disabilities      | 5.21%             | 5.21%              | 8                 | 2                  | <b>11</b>        |
| Veterans Below Poverty          | 1.89%             | 1.89%              | 3                 | 1                  | <b>4</b>         |
| Disabled Veterans Below Poverty | 0.65%             | 0.65%              | 1                 | 0                  | <b>1</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).

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

|  | Owner<br>Subset % | Renter<br>Subset % | Owners | Renters | Total     |
|--|-------------------|--------------------|--------|---------|-----------|
| Total New Demand (2015-2020)           | 100.00%           | 100.00%            | 162    | 41      | 203       |
| Total Working Families                 | 41.18%            | 41.18%             | 67     | 17      | <b>84</b> |
| Working Families with Children Present | 19.14%            | 19.14%             | 31     | 8       | <b>39</b> |

**Population Subset Conclusions**

Based on population and household growth over the next five years, a total of 203 housing units will be needed in McIntosh County over the next five years. Of those units:

- 70 will be needed by households earning less than 60% of Area Median Income

- 32 will be needed by households age 62 and up, earning less than 60% of Area Median Income
- 42 will be needed by households with disabilities / special needs, earning less than 60% of Area Median Income
- Four will be needed by veterans living below the poverty line
- 39 will be needed by working families with children present

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

## Special Topics

## McIntosh County Disaster Resiliency Assessment

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

### C.0 Comprehensive Plans & Hazard Mitigation Plans

There are 7 key cities within the county (Eufaula, Checotah, Hanna, Stidham, Rentiesville, Hitchita, Shady Grove).

**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.

Studies have been completed for Eufala Lake to understand recreations uses and how this lake serves as a flood control mechanism.

([http://www.swt.usace.army.mil/Portals/41/docs/library/eufaula/Eufaula\\_final\\_eis/Appendix\\_E\\_Part\\_1\\_Recreation\\_Study\\_Report.pdf](http://www.swt.usace.army.mil/Portals/41/docs/library/eufaula/Eufaula_final_eis/Appendix_E_Part_1_Recreation_Study_Report.pdf) ; [http://www.swt.usace.army.mil/Portals/41/docs/library/eufaula/Final\\_Master\\_Plan.pdf](http://www.swt.usace.army.mil/Portals/41/docs/library/eufaula/Final_Master_Plan.pdf) )

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.

McIntosh County does not have a current 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.

##### Flooding

All parts of the county may be subject to flash flooding, freeze-thaw flooding and extreme precipitation that can cause flooding, unrelated to the streams and rivers. Flooding, based on FEMA FIRM maps, does not show floodplain areas in the county. The National Flood Hazard Layer (Official) is not available for this area. Flash flooding is a concern for all parts of the state after heavy precipitation.

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

Historic data on tornados between 1950-2014 there are 46 tornados documented. There were 19 injuries that occurred connected to these tornados, with 4 of those injuries happening in the 1999 tornado. There were 2 fatalities connected to tornadoes during this time period, all of which occurred in 1960. Property losses between 1950-1996 ranged from \$137,005.00 to \$1,370,250.00. (The

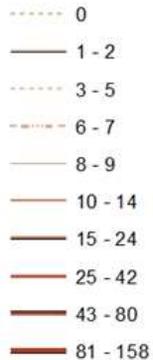
accounting methods used for losses changed in 1996.) The losses estimated between 1996-2014 was \$4,290,000.00.

# Social Vulnerability - Impacts on Housing & Disaster Resiliency

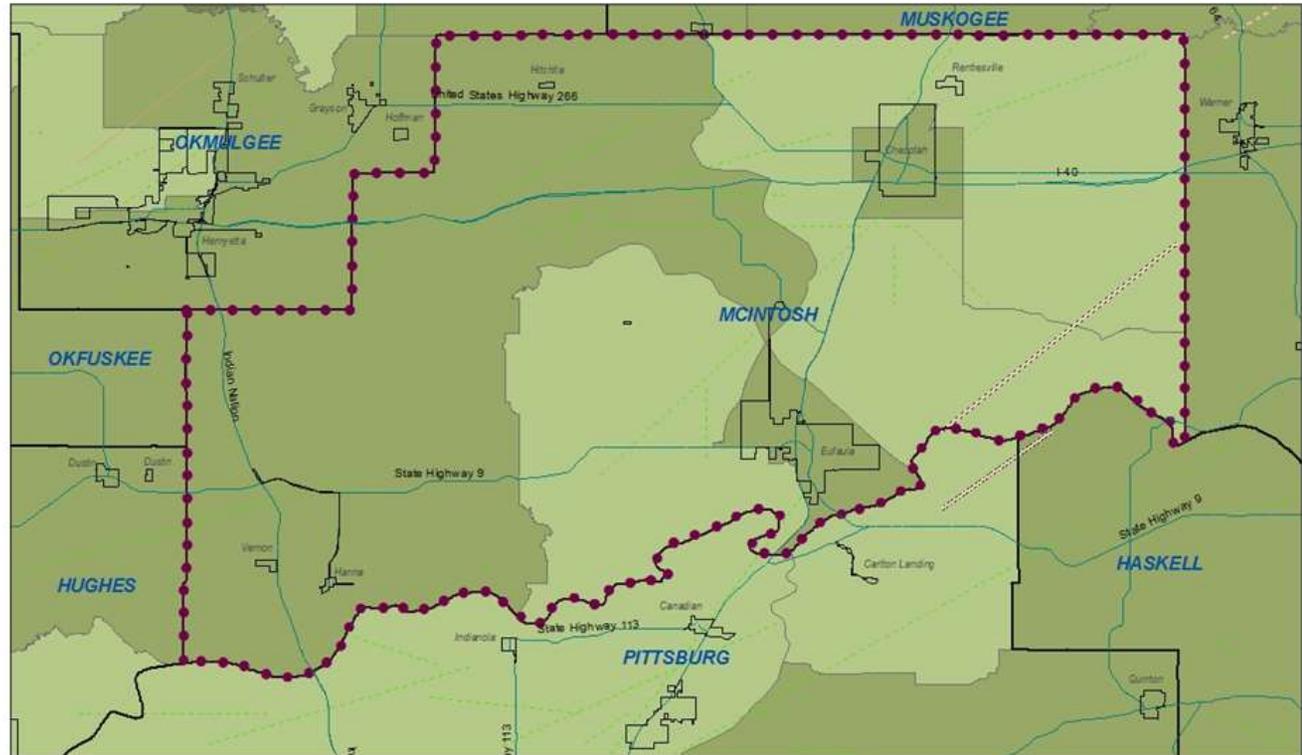
## Tornado Events 1950 - 2014

### McIntosh County

#### # of fatalities associated with event



#### Social Vulnerability Index



19XX or 20XX Year of Event

Oklahoma Municipal Boundaries

Selected County Boundary

COUNTY NAME



0 2.75 5.5 11 Miles

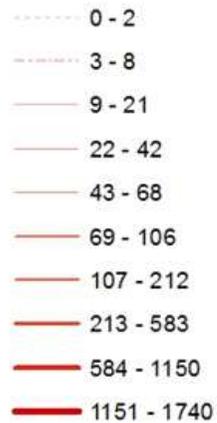
Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables B11003, B01001, B17001, B08301, B25044, B25001, B25042, B02001, B03002, B26001, B25036, B17001, B25043, B3501, B23025 & B06007

# Social Vulnerability - Impacts on Housing & Disaster Resiliency

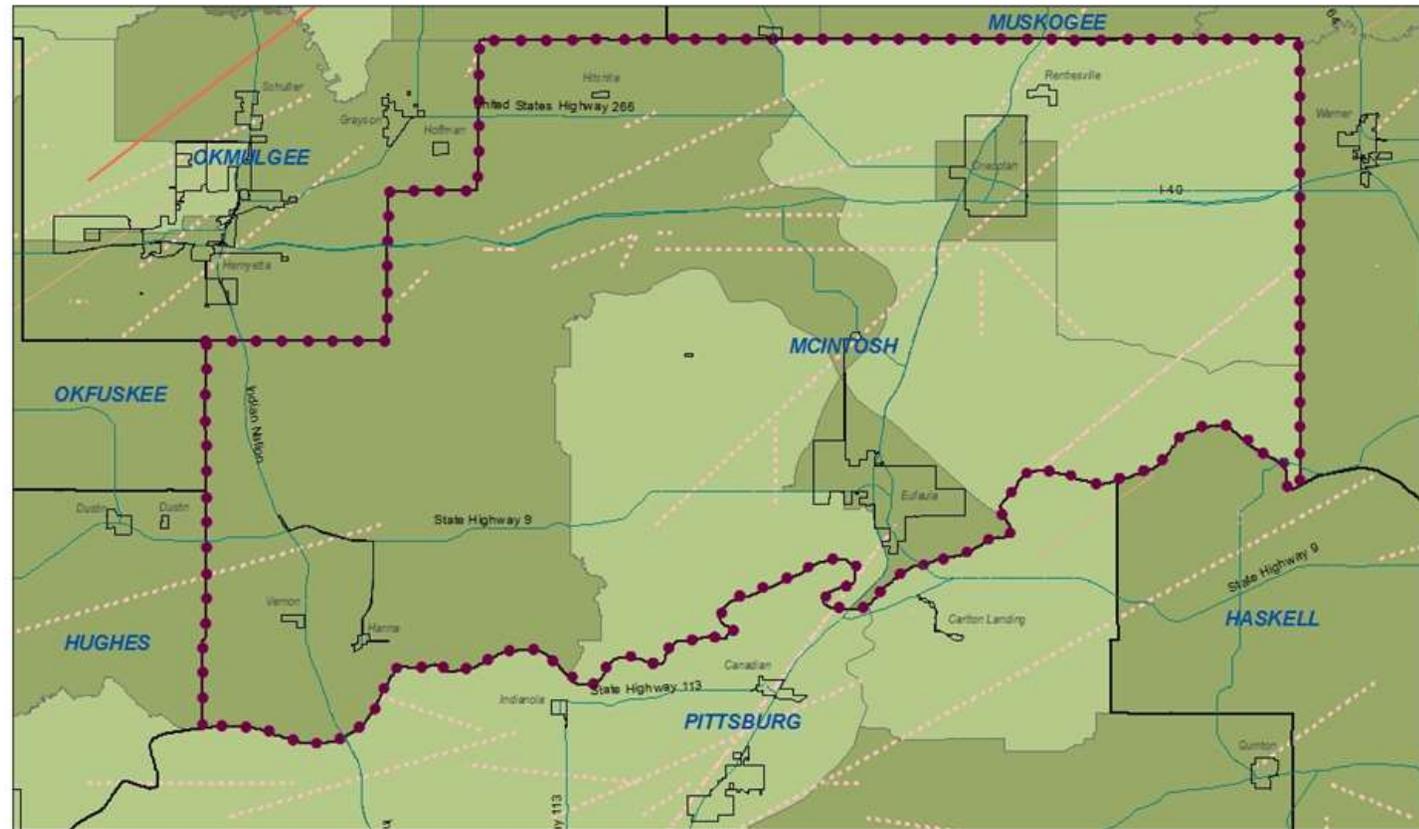
## Tornado Events 1950 - 2014

### McIntosh County

#### # of injuries associated with event



#### Social Vulnerability Index



19XX or 20XX Year of Event

○ Oklahoma Municipal Boundaries

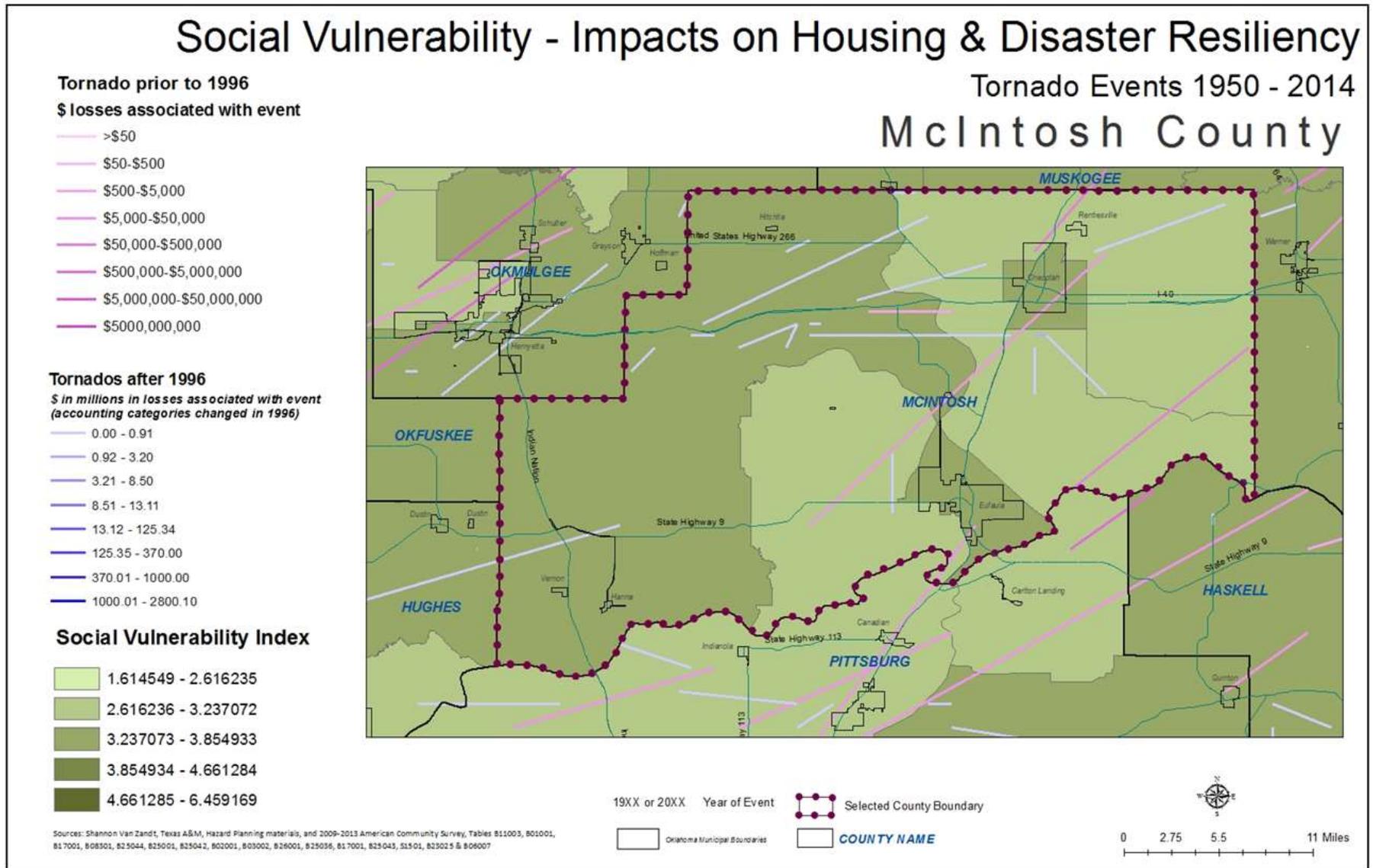
● Selected County Boundary

□ COUNTY NAME



0 2.75 5.5 11 Miles

Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables S11003, S01001, S17001, S08301, S25044, S25001, S25042, S02001, S03002, S26001, S25036, S17001, S23043, S1501, S23025 & S06007



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

City of Checotah will open up the Multiple-Purpose Building located on SW 2nd St at Checotah Intermediate School. (<http://www.checotah.net/emergencyServices.aspx>)

City of Checotah has a registration (via email): <http://www.checotah.net/emergencyServices.aspx>

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

Information not available.

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

Information not available.

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

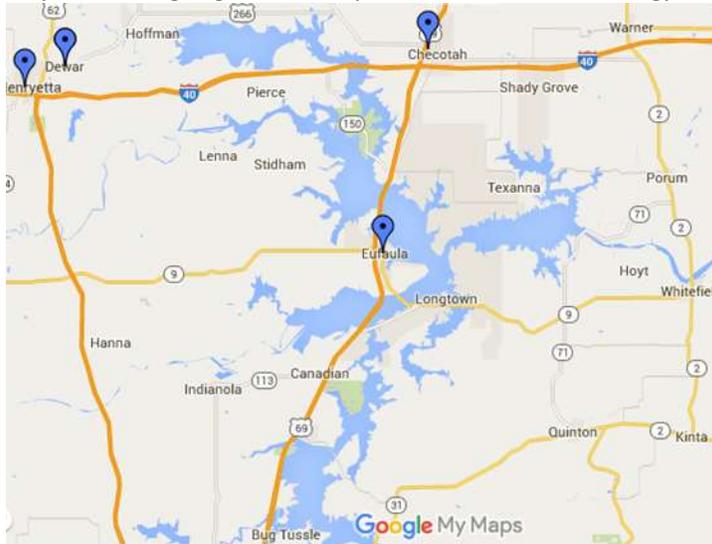
The identified Threat & Hazard Warning Systems for McIntosh County include:

Checotah has (3) three sirens located in the following locations:

- Charlie's Chicken
- Marshall Elementary
- Alternative School

Google Mapped sirens in Oklahoma:

<https://www.google.com/maps/d/u/0/viewer?mid=zkgp3PmLxLzg.kXQeGF45FpQg&hl=en>



**Social Vulnerability**

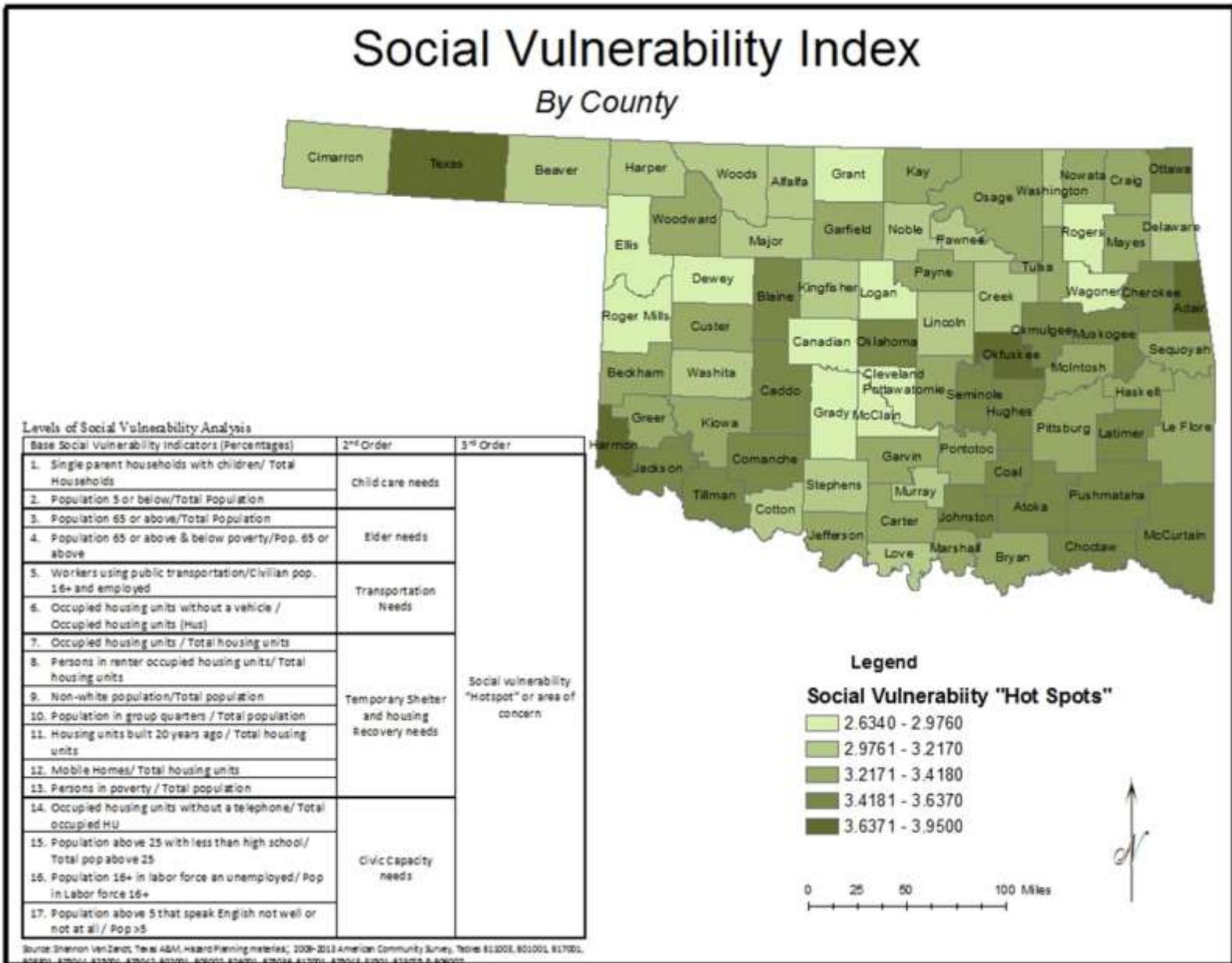
Based on the research work done by the Texas A&M University Hazard Reduction and Recovery Center, an added component is being included in this section. Social vulnerability can place households at a further disadvantage during and after a disaster. This analysis is assessing for the county the levels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

**Social Vulnerability Analysis - McIntosh County**

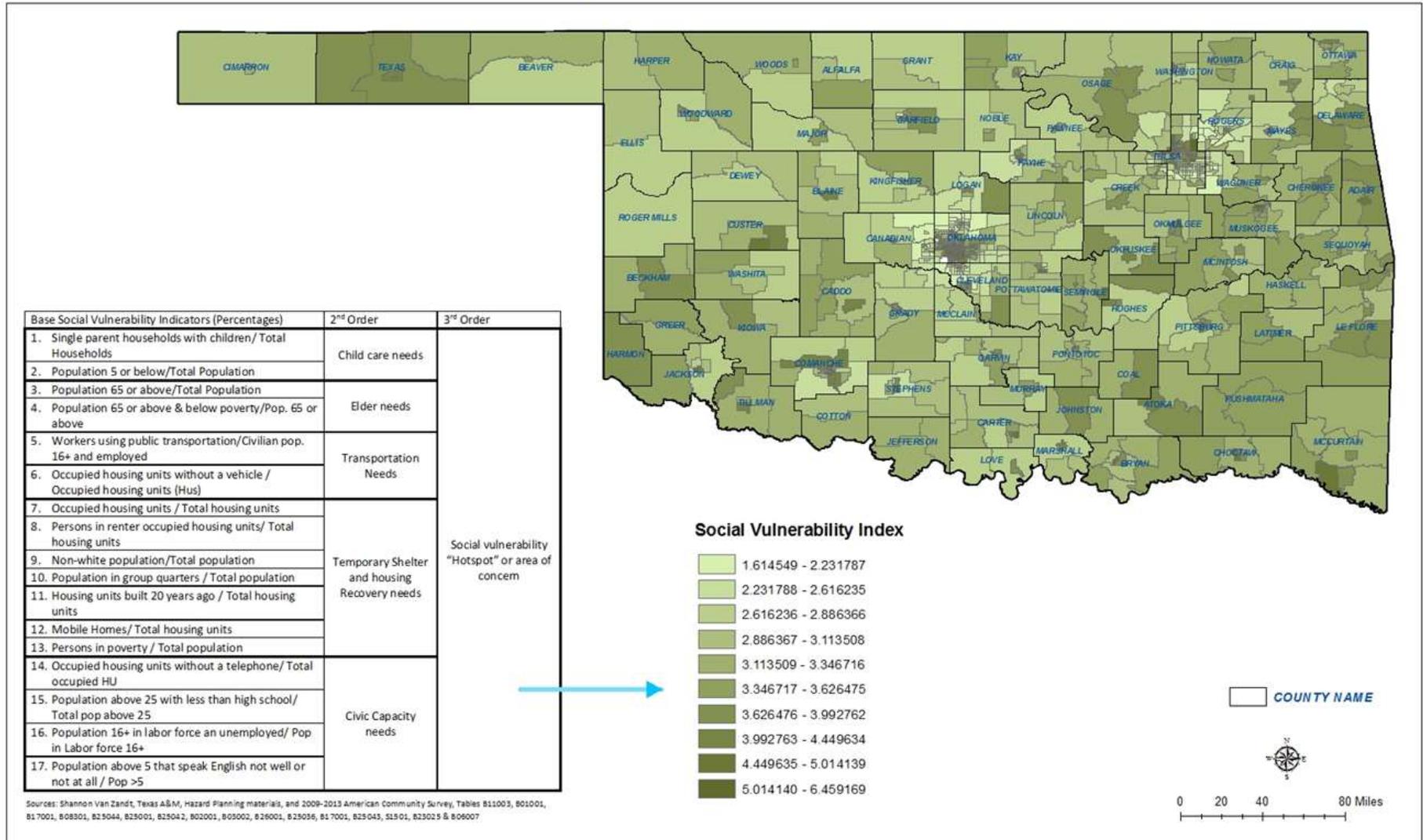
| Base Social Vulnerability Indicators (%)                  |        | 2nd Order   | 3rd Order   |
|---|--------|---|---|
| 1.) Single Parent Households                              | 10.78% | 0.161   | <b>3.31<br/>Social Vulnerability<br/>'Hotspot' or Area of<br/>Concern</b> |
| 2.) Population Under 5                                    | 5.30%  | (Child Care Needs)  |   |
| 3.) Population 65 or Above                                | 23.01% | 0.363   |   |
| 4.) Population 65 or Above & Below Poverty Rate           | 13.24% | (Elder Needs)   |   |
| 5.) Workers Using Public Transportation                   | 0.64%  | 0.059   |   |
| 6.) Occupied Housing Units w/o Vehicle                    | 5.23%  | (Transportation Needs)  |   |
| 7.) Housing Unit Occupancy Rate                           | 60.77% | 2.393<br>(Temporary Shelter<br>and Housing<br>Recovery Needs) |   |
| 8.) Rental Occupancy Rate                                 | 20.17% |   |   |
| 9.) Non-White Population                                  | 30.89% |   |   |
| 10.) Population in Group Quarters                         | 1.60%  |   |   |
| 11.) Housing Units Built Prior to 1990                    | 72.29% |   |   |
| 12.) Mobile Homes, RVs, Vans, etc.                        | 32.82% |   |   |
| 13.) Poverty Rate   | 20.73% |   |   |
| 14.) Housing Units Lacking Telephones                     | 4.35%  | 0.335<br>(Civic Capacity<br>Needs)                            |   |
| 15.) Age 25+ With Less Than High School Diploma           | 18.60% |   |   |
| 16.) Unemployment Rate                                    | 10.31% |   |   |
| 17.) Age 5+ Which Cannot Speak English Well or Not At All | 0.24%  |   |   |

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





# Social Vulnerability - Impacts on Housing & Disaster Resiliency



# Social Vulnerability - Impacts on Housing & Disaster Resiliency

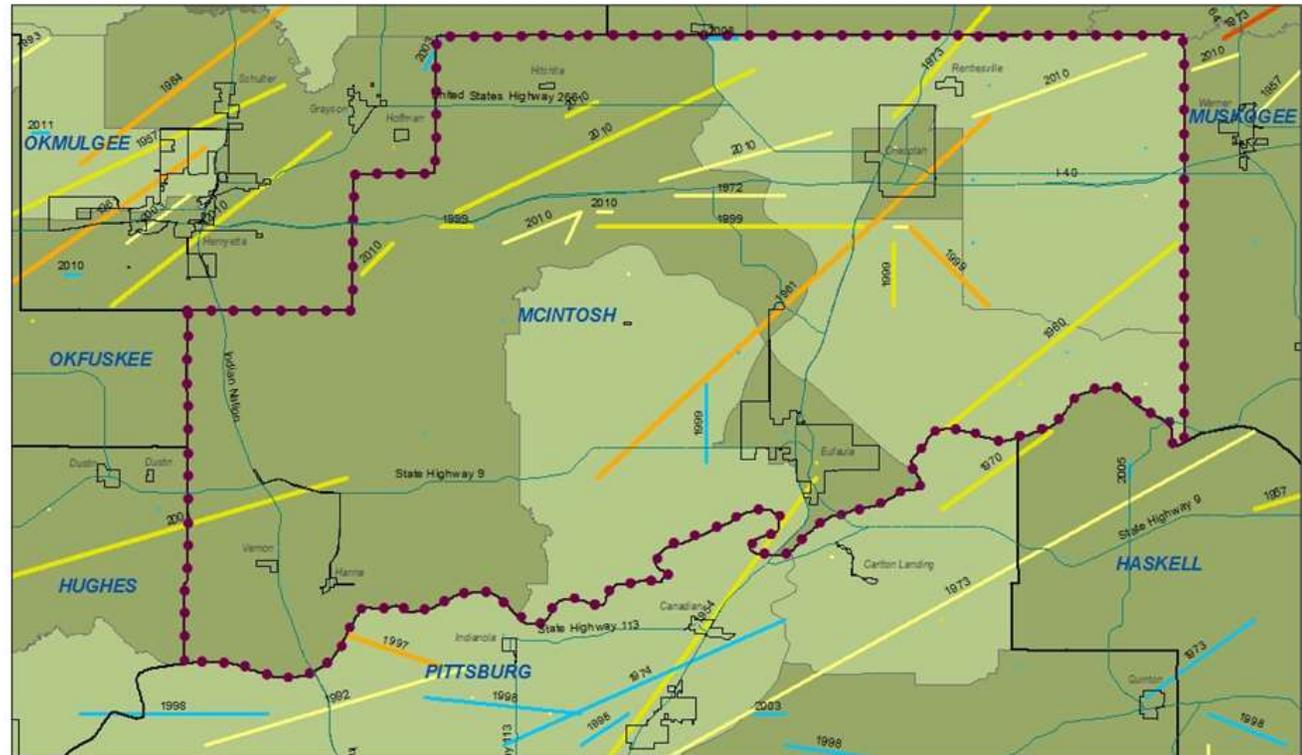
## Tornado Events 1950 - 2014

### McIntosh County

#### Tornado Magnitude



#### Social Vulnerability Index



19XX or 20XX Year of Event  
 Selected County Boundary  
 Oklahoma Municipal Boundaries  
 COUNTY NAME



0 2.75 5.5 11 Miles

Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables B11003, B01001, B17001, B08301, B25044, B25001, B25043, B02001, B03003, B26001, B25036, B17001, B25043, S1501, B23025 & B06007

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 is just below the state score per this index for social vulnerability when comparing as a county to other counties in the state. Looking at the census tract level, the western portion of the county have particularly higher scores for social vulnerability. Additionally recovery for socially vulnerable populations can be slow and may require additional outside assistance.

**Recommendations for this county:**

- 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 McIntosh 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 507 Southeastern Oklahoma

OK 507 represents McCurtain, Choctaw, Pushmataha, Bryan, Carter, Love, Pontotoc, Coal, Murray, Johnson, Atoka, Marshall, Pittsburg, Latimer, LeFlore, Haskell, McIntosh, Hughes, Okfuskee, Okmulgee, and Muskogee counties. There is a high rate of homelessness in this region, most of which seek shelter in small towns and rural areas. The majority of the homeless in this CoC are classified as chronically homeless (73). There are also a significant number of homeless that are mentally ill (49) and chronic substance abusers (50). The location of a correctional facility in this area may contribute to the disproportionate number of homeless in the CoC.

| <i>OK 507 Southeastern OK Regional</i>                           | <b>Emergency Shelter(sheltered)</b> | <b>Transitional Housing(sheltered)</b> | <b>Unsheltered</b> | <b>Total</b> |
|--|-------------------------------------|--|--------------------|--------------|
| Households without children                                      | 121                                 | 10                                     | 70                 | 201          |
| Households with at least 1 adult & 1 child                       | 32                                  | 1                                      | 20                 | 53           |
| Households with only children                                    | 0                                   | 0                                      | 0                  | 0            |
| <b>total homeless households</b>                                 | 153                                 | 11                                     | 90                 | 254          |
| <b>Persons in households without children</b>                    | 126                                 | 10                                     | 104                | 240          |
| persons age 18-24  | 19                                  | 1                                      | 23                 | 43           |
| persons over age 24  | 107                                 | 9                                      | 81                 | 197          |
| <b>Persons in households with at least 1 adult &amp; 1 child</b> | 86                                  | 3                                      | 113                | 202          |
| children under age 18  | 49                                  | 2                                      | 46                 | 97           |
| persons age 18-24  | 9                                   | 0                                      | 23                 | 32           |
| persons over 24  | 28                                  | 1                                      | 44                 | 73           |
| <b>persons in households with only 1 children</b>                | 0                                   | 0                                      | 0                  | 0            |
| <b>Total homeless persons</b>                                    | 212                                 | 13                                     | 217                | 442          |
| <b>Subpopulations</b>  | <b>Sheltered</b>                    |  | <b>Unsheltered</b> | <b>Total</b> |
| Chronically Homeless   | 23                                  |  | 50                 | 73           |
| Chronically Homeless Individuals                                 | 13                                  |  | 40                 | 53           |
| Chronically Homeless Persons in Families                         | 10                                  |  | 10                 | 20           |
| Severely Mentally Ill  | 20                                  |  | 29                 | 49           |
| Chronic Substance Abuse  | 25                                  |  | 25                 | 50           |
| Veterans   | 8                                   |  | 13                 | 21           |
| HIV/AIDS   | 1                                   |  | 2                  | 3            |
| Victims of Domestic Violence                                     | 26                                  |  | 3                  | 29           |

**CoC Number: OK-507****CoC Name: Southeastern Oklahoma Regional 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>3</sup> | Youth Beds <sup>3</sup> |
| <b>Emergency, Safe Haven and Transitional Housing</b> | <b>54</b>                 | <b>145</b>               | <b>206</b>      | <b>0</b>        | <b>351</b>          | <b>0</b>   | <b>3</b>           | <b>n/a</b>                    | <b>0</b>                  | <b>0</b>                |
| Emergency Shelter                                     | 53                        | 142                      | 189             | 0               | 331                 | 0          | 3                  | n/a                           | 0                         | 0                       |
| Transitional Housing                                  | 1                         | 3                        | 17              | 0               | 20                  | n/a        | n/a                | n/a                           | 0                         | 0                       |
| <b>Permanent Housing</b>                              | <b>19</b>                 | <b>71</b>                | <b>23</b>       | <b>0</b>        | <b>94</b>           | <b>n/a</b> | <b>n/a</b>         | <b>2</b>                      | <b>32</b>                 | <b>0</b>                |
| Permanent Supportive Housing*                         | 15                        | 58                       | 21              | 0               | 79                  | n/a        | n/a                | 2                             | 32                        | 0                       |
| Rapid Re-Housing                                      | 4                         | 13                       | 2               | 0               | 15                  | n/a        | n/a                | n/a                           | 0                         | 0                       |
| <b>Grand Total</b>                                    | <b>73</b>                 | <b>216</b>               | <b>229</b>      | <b>0</b>        | <b>445</b>          | <b>0</b>   | <b>3</b>           | <b>2</b>                      | <b>32</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 a Caucasian. Twenty-five percent of the homeless population is African American. Seven percent of the homeless in OKC identify as Native American. Less than one percent of those identified as homeless in OKC are Asian. By contrast, a relative small fraction of the State's homeless population is Hispanic/Latino. The Point in Time data identified a relatively small Hispanic homeless population, including less than 250 individuals. This follows OKC counts that identify 7% of the city's homeless population as Hispanic. Homeless advocates in OKC indicate that social networks, including churches and extended families, keep the number of homeless in the Hispanic population proportionately lower than their Non-Hispanic/Non-Latino counterparts. However, these individual likely classify as "couch homeless" and are in a continued state of being vulnerable to becoming homeless.

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

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

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

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

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

|   | Sheltered         |                       | Unsheltered | Total        |
|---|-------------------|-----------------------|-------------|--------------|
|   | Emergency Shelter | Transitional Housing* |             |              |
| Households without children <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).

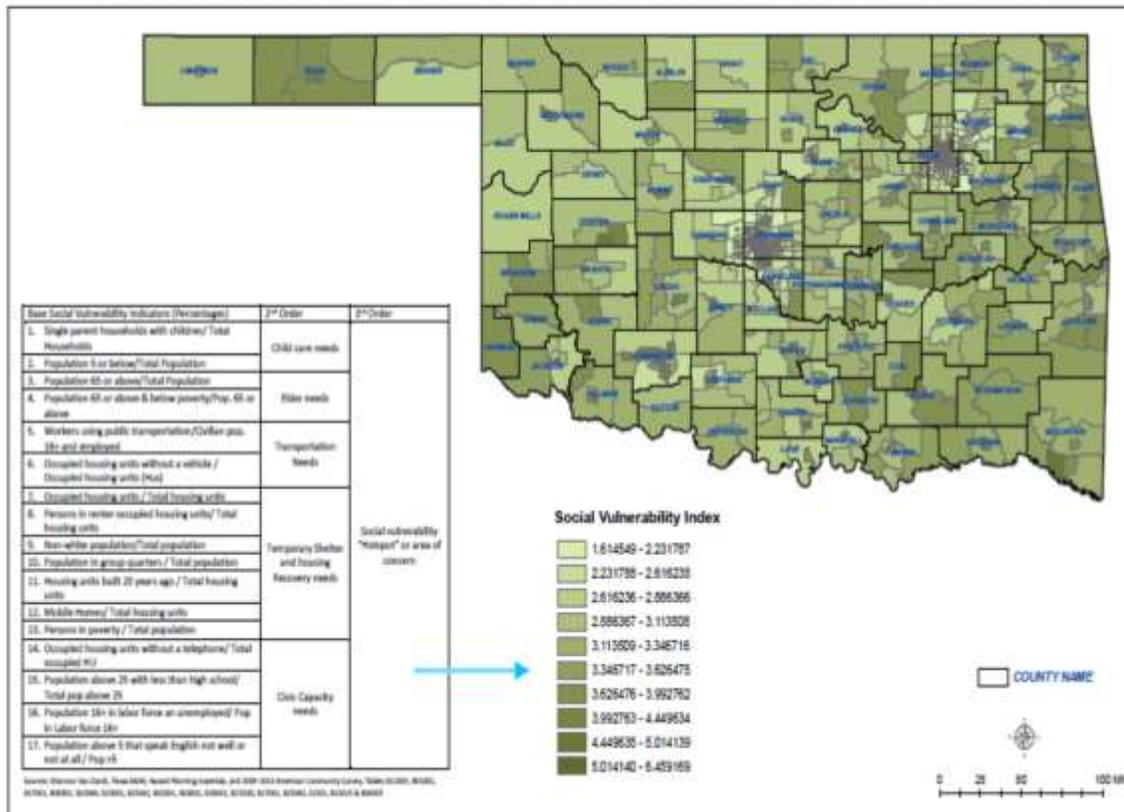
The absence of affordable housing in rural areas is a root cause of homelessness (Levinson, David, and Marcy Ross, 2007). In fact, it was noticed that many of the people were receiving monetary assistance or previously had some money saved up to spend on housing, but these measures were not enough to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

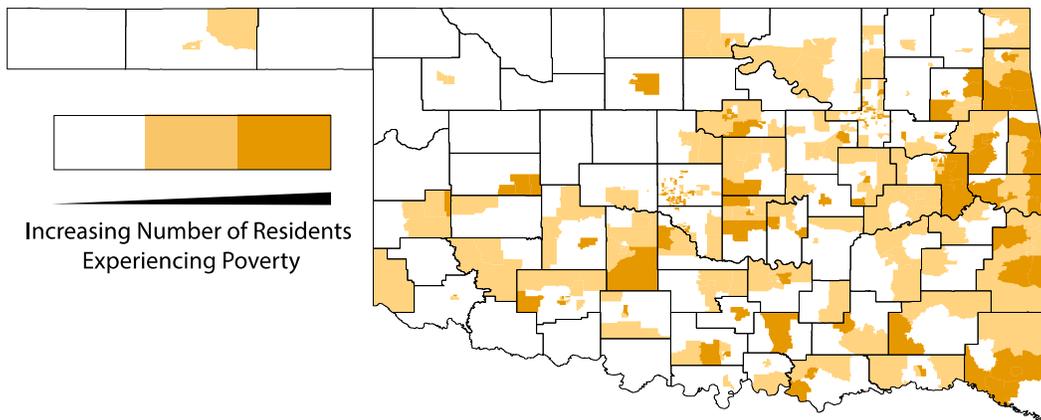
#### 1. Urban/Rural

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<br>(33.1%)         | 23,593<br>(66.9%)           |
| 515   | 5,384                          | 0                         | 5,384<br>(100%)             |
| LIHTC | 23,537                         | 8,255<br>(35.1%)          | 15,282<br>(64.9%)           |
| Total | 64,213                         | 19,954<br>(31.1%)         | 44,259<br>(68.9%)           |

2. Poverty

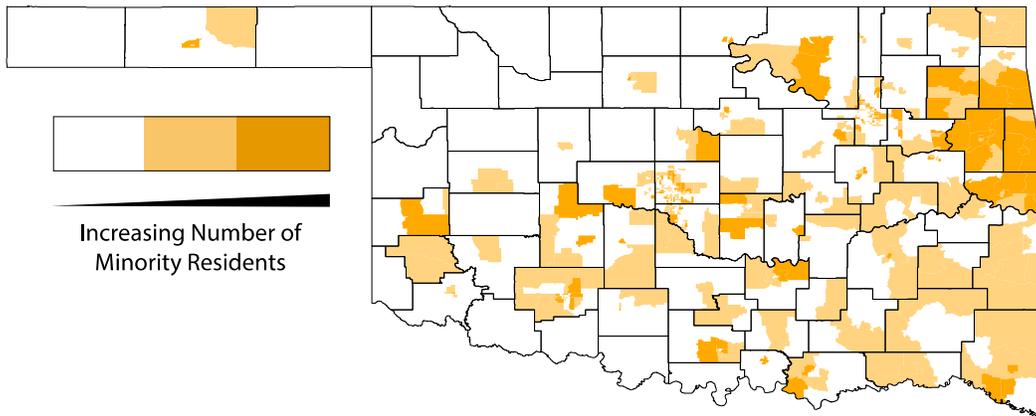
Approximately 70% of affordable housing units in Oklahoma are located in census tracts where the number of residents living in poverty is above the state average. About half of these units are located in areas of extreme poverty, where the number of individuals who are economically vulnerable exceeds 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<br>(34.8%)   | 12,464<br>(35.3%)           |
| 515   | 5,384                          | 2,093<br>(38.9%)    | 1,839<br>(34.2%)            |
| LIHTC | 23,537                         | 7,483<br>(31.8%)    | 8,924<br>(38.0%)            |
| Total | 64,213                         | 21,796<br>(33.9%)   | 23,227<br>(36.2%)           |

### 3. Non-white Enclaves

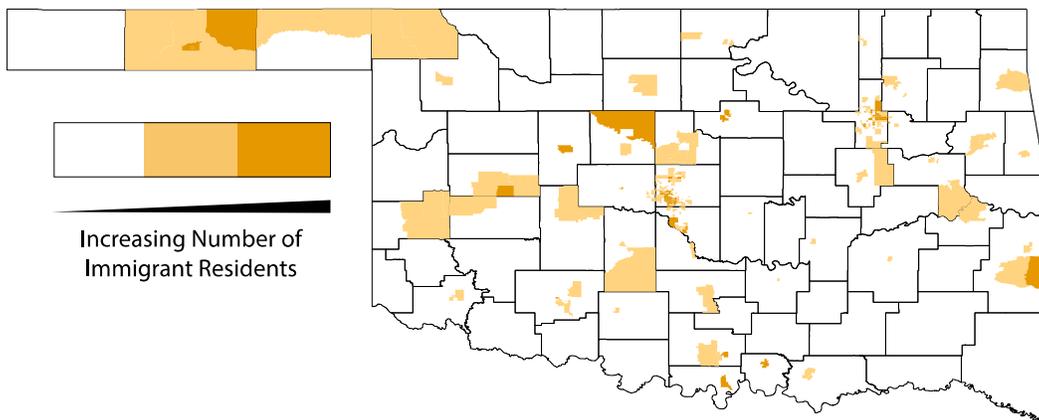
Just over 60% of affordable housing units in Oklahoma are located in census tracts where a majority of the residents are non-white. With just fewer than 24% of the total affordable housing units in census tracts heavily populated with residents who are not white – identified as census tracts where the 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<br>(36.3%)                        | 7,907<br>(22.4%)                        |
| 515   | 5,384                          | 2,229<br>(41.4%)                         | 1,288<br>(23.9%)                        |
| LIHTC | 23,537                         | 10,285<br>(43.7%)                        | 5,677<br>(24.1%)                        |
| Total | 64,213                         | 25,328<br>(39.4%)                        | 14,872<br>(23.2%)                       |

#### 4. Immigrant Enclaves

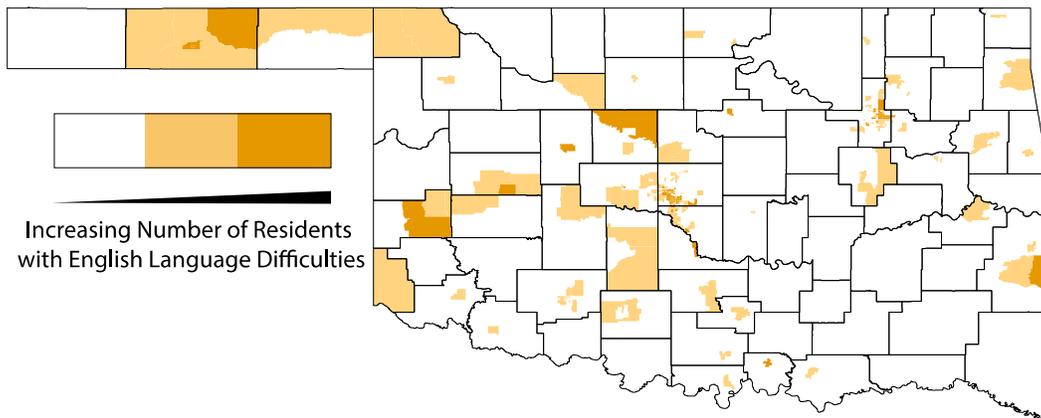
One-third of affordable housing units in Oklahoma are located in census tracts where more than the average number of residents are immigrants. About half of these units are located in areas dense with immigrants, where the number of individuals who are not citizen exceeds 349, more than one standard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



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

5. Limited English Proficiency

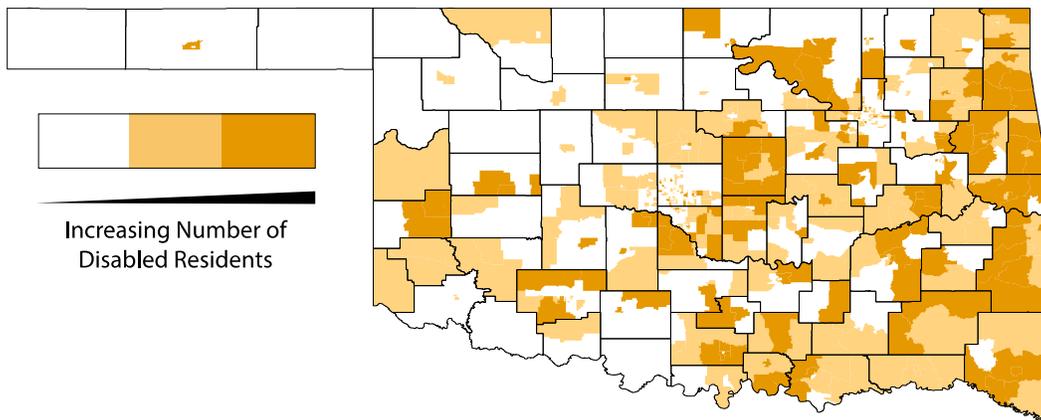
Almost 17,000 existing affordable housing units in Oklahoma are located in census tracts where more residents than average do not speak English very well. A little more than half of these units are located in areas dense with individuals with limited English proficiency, where the number of individuals 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<br>(17.7%)  | 3,122<br>(8.8%)                               |
| 515   | 5,384                          | 799<br>(14.8%)  | 240<br>(4.5%)                                 |
| LIHTC | 23,537                         | 4,034<br>(17.1%)  | 3,475<br>(14.8%)                              |
| Total | 64,213                         | 11,083<br>(17.3%)   | 6,837<br>(10.6%)                              |

6. Disability

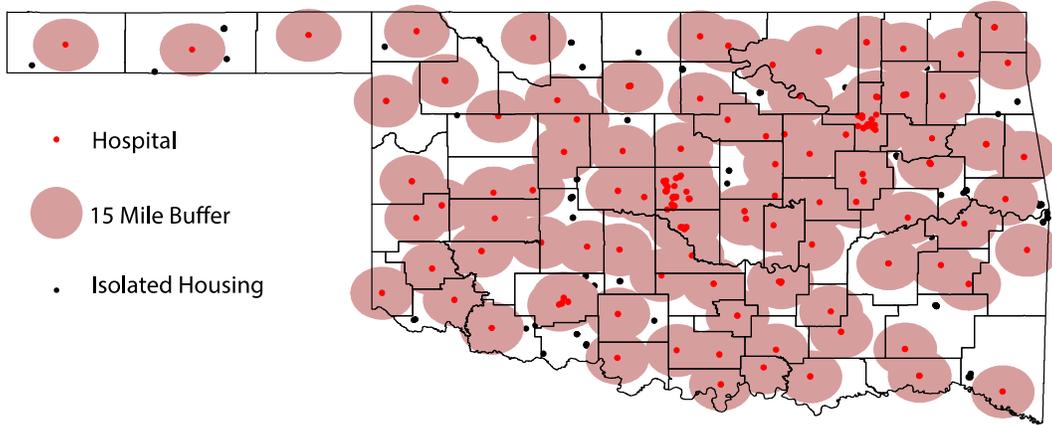
Almost 60% of existing affordable housing units in Oklahoma are located in census tracts where more residents than average have a disability. A little more than half of these units are located in areas dense with individuals with a disability, where the number of individuals who are disabled is greater 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<br>(28.6%)   | 10,722<br>(30.4%)                       |
| 515   | 5,384                          | 1,686<br>(31.3%)  | 2,594<br>(48.8%)                        |
| LIHTC | 23,537                         | 7,074<br>(30.1%)  | 6,289<br>(26.7%)                        |
| Total | 64,213                         | 18,858<br>(29.4%)   | 19,605<br>(30.5%)                       |

7. Hospitals

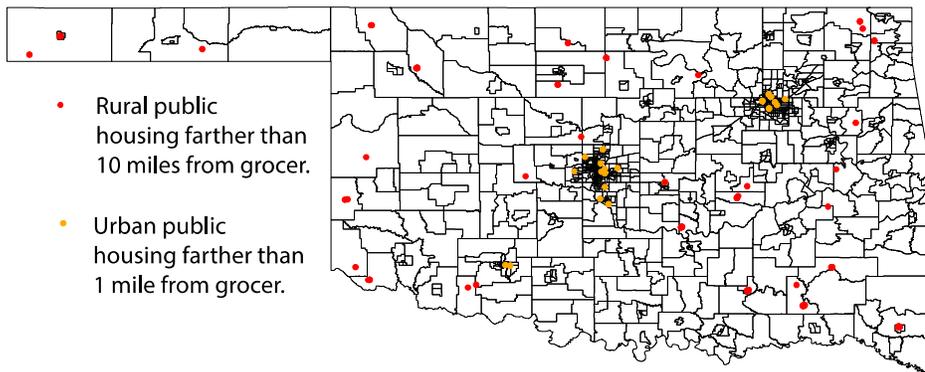
There are no affordable housing units more than 30 miles from a hospital. Approximately 2.6% of affordable housing units are farther than 15 miles from the nearest hospital. As indicated by the larger percentage of Rural Rental Housing Loan units, most of these are located in rural areas.



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

8. Grocery Stores

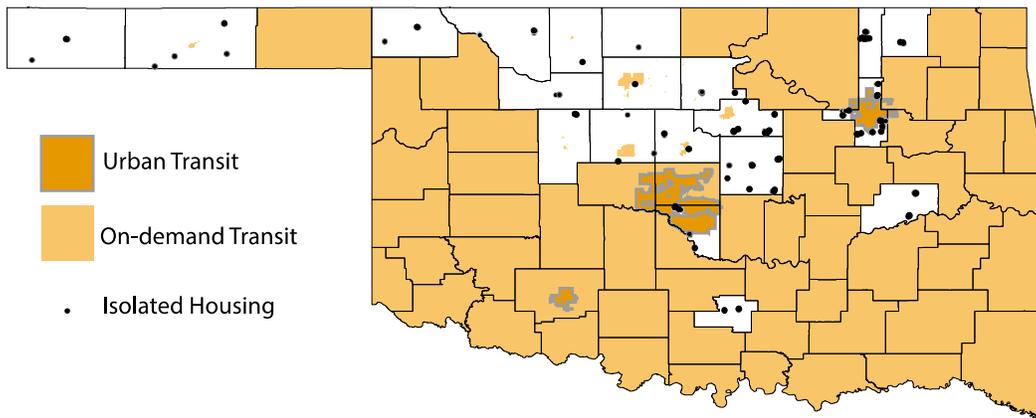
Approximately 7.8% of affordable housing units are in areas that are classified as food deserts. According to the United States Department of Agriculture, food deserts exist in urban environments further than 1 mile from a grocery store and in rural environments further than 10 miles from a grocery store (<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<br>(4.2%)                    | 1,097<br>(3.1%)                    |
| 515   | 5,384                          | 0                                  | 466<br>(8.7%)                      |
| LIHTC | 23,537                         | 1,175<br>(5.0%)                    | 769<br>(3.3%)                      |
| Total | 64,213                         | 2,668<br>(4.2%)                    | 2,332<br>(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<br>(11.4%) | 11,265<br>(31.9%) | 19,992<br>(56.6%) |
| 515   | 5,384                          | 767<br>(14.2%)   | 0                 | 4,617<br>(85.8%)  |
| LIHTC | 23,537                         | 3,565<br>(15.1%) | 8,217<br>(34.9%)  | 11,755<br>(49.9%) |
| Total | 64,213                         | 8,367<br>(13.0%) | 19,482<br>(30.3%) | 36,363<br>(56.6%) |

**What does this mean for Oklahoma?**

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

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

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

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

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

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

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**Data Sources**

## 2014 American Community Survey Estimates

- Poverty: ACS\_13\_5YR\_S1701 > HC02\_EST\_VC01 > Below poverty level; Estimate; Population for whom poverty status is determined
- Non-white enclaves: ACS\_13\_5YR\_BO2001 > HD01\_VD02 > [Total Population] - Estimate; Total: - White alone
- Immigrant enclaves: ACS\_13\_5YR\_BO5001 > HD01\_VD06 > Estimate; Total: - Not a U.S. citizen
- Limited English Proficiency: ACS\_13\_5YR\_S1601 > HC03\_EST\_VC01 > Percent of specified language speakers - Speak English less than "very well"; Estimate; Population 5 years and over
- Disability: ACS\_13\_5YR\_S1810 > HC02\_EST\_VC01 > with a disability; estimate; total civilian noninstitutionalized population

## University of Oklahoma Center for Spatial Analysis: Data Warehouse

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

## University of Oklahoma Division of Regional and City Planning

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

**Appendix 1: County affordable housing Summaries**

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

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

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

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

## Lead-Based Paint Hazards

### Findings / Health and Well-being

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

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

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

### Statewide Findings

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

| <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 EBL cases and proportion of minority population. Zip codes with higher EBL prevalence and/or minority populations (Hispanic/African American/American Indian) were ranked higher and given the designation as HRTA zip codes.

### **McIntosh County Findings**

The number of housing units in McIntosh 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 McIntosh 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 McIntosh 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 McIntosh County.

| <b>Total Housing Units in McIntosh 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   | 3,000               | 3.57%                 | 107                  |
| 1960-1977   | 2,066               | 11.18%                | 231                  |
| 1940-1959   | 620                 | 38.48%                | 239                  |
| 1939 or Earlier   | 500                 | 63.38%                | 317                  |
| <b>Total</b>  | <b>6,185</b>        | <b>14.44%</b>         | <b>893</b>           |
| Total Renter-Occupied Housing Units   | Total Housing Units | Percent w/LBP Hazards | Number w/LBP Hazards |
| 1978 or Later   | 549                 | 3.57%                 | 20                   |
| 1960-1977   | 527                 | 11.18%                | 59                   |
| 1940-1959   | 255                 | 38.48%                | 98                   |
| 1939 or Earlier   | 355                 | 63.38%                | 225                  |
| <b>Total</b>  | <b>1,685</b>        | <b>23.83%</b>         | <b>402</b>           |
| Total Housing Units   | Total Housing Units | Percent w/LBP Hazards | Number w/LBP Hazards |
| 1978 or Later   | 3,548               | 3.57%                 | 126                  |
| 1960-1977   | 2,592               | 11.18%                | 290                  |
| 1940-1959   | 875                 | 38.48%                | 337                  |
| 1939 or Earlier   | 855                 | 63.38%                | 542                  |
| <b>Total</b>  | <b>7,870</b>        | <b>16.45%</b>         | <b>1,295</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 McIntosh County with lead-based paint hazards, occupied by households with low-to-moderate incomes, by tenure:

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

| Owner-Occupied Housing<br>Units < 50% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|---|------------------------|--------------------------|-------------------------|
| 1978 or Later                             | 652                    | 3.57%                    | 23                      |
| 1960-1977                                 | 468                    | 11.18%                   | 52                      |
| 1940-1959                                 | 190                    | 38.48%                   | 73                      |
| 1939 or Earlier                           | 145                    | 63.38%                   | 92                      |
| <b>Total</b>                              | <b>1,455</b>           | <b>16.53%</b>            | <b>241</b>              |

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| Renter-Occupied Housing<br>Units < 50% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|--|------------------------|--------------------------|-------------------------|
| 1978 or Later                              | 247                    | 3.57%                    | 9                       |
| 1960-1977                                  | 284                    | 11.18%                   | 32                      |
| 1940-1959                                  | 145                    | 38.48%                   | 56                      |
| 1939 or Earlier                            | 175                    | 63.38%                   | 111                     |
| <b>Total</b>                               | <b>850</b>             | <b>24.38%</b>            | <b>207</b>              |

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| Total Housing Units<br>< 50% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|----------------------------------|------------------------|--------------------------|-------------------------|
| 1978 or Later                    | 899                    | 3.57%                    | 32                      |
| 1960-1977                        | 752                    | 11.18%                   | 84                      |
| 1940-1959                        | 335                    | 38.48%                   | 129                     |
| 1939 or Earlier                  | 320                    | 63.38%                   | 203                     |
| <b>Total</b>                     | <b>2,305</b>           | <b>19.43%</b>            | <b>448</b>              |

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

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

| Owner-Occupied Housing<br>Units 50%-80% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|---|------------------------|--------------------------|-------------------------|
| 1978 or Later                               | 556                    | 3.57%                    | 20                      |
| 1960-1977                                   | 455                    | 11.18%                   | 51                      |
| 1940-1959                                   | 85                     | 38.48%                   | 33                      |
| 1939 or Earlier                             | 85                     | 63.38%                   | 54                      |
| <b>Total</b>                                | <b>1,180</b>           | <b>13.32%</b>            | <b>157</b>              |

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| Renter-Occupied Housing<br>Units 50%-80% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|--|------------------------|--------------------------|-------------------------|
| 1978 or Later                                | 94                     | 3.57%                    | 3                       |
| 1960-1977                                    | 77                     | 11.18%                   | 9                       |
| 1940-1959                                    | 35                     | 38.48%                   | 13                      |
| 1939 or Earlier                              | 75                     | 63.38%                   | 48                      |
| <b>Total</b>                                 | <b>280</b>             | <b>26.03%</b>            | <b>73</b>               |

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| Total Housing Units<br>50%-80% AMI | Total Housing<br>Units | Percent w/LBP<br>Hazards | Number w/LBP<br>Hazards |
|------------------------------------|------------------------|--------------------------|-------------------------|
| 1978 or Later                      | 649                    | 3.57%                    | 23                      |
| 1960-1977                          | 531                    | 11.18%                   | 59                      |
| 1940-1959                          | 120                    | 38.48%                   | 46                      |
| 1939 or Earlier                    | 160                    | 63.38%                   | 101                     |
| <b>Total</b>                       | <b>1,460</b>           | <b>15.76%</b>            | <b>230</b>              |

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

To conclude, we estimate that there are a total of 1,295 homes in McIntosh County containing lead-based paint hazards, 893 owner-occupied and 402 renter-occupied. Of the 1,295 homes in the county estimated to have lead-based paint hazards, 448 are estimated to be occupied by households with low-incomes (incomes less than 50% of Area Median Income), and 230 are estimated to be occupied by households with moderate incomes (between 50% and 80% of Area Median Income), for a total of 678 housing units in McIntosh 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 McIntosh 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:

| <b>Housing Units in McIntosh County with Lead-Based Paint Hazards with Children under Age 6 Present Occupied by Low or Moderate-Income Families</b> |                     |                       |                      |
|---|---------------------|-----------------------|----------------------|
| Housing Units < 50% AMI w/ Children under 6 Present   | Total Housing Units | Percent w/LBP Hazards | Number w/LBP Hazards |
| 1978 or Later   | 120                 | 3.57%                 | 4                    |
| 1940-1977   | 109                 | 19.98%                | 22                   |
| 1939 or Earlier   | 34                  | 63.38%                | 22                   |
| <b>Total</b>  | <b>263</b>          | <b>18.12%</b>         | <b>48</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   | 94                  | 3.57%                 | 3                    |
| 1940-1977   | 71                  | 19.98%                | 14                   |
| 1939 or Earlier   | 14                  | 63.38%                | 9                    |
| <b>Total</b>  | <b>179</b>          | <b>14.78%</b>         | <b>26</b>            |
| Total LMI Housing Units w/ Children Present   | Total Housing Units | Percent w/LBP Hazards | Number w/LBP Hazards |
| 1978 or Later   | 214                 | 3.57%                 | 8                    |
| 1940-1977   | 181                 | 19.98%                | 36                   |
| 1939 or Earlier   | 48                  | 63.38%                | 30                   |
| <b>Total</b>  | <b>442</b>          | <b>16.76%</b>         | <b>74</b>            |
| Total Housing Units w/ Children Present   | Total Housing Units | Percent w/LBP Hazards | Number w/LBP Hazards |
| 1978 or Later   | 408                 | 3.57%                 | 15                   |
| 1940-1977   | 280                 | 19.98%                | 56                   |
| 1939 or Earlier   | 103                 | 63.38%                | 65                   |
| <b>Total</b>  | <b>791</b>          | <b>17.17%</b>         | <b>136</b>           |

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

As shown, we estimate there are 136 housing units in McIntosh County with lead-based paint hazards and children under the age of six present, and that 74 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

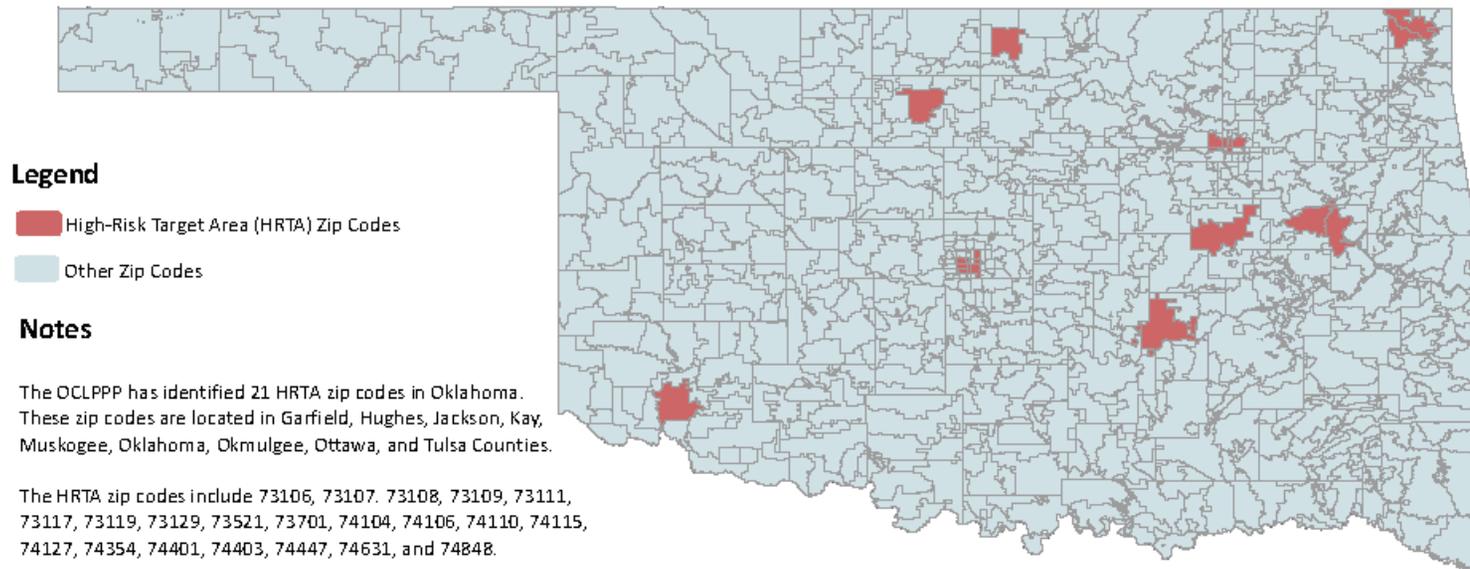
U.S. Department of Housing and Urban Development, Office of Healthy Homes and Lead Hazard Control, "American Healthy Homes Survey, Lead and Arsenic Findings", April 2011

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

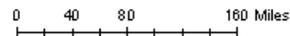
**Notes**

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 McIntosh 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.

McIntosh County has undergone steady growth over the last fifteen years, in terms of population and household 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 include Lakehurst Senior Living (40 affordable housing units for seniors completed in 2009) and Lakehurst Village (35 affordable housing units for families currently under construction) There has been new construction of single family homes for ownership, and although some of this construction appears reasonably affordable (priced near \$125,000) the average price of homes constructed since 2010 is estimated to be \$205,935, which is well above what could be afforded by a household earning at or less than median household income for McIntosh County (\$37,531 in 2015).

McIntosh County has a relatively high rate of renters with high rent costs (40.29%) as well as homeowners with high ownership costs (19.83%). The county's poverty rate is also above the state, at 20.73% compared with 16.85% statewide.

In terms of disaster resiliency we note that 46 tornadoes have impacted the county between 1959 and 2014, with 19 injuries and two fatalities combined.

McIntosh County is located within the Southeastern Oklahoma Continuum of Care (CoC), which provides services to the area's homeless populations among other functions. Throughout the entire Southeastern Oklahoma CoC, there are an estimated 442 homeless persons, 225 of which are estimated to be sheltered. Many in the region are chronically homeless (73 persons) and other notable subpopulations include the mentally ill and chronic substance abusers.

In terms of fair housing issues, many affordable housing units are located in areas with high numbers of persons with one or more disabilities, and all affordable housing units included in our study lack readily available transit.

Due to the age of the county's housing stock, lead-based paint hazards are an issue, with an estimated 1,295 occupied housing units with such hazards, and 136 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 McIntosh County. While the upper end of the market is being satisfied, the lower end of the population that requires rental and moderate cost ownership property has a more limited product available. As the population continues to grow in McIntosh County as a whole, this demand will continue to increase. We estimate the county will need 162 housing units for ownership and 41 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  
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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  
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RALEIGH, NC - Chris R. Morris, MAI, FRICS  
RICHMOND, VA - Kenneth L. Brown, MAI, CCIM, FRICS  
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SAN FRANCISCO, CA - Jan Kleczewski, MAI, FRICS  
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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  
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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)

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

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

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

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

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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**

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)

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**

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|   |  |
|---|--|
| <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**

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|  |                      |
|--|----------------------|
| <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

---

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:<br/>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<br>Tridib Banerjee, PhD<br>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:<br/>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.<br>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:<br/>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.<br>Lowery, B.C. and D.C. Sloane   |      |

### Presentations

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

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

Teaching Experience

---

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

Other Experience

---

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

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

