



January 21, 2016

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

SUBJECT: Housing Needs Assessment

Ottawa County

IRR - Tulsa/OKC File No. 140-2015-0071

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 Ottawa County Residential Housing Market Analysis. Analyst Wendelene Rios personally inspected the Ottawa County area during the month of July 2015 to collect the data used in the preparation of the Ottawa 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 21, 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

Introduction and Executive Summary	1	Housing Stock Analysis	29
General Information	4	Existing Housing Units	29
Purpose and Function of the Market Stud	-	Housing by Units in Structure	29
Effective Date of Consultation	4	Housing Units Number of Bedrooms and	
Scope of the Assignment	4	Tenure	30
Data Sources	4	Housing Units Tenure and Household	
		Income	30
Ottawa County Analysis	6	Housing Units by Year of Construction an	
Area Information	6	Tenure	32
Access and Linkages	6	Substandard Housing	33
Educational Facilities	7	Vacancy Rates	33
Medical Facilities	7	Building Permits	34
Demographic Analysis	10	New Construction Activity	35
Population and Households	10	Homeownership Market	36
Population by Race and Ethnicity	11	Housing Units by Home Value	36
Population by Age	11	Ottawa County Median Home Values by	
Families by Presence of Children	13	Census Tract	38
Population by Presence of Disabilities	14	Home Values by Year of Construction	39
Group Quarters Population	16	Miami Single Family Sales Activity	39
Household Income Levels	16	Foreclosure Rates	40
Household Income Trend	18	Rental Market	42
Poverty Rates	19	Gross Rent Levels	42
Economic Conditions	20	Miami Rental Survey Data	43
Employment and Unemployment	20	Rental Market Vacancy – Miami	44
Employment Level Trends	20	Summary of HUD Subsidized Properties	46
Unemployment Rate Trends	21	Projected Housing Need	51
Employment and Wages by Indust		Consolidated Housing Affordability Strate	
Supersector	22	(CHAS)	сьу 51
Working Families	25	Cost Burden by Income Threshold	51
Major Employers	26	Substandard Conditions / Overcrowding	
Commuting Patterns	27	Income Threshold	~y ⊑2



Table of Contents

Cost Burden by Household Type	56
Housing Problems by Household Type	58
Housing Problems by Race / Ethnicity	60
CHAS Conclusions	62
Overall Anticipated Housing Demand	64
Miami Anticipated Demand	64
Ottawa County Anticipated Demand	64
Housing Demand – Population Subsets	66
Housing Needs by Income Thresholds	66
Elderly Housing Needs	66
Housing Needs for Persons with Disabilities	S
/ Special Needs	66
Housing Needs for Veterans	67
Housing Needs for Working Families	67
Population Subset Conclusions	68
Special Topics	69
Ottawa County Disaster Resiliency Assessmen	t70
C.0 Comprehensive Plans & Hazard	
Mitigation Plans	70
C.2.1.1. Historical Data on Natural Disaster	S
	71
C.2.1.2; C.2.1.6; C.2.1.7; C.2.1.8 Shelters	
from Disaster Event	78
C.2.1.3 Public Policy and Governance to	
Build Disaster Resiliency	78
C.2.1.4 Local Emergency Response Agency	
	78
C.2.1.5 Threat & Hazard Warning Systems	78
Social Vulnerability	79
Homelessness	84
By Continuum of Care	84

A Snap Shot of Homelessness in the State	87
Rural Areas	91
At Risk For Homelessness	93
Findings and Recommendations	95
Fair Housing	98
Summary	98
Key Findings:	98
Recommendations:	98
Appendix 1: County affordable housing	
Summaries	113
Lead-Based Paint Hazards	117
Ottawa County Findings	119
Conclusions	131

Addenda

A. AcknowledgmentsB. 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 Ottawa County is projected to grow by 0.48% per year over the next five years, underperforming the State of Oklahoma.
- 2. Ottawa County is projected to need a total of 216 housing units for ownership and 81 housing units for rent over the next five years.
- 3. Median Household Income in Ottawa County is estimated to be \$38,156 in 2015, compared with \$47,049 estimated for the State of Oklahoma. The poverty rate in Ottawa County is estimated to be 21.97%, compared with 16.85% for Oklahoma.
- 4. Vacancy rates for rental units are lower in Ottawa County compared with the rest of the state, while vacancy among homes for ownership are slightly higher.
- 5. Home values and rental rates in Ottawa County are also lower than the state averages.
- 6. Approximately 38.47% of renters and 18.12% of owners are housing cost overburdened, both percentages are slightly lower than the state as a whole (40.01% and 19.12% respectively).



Disaster Resiliency Specific Findings and Recommendations:

- 1. Maintain county Hazard Mitigation Plan.
- 2. Tornadoes (1959-2014): Number: 33 Injuries: 473 Fatalities: 22 Damages (1996-2014): \$75,300,000.00
- 3. Social Vulnerability: Above the state score; at the census tract level, the Miami area and eastern portion of the county have particularly higher scores
- 4. Floodplain: Miami, Picher, Wyandotte, and Fairland have notable development within or near the floodplain

Homelessness Specific Findings

- 1. Ottawa County is located in the Northeast Oklahoma Continuum of Care.
- 2. There are an estimated 383 homeless individuals in this area, 300 of which are identified as sheltered.
- 3. There is a disproportionately high number of homeless households comprised of children in this CoC (24 out of 300).
- 4. This area also has a high incidence of homeless victims of domestic violence (168).
- 5. The majority of homeless veterans are unsheltered.

Fair Housing Specific Findings

- 1. Units nearer elevated number of disabled persons: 96
- 2. Units located in a food desert: 84

Lead-Based Paint Specific Findings

- 1. We estimate there are 2,631 occupied housing units in Ottawa County with lead-based paint hazards.
- 2. 1,262 of those housing units are estimated to be occupied by low-to-moderate income households.
- 3. We estimate that 385 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 Ottawa 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 Ottawa 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 Ottawa County.



General Information 4

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 Ottawa County, Oklahoma. The analysis will consider existing supply and projected demand and overall market trends in the Ottawa County area.

Effective Date of Consultation

The Ottawa County area was inspected and research was performed during July, 2015. The effective date of this analysis is July 7, 2015. The date of this report is January 21, 2016. The market study is valid only as of the stated effective date or dates.

Scope of the Assignment

- 1. The Ottawa County area was inspected during July, 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



General Information 5

- 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



Ottawa County Analysis

Area Information

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

Ottawa County is located in northeastern Oklahoma. The county is bordered on the north by Kansas, on the west by Craig County, on the south by Delaware County, and on the east by Missouri. The Ottawa County Seat is Miami, which is located in the central part of the county. This location is approximately 89.1 miles northeast of Tulsa and 194 miles northeast of Oklahoma City.

Ottawa County has a total area of 485 square miles (471 square miles of land, and 14 square miles of water), ranking 74th out of Oklahoma's 77 counties in terms of total area. The total population of Ottawa County as of the 2010 Census was 31,848 persons, for a population density of 68 persons per square mile of land.

Access and Linkages

The county has above average accessibility to state and national highway systems. There are multiple national and state highway systems that run through Ottawa County. These are I-44, US-59, US-60, OK-125, OK-137, and OK-10. The nearest interstate highway is I-44, which dissects the county from the northeast to the southwest. The county also has an intricate network of county roadways.

Pelivan Transit provides a demand-response transportation service. The local market perceives public transportation as average compared to other communities in the region of similar size. However, the primary mode of transportation in this area is private automobiles by far.

Miami Municipal Airport is located north of the city and operates a 5,020 foot asphalt runway, averaging 33 aircraft operations per day. The closest full service airport is the Joplin Regional Airport, approximately 34.1 miles northeast. In addition to the municipal and regional airports, the Tulsa International Airport is within driving distance of Ottawa County.



Educational Facilities

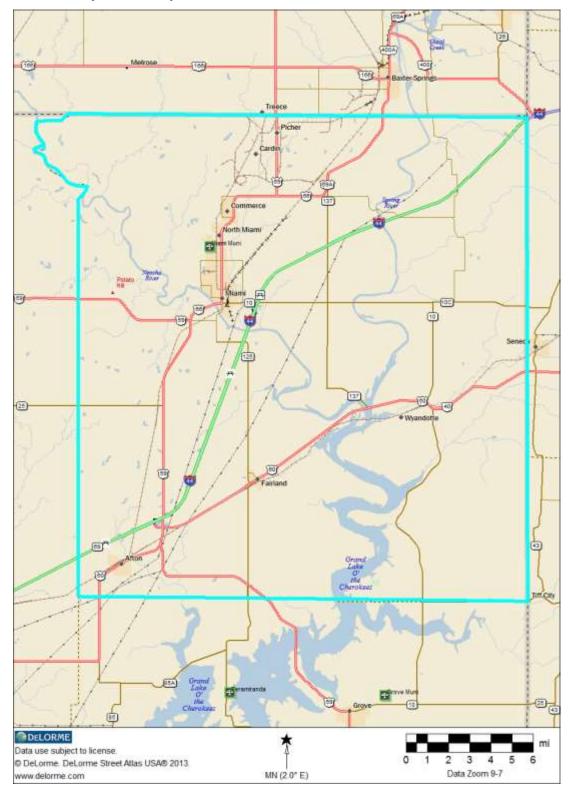
All of the county communities have public school facilities. Miami is served by Miami Public Schools. Miami Public Schools is comprised of one special academy, five elementary schools, and one middle school and high school. Miami is also home to Northeastern Oklahoma A&M College, which offers a variety of associate degrees and certificate programs.

Medical Facilities

Medical services are provided by INTEGRIS Baptist Regional Health Center: this facility is licensed for 123 beds and provides a variety of inpatient and outpatient services, including critical care and surgical services, comprehensive rehabilitation, geriatric behavioral health, diabetes management, hospice, home health care and home medical equipment. The smaller county communities typically have either small outpatient medical services or doctor's officing in the community.

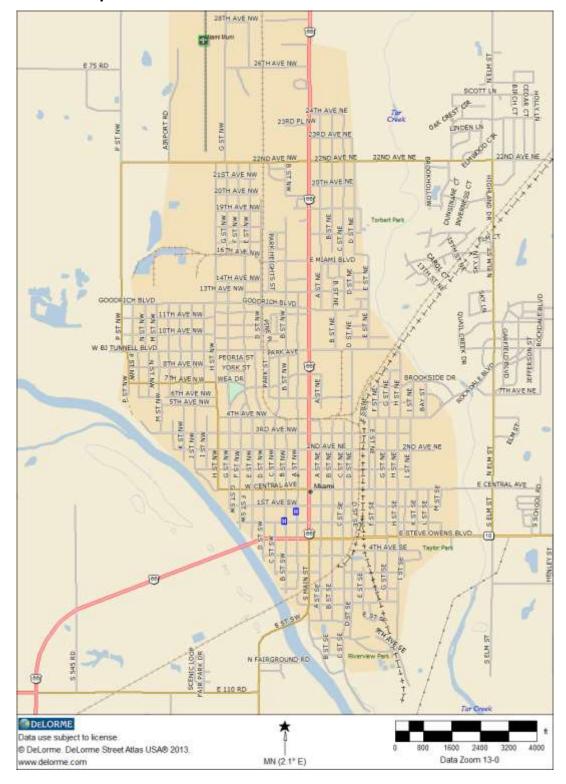


Ottawa County Area Map





Miami Area Map





Demographic Analysis

Population and Households

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

2000	2010	A 1				
	2010	Annual	2015	Annual	2020	Annual
Census	Census	Change	Estimate	Change	Forecast	Change
13,704	13,570	-0.10%	13,575	0.01%	13,759	0.27%
33,194	31,848	-0.41%	32,383	0.33%	33,173	0.48%
3,450,654	3,751,351	0.84%	3,898,675	0.77%	4,059,399	0.81%
3	3,704 3,194 ,450,654	3,704 13,570 3,194 31,848 ,450,654 3,751,351	3,704 13,570 -0.10% 3,194 31,848 -0.41%	3,704 13,570 -0.10% 13,575 3,194 31,848 -0.41% 32,383 ,450,654 3,751,351 0.84% 3,898,675	3,704 13,570 -0.10% 13,575 0.01% 3,194 31,848 -0.41% 32,383 0.33% ,450,654 3,751,351 0.84% 3,898,675 0.77%	3,704 13,570 -0.10% 13,575 0.01% 13,759 3,194 31,848 -0.41% 32,383 0.33% 33,173 ,450,654 3,751,351 0.84% 3,898,675 0.77% 4,059,399

The population of Ottawa County was 31,848 persons as of the 2010 Census, a -0.41% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Ottawa County to be 32,383 persons, and projects that the population will show 0.48% annualized growth over the next five years.

The population of Miami was 13,570 persons as of the 2010 Census, a -0.10% annualized rate of change from the 2000 Census. As of 2015, Nielsen SiteReports estimates the population of Miami to be 13,575 persons, and projects that the population will show 0.27% annualized growth over the next five years.

The next table presents data regarding household levels in Ottawa 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.

Total Households	2000	2010	Annual	2015	Annual	2020	Annual
iotai nousenoius	Census	Census	Change	Estimate	Change	Forecast	Change
Miami	5,580	5,315	-0.49%	5,308	-0.03%	5,380	0.27%
Ottawa County	12,984	12,345	-0.50%	12,527	0.29%	12,824	0.47%
State of Oklahoma	1,342,293	1,460,450	0.85%	1,520,327	0.81%	1,585,130	0.84%
Family Households	2000	2010	Annual	2015	Annual	2020	Annual
railing Householus	Census	Census	Change	Estimate	Change	Forecast	Change
Miami	3,568	3,337	-0.67%	3,340	0.02%	3,390	0.30%
Ottawa County	9,121	8,469	-0.74%	8,611	0.33%	8,833	0.51%
State of Oklahoma	921,750	975,267	0.57%	1,016,508	0.83%	1,060,736	0.86%

As of 2010, Ottawa County had a total of 12,345 households, representing a -0.50% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Ottawa County to have



12,527 households. This number is expected to experience a 0.47% annualized rate of growth over the next five years.

As of 2010, Miami had a total of 5,315 households, representing a -0.49% annualized rate of change since the 2000 Census. As of 2015, Nielsen SiteReports estimates Miami to have 5,308 households. This number is expected to experience a 0.27% 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 Ottawa County based on the U.S. Census Bureau's American Community Survey.

2013 Population by Race and Ethnic	ity			
Single Classification Page	Miami		Ottawa	County
Single-Classification Race	No.	Percent	No.	Percent
Total Population	13,667		32,029	
White Alone	9,523	69.68%	22,261	69.50%
Black or African American Alone	182	1.33%	242	0.76%
Amer. Indian or Alaska Native Alone	2,042	14.94%	5,232	16.34%
Asian Alone	45	0.33%	207	0.65%
Native Hawaiian and Other Pac. Isl. Alone	228	1.67%	273	0.85%
Some Other Race Alone	129	0.94%	504	1.57%
Two or More Races	1,518	11.11%	3,310	10.33%
Population by Hispanic or Latino Origin	Miami		Ottawa	County
	No.	Percent N		Percent
Total Population	13,667		32,029	
Hispanic or Latino	614	4.49%	1,537	4.80%
Hispanic or Latino, White Alone	<i>375</i>	61.07%	<i>795</i>	51.72%
Hispanic or Latino, All Other Races	239	38.93%	742	48.28%
Not Hispanic or Latino	13,053	95.51%	30,492	95.20%
Not Hispanic or Latino, White Alone	9,148	70.08%	21,466	70.40%
Not Hispanic or Latino, All Other Races	<i>3,905</i>	29.92%	9,026	29.60%
Source: U.S. Census Bureau, 2009-2013 American Communit	y Survey, Tab	les B02001 &	B03002	

In Ottawa County, racial and ethnic minorities comprise 32.98% of the total population. Within Miami, racial and ethnic minorities represent 33.07% of the population.

Population by Age

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



Ottawa County Population By Age									
•	2010	Percent	2015	Percent	2020	Percent	2000 - 2015	2015 - 2020	
	Census	of Total	Estimate	of Total	Forecast	of Total	Ann. Chng.	Ann. Chng.	
Population by Age	31,848		32,383		33,173				
Age 0 - 4	2,249	7.06%	2,213	6.83%	2,268	6.84%	-0.32%	0.49%	
Age 5 - 9	2,046	6.42%	2,155	6.65%	2,218	6.69%	1.04%	0.58%	
Age 10 - 14	2,247	7.06%	2,199	6.79%	2,164	6.52%	-0.43%	-0.32%	
Age 15 - 17	1,314	4.13%	1,383	4.27%	1,408	4.24%	1.03%	0.36%	
Age 18 - 20	1,694	5.32%	1,559	4.81%	1,589	4.79%	-1.65%	0.38%	
Age 21 - 24	1,429	4.49%	1,800	5.56%	1,922	5.79%	4.72%	1.32%	
Age 25 - 34	3,569	11.21%	3,597	11.11%	3,877	11.69%	0.16%	1.51%	
Age 35 - 44	3,697	11.61%	3,654	11.28%	3,541	10.67%	-0.23%	-0.63%	
Age 45 - 54	4,239	13.31%	3,933	12.15%	3,716	11.20%	-1.49%	-1.13%	
Age 55 - 64	3,946	12.39%	4,033	12.45%	3,928	11.84%	0.44%	-0.53%	
Age 65 - 74	2,910	9.14%	3,357	10.37%	3,912	11.79%	2.90%	3.11%	
Age 75 - 84	1,831	5.75%	1,791	5.53%	1,859	5.60%	-0.44%	0.75%	
Age 85 and over	677	2.13%	709	2.19%	771	2.32%	0.93%	1.69%	
Age 55 and over	9,364	29.40%	9,890	30.54%	10,470	31.56%	1.10%	1.15%	
Age 62 and over	5,925	18.60%	6,358	19.63%	6,949	20.95%	1.42%	1.80%	
Median Age	38.7		38.5		38.2		-0.10%	-0.16%	

As of 2015, Nielsen estimates that the median age of Ottawa County is 38.5 years. This compares with the statewide figure of 36.6 years. Approximately 6.83% of the population is below the age of 5, while 19.63% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 1.80% per year.



Miami Populatio	on By Ag	e						
	2010	Percent	2015	Percent	2020	Percent	2000 - 2015	2015 - 2020
	Census	of Total	Estimate	of Total	Forecast	of Total	Ann. Chng.	Ann. Chng.
Population by Age	13,570		13,575		13,759			
Age 0 - 4	1,057	7.79%	984	7.25%	990	7.20%	-1.42%	0.12%
Age 5 - 9	844	6.22%	952	7.01%	970	7.05%	2.44%	0.38%
Age 10 - 14	872	6.43%	882	6.50%	938	6.82%	0.23%	1.24%
Age 15 - 17	518	3.82%	552	4.07%	579	4.21%	1.28%	0.96%
Age 18 - 20	1,006	7.41%	818	6.03%	820	5.96%	-4.05%	0.05%
Age 21 - 24	737	5.43%	820	6.04%	845	6.14%	2.16%	0.60%
Age 25 - 34	1,687	12.43%	1,701	12.53%	1,661	12.07%	0.17%	-0.47%
Age 35 - 44	1,510	11.13%	1,576	11.61%	1,596	11.60%	0.86%	0.25%
Age 45 - 54	1,611	11.87%	1,504	11.08%	1,454	10.57%	-1.37%	-0.67%
Age 55 - 64	1,449	10.68%	1,455	10.72%	1,399	10.17%	0.08%	-0.78%
Age 65 - 74	1,073	7.91%	1,185	8.73%	1,361	9.89%	2.01%	2.81%
Age 75 - 84	853	6.29%	797	5.87%	780	5.67%	-1.35%	-0.43%
Age 85 and over	353	2.60%	349	2.57%	366	2.66%	-0.23%	0.96%
Age 55 and over	3,728	27.47%	<i>3,786</i>	27.89%	3,906	28.39%	0.31%	0.63%
Age 62 and over	2,361	17.40%	2,419	17.82%	2,561	18.61%	0.48%	1.15%
Median Age	35.4		35.5		35.5		0.06%	0.00%
Source: Nielsen SiteReports	;							

As of 2015, Nielsen estimates that the median age of Miami is 35.5 years. This compares with the statewide figure of 36.6 years. Approximately 7.25% of the population is below the age of 5, while 17.82% is over the age of 62. Over the next five years, the population age 62 and above is forecasted to grow by 1.15% per year.

Families by Presence of Children

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



2013 Family Type by Presence of Chi	ildren U	nder 18	Years	
	Miami		Ottawa (County
	No.	Percent	No.	Percent
Total Families:	3,298		8,376	
Married-Couple Family:	2,289	69.41%	6,188	73.88%
With Children Under 18 Years	882	26.74%	2,241	26.76%
No Children Under 18 Years	1,407	42.66%	3,947	47.12%
Other Family:	1,009	30.59%	2,188	26.12%
Male Householder, No Wife Present	257	7.79%	591	7.06%
With Children Under 18 Years	175	5.31%	352	4.20%
No Children Under 18 Years	82	2.49%	239	2.85%
Female Householder, No Husband Present	752	22.80%	1,597	19.07%
With Children Under 18 Years	475	14.40%	992	11.84%
No Children Under 18 Years	277	8.40%	605	7.22%
Total Single Parent Families	650		1,344	
Male Householder	175	26.92%	352	26.19%
Female Householder	475	73.08%	992	73.81%
Source: U.S. Census Bureau, 2009-2013 American Community	Survey, Tabl	e B11003		

As shown, within Ottawa County, among all families 16.05% are single-parent families, while in Miami, the percentage is 19.71%.

Population by Presence of Disabilities

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



	Miami		Ottawa County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Non-Institutionalized Population:	13,391		31,593		3,702,515	
Under 18 Years:	3,244		7,865		933,738	
With One Type of Disability	179	5.52%	407	5.17%	33,744	3.61%
With Two or More Disabilities	66	2.03%	121	1.54%	11,082	1.19%
No Disabilities	2,999	92.45%	7,337	93.29%	888,912	95.20%
18 to 64 Years:	7,855		18,390		2,265,702	
With One Type of Disability	821	10.45%	1,898	10.32%	169,697	7.49%
With Two or More Disabilities	509	6.48%	1,466	7.97%	149,960	6.62%
No Disabilities	6,525	83.07%	15,026	81.71%	1,946,045	85.89%
65 Years and Over:	2,292		5,338		503,075	
With One Type of Disability	389	16.97%	1,078	20.19%	95,633	19.01%
With Two or More Disabilities	544	23.73%	1,317	24.67%	117,044	23.27%
No Disabilities	1,359	59.29%	2,943	55.13%	290,398	57.72%
Total Number of Persons with Disabilities:	2,508	18.73%	6,287	19.90%	577,160	15.59%

Within Ottawa County, 19.90% of the civilian non-institutionalized population has one or more disabilities, compared with 15.59% of Oklahomans as a whole. In Miami the percentage is 18.73%.

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

	Miami		Ottawa County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Civilian Population Age 18+ For Wh	om					
Poverty Status is Determined	9,596		23,177		2,738,788	
Veteran:	1,053	10.97%	2,711	11.70%	305,899	11.17%
With a Disability	365	34.66%	1,051	38.77%	100,518	32.86%
No Disability	688	65.34%	1,660	61.23%	205,381	67.14%
Non-veteran:	8,543	89.03%	20,466	88.30%	2,432,889	88.83%
With a Disability	1,847	21.62%	4,657	22.75%	430,610	17.70%
No Disability	6,696	78.38%	15,809	77.25%	2,002,279	82.30%

Within Ottawa County, the Census Bureau estimates there are 2,711 veterans, 38.77% of which have one or more disabilities (compared with 32.86% at a statewide level). In Miami, there are an estimated 1,053 veterans, 34.66% of which are estimated to have a disability.



Group Quarters Population

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

	Miami		Ottawa	County
	No.	Percent	No.	Percent
Total Population	13,570		31,848	
Group Quarters Population	820	6.04%	968	3.04%
Institutionalized Population	267	1.97%	415	1.30%
Correctional facilities for adults	139	1.02%	139	0.44%
Juvenile facilities	0	0.00%	15	0.05%
Nursing facilities/Skilled-nursing facilities	128	0.94%	261	0.82%
Other institutional facilities	0	0.00%	0	0.00%
Noninstitutionalized population	553	4.08%	553	1.74%
College/University student housing	505	3.72%	505	1.59%
Military quarters	0	0.00%	0	0.00%
Other noninstitutional facilities	48	0.35%	48	0.15%

The percentage of the Ottawa County population in group quarters is nearly identical to the statewide figure, which was 2.99% in 2010. Over half of the persons living in group quarters in Miami and Ottawa County are students living in university housing (Northeastern Oklahoma A&M).

Household Income Levels

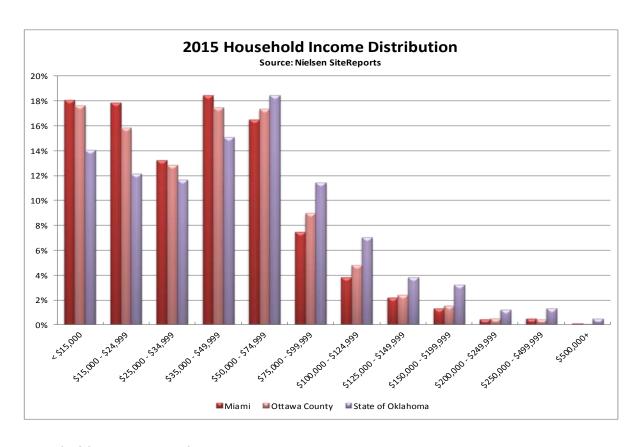
Data in the following chart shows the distribution of household income in Ottawa County, as well as median and average household income. Data for Oklahoma is included as a basis of comparison. This data is provided by Nielsen SiteReports for 2015.



	Miami		Ottawa County		State of O	klahoma
	No.	Percent	No.	Percent	No.	Percent
Households by HH Income	5,308		12,527		1,520,327	
< \$15,000	958	18.05%	2,209	17.63%	213,623	14.05%
\$15,000 - \$24,999	948	17.86%	1,984	15.84%	184,613	12.14%
\$25,000 - \$34,999	702	13.23%	1,610	12.85%	177,481	11.67%
\$35,000 - \$49,999	978	18.43%	2,189	17.47%	229,628	15.10%
\$50,000 - \$74,999	876	16.50%	2,173	17.35%	280,845	18.47%
\$75,000 - \$99,999	397	7.48%	1,125	8.98%	173,963	11.44%
\$100,000 - \$124,999	204	3.84%	605	4.83%	106,912	7.03%
\$125,000 - \$149,999	117	2.20%	301	2.40%	57,804	3.80%
\$150,000 - \$199,999	70	1.32%	196	1.56%	48,856	3.21%
\$200,000 - \$249,999	23	0.43%	67	0.53%	18,661	1.23%
\$250,000 - \$499,999	27	0.51%	56	0.45%	20,487	1.35%
\$500,000+	8	0.15%	12	0.10%	7,454	0.49%
Median Household Income	\$35,706		\$38,156		\$47,049	
Average Household Income	\$46,591		\$49,083		\$63,390	

As shown, median household income for Ottawa County is estimated to be \$38,156 in 2015. By way of comparison, the median household income of Oklahoma is estimated to be \$47,049. For Miami, median household income is estimated to be \$35,706. The income distribution can be better visualized by the following chart; as can be seen, the distribution of household incomes is more greatly concentrated in income brackets under \$50,000 compared with the rest of the state.





Household Income Trend

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

Household Income	e Trend				
	1999 Median	2015 Median	Nominal	Inflation	Real
	HH Income	HH Income	Growth	Rate	Growth
Miami	\$25,832	\$35,706	2.04%	2.40%	-0.36%
Ottawa County	\$27,507	\$38,156	2.07%	2.40%	-0.33%
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 Ottawa County and the State of Oklahoma as a whole saw negative growth in "real" median household income, once inflation is taken into account. It should be noted that this trend is not unique to Oklahoma or Ottawa 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 Ottawa County and Oklahoma are shown in the following table. This data is included from the 2013 American Community Survey, as well as the 2000 Census to show how these rates have changed over the last decade. We also include poverty rates for single-parent families by gender of householder.

Poverty Rates					
	2000	2013	Change	2013 Poverty Rates for	Single-Parent Families
	Census	ACS	(Basis Points)	Male Householder	Female Householder
Miami	18.45%	23.37%	492	36.00%	61.26%
Ottawa County	16.58%	21.97%	539	38.92%	56.35%
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 Ottawa County is estimated to be 21.97% by the American Community Survey. This is an increase of 539 basis points since the 2000 Census. Within Miami, the poverty rate is estimated to be 23.37%. 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.

Poverty rates among single-parent households are notably higher than statewide figures, for both male and female householders.



Economic Conditions

Employment and Unemployment

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

Employment and Unemployment											
	May-2010	May-2015	Annual	May-2010	May-2015	Change					
	Employment	Employment	Growth	Unemp. Rate	Unemp. Rate	(bp)					
Ottawa County	13,545	13,504	-0.06%	7.9%	5.1%	-280					
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					

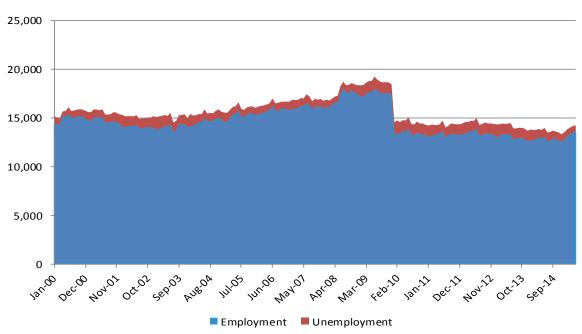
As of May 2015, total employment in Ottawa County was 13,504 persons. Compared with figures from May 2010, this represents annualized employment decline of -0.06% per year. The unemployment rate in May was 5.1%, a decrease of -280 basis points from May 2010, which was 7.9%. Over the last five years, both the statewide and national trends have been improving employment levels and declining unemployment rates, and Ottawa County has generally underperformed the state in these statistics.

Employment Level Trends

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



Employment and Unemployment in Ottawa County January 2000 through May 2015



Source: Bureau of Labor Statistics, Local Area Unemployment Statistics

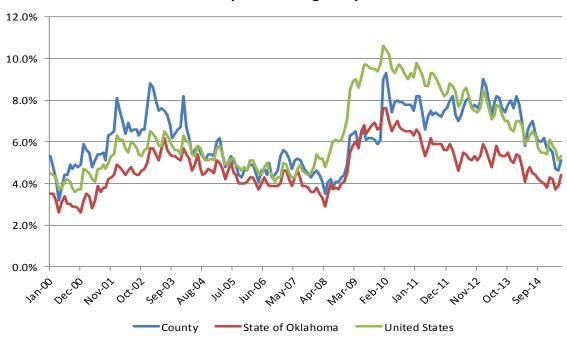
As shown, total employment levels have generally trended upward from 2003 through the 3rd quarter of 2008, when employment levels began to decline due to the national economic recession. Note that the large drop in 2010 is attributable to a statistical readjustment on the part of the Bureau of Labor Statistics and does not represent an actual significant decline in employment. However, since that time, actual employment levels have generally trended downward, though there has been a slight upward trend in the last twelve months, growing to its current level of 13,504 persons. The number of unemployed persons in May 2015 was 728, out of a total labor force of 14,232 persons.

Unemployment Rate Trends

The next chart shows historic unemployment rates for Ottawa 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 Ottawa 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 Ottawa County increased moderately from 2000 through 2003, and then generally declined until the 4th quarter of 2008 as the effects of the national economic recession were felt. Unemployment rates were persistently high between 2010 and 2013, contrary to state and national trends, and only began to show recovery in late 2013, well past the state and nation's recoveries which started several years earlier. Compared with the rest of the state, Ottawa County appears to have been disproportionately affected by the national economic recession, but had shown some recovery within the last two years.

Employment and Wages by Industrial Supersector

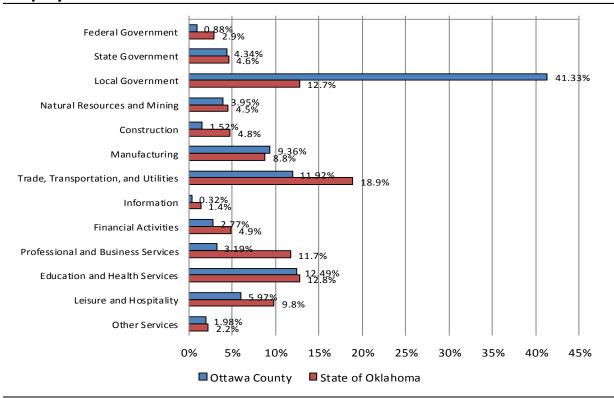
The next table presents data regarding employment in Ottawa County by industry, including total number of establishments, average number of employees in 2014, average annual pay, and location quotients for each industry compared with the United States. This data is furnished by the Bureau of Labor Statistics,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



Employees and Wages by Su	upersector - 20	014			
		Avg. No. of	Percent of	Avg. Annual	Location
Supersector	Establishments	Employees	Total	Pay	Quotient
Federal Government	13	101	0.88%	\$50,963	0.44
State Government	13	500	4.34%	\$29,534	1.30
Local Government	70	4,760	41.33%	\$30,615	4.10
Natural Resources and Mining	16	455	3.95%	\$29,454	2.60
Construction	54	175	1.52%	\$26,214	0.34
Manufacturing	42	1,078	9.36%	\$43,689	1.05
Trade, Transportation, and Utilities	148	1,373	11.92%	\$27,748	0.62
Information	5	37	0.32%	\$41,642	0.16
Financial Activities	61	319	2.77%	\$35,612	0.49
Professional and Business Services	73	367	3.19%	\$27,903	0.23
Education and Health Services	79	1,438	12.49%	\$31,817	0.83
Leisure and Hospitality	52	687	5.97%	\$13,514	0.56
Other Services	43	228	1.98%	\$21,093	0.64
Total	668	11,517		\$30,545	1.00

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

Employment Sectors - 2014



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



Among private employers, the largest percentage of persons (12.49%) are employed in Education and Health Services. The average annual pay in this sector is \$31,817 per year. The industry with the highest annual pay is Manufacturing, with average annual pay of \$43,689 per year.

The rightmost column of the previous table provides location quotients for each industry for Ottawa 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 (Ottawa 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% (county manufacturing %) / 5% (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 Ottawa County, among all industries the largest location quotient is in Local Government, with a quotient of 4.10. Local government also includes tribal government employment. Among private employers, the largest is Natural Resources and Mining, with a quotient of 2.60.

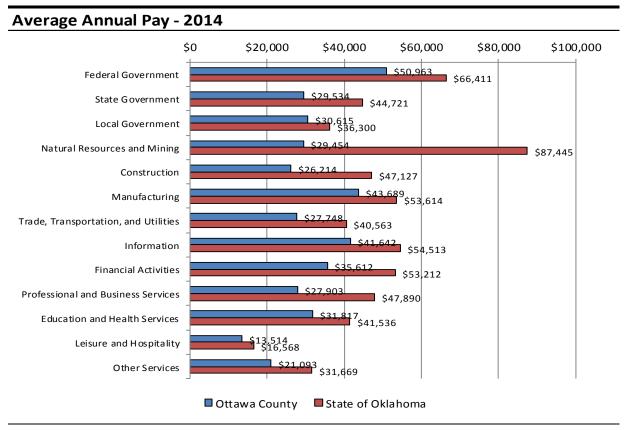
The next table presents average annual pay in Ottawa County by industry, in comparison with Oklahoma as a whole and the United States.

Comparison of 2014 Averag	e Annual Pay	by Supers	sector		
		State of	United	Percent of	Percent of
Supersector	Ottawa County	Oklahoma	States	State	Nation
Federal Government	\$50,963	\$66,411	\$75,784	76.7%	67.2%
State Government	\$29,534	\$44,721	\$54,184	66.0%	54.5%
Local Government	\$30,615	\$36,300	\$46,146	84.3%	66.3%
Natural Resources and Mining	\$29,454	\$87,445	\$59,666	33.7%	49.4%
Construction	\$26,214	\$47,127	\$55,041	55.6%	47.6%
Manufacturing	\$43,689	\$53,614	\$62,977	81.5%	69.4%
Trade, Transportation, and Utilities	\$27,748	\$40,563	\$42,988	68.4%	64.5%
Information	\$41,642	\$54,513	\$90,804	76.4%	45.9%
Financial Activities	\$35,612	\$53,212	\$85,261	66.9%	41.8%
Professional and Business Services	\$27,903	\$47,890	\$66,657	58.3%	41.9%
Education and Health Services	\$31,817	\$41,536	\$45,951	76.6%	69.2%
Leisure and Hospitality	\$13,514	\$16,568	\$20,993	81.6%	64.4%
Other Services	\$21,093	\$31,669	\$33,935	66.6%	62.2%
Total	\$30,545	\$43,774	\$51,361	69.8%	59.5%

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



Working Families 25



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

In comparison with the rest of Oklahoma, Ottawa County has lower average wages in all employment sectors, significantly so in natural resources and mining.

Working Families

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



Major Employers 26

	Miami		Ottawa Co	ounty	State of Ok	lahoma
	No.	Percent	No.	Percent	No.	Percent
Total Families	3,298		8,376		961,468	
With Children <18 Years:	1,532	46.45%	3,585	42.80%	425,517	44.26%
Married Couple:	882	57.57%	2,241	62.51%	281,418	66.14%
Both Parents Employed	591	67.01%	1,394	62.20%	166,700	59.24%
One Parent Employed	282	31.97%	707	31.55%	104,817	37.25%
Neither Parent Employed	9	1.02%	140	6.25%	9,901	3.52%
Other Family:	650	42.43%	1,344	37.49%	144,099	33.86%
Male Householder:	175	26.92%	352	26.19%	36,996	25.67%
Employed	125	71.43%	252	71.59%	31,044	83.91%
Not Employed	50	28.57%	100	28.41%	5,952	16.09%
Female Householder:	475	73.08%	992	73.81%	107,103	74.33%
Employed	321	67.58%	698	70.36%	75,631	70.62%
Not Employed	154	32.42%	294	29.64%	31,472	29.38%
Without Children <18 Years:	1,766	53.55%	4,791	57.20%	535,951	55.74%
Married Couple:	1,407	79.67%	3,947	82.38%	431,868	80.58%
Both Spouses Employed	488	34.68%	1,318	33.39%	167,589	38.81%
One Spouse Employed	463	32.91%	1,283	32.51%	138,214	32.00%
Neither Spouse Employed	456	32.41%	1,346	34.10%	126,065	29.19%
Other Family:	359	20.33%	844	17.62%	104,083	19.42%
Male Householder:	82	17.98%	239	17.76%	32,243	25.58%
Employed	47	57.32%	114	47.70%	19,437	60.28%
Not Employed	35	42.68%	125	52.30%	12,806	39.72%
Female Householder:	277	77.16%	605	71.68%	71,840	69.02%
Employed	96	34.66%	273	45.12%	36,601	50.95%
Not Employed	181	65.34%	332	54.88%	35,239	49.05%
Total Working Families:	2,413	73.17%	6,039	72.10%	740,033	76.97%
With Children <18 Years:	1,319	54.66%	3,051	50.52%	378,192	51.10%
Without Children <18 Years:	1,094	45.34%	2,988	49.48%	361,841	48.90%

Within Ottawa County, there are 6,039 working families, 50.52% 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 Ottawa County area are presented in the following table, as reported by the Miami Area Economic Development Service.



Commuting Patterns 27

Company	Industry / Description	No. Employees
Downstream Casino & Resort	Casino	1,090
Peoria Tribe	Tribal Services	405
Integris Baptist Regional Health Center	Healthcare	375
NEO A&M College	Education	350
Miami Public Schools	Education	341
Wal-Mart	Retail	316
Buffalo Run Casino	Casino	302
Seneca-Cayuga Tribe	Tribal Services	288
Quapaw Tribe & Casino	Casino/Tribal Services	260
J-M Farms, Inc.	Mushroom Farm	250
City of Miami	Government	207
4-Satellite Mushroom Farms	Mushroom Farm	180
Newell Coach Corporation	Manufacturing	177
The Stables Casino	Casino	170
Miami Nation Tribe	Tribal Services	170
Ottawa Nation Tribe/High Winds Casino	Casino/Tribal Services	167
Tracker Marine Group	Manufacturing	152
J-M Foods, Inc.	Salad Plant	150
Discovery Plastics	Manufacturing	145
Eastern Shawnee Tribe	Tribal Services	137
Umicore Optical Materials	Manufacturing	137
Hopkins Mfg.	Manufacturing	132
Ottawa County	Government	130
Willow Crest Hospital	Healthcare	120
Wyandotte Nation	Tribal Services	115

As can be seen, Ottawa County has a wide variety of major employers, including tribal governments, health care, and a variety of manufacturers in numerous industries. The large variety of employers should provide the area with a degree of insulation from cyclical economic fluctuations.

Commuting Patterns

Travel Time to Work

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



Commuting Patterns 28

	Miami		Ottawa C	ounty	State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Commuting Workers:	5,449		12,486		1,613,364	
Less than 15 minutes	2,884	52.93%	4,886	39.13%	581,194	36.02%
15 to 30 minutes	1,530	28.08%	4,661	37.33%	625,885	38.79%
30 to 45 minutes	665	12.20%	1,884	15.09%	260,192	16.13%
45 to 60 minutes	183	3.36%	566	4.53%	74,625	4.63%
60 or more minutes	187	3.43%	489	3.92%	71,468	4.43%

Within Ottawa County, the largest percentage of workers (39.13%) travel fewer than 15 minutes to work. This data suggests that although Ottawa County has an active labor market, it is likely that some persons commute to other areas such as Joplin or the Tulsa metro area.

Means of Transportation

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

	Miami	Miami Ottawa County			State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Workers Age 16+	5,571		12,780		1,673,026	
Car, Truck or Van:	5,198	93.30%	12,047	94.26%	1,551,461	92.73%
Drove Alone	4,669	89.82%	10,792	89.58%	1,373,407	88.52%
Carpooled	529	10.18%	<i>1,255</i>	10.42%	178,054	11.48%
Public Transportation	30	0.54%	31	0.24%	8,092	0.48%
Taxicab	0	0.00%	0	0.00%	984	0.06%
Motorcycle	17	0.31%	44	0.34%	3,757	0.22%
Bicycle	24	0.43%	26	0.20%	4,227	0.25%
Walked	130	2.33%	244	1.91%	30,401	1.82%
Other Means	50	0.90%	94	0.74%	14,442	0.86%
Worked at Home	122	2.19%	294	2.30%	59,662	3.57%

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



Existing Housing Units 29

Housing Stock Analysis

Existing Housing Units

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

nits				
2000	2010	Annual	2015	Annual
Census	Census	Change	Estimate	Change
6,111	5,872	-0.40%	5,925	0.18%
14,842	14,060	-0.54%	14,319	0.37%
1,514,400	1,664,378	0.95%	1,732,484	0.81%
	2000 Census 6,111 14,842	2000 2010 Census Census 6,111 5,872 14,842 14,060	2000 2010 Annual Census Census Change 6,111 5,872 -0.40% 14,842 14,060 -0.54%	2000 2010 Annual 2015 Census Census Change Estimate 6,111 5,872 -0.40% 5,925 14,842 14,060 -0.54% 14,319

Sources: 2000 and 2010 Decennial Censuses, Nielsen SiteReports

Since the 2010, Nielsen estimates that the number of housing units in Ottawa County grew by 0.37% per year, to a total of 14,319 housing units in 2015. In terms of new housing unit construction, Ottawa County underperformed Oklahoma as a whole between 2010 and 2015.

Housing by Units in Structure

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

	Miami		Ottawa C	ounty	State of Oklahom	
	No.	Percent	No.	Percent	No.	Percent
Total Housing Units	5,921		14,076		1,669,828	
1 Unit, Detached	4,928	83.23%	10,836	76.98%	1,219,987	73.06%
1 Unit, Attached	97	1.64%	178	1.26%	34,434	2.06%
Duplex Units	133	2.25%	247	1.75%	34,207	2.05%
3-4 Units	102	1.72%	186	1.32%	42,069	2.52%
5-9 Units	44	0.74%	85	0.60%	59,977	3.59%
10-19 Units	72	1.22%	99	0.70%	57,594	3.45%
20-49 Units	111	1.87%	172	1.22%	29,602	1.77%
50 or More Units	307	5.18%	319	2.27%	30,240	1.81%
Mobile Homes	124	2.09%	1,931	13.72%	159,559	9.56%
Boat, RV, Van, etc.	3	0.05%	23	0.16%	2,159	0.13%
Total Multifamily Units	769	12.99%	1,108	7.87%	253,689	15.19%

Source: 2009-2013 American Community Survey, Table B25024



Existing Housing Units 30

Within Ottawa County, 76.98% of housing units are single-family, detached. 7.87% of housing units are multifamily in structure (two or more units per building), while 13.88% of housing units comprise mobile homes, RVs, etc.

Within Miami, 83.23% of housing units are single-family, detached. 12.99% of housing units are multifamily in structure, while 2.14% of housing units comprise mobile homes, RVs, etc.

Housing Units Number of Bedrooms and Tenure

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

	Miami		Ottawa County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Occupied Housing Units	5,221		12,134		1,444,081	
Owner Occupied:	3,396	65.05%	8,832	72.79%	968,736	67.08%
No Bedroom	0	0.00%	27	0.31%	2,580	0.27%
1 Bedroom	46	1.35%	210	2.38%	16,837	1.74%
2 Bedrooms	772	22.73%	1,984	22.46%	166,446	17.18%
3 Bedrooms	2,112	62.19%	5,316	60.19%	579,135	59.78%
4 Bedrooms	403	11.87%	1,099	12.44%	177,151	18.29%
5 or More Bedrooms	63	1.86%	196	2.22%	26,587	2.74%
Renter Occupied:	1,825	34.95%	3,302	27.21%	475,345	32.92%
No Bedroom	210	11.51%	306	9.27%	13,948	2.93%
1 Bedroom	342	18.74%	498	15.08%	101,850	21.43%
2 Bedrooms	625	34.25%	1,263	38.25%	179,121	37.68%
3 Bedrooms	531	29.10%	1,007	30.50%	152,358	32.05%
4 Bedrooms	97	5.32%	194	5.88%	24,968	5.25%
5 or More Bedrooms	20	1.10%	34	1.03%	3,100	0.65%

Source: 2009-2013 American Community Survey, Table B25042

The overall homeownership rate in Ottawa County is 72.79%, while 27.21% of housing units are renter occupied. In Miami, the homeownership rate is 65.05%, while 34.95% of households are renters.

Housing Units Tenure and Household Income

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



Existing Housing Units 31

Household Income	Total	Total	Total		
	Households	Owners	Renters	% Owners	% Renters
Total	12,134	8,832	3,302	72.79%	27.21%
Less than \$5,000	436	207	229	47.48%	52.52%
\$5,000 - \$9,999	822	350	472	42.58%	57.42%
\$10,000-\$14,999	1,004	572	432	56.97%	43.03%
\$15,000-\$19,999	980	606	374	61.84%	38.16%
\$20,000-\$24,999	1,058	653	405	61.72%	38.28%
\$25,000-\$34,999	1,509	1,081	428	71.64%	28.36%
\$35,000-\$49,999	2,144	1,682	462	78.45%	21.55%
\$50,000-\$74,999	2,179	1,867	312	85.68%	14.32%
\$75,000-\$99,999	987	887	100	89.87%	10.13%
\$100,000-\$149,999	757	675	82	89.17%	10.83%
\$150,000 or more	258	252	6	97.67%	2.33%
Income Less Than \$25,000	4,300	2,388	1,912	55.53%	44.47%

Source: 2009-2013 American Community Survey, Table B25118

Within Ottawa County as a whole, 44.47% of households with incomes less than \$25,000 are estimated to be renters, while 55.53% are estimated to be homeowners.

Household Income	Total	Total	Total		
	Households	Owners	Renters	% Owners	% Renters
Total	5,221	3,396	1,825	65.05%	34.95%
Less than \$5,000	197	86	111	43.65%	56.35%
\$5,000 - \$9,999	342	129	213	37.72%	62.28%
\$10,000-\$14,999	443	225	218	50.79%	49.21%
\$15,000-\$19,999	520	254	266	48.85%	51.15%
\$20,000-\$24,999	458	234	224	51.09%	48.91%
\$25,000-\$34,999	655	409	246	62.44%	37.56%
\$35,000-\$49,999	982	675	307	68.74%	31.26%
\$50,000-\$74,999	813	658	155	80.93%	19.07%
\$75,000-\$99,999	405	360	45	88.89%	11.11%
\$100,000-\$149,999	302	265	37	87.75%	12.25%
\$150,000 or more	104	101	3	97.12%	2.88%
Income Less Than \$25,000	1,960	928	1,032	47.35%	52.65%

Within Miami, 52.65% of households with incomes less than \$25,000 are estimated to be renters, while 47.35% are estimated to be homeowners.



Existing Housing Units 32

Housing Units by Year of Construction and Tenure

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

2013 Housing Units by T	enure ar	d Year of	Construc	tion		
	Miami		Ottawa (County	State of O	klahoma
	No.	Percent	No.	Percent	No.	Percent
Total Occupied Housing Units	5,221		12,134		1,444,081	
Owner Occupied:	3,396	65.05%	8,832	72.79%	968,736	67.08%
Built 2010 or Later	13	0.38%	73	0.83%	10,443	1.08%
Built 2000 to 2009	136	4.00%	923	10.45%	153,492	15.84%
Built 1990 to 1999	190	5.59%	1,047	11.85%	125,431	12.95%
Built 1980 to 1989	354	10.42%	1,052	11.91%	148,643	15.34%
Built 1970 to 1979	609	17.93%	1,723	19.51%	184,378	19.03%
Built 1960 to 1969	410	12.07%	950	10.76%	114,425	11.81%
Built 1950 to 1959	724	21.32%	1,222	13.84%	106,544	11.00%
Built 1940 to 1949	465	13.69%	756	8.56%	50,143	5.18%
Built 1939 or Earlier	495	14.58%	1,086	12.30%	75,237	7.77%
Median Year Built:		1960		1972		1977
Renter Occupied:	1,825	34.95%	3,302	27.21%	475,345	32.92%
Built 2010 or Later	5	0.27%	41	1.24%	5,019	1.06%
Built 2000 to 2009	123	6.74%	229	6.94%	50,883	10.70%
Built 1990 to 1999	76	4.16%	224	6.78%	47,860	10.07%
Built 1980 to 1989	207	11.34%	442	13.39%	77,521	16.31%
Built 1970 to 1979	390	21.37%	694	21.02%	104,609	22.01%
Built 1960 to 1969	237	12.99%	445	13.48%	64,546	13.58%
Built 1950 to 1959	347	19.01%	512	15.51%	54,601	11.49%
Built 1940 to 1949	207	11.34%	341	10.33%	31,217	6.57%
Built 1939 or Earlier	233	12.77%	374	11.33%	39,089	8.22%
Median Year Built:		1965		1970		1975
Overall Median Year Built:		1960		1972		1976

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

Within Ottawa County, 10.43% of housing units were built after the year 2000. This compares with 15.22% statewide. Within Miami the percentage is 5.31%.

79.09% of housing units in Ottawa County were built prior to 1990, while in Miami the percentage is 89.60%. These figures compare with the statewide figure of 72.78%. Taken together, it is evident that both Miami and Ottawa County as a whole have a relatively older housing stock as compared with the rest of Oklahoma.



Vacancy Rates 33

Substandard Housing

The next table presents data regarding substandard housing in Ottawa 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
- 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

	Occupied	Inadequat	Inadequate Plumbing		Inadequate Kitchen		d for Fuel
	Units	Number	Percent	Number	Percent	Number	Percent
Miami	5,221	9	0.17%	35	0.67%	41	0.79%
Ottawa County	12,134	83	0.68%	121	1.00%	921	7.59%
State of Oklahoma	1,444,081	7,035	0.49%	13,026	0.90%	28,675	1.99%

Within Ottawa County, 0.68% of occupied housing units have inadequate plumbing (compared with 0.49% at a statewide level), while 1.00% 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. This data suggests that substandard housing is more prevalent in Miami and Ottawa County as a whole compared with the rest of the state, which is likely a result of its relatively older housing stock.

Vacancy Rates

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



Building Permits 34

	Miami		Ottawa County		State of Oklahoma	
	No.	Percent	No.	Percent	No.	Percent
Total Housing Units	5,921		14,076		1,669,828	
Total Vacant Units	700	11.82%	1,942	13.80%	225,747	13.52%
For rent	128	18.29%	213	10.97%	43,477	19.26%
Rented, not occupied	31	4.43%	45	2.32%	9,127	4.04%
For sale only	126	18.00%	260	13.39%	23,149	10.25%
Sold, not occupied	17	2.43%	39	2.01%	8,618	3.82%
For seasonal, recreationa	l,					
or occasional use	54	7.71%	355	18.28%	39,475	17.49%
For migrant workers	0	0.00%	3	0.15%	746	0.33%
Other vacant	344	49.14%	1,027	52.88%	101,155	44.81%
Homeowner Vacancy Rate	3.56%		2.85%		2.31%	
Rental Vacancy Rate	6.45%		5.98%		8.24%	

Within Ottawa County, the overall housing vacancy rate is estimated to be 13.80%. The homeowner vacancy rate is estimated to be 2.85%, while the rental vacancy rate is estimated to be 5.98%.

In Miami, the overall housing vacancy rate is estimated to be 11.82%. The homeowner vacancy rate is estimated to be 3.56%, while the rental vacancy rate is estimated to be 6.45%.

Building Permits

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



Building Permits 35

Miami
New Residential Building Permits Issued, 2004-2014

	Single Family	Avg. Construction	Multifamily	Avg. Multifamily
Year	Units	Cost	Units	Construction Cost
2004	17	\$62,471	2	\$37,500
2005	0	N/A	0	N/A
2006	10	\$126,900	2	\$47,500
2007	12	\$119,083	6	\$70,833
2008	7	\$134,571	0	N/A
2009	0	N/A	0	N/A
2010	31	\$76,963	0	N/A
2011	7	\$85,571	0	N/A
2012	2	\$98,000	0	N/A
2013	1	\$20,000	2	\$60,000
2014	7	\$63,214	0	N/A
				·

Source: United States Census Bureau Building Permits Survey

In Miami, building permits for 106 housing units were issued between 2004 and 2014, for an average of 10 units per year. 88.68% of these housing units were single family homes, and 11.32% consisted of multifamily units.

New Construction Activity

For Ownership:

There has been significant new home construction activity in Ottawa County over the last several years, though most of this construction has occurred on rural, unplatted acreages or rural subdivisions outside of the jurisdiction of any of Ottawa County's cities or towns (for example, the Modoc, Peoria Ridge and Arrowhead subdivisions). Some new construction has occurred in Miami, and has included some affordable housing for ownership on infill lots: a notable such example were affordable homes constructed by the Miami Development Authority in the Key West addition, financed in part with funding from the HOME Investment Partnerships program.

Though there has been construction of affordable housing for ownership, many homes are more expensive. The average price of homes constructed since 2005 in Ottawa County (for homes sold since January 2014) is \$202,667 or \$111.56 per square foot, which is well above what could be reasonably afforded by a household earning median household income for Ottawa County, which is estimated to be \$38,156 in 2015.

For Rent:

The most notable new rental housing constructed in Miami in the recent past was Neosho Ridge, which comprised 24 single family affordable rental homes constructed in the southwestern area of Miami. This property was generally well-received, but reportedly has three vacant units.



Two new affordable rental properties have been proposed in Miami: Route 66 Landing would comprise 18 single family rental homes, leased to families with incomes less than 60% of Area Median Income. In addition, it would renovate the historic Mining and Exchange Building, adding 24 one and two-bedroom apartment flats.

Another project named The Oaks would add 48 affordable duplex units, for occupancy by seniors age 62 and up. This project, along with the Route 66 Landing project, would go far in meeting the affordable housing needs of families and seniors in the Miami area if completed.

Homeownership Market

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

Housing Units by Home Value

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



	Miami		Ottawa (County	State of O	klahoma
	No.	Percent	No.	Percent	No.	Percent
Total Owner-Occupied Units:	3,396		8,832		968,736	
Less than \$10,000	51	1.50%	228	2.58%	20,980	2.17%
\$10,000 to \$14,999	31	0.91%	157	1.78%	15,427	1.59%
\$15,000 to \$19,999	60	1.77%	198	2.24%	13,813	1.43%
\$20,000 to \$24,999	58	1.71%	237	2.68%	16,705	1.72%
\$25,000 to \$29,999	67	1.97%	246	2.79%	16,060	1.66%
\$30,000 to \$34,999	84	2.47%	270	3.06%	19,146	1.98%
\$35,000 to \$39,999	86	2.53%	200	2.26%	14,899	1.54%
\$40,000 to \$49,999	287	8.45%	699	7.91%	39,618	4.09%
\$50,000 to \$59,999	325	9.57%	645	7.30%	45,292	4.68%
\$60,000 to \$69,999	373	10.98%	699	7.91%	52,304	5.40%
\$70,000 to \$79,999	330	9.72%	763	8.64%	55,612	5.74%
\$80,000 to \$89,999	314	9.25%	738	8.36%	61,981	6.40%
\$90,000 to \$99,999	255	7.51%	492	5.57%	51,518	5.32%
\$100,000 to \$124,999	301	8.86%	779	8.82%	119,416	12.33%
\$125,000 to \$149,999	207	6.10%	571	6.47%	96,769	9.99%
\$150,000 to \$174,999	212	6.24%	587	6.65%	91,779	9.47%
\$175,000 to \$199,999	102	3.00%	313	3.54%	53,304	5.50%
\$200,000 to \$249,999	91	2.68%	320	3.62%	69,754	7.20%
\$250,000 to \$299,999	91	2.68%	220	2.49%	41,779	4.31%
\$300,000 to \$399,999	34	1.00%	249	2.82%	37,680	3.89%
\$400,000 to \$499,999	7	0.21%	94	1.06%	13,334	1.38%
\$500,000 to \$749,999	17	0.50%	73	0.83%	12,784	1.32%
\$750,000 to \$999,999	7	0.21%	27	0.31%	3,764	0.39%
\$1,000,000 or more	6	0.18%	27	0.31%	5,018	0.52%
Median Home Value:	Ş	78,400		\$81,000	\$1	12,800

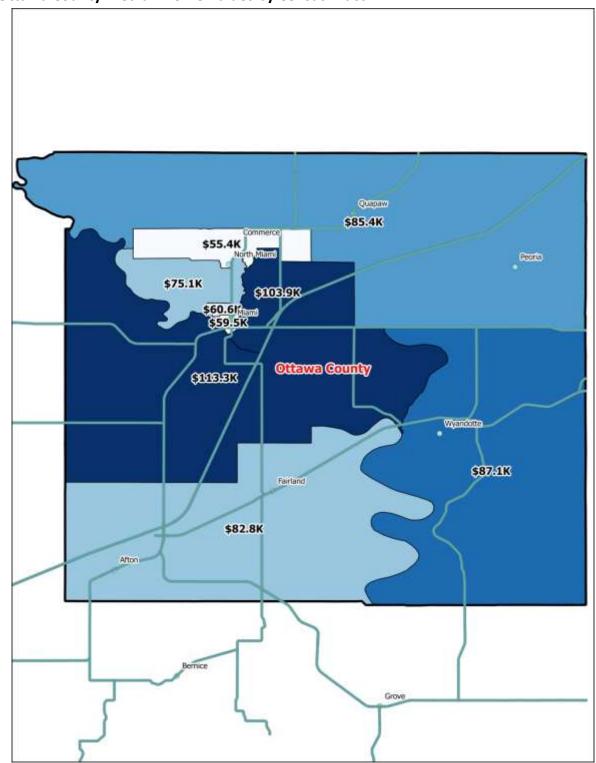
Sources: 2009-2013 American Community Survey, Tables B25075 and B25077

The median value of owner-occupied homes in Ottawa County is \$81,000. This is -28.2% lower than the statewide median, which is \$112,800. The median home value in Miami is estimated to be \$78,400.

The geographic distribution of home values in Ottawa County can be visualized by the following map. As can be seen, the highest home values are south and west of Miami, while the lowest home values are in the immediate Miami area, and the northwestern area of the county near Commerce.



Ottawa County Median Home Values by Census Tract





Home Values by Year of Construction

The next table presents median home values in Ottawa 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	n Home Value by Year of Construction					
	Miami	Ottawa County	State of Oklahoma			
	Median Value	Median Value	Median Value			
Total Owner-Occupied Un	its:					
Built 2010 or Later	\$110,400	\$110,900	\$188,900			
Built 2000 to 2009	\$159,200	\$129,400	\$178,000			
Built 1990 to 1999	\$138,900	\$88,100	\$147,300			
Built 1980 to 1989	\$96,300	\$89,600	\$118,300			
Built 1970 to 1979	\$93,700	\$91,600	\$111,900			
Built 1960 to 1969	\$86,500	\$81,600	\$97,100			
Built 1950 to 1959	\$65,500	\$67,900	\$80,300			
Built 1940 to 1949	\$63,000	\$64,500	\$67,900			
Built 1939 or Earlier	\$62,700	\$57,400	\$74,400			

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

Source: 2009-2013 American Community Survey, Table 25107

Miami Single Family Sales Activity

The next series of tables provides data regarding single family home sales activity in Miami. 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.

Two Bedroom Units								
Year	2011	2012	2013	2014	YTD 2015			
# of Units Sold	58	68	66	64	59			
Average Sale Price	\$44,691	\$36,016	\$34,492	\$32,893	\$42,083			
Average Square Feet	963	1,017	1,014	1,051	1,016			
Average Price/SF	\$46.41	\$35.41	\$34.02	\$31.30	\$41.42			
Average Year Built	1937	1937	1938	1942	1939			

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



Miami Single Fam	Miami Single Family Sales Activity							
Three Bedroom U	nits							
Year	2011	2012	2013	2014	YTD 2015			
# of Units Sold	93	103	119	119	97			
Average Sale Price	\$74,920	\$69,672	\$64,810	\$72,584	\$74,369			
Average Square Feet	1,388	1,409	1,367	1,443	1,439			
Average Price/SF	\$53.98	\$49.45	\$47.41	\$50.30	\$51.68			
Average Year Built	1957	1958	1958	1959	1956			

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

Miami Single Fam	Miami Single Family Sales Activity							
Four Bedroom Un	its							
Year	2011	2012	2013	2014	YTD 2015			
# of Units Sold	14	15	19	21	12			
Average Sale Price	\$139,500	\$111,538	\$131,944	\$145,194	\$110,591			
Average Square Feet	1,895	1,900	2,051	1,969	1,908			
Average Price/SF	\$73.61	\$58.70	\$64.33	\$73.74	\$57.96			
Average Year Built	1965	1961	1973	1971	1966			

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

Miami Single Fam	Miami Single Family Sales Activity						
All Bedroom Type	es						
Year	2011	2012	2013	2014	YTD 2015		
# of Units Sold	173	189	217	225	173		
Average Sale Price	\$69,613	\$61,199	\$60,800	\$68,113	\$65,373		
Average Square Feet	1,275	1,305	1,312	1,368	1,330		
Average Price/SF	\$54.60	\$46.90	\$46.36	\$49.79	\$49.15		
Average Year Built	1950	1950	1953	1955	1951		

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

Between 2011 and 2014, the average sale price fluctuated between approximately \$60,000 and \$70,000. The average sale price in 2015 was \$65,373 for an average price per square foot of \$49.15. The average year of construction has varied between the early to mid-1950s, with an average of 1951 in 2015.

Foreclosure Rates

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



Foreclosure Rates						
Geography	% of Outstanding Mortgages in Foreclosure, May 2014					
Ottawa County	3.1%					
State of Oklahoma	2.1%					
United States	2.1%					
Rank among Counties in Oklahoma*:	13					
* Rank among the 64 counties for	r which foreclosure rates are available					
Source: Federal Reserve Bank of New Y	York. Community Credit Profiles					

According to the data provided, the foreclosure rate in Ottawa County was 3.1% in May 2014. The county ranked 13 out of 64 counties in terms of highest foreclosure rates in Oklahoma. This rate compares with the statewide and nationwide foreclosure rates, both of which were 2.1%. Compared with the rest of the state, Miami appears disproportionately affected by foreclosures which has likely had a negative impact on the area's real estate market.



Rental Market 42

Rental Market

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

	Miami		Ottawa C	County	State of C	Oklahoma
	No.	Percent	No.	Percent	No.	Percent
Total Rental Units:	1,825		3,302		475,345	
With cash rent:	1,749		2,963		432,109	
Less than \$100	4	0.22%	9	0.27%	2,025	0.43%
\$100 to \$149	13	0.71%	13	0.39%	2,109	0.44%
\$150 to \$199	46	2.52%	76	2.30%	4,268	0.90%
\$200 to \$249	107	5.86%	125	3.79%	8,784	1.85%
\$250 to \$299	67	3.67%	146	4.42%	8,413	1.77%
\$300 to \$349	48	2.63%	94	2.85%	9,107	1.92%
\$350 to \$399	92	5.04%	172	5.21%	10,932	2.30%
\$400 to \$449	61	3.34%	188	5.69%	15,636	3.29%
\$450 to \$499	115	6.30%	165	5.00%	24,055	5.06%
\$500 to \$549	132	7.23%	261	7.90%	31,527	6.63%
\$550 to \$599	147	8.05%	256	7.75%	33,032	6.95%
\$600 to \$649	127	6.96%	202	6.12%	34,832	7.33%
\$650 to \$699	146	8.00%	245	7.42%	32,267	6.79%
\$700 to \$749	84	4.60%	207	6.27%	30,340	6.38%
\$750 to \$799	119	6.52%	187	5.66%	27,956	5.88%
\$800 to \$899	203	11.12%	281	8.51%	45,824	9.64%
\$900 to \$999	91	4.99%	147	4.45%	34,153	7.18%
\$1,000 to \$1,249	120	6.58%	156	4.72%	46,884	9.86%
\$1,250 to \$1,499	16	0.88%	19	0.58%	14,699	3.09%
\$1,500 to \$1,999	11	0.60%	14	0.42%	10,145	2.13%
\$2,000 or more	0	0.00%	0	0.00%	5,121	1.08%
No cash rent	76	4.16%	339	10.27%	43,236	9.10%
Median Gross Rent		\$617		\$595		\$699

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



Median gross rent in Ottawa County is estimated to be \$595, which is -14.9% less than Oklahoma's median gross rent of \$699/month. Median gross rent in Miami is estimated to be \$617.

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										
	Miami	Ottawa County	State of Oklahoma							
	Median Rent	Median Rent	Median Rent							
Total Rental Units:										
Built 2010 or Later	-	\$675	\$933							
Built 2000 to 2009	\$809	\$779	\$841							
Built 1990 to 1999	\$675	\$636	\$715							
Built 1980 to 1989	\$570	\$557	\$693							
Built 1970 to 1979	\$545	\$540	\$662							
Built 1960 to 1969	\$650	\$576	\$689							
Built 1950 to 1959	\$666	\$631	\$714							
Built 1940 to 1949	\$676	\$631	\$673							
Built 1939 or Earlier	\$515	\$552	\$651							

Note: Dashes indicate the Census Bureau had insufficient data to estimate a median gross rent. Source: 2009-2013 American Community Survey, Table 25111

Miami Rental Survey Data

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

Name	Туре	Year Built	Bedrooms	Bathrooms	Size (SF)	Rate	Rate/SF	Vacancy
Chisholm Trail Apartments	Market Rate	1970	1	1	615	\$400	\$0.650	8.00%
Chisholm Trail Apartments	Market Rate	1970	2	1	720	\$501	\$0.696	8.00%
Chisholm Trail Apartments	Market Rate	1970	3	1	950	\$527	\$0.555	8.00%
Village Apartments	Market Rate	1960	1	1	382	\$385	\$1.008	0.00%
Twin Springs Estates	LIHTC - Family	2002	2	1	820	\$550	\$0.671	16.70%
Pine Place Apartments	Project-Based -	1983	1	1	596	30%	N/A	12.50%
	Elderly/Disabled							
St. James Court Apartments	Market Rate	1920	1	1	600	\$495	\$0.825	0.00%
St. James Court Apartments	Market Rate	1920	2	1	700	\$555	\$0.793	0.00%
St. James Court Apartments	Market Rate	1920	2	2	900	\$670	\$0.744	0.00%

The previous rent surveys encompass over 280 rental units in five complexes. These properties are located throughout the community and provide a good indication of the availability and rental



structure of multifamily property. Rental rates at most of these complexes have been level for the last two to three years, with only a few unit types reporting increases of \$10 per month.

Rental Market Vacancy – Miami

Although the overall market vacancy of rental housing units was reported at 6.45% by the Census Bureau as of the most recent American Community Survey, most of the complexes we have surveyed are reporting vacancy of at least 8%. This includes Pine Place Apartments, a project-based facility for the elderly/disabled, which is reporting 12.5% vacancy, and Twin Springs Estates, a tax credit facility for families which is reporting 16.7% vacancy. St. James Court, a market rate property located in a historic building, notably reports full occupancy with a waiting list.





St. James Court Apartments



Twin Springs Estates



Chisholm Trail Apartments



Pine Place Apartments



Village Apartments



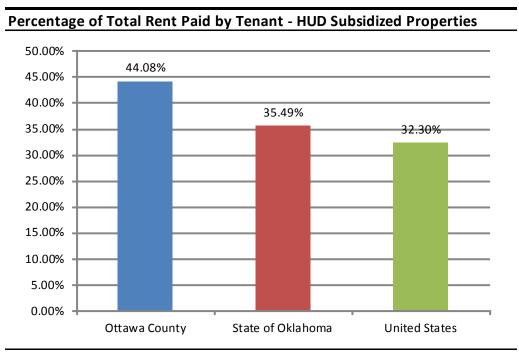
Summary of HUD Subsidized Properties

The following tables present data for housing units and households subsidized by the United States Department of Housing and Urban Development, for Ottawa 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.

			Avg.			% of
		Occupancy	Household	Tenant	Federal	Total
Ottawa County	# Units	Rate	Income	Contribution	Contribution	Rent
Public Housing	357	76%	\$12,247	\$252	\$272	48.12%
Housing Choice Vouchers	259	77%	\$10,958	\$274	\$410	40.06%
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	80	96%	\$13,184	\$279	\$280	49.94%
Section 236	0	N/A	N/A	N/A	N/A	N/A
Multi-Family Other	24	96%	\$8,979	\$85	\$380	18.31%
Summary of All HUD Programs	720	79%	\$11,792	\$257	\$326	44.08%
State of Oklahoma						
Public Housing	13,088	96%	\$11,328	\$215	\$371	36.71%
Housing Choice Vouchers	24,651	93%	\$10,766	\$283	\$470	37.57%
Mod Rehab	158	89%	\$7,272	\$129	\$509	20.17%
Section 8 NC/SR	4,756	93%	\$10,730	\$242	\$465	34.24%
Section 236	428	89%	\$8,360	\$192	\$344	35.82%
Multi-Family Other	7,518	91%	\$7,691	\$176	\$448	28.18%
Summary of All HUD Programs	50,599	94%	\$10,360	\$242	\$440	35.49%
United States						
Public Housing	1,150,867	94%	\$13,724	\$275	\$512	34.91%
Housing Choice Vouchers	2,386,237	92%	\$13,138	\$346	\$701	33.04%
Mod Rehab	19,148	87%	\$8,876	\$153	\$664	18.78%
Section 8 NC/SR	840,900	96%	\$12,172	\$274	\$677	28.80%
Section 236	126,859	93%	\$14,347	\$211	\$578	26.74%
Multi-Family Other	656,456	95%	\$11,135	\$255	\$572	30.80%
Summary of All HUD Programs	5,180,467	94%	\$12,892	\$304	\$637	32.30%

Among all HUD programs, there are 720 housing units located within Ottawa County, with an overall occupancy rate of 79%. The average household income among households living in these units is \$11,792. Total monthly rent for these units averages \$582, with the federal contribution averaging \$326 (55.92%) and the tenant's contribution averaging \$257 (44.08%).





Source: 2013 HUD Picture of Subsidized Households

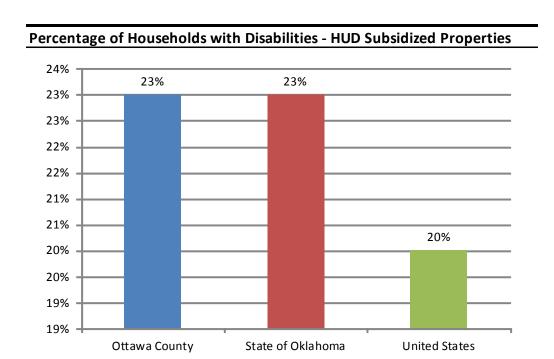
The following table presents select demographic variables among the households living in units subsidized by HUD.



Demographics of Persor	s in HUD) Program	s in Ottaw	a County		
		% Single	% w/		% Age 62+ w/	
Ottawa County	# Units	Mothers	Disability	% Age 62+	Disability	% Minority
Public Housing	357	16%	27%	43%	22%	6%
Housing Choice Vouchers	259	56%	14%	15%	47%	21%
Mod Rehab	0	N/A	N/A	N/A	N/A	N/A
Section 8 NC/SR	80	0%	29%	83%	14%	21%
Section 236	0	N/A	N/A	N/A	N/A	N/A
Multi-Family Other	24	0%	100%	21%	100%	8%
Summary of All HUD Programs	720	27%	23%	38%	25%	13%
State of Oklahoma						
Public Housing	13,088	33%	22%	28%	63%	44%
Housing Choice Vouchers	24,651	46%	25%	17%	77%	60%
Mod Rehab	158	46%	17%	13%	67%	42%
Section 8 NC/SR	4,756	14%	32%	52%	28%	25%
Section 236	428	32%	22%	24%	32%	33%
Multi-Family Other	7,518	42%	12%	22%	25%	47%
Summary of All HUD Programs	50,599	38%	23%	25%	53%	50%
United States						
Public Housing	1,150,867	36%	20%	31%	48%	71%
Housing Choice Vouchers	2,386,237	44%	22%	22%	68%	67%
Mod Rehab	19,148	28%	27%	24%	69%	71%
Section 8 NC/SR	840,900	18%	21%	56%	19%	45%
Section 236	126,859	25%	13%	47%	16%	59%
Multi-Family Other	656,456	31%	13%	44%	16%	63%
Summary of All HUD Programs	5,180,467	36%	20%	33%	40%	64%
Source: U.S. Dept. of Housing and Urban I	Development,	Picture of Subsi	dized Households	-2013		

27% of housing units are occupied by single parents with female heads of household. 23% of households have at least one person with a disability. 38% of households have either a householder or spouse age 62 or above. Of the households age 62 or above, 25% have one or more disabilities. Finally, 13% of households are designated as racial or ethnic minorities.



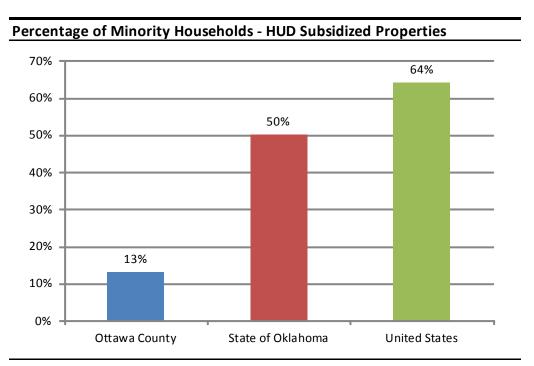


Source: 2013 HUD Picture of Subsidized Households

Percentage of Households Age 62+ - HUD Subsidized Properties 38% 40% 35% 33% 30% 25% 25% 20% 15% 10% 5% 0% Ottawa County State of Oklahoma **United States**

Source: 2013 HUD Picture of Subsidized Households





Source: 2013 HUD Picture of Subsidized Households



Projected Housing Need

Consolidated Housing Affordability Strategy (CHAS)

This section will analyze data from the U.S. Department of Housing and Urban Development's Consolidated Housing Affordability Strategy (CHAS) dataset for Ottawa 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 Ottawa 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.

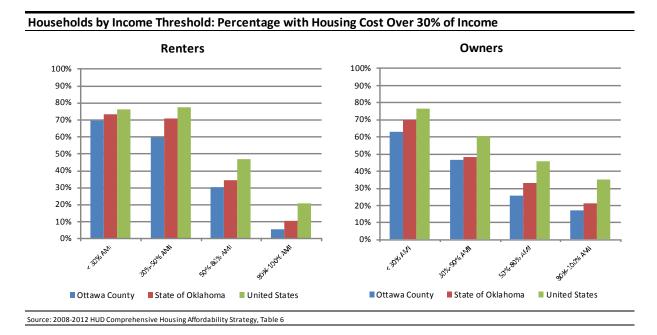


Ottawa County : CHAS - Housing Cost Burden by HAMFI									
	C	Owners		Renters					
Household Income / Cost Burden	Number	Percent	Number	Percent					
Income < 30% HAMFI	670		830						
Cost Burden Less Than 30%	170	25.37%	165	19.88%					
Cost Burden Between 30%-50%	130	19.40%	135	16.27%					
Cost Burden Greater Than 50%	290	43.28%	440	53.01%					
Not Computed (no/negative income)	80	11.94%	90	10.84%					
Income 30%-50% HAMFI	1,010		700						
Cost Burden Less Than 30%	540	53.47%	290	41.43%					
Cost Burden Between 30%-50%	305	30.20%	280	40.00%					
Cost Burden Greater Than 50%	165	16.34%	135	19.29%					
Not Computed (no/negative income)	0	0.00%	0	0.00%					
Income 50%-80% HAMFI	1,575		695						
Cost Burden Less Than 30%	1,170	74.29%	485	69.78%					
Cost Burden Between 30%-50%	315	20.00%	205	29.50%					
Cost Burden Greater Than 50%	85	5.40%	4	0.58%					
Not Computed (no/negative income)	0	0.00%	0	0.00%					
Income 80%-100% HAMFI	885		295						
Cost Burden Less Than 30%	735	83.05%	280	94.92%					
Cost Burden Between 30%-50%	140	15.82%	15	5.08%					
Cost Burden Greater Than 50%	10	1.13%	0	0.00%					
Not Computed (no/negative income)	0	0.00%	0	0.00%					
All Incomes	8,940		3,195						
Cost Burden Less Than 30%	7,235	80.93%	1,880	58.84%					
Cost Burden Between 30%-50%	1,045	11.69%	650	20.34%					
Cost Burden Greater Than 50%	575	6.43%	579	18.12%					
Not Computed (no/negative income)	80	0.89%	90	2.82%					
Source: 2008-2012 HUD Comprehensive Housing Aff	ordability Strate	egy, 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 Ottawa County with the State of Oklahoma as a whole, and the United States.

		Owners		Renters
		% w/ Cost >		% w/ Cost >
usehold Income Threshold	Total	30% Income	Total	30% Income
come < 30% HAMFI	670	62.69%	830	69.28%
ome 30%-50% HAMFI	1,010	46.53%	700	59.29%
me 50%-80% HAMFI	1,575	25.40%	695	30.07%
ome 80%-100% HAMFI	885	16.95%	295	5.08%
ncomes	8,940	18.12%	3,195	38.47%





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
- 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.



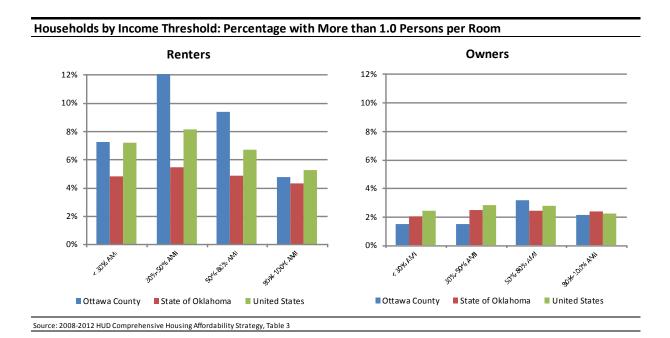
Ottawa County : CHAS - HAMFI k	Ottawa County: CHAS - HAMFI by Substandard Conditions / Overcrowding								
<u> </u>		Owners		Renters					
Household Income / Housing Problem	Number	Percent	Number	Percent					
Income < 30% HAMFI	670		830						
Between 1.0 and 1.5 Persons per Room	10	1.49%	25	3.01%					
More than 1.5 Persons per Room	0	0.00%	35	4.22%					
Lacks Complete Kitchen or Plumbing	30	4.48%	50	6.02%					
Income 30%-50% HAMFI	1,010		700						
Between 1.0 and 1.5 Persons per Room	15	1.49%	45	6.43%					
More than 1.5 Persons per Room	0	0.00%	75	10.71%					
Lacks Complete Kitchen or Plumbing	25	2.48%	15	2.14%					
Income 50%-80% HAMFI	1,575		695						
Between 1.0 and 1.5 Persons per Room	40	2.54%	10	1.44%					
More than 1.5 Persons per Room	10	0.63%	55	7.91%					
Lacks Complete Kitchen or Plumbing	20	1.27%	40	5.76%					
Income 80%-100% HAMFI	885		295						
Between 1.0 and 1.5 Persons per Room	15	1.69%	4	1.36%					
More than 1.5 Persons per Room	4	0.45%	10	3.39%					
Lacks Complete Kitchen or Plumbing	10	1.13%	0	0.00%					
All Incomes	8,940		3,195						
Between 1.0 and 1.5 Persons per Room	140	1.57%	94	2.94%					
More than 1.5 Persons per Room	18	0.20%	185	5.79%					
Lacks Complete Kitchen or Plumbing	100	1.12%	105	3.29%					

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 Ottawa County, Oklahoma and the nation.

		Owners		Renters
		% > 1.0		% > 1.0
		Persons p	er	Persons per
Household Income Threshold	Total	Room	Total	Room
Income < 30% HAMFI	670	1.49%	830	7.23%
Income 30%-50% HAMFI	1,010	1.49%	700	17.14%
Income 50%-80% HAMFI	1,575	3.17%	695	9.35%
Income 80%-100% HAMFI	885	2.15%	295	4.75%
All Incomes	8,940	1.77%	3,195	8.73%

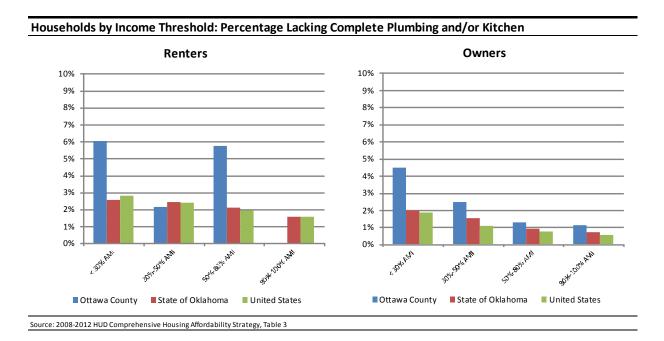




The table following summarizes this data for substandard housing conditions, with a comparison chart between Ottawa County, the state and the nation.

		Owners		Renters
		% Lacking		% Lacking
		Kitchen or		Kitchen or
Household Size/Type	Type Total Plumbing Total		Total	Plumbing
Income < 30% HAMFI	670	4.48%	830	6.02%
Income 30%-50% HAMFI	1,010	2.48%	700	2.14%
Income 50%-80% HAMFI	1,575	1.27%	695	5.76%
Income 80%-100% HAMFI	885	0.00%		
All Incomes	8,940	3.29%		





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.



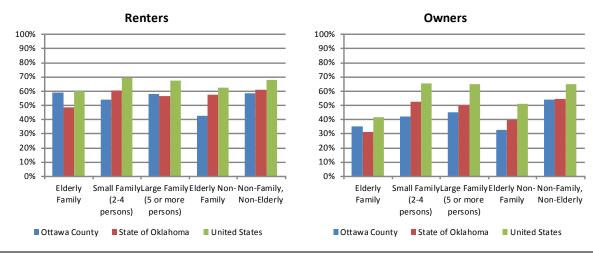
		Owners			Renters	
		No. w/	Pct. w/		No. w/	Pct. w/
		Cost > 30%	Cost > 30%	,	Cost > 30%	Cost > 30%
Income, Household Size/Type	Total	Income	Income	Total	Income	Income
Income < 30% HAMFI	670	425	63.43%	830	573	69.04%
Elderly Family	70	50	71.43%	4	4	100.00%
Small Family (2-4 persons)	215	140	65.12%	355	250	70.42%
Large Family (5 or more persons)	15	15	100.00%	65	44	67.69%
Elderly Non-Family	230	135	58.70%	110	65	59.09%
Non-Family, Non-Elderly	140	85	60.71%	290	210	72.41%
Income 30%-50% HAMFI	1,010	475	47.03%	700	413	59.00%
Elderly Family	215	105	48.84%	15	14	93.33%
Small Family (2-4 persons)	185	85	45.95%	245	170	69.39%
Large Family (5 or more persons)	70	50	71.43%	125	74	59.20%
Elderly Non-Family	355	105	29.58%	155	50	32.26%
Non-Family, Non-Elderly	190	130	68.42%	165	105	63.64%
Income 50%-80% HAMFI	1,575	395	25.08%	695	213	30.65%
Elderly Family	330	60	18.18%	80	40	50.00%
Small Family (2-4 persons)	575	185	32.17%	295	60	20.34%
Large Family (5 or more persons)	170	50	29.41%	40	15	37.50%
Elderly Non-Family	375	70	18.67%	75	29	38.67%
Non-Family, Non-Elderly	125	30	24.00%	205	69	33.66%
Income 80%-100% HAMFI	885	153	17.29%	295	16	5.42%
Elderly Family	295	45	15.25%	25	0	0.00%
Small Family (2-4 persons)	265	50	18.87%	145	4	2.76%
Large Family (5 or more persons)	75	4	5.33%	20	4	20.00%
Elderly Non-Family	145	20	13.79%	25	4	16.00%
Non-Family, Non-Elderly	100	34	34.00%	85	4	4.71%
All Incomes	8,940	1,626	18.19%	3,195	1,223	38.28%
Elderly Family	1,900	314	16.53%	189	58	30.69%
Small Family (2-4 persons)	3,905	540	13.83%	1,415	488	34.49%
Large Family (5 or more persons)	655	129	19.69%	305	137	44.92%
Elderly Non-Family	1,500	334	22.27%	395	148	37.47%
Non-Family, Non-Elderly	985	309	31.37%	895	392	43.80%



Ottawa County: Households under 80% AMI by Cost Burden									
		Owners			Renters				
		No. w/	Pct. w/		No. w/	Pct. w/			
		Cost > 30%	Cost > 30%		Cost > 30%	Cost > 30%			
Household Size/Type	Total	Income	Income	Total	Income	Income			
Income < 80% HAMFI	3,255	1,295	39.78%	2,225	1,199	53.89%			
Elderly Family	615	215	34.96%	99	58	58.59%			
Small Family (2-4 persons)	975	410	42.05%	895	480	53.63%			
Large Family (5 or more persons)	255	115	45.10%	230	133	57.83%			
Elderly Non-Family	960	310	32.29%	340	144	42.35%			
Non-Family, Non-Elderly	455	245	53.85%	660	384	58.18%			

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).



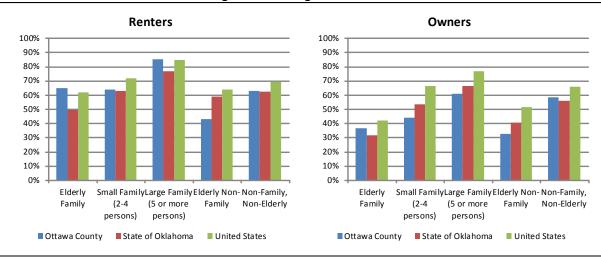
		Owners			Renters	
		No. w/	Pct. w/		No. w/	Pct. w/
		Housing	Housing		Housing	Housing
Income, Household Size/Type	Total	Problems	Problems	Total	Problems	Problems
Income < 30% HAMFI	670	430	64.18%	830	609	73.37%
Elderly Family	70	50	71.43%	4	4	100.00%
Small Family (2-4 persons)	215	145	67.44%	355	275	77.46%
Large Family (5 or more persons)	15	15	100.00%	65	50	76.92%
Elderly Non-Family	230	130	56.52%	110	65	59.09%
Non-Family, Non-Elderly	140	90	64.29%	290	215	74.14%
Income 30%-50% HAMFI	1,010	495	49.01%	700	475	67.86%
Elderly Family	215	105	48.84%	15	15	100.00%
Small Family (2-4 persons)	185	85	45.95%	245	190	77.55%
Large Family (5 or more persons)	70	55	78.57%	125	115	92.00%
Elderly Non-Family	355	110	30.99%	155	50	32.26%
Non-Family, Non-Elderly	190	140	73.68%	165	105	63.64%
Income 50%-80% HAMFI	1,575	460	29.21%	695	305	43.88%
Elderly Family	330	70	21.21%	80	45	56.25%
Small Family (2-4 persons)	575	200	34.78%	295	105	35.59%
Large Family (5 or more persons)	170	85	50.00%	40	30	75.00%
Elderly Non-Family	375	70	18.67%	75	30	40.00%
Non-Family, Non-Elderly	125	35	28.00%	205	95	46.34%
Income Greater than 80% of HAMFI	5,685	450	7.92%	970	64	6.60%
Elderly Family	1,285	110	8.56%	90	0	0.00%
Small Family (2-4 persons)	2,930	165	5.63%	520	35	6.73%
Large Family (5 or more persons)	400	80	20.00%	70	15	21.43%
Elderly Non-Family	540	25	4.63%	55	4	7.27%
Non-Family, Non-Elderly	530	70	13.21%	235	10	4.26%
All Incomes	8,940	1,835	20.53%	3,195	1,453	45.48%
Elderly Family	1,900	335	17.63%	189	64	33.86%
Small Family (2-4 persons)	3,905	595	15.24%	1,415	605	42.76%
Large Family (5 or more persons)	655	235	35.88%	300	210	70.00%
Elderly Non-Family	1,500	335	22.33%	395	149	37.72%
Non-Family, Non-Elderly	985	335	34.01%	895	425	47.49%



Ottawa County: Households under 80% AMI by Housing Problems								
		Owners			Renters			
		No. w/	Pct. w/		No. w/	Pct. w/		
		Housing	Housing		Housing	Housing		
Household Size/Type	Total	Problems	Problems	Total	Problems	Problems		
Income < 80% HAMFI	3,255	1,385	42.55%	2,225	1,389	62.43%		
Elderly Family	615	225	36.59%	99	64	64.65%		
Small Family (2-4 persons)	975	430	44.10%	895	570	63.69%		
Large Family (5 or more persons)	255	155	60.78%	230	195	84.78%		
Elderly Non-Family	960	310	32.29%	340	145	42.65%		
Non-Family, Non-Elderly	455	265	58.24%	660	415	62.88%		

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

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 Ottawa 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."



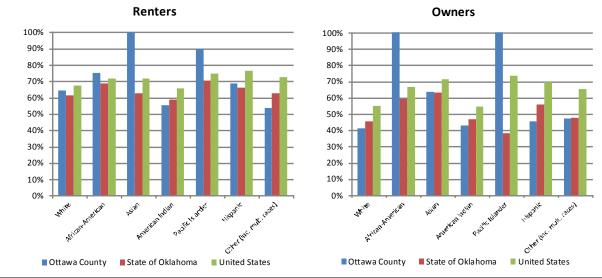
		Owners			Renters	
		No. w/	Pct. w/		No. w/	Pct. w/
		Housing	Housing		Housing	Housing
Income, Race / Ethnicity	Total	Problems	Problems	Total	Problems	Problems
Income < 30% HAMFI	670	430	64.2%	830	615	74.1%
White alone, non-Hispanic	460	275	59.8%	505	400	79.2%
Black or African-American alone	0	0	N/A	8	4	50.0%
Asian alone	4	4	100.0%	4	4	100.0%
American Indian alone	139	100	71.9%	180	130	72.2%
Pacific Islander alone	10	10	100.0%	14	10	71.4%
Hispanic, any race	18	10	55.6%	33	25	75.8%
Other (including multiple races)	49	35	71.4%	95	45	47.4%
Income 30%-50% HAMFI	1,010	490	48.5%	700	470	67.1%
White alone, non-Hispanic	740	355	48.0%	515	345	67.0%
Black or African-American alone	4	4	100.0%	4	4	100.0%
Asian alone	4	0	0.0%	0	0	N/A
American Indian alone	140	70	50.0%	50	35	70.0%
Pacific Islander alone	0	0	N/A	20	20	100.0%
Hispanic, any race	29	25	86.2%	29	25	86.2%
Other (including multiple races)	90	30	33.3%	75	40	53.3%
Income 50%-80% HAMFI	1,570	460	29.3%	695	310	44.6%
White alone, non-Hispanic	1,225	370	30.2%	495	230	46.5%
Black or African-American alone	0	0	N/A	4	4	100.0%
Asian alone	14	10	71.4%	0	0	N/A
American Indian alone	200	35	17.5%	105	20	19.0%
Pacific Islander alone	0	0	N/A	4	4	100.0%
Hispanic, any race	30	0	0.0%	40	20	50.0%
Other (including multiple races)	105	50	47.6%	45	30	66.7%
Income 80%-100% HAMFI	885	180	20.3%	300	30	10.0%
White alone, non-Hispanic	670	145	21.6%	220	15	6.8%
Black or African-American alone	0	0	N/A	4	0	0.0%
Asian alone	8	4	50.0%	0	0	N/A
American Indian alone	145	15	10.3%	50	10	20.0%
Pacific Islander alone	0	0	N/A	8	4	50.0%
Hispanic, any race	15	0	0.0%	0	0	N/A
Other (including multiple races)	50	15	30.0%	15	0	0.0%
All Incomes	8,935	1,835	20.5%	3,200	1,460	45.6%
White alone, non-Hispanic	6,765	1,350	20.0%	2,240	1,005	44.9%
Black or African-American alone	8	4	50.0%	35	12	34.3%
Asian alone	50	28	56.0%	8	4	50.0%
American Indian alone	1,339	280	20.9%	475	205	43.2%
Pacific Islander alone	14	10	71.4%	50	38	76.0%
Hispanic, any race	191	39	20.4%	112	70	62.5%
Other (including multiple races)	593	134	22.6%	280	125	44.6%



Ottawa County : Household	ls under	80% AMI b	y Race/Et	hnicity		
		Owners			Renters	
		No. w/	Pct. w/		No. w/	Pct. w/
		Housing	Housing		Housing	Housing
Household Size/Type	Total	Problems	Problems	Total	Problems	Problems
Income < 80% HAMFI	3,250	1,380	42.46%	2,225	1,395	62.70%
White alone, non-Hispanic	2,425	1,000	41.24%	1,515	975	64.36%
Black or African-American alone	4	4	100.00%	16	12	75.00%
Asian alone	22	14	63.64%	4	4	100.00%
American Indian alone	479	205	42.80%	335	185	55.22%
Pacific Islander alone	10	10	100.00%	38	34	89.47%
Hispanic, any race	77	35	45.45%	102	70	68.63%
Other (including multiple races)	244	115	47.13%	215	115	53.49%

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

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



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

CHAS Conclusions

The previous data notes many areas of need (and severe need) among the existing population of Ottawa 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 990 renter households that are cost overburdened, and 890 homeowners that are cost overburdened.
- Among elderly households with incomes less than 50% of Area Median Income, there are 133
 renter households that are cost overburdened, and 870 homeowners that are cost
 overburdened.



• 75.0% of African American renters with incomes less than 80% of Area Median Income have one or more housing problems, 100% of Asian renters with incomes less than 80% of Area Median Income have one or more housing problems, and 89.47% of Pacific Islander renters with incomes less than 80% of Area Median Income have one or more housing problems.



Overall Anticipated Housing Demand

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

Miami Anticipated Demand

Households in Miami declined at an annually compounded rate of -0.49% from 2000 to 2010. Nielsen SiteReports estimates households have declined -0.03% per year since that time, but that households will grow 0.27% per year through 2020. For these reasons we will rely on the Nielsen SiteReports forecast of 0.27% per year in forecasting future household growth for Miami.

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

Future Housing Demand Estimates for Miami							
Year		2015	2016	2017	2018	2019	2020
Household Es	timates	5,308	5,322	5,337	5,351	5,366	5,380
Owner %: 6	55.05%	3,453	3,462	3,471	3,481	3,490	3,499
Renter %: 3	34.95%	1,855	1,860	1,865	1,870	1,876	1,881
			-	Total New O	wner House	holds	47
			•	Total New R	enter House	holds	25

Based on an estimated household growth rate of 0.27% per year, Miami would require 47 new housing units for ownership, and 25 units for rent, over the next five years. Annually this equates to 9 units for ownership per year, and 5 units for rent per year.

Ottawa County Anticipated Demand

Households in Ottawa County declined at an annually compounded rate of -0.50% from 2000 to 2010. Nielsen SiteReports estimates households have grown 0.29% per year since that time, and that households will grow 0.47% per year through 2020. For these reasons we will rely on the Nielsen SiteReports forecast of 0.47% per year in forecasting future household growth for Ottawa County.

The percentage of owner households was estimated at 72.79% with renter households estimated at 27.21%, based on data from the U.S. Census Bureau. The estimated number of additional units needed to service increasing demand can be estimated by applying this percentage to the anticipated growth



in households. It should be noted that this is an estimate of rental and owner requirements and should be relied upon only as a guideline for possible new demand. The calculations are shown below.

Future Housing Demand Estimates for Ottawa County							
Year		2015	2016	2017	2018	2019	2020
Household	Estimates	12,527	12,586	12,645	12,704	12,764	12,824
Owner %:	72.79%	9,118	9,161	9,204	9,247	9,291	9,334
Renter %:	27.21%	3,409	3,425	3,441	3,457	3,473	3,490
			Т	otal New O	wner House	holds	216
			Т	otal New Re	enter House	holds	81

Based on an estimated household growth rate of 0.47% per year, Ottawa County would require 216 new housing units for ownership, and 81 units for rent, over the next five years. Annually this equates to 43 units for ownership per year, and 16 units for rent per year.



Housing Demand – Population Subsets

This section will address 5-year forecasted needs and trends for population special population subsets for Ottawa 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 Ottawa 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.

Ottawa County: 2015-2020 Housing Needs by Income Threshold						
	Owner	Renter				
	Subset %	Subset %	Owners	Renters	Total	
Total New Demand: 2015-2020	100.00%	100.00%	216	81	297	
Less than 30% AMI	7.49%	25.98%	16	21	37	
Less than 50% AMI	18.79%	47.89%	41	39	7 9	
Less than 60% AMI	22.55%	57.46%	49	46	95	
Less than 80% AMI	36.41%	69.64%	79	56	135	

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.

Ottawa County: 2015-2020 Housing Needs Age 62 and Up						
	Owner	Renter	Elderly	Elderly	Elderly	
	Subset %	Subset %	Owners	Renters	Total	
Total New Elderly (62+) Demand: 2015-2020	38.03%	18.28%	82	15	97	
Elderly less than 30% AMI	3.36%	3.57%	7	3	10	
Elderly less than 50% AMI	9.73%	8.89%	21	7	28	
Elderly less than 60% AMI	11.68%	10.67%	25	9	34	
Elderly less than 80% AMI	17.62%	13.74%	38	11	49	

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.



Ottawa County: 2015-2020 Housing Needs for Persons with Disabilities						
	Owner	Renter	Disabled	Disabled	Disabled	
	Subset %	Subset %	Owners	Renters	Total	
Total New Disabled Demand (2015-2020)	39.99%	38.97%	86	31	118	
Disabled less than 30% AMI	4.31%	11.58%	9	9	19	
Disabled less than 50% AMI	10.40%	21.60%	22	17	40	
Disabled less than 60% AMI	12.48%	25.92%	27	21	48	
Disabled less than 80% AMI	18.57%	30.99%	40	25	65	

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.

Ottawa County: 2015-2020 Housing Needs for Veterans						
	Owner	Renter	Veteran	Veteran	Veteran	
	Subset %	Subset %	Owners	Renters	Total	
Total New Demand (2015-2020)	100.00%	100.00%	216	81	297	
Total Veteran Demand	11.70%	11.70%	25	9	35	
Veterans with Disabilities	4.53%	4.53%	10	4	13	
Veterans Below Poverty	1.22%	1.22%	3	1	4	
Disabled Veterans Below Poverty	0.45%	0.45%	1	0	1	

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).

Ottawa County: 2015-2020 Housing Needs for Working Families							
	Owner Renter						
	Subset %	Subset %	Owners	Renters	Total		
Total New Demand (2015-2020)	100.00%	100.00%	216	81	297		
Total Working Families	49.77%	49.77%	108	40	148		
Working Families with Children Present	25.14%	25.14%	54	20	75		



Population Subset Conclusions

Based on population and household growth over the next five years, a total of 1,399 housing units will be needed in Ottawa County over the next five years. Of those units:

- 95 will be needed by households earning less than 60% of Area Median Income
- 34 will be needed by households age 62 and up, earning less than 60% of Area Median Income
- 48 will be needed by households with disabilities / special needs, earning less than 60% of Area Median Income
- 4 will be needed by veterans living below the poverty line
- 75 will be needed by working families with children present

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



Special Topics



Ottawa 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 10 key cities within the county (Miami, Quapaw, Picher, Wyandotte, Afton, Fairland, Commerce, Peoria, Cardin, North Miami).

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

City of Miami has a draft comprehensive plan dated Nov 2015. Within the purpose statement for the plan the, City of Miami has noted:

"The conservation and improvement of neighborhoods citywide, including the potential relocation of structures at high risk for repeat flooding."

Neosho River (p.28)

"Historically, development occurred without consideration of elevation and the impacts of backwater flooding on the community. This has resulted in several major flood events since the area was settled, the most recent in 2007."

- "Through a series of studies and evaluations, the City has determined that any and below the elevation of 780' should be mitigated (+/- 600 properties).
- "Improvements that exceed 50% of the value of the property, as calculated by the Ottawa County Tax Assessor, should not be permitted and property owners should not be allowed to "stack" permits over a period of less than 10 years."

Tar Creek (p.28)

- "What was once a neighborhood suffering from repetitive flooding has been mitigated and converted to parkland for passive recreation."
- Riverview Recreation Unique Development Strategies (p.38)
- "Buildings in this area will have to be elevated in order to minimize the risk of flooding."

Steve Owens Boulevard (p.39)

 "Conservation Ordinances should be implemented to protect the natural lands and provide additional protection for flooding."

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.

Ottawa County does have a Hazard Mitigation Plan, but was unavailable for this study.



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

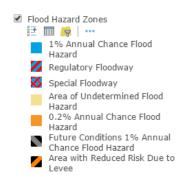
Data on historical damages and casualties is typically collected as part of a **Hazard Mitigation Plan** preparation to determine the appropriate planning measures and actions to take before and after an event.

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. As noted in the City of Miami's draft Comprehensive Plan, development in the floodplain has caused repeated damages. This city is working toward having fewer buildings within this risk zone.

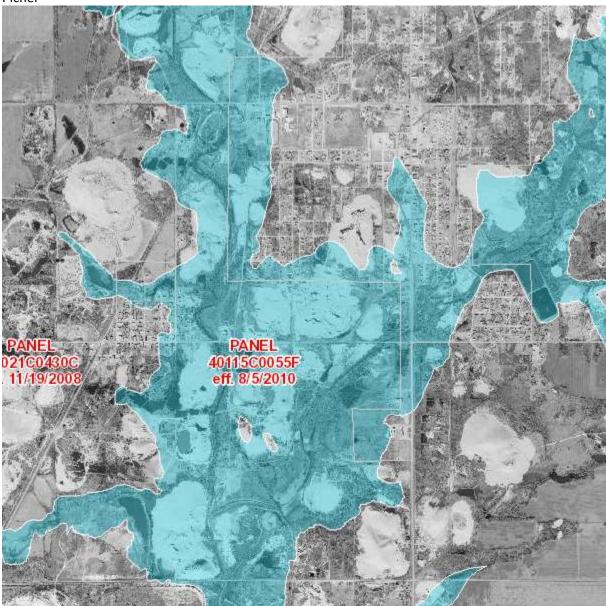
Miami Refres Refres

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





Picher



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

Flood Hazard Zones

1% Annual Chance Flood Hazard



Flood Hazard Zones **=** 🗐 💮 | •••

1% Annual Chance Flood Hazard Regulatory Floodway Special Floodway

Area of Undetermined Flood

Area of Undetermined Flood
Hazard
0.2% Annual Chance Flood
Hazard
Future Conditions 1% Annual
Chance Flood Hazard
Area with Reduced Risk Due to
Levee

Wyandotte



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

Fairland



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

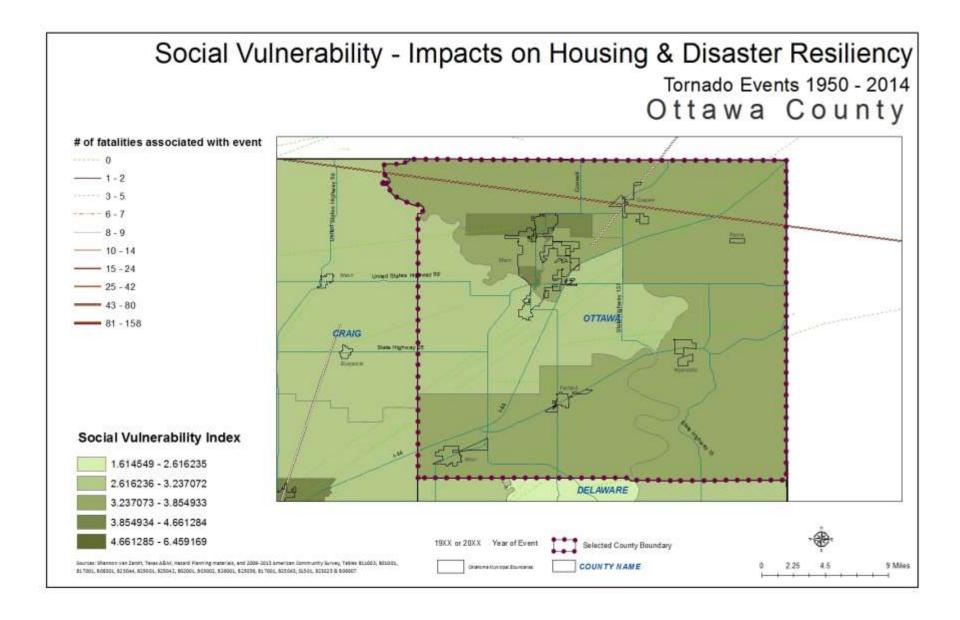
1% Annual Chance Flood Hazard



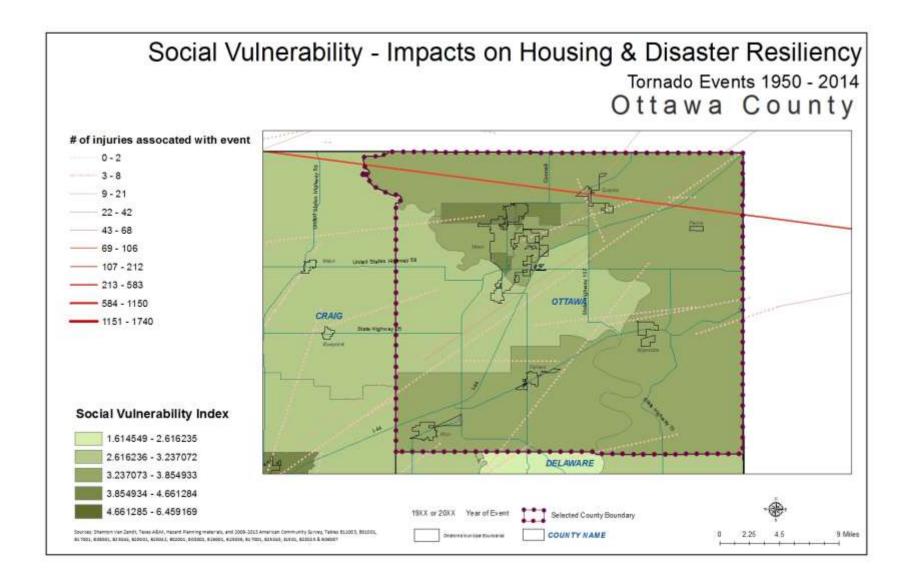
NOAA data shows the following historic data on disaster events for the county:

Historic data on tornados between 1950-2014 there are 33 tornados documented. There were 473 injuries that occurred connected to these tornados, with 350 of those injuries happening in the 2008 tornado. There were 22 fatalities connected to tornadoes during this time period, 21 of which occurred in same 2008 tornado. Property losses between 1950-1996 ranged from \$1,232,101.00 to \$12,321,050.00. (The accounting methods used for losses changed in 1996.) The losses estimated between 1996-2014 was \$75,300,000.00.

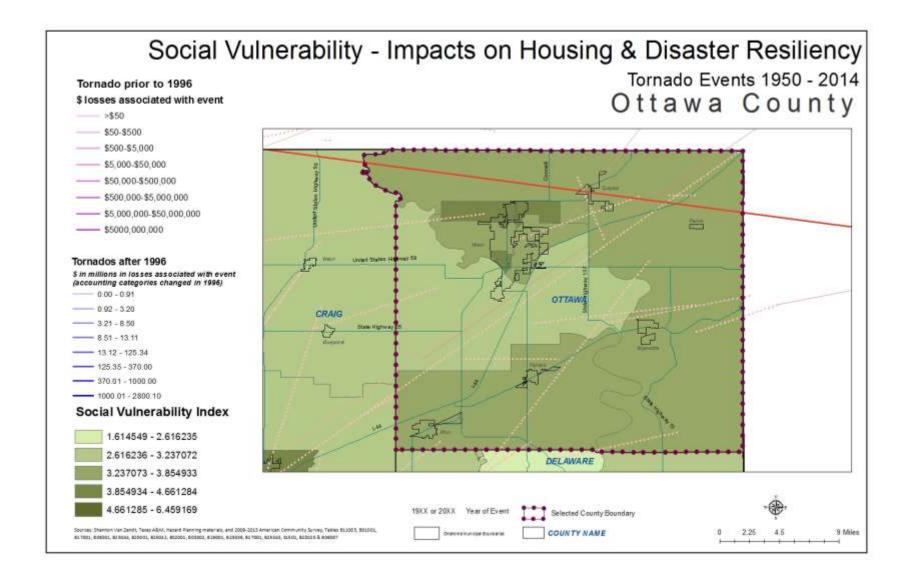














C.2.1.2; C.2.1.6; C.2.1.7; C.2.1.8 Shelters from Disaster Event

City of Miami Online registration:

http://www.miamiokla.net/DocumentCenter/View/334

The City of Miami does not maintain public storm shelters. The Miami Civic Center does not meet the construction specifications established by Texas Tech University's Wind Science and Engineering Department, and adopted by FEMA. In addition, there are a number of reasons why relying on a public shelter is a dangerous idea. http://www.miamiokla.net/DocumentCenter/View/439

In 2013, Ottawa County emergency management director submitted 120 applications to FEMA for storm shelter funding.

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.

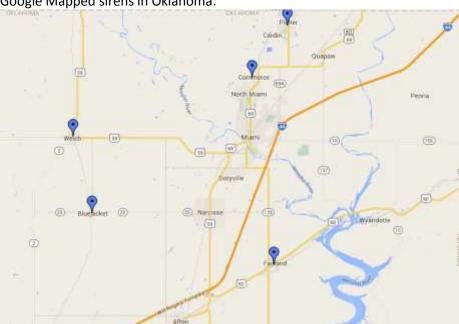
C.2.1.5 Threat & Hazard Warning Systems

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

☐ Sirens

☐ Emergency Broadcast System

Google Mapped sirens in Oklahoma:



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



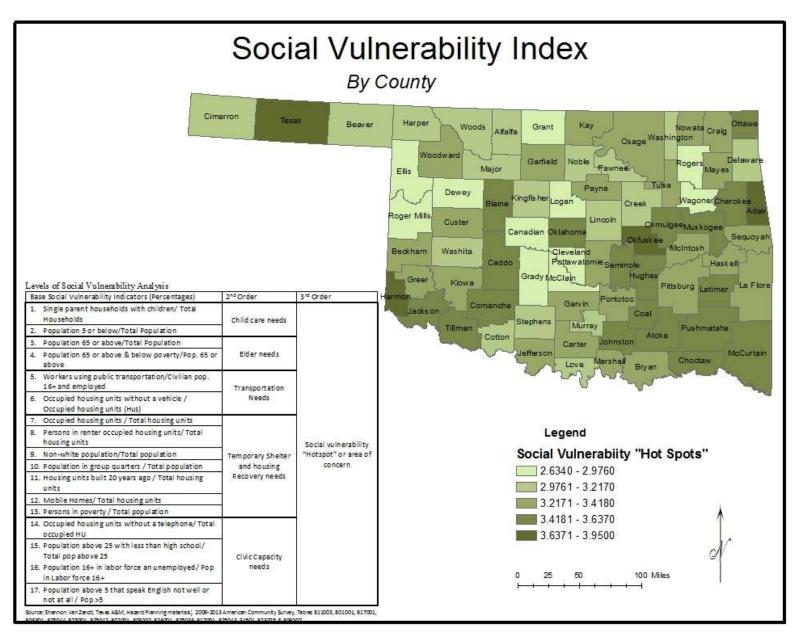
Social Vulnerability

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 - Ottawa County					
Base Social Vulnerability Indicators (%)		2nd Order	3rd Order		
1.) Single Parent Households	16.05%	0.229			
2.) Population Under 5	6.87%	(Child Care Needs)			
3.) Population 65 or Above	17.29%	0.287			
4.) Population 65 or Above & Below		(Elder Needs)			
Poverty Rate	11.37%	(Lidel Needs)			
5.) Workers Using Public Transportation	0.24%	0.059			
6.) Occupied Housing Units w/o Vehicle	5.70%	(Transportation Needs)			
7.) Housing Unit Occupancy Rate	86.20%				
8.) Rental Occupancy Rate	27.21%		3.536		
9.) Non-White Population	32.98%	2.647	Social Vulnerability		
10.) Population in Group Quarters	3.38%	(Temporary Shelter and Housing	'Hotspot' or Area of		
11.) Housing Units Built Prior to 1990	79.09%	Recovery Needs)	Concern		
12.) Mobile Homes, RVs, Vans, etc.	13.88%	,			
13.) Poverty Rate	21.97%				
14.) Housing Units Lacking Telephones	2.74%				
15.) Age 25+ With Less Than High		0.314			
School Diploma	16.40%	(Civic Capacity			
16.) Unemployment Rate	9.88%	Needs)			
17.) Age 5+ Which Cannot Speak English					
Well or Not At All	2.37%				

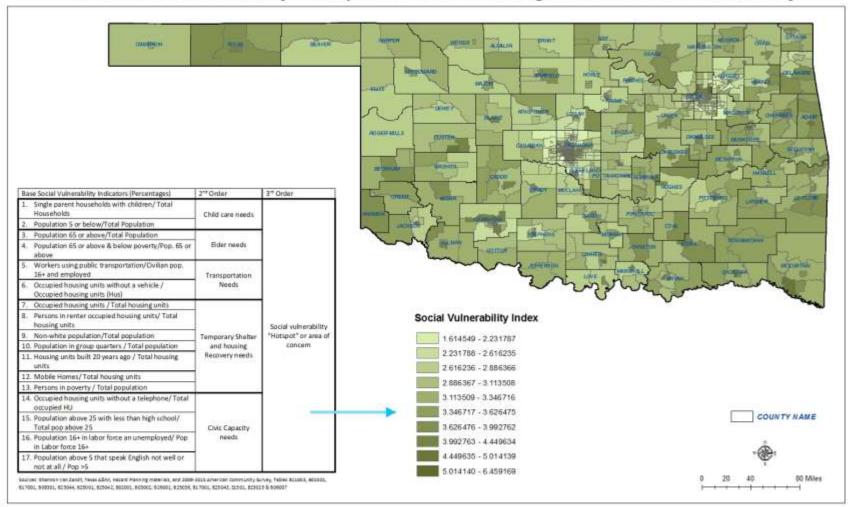
Sources: Shannon Van Zandt, Texas A&M, Hazard Planning materials, and 2009-2013 American Community Survey, Tables B11003, B01001, B17001, B08301, B25044, B25001, B25042, B02001, B03002, B26001, B25036, B17001, B25043, S1501, B23025 & B06007



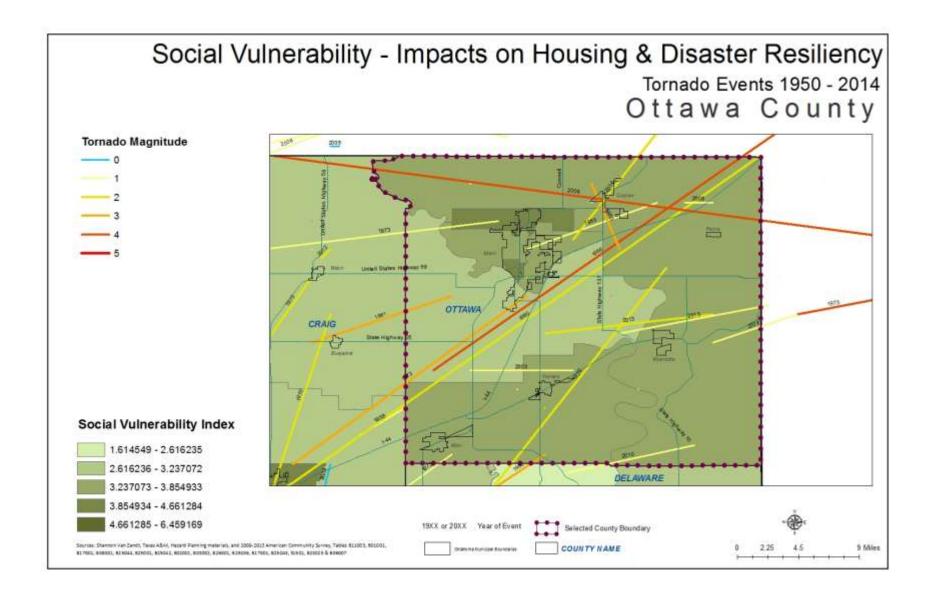




Social Vulnerability - Impacts on Housing & Disaster Resiliency









Social vulnerability 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 great gap or disadvantage prior to the event (Shannon Van Zandt, Texas A&M, Hazard Planning).

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

Recommendations for this county:

- 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 Ottawa 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 505 Northeast Oklahoma

OK 505 represents the northeast region of Oklahoma, including Craig, Ottawa, Delaware, Cherokee, Adair, Sequoyah, Washington, Nowata, Rogers, Mayes, and Wagoner counties. There is a disproportionately high number of homeless households comprised of children in this CoC (24 out of 300). Eight of these 24 child only households are unsheltered. This area also has a high incidence of homeless victims of domestic violence (168). This group, for the most part, appears to be finding shelter. However, of the homeless veterans (51), the majority are unsheltered (30). The population of homeless substance abusers is also significant in this CoC (122). They, too, are finding shelter with only 10 reported instances of the failure to find shelter.

This CoC has invested in the creation of a significant number of temporary and permanent units of shelter for homeless individuals and family. There are 449 units of temporary housing available to individual and families in this region year around. An additional 90 units of permanent housing are available to homeless families and individuals. There exists a need for more units of rapid rehousing for veterans given the current population of unsheltered vets.



OK 505 Northeast OK	Emergency Shelter(sheltered)	Transitional Housing(sheltered)	Unsheltered	Total
Households without children	155	33	47	235
Households with at least 1 adult & 1 child	29	3	9	41
Households with only children	16	0	8	24
total homeless households	200	36	64	300
Persons in households without children	156	33	47	236
persons age 18-24	32	3	19	54
persons over age 24	124	30	28	182
Persons in households with at least 1 adult & 1 child	87	8	28	123
children under age 18	55	4	17	76
persons age 18-24	6	0	0	6
persons over 24	26	4	11	41
persons in households with only 1 children	16	0	8	24
Total homeless persons	259	41	83	383
Subpopulations	Sheltered		Unsheltered	Total
Chronically Homeless	81		22	103
Chronically Homeless Individuals	61		12	73
Chronically Homeless Persons in Families	20		10	30
Severely Mentally III	33		16	49
Chronic Substance Abuse	112		10	122
Veterans	21		30	51
HIV/AIDS	0		0	0
Victims of Domestic Violence	159		9	168



CoC Number: OK-505

CoC Name: Northeast Oklahoma CoC

Summary of all beds reported by Continuum of Care:

								Subset of	Total Bed I	nventory
	Family Units	Family Beds	Adult-Only Beds	Child-Only Beds	Total Yr- Round Beds	Seasonal	Overflow / Voucher	Chronic Beds ²	Veteran Beds'	Youth Beds'
Emergency, Safe Haven and Transitional Housing	55	167	256	26	449	0	0	n/a	0	26
Emergency Shelter	52	159	219	26	404	0	0	n/a	0	26
Transitional Housing	3	8	37	0	45	n/a	n/a	n/a	0	0
Permanent Housing	9	30	65	0	95	n/a	n/a	n/a	14	0
Permanent Supportive Housing*	7	22	53	0	75	n/a	n/a	53	8	0
Rapid Re-Housing	1	5	5	0	10	n/a	n/a	n/a	6	0
Other Permanent Housing**	1	3	7	0	10	n/a	n/a	n/a	0	0
Grand Total	64	197	321	26	544	0	0	53	14	26

CoC beds reported by Program Type:

Emergency Shelter for	r Families ¹								Subset of	Total Bed I	nventory
Provider Name	Facility Name	Family Units*	Family Beds	Adult-Only Beds	Child-Only Beds	Seasonal	Overflow / Voucher	Total Beds	Chronic Beds ²	Veteran Beds'	Youth Beds'
Hope House	Hope House	5	18	0	0	0	0	18	n/a	0	0
Total		5	18	0	0	0	0	18	n/a	0	0



COC Conclusion

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

A Snap Shot of Homelessness in the State

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

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

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

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



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

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

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

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

Another group of homeless individuals that merits special consideration in the distribution of resources is those identified as having special needs. This classification includes persons with "physical, mental or behavioral disabilities, persons with HIV/AIS 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

ummary by household type reported:	SI	heltered		
	Emergency Shelter	Transitional Housing*	Unsheltered	Total
Households without children	1,652	376	575	2,603
Households with at least one adult and one child*	201	104	38	343
Households with only children?	35	0	39	74
Total Homeless Households	1,888	480	652	3,020
ummary of persons in each household type:				
Persons in households without children	1,676	397	623	2,696
Persons Age 18 to 24	214	61	110	385
Persons Over Age 24	1,462	336	513	2,311
Persons in households with at least one adult and one child	F 595	293	108	996
Children Under Age 18	373	176	57	606
Persons Age 18 to 24	40	29	13	82
Persons Over Age 24	182	88	38	308
Persons in households with only children	38	0	47	85
Total Homeless Persons	2,309	690	778	3,777
emographic summary by ethnicity:	SI	neltered		
	Emergency Shelter	Transitional Housing*	Untheltered	Total
Hispanie / Latino	154	43	52	249
Non-Hispanic / Non- Latino	2,155	647	726	3,528
Total	2,309	690	778	3,777
emographic summary by gender:				
Female	1,004	272	259	1,535
	1 202	416	519	2,237
Male	1,302	410		2,00
Male Transgender	1,302	2	0	5



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).

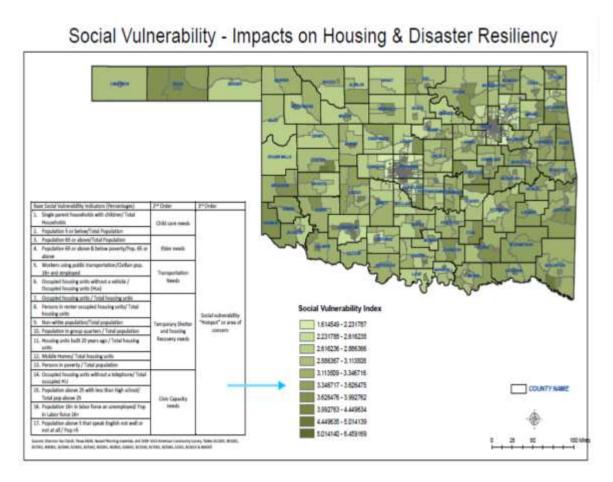
The absence of affordable housing in rural areas is a root cause of homelessness (Levinson, David, and Marcy Ross, 2007). In fact, it was noticed that many of the people were receiving monetary assistance or previously had some money saved up to spend on housing, but these measures were not enough to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





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.

			Public	
			Housing	Voucher
		Authorized	Waiting	waiting
		Vouchers	List	list
Ada	OK024	110	Unknown	Unknown
Bristow	OK033	87	Unknown	Unknown
Broken Bow	ОК006	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	ОК099	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 forprofit agencies to explore strategies for helping communities thrive economically, socially, and environmentally.

What is Fair Housing?

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

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



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

Approach

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

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

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

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



Data

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

1. Urban/Rural

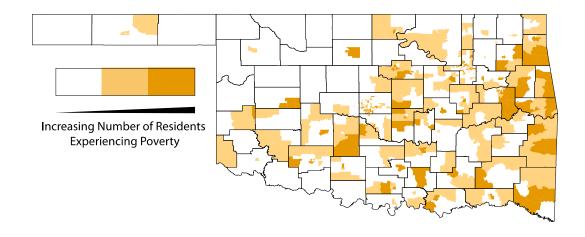
A majority of the affordable housing in Oklahoma is situated in rural communities. Urban communities including Edmond, Lawton, Norman, Oklahoma City, and Tulsa are home to just over 1/3 of the affordable housing units in the state.

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



2. Poverty

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

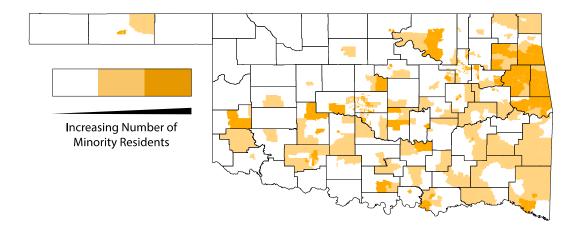


	Total Affordable Housing Units	Situated in Poverty	Situated in Extreme Poverty
OHFA	35,292	12,295 (34.8%)	12,464 (35.3%)
515	5,384	2,093 (38.9%)	1,839 (34.2%)
LIHTC	23,537	7,483 (31.8%)	8,924 (38.0%)
Total	64,213	21,796 (33.9%)	23,227 (36.2%)



3. Non-white Enclaves

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

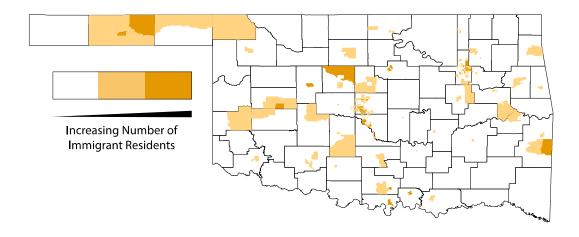


	Total Affordable Housing	Situated in Majority Non-White Community	Situated in Heavily Non-White Community
	Units		
OHFA	35,292	12,814	7,907
		(36.3%)	(22.4%)
515	5,384	2,229	1,288
		(41.4%)	(23.9%)
LIHTC	23,537	10,285	5,677
		(43.7%)	(24.1%)
Total	64,213	25,328	14,872
		(39.4%)	(23.2%)



4. Immigrant Enclaves

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

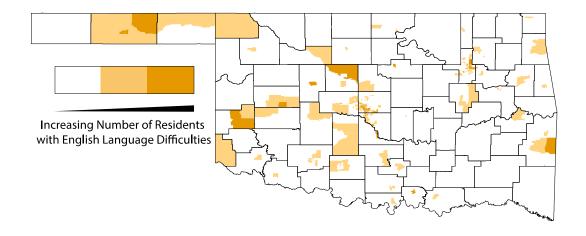


	Total Affordable Housing Units	Situated in Immigrant Enclave	Situated in Heavily Immigrant Enclave
OHFA	35,292	8,114 (23.0%)	3,358 (9.5%)
515	5,384	1,017 (18.9%)	159 (3.0%)
LIHTC	23,537	5,457 (23.2%)	3,364 (14.3%)
Total	64,213	14,588 (22.7%)	6,881 (10.7%)



5. Limited English Proficiency

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

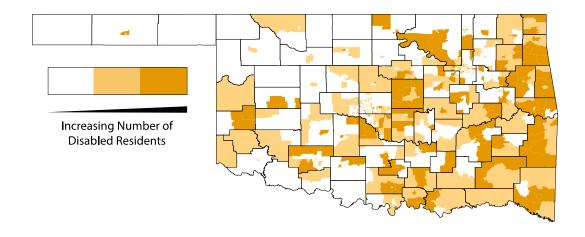


	Total	Community with more	Community dense with
	Affordable Housing	than average number	limited English
	Units	of Limited English	Speakers
		Speakers	
OHFA	35,292	6,250	3,122
		(17.7%)	(8.8%)
515	5,384	799	240
		(14.8%)	(4.5%)
LIHTC	23,537	4,034	3,475
		(17.1%)	(14.8%)
Total	64,213	11,083	6,837
		(17.3%)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



6. Disability

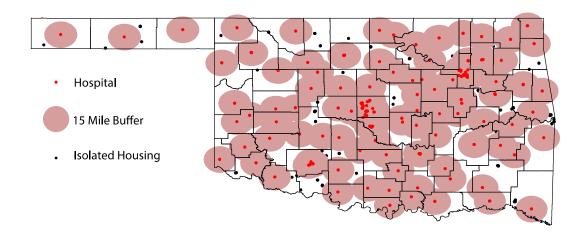
Almost 60% of existing affordable housing units in Oklahoma are located in census tracts where more residents than average have a disability. A little more than half of these units are located in areas dense with individuals with a disability, where the number of individuals who are disabled is greater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



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

7. Hospitals

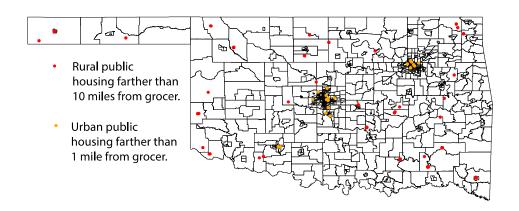
There are no affordable housing units more than 30 miles from a hospital. Approximately 2.6% of affordable housing units are farther than 15 miles from the nearest hospital. As indicated by the larger percentage of Rural Rental Housing Loan units, most of these are located in rural areas.



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

8. Grocery Stores

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

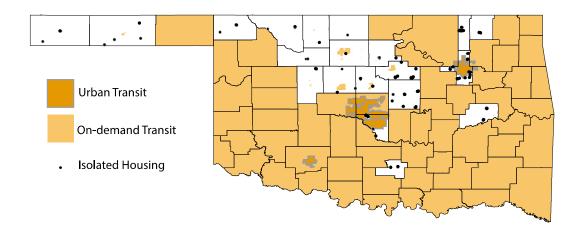


	Total	Urban	Rural
	Affordable Housing	> 1 Mile from nearest	> 10 miles to nearest
	Units	Grocer	Grocer
OHFA	35,292	1,493	1,097
		(4.2%)	(3.1%)
515	5,384	0	466
	,		(8.7%)
LIHTC	23,537	1,175	769
		(5.0%)	(3.3%)
Total	64,213	2,668	2,332
		(4.2%)	(3.6%)



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



What does this mean for Oklahoma?

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

Continued efforts to improve the quality of life for affordable housing residents and reduce discrimination associated with affordable housing will likely need to include strategies that integrate new affordable housing as well as support existing communities of affordable housing. This will likely include public policies and funding designed to integrate low-income and workforce housing into a more diverse set of communities. Additionally, those living existing affordable housing communities need increased opportunities to stay in place, become self-sufficient, and participate in determining the future of their neighborhood. OHFA may consider partnering with other state, non-profit, and forprofit 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 at	Units in mostly	Units in	Units in Limited	Units	Units farther	Units located	Units that
	Units	Risk for	Non-white	Community of	English	nearer	than 15	in a Food	lack readily
		Poverty	Enclaves	Immigrants	Neighborhood	Elevated	miles to	Desert	available
						Number of	Hospital		Transit
						Disabled			
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 at	Units in mostly	Units in	Units in Limited	Units	Units farther	Units located	Units that
	Units	Risk for	Non-white	Immigrant	English	nearer	than 15	in a Food	lack readily
		Poverty	Enclaves	Enclaves	Neighborhood	Elevated	miles to	Desert	available
						Number of	Hospital		Transit
						Disabled			
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 at	Units in mostly	Units in	Units in Limited	Units	Units farther	Units located	Units that
	Units	Risk for	Non-white	Community of	English	nearer	than 15	in a Food	lack readily
		Poverty	Enclaves	Immigrants	Neighborhood	Elevated	miles to	Desert	available
						Number of	Hospital		Transit
						Disabled			
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 at	Units in mostly	Units in	Units in Limited	Units	Units farther	Units located	Units that
	Units	Risk for	Non-white	Community of	English	nearer	than 15	in a Food	lack readily
		Poverty	Enclaves	Immigrants	Neighborhood	Elevated	miles to	Desert	available
						Number of	Hospital		Transit
						Disabled			
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.

	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%

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



Disaster Resiliency/ Economy and Society, Infrastructure and Environment

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

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

Leadership and Strategy

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

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

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

Survey of Previous Lead-based Paint Studies

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

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



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

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

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

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

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

Ottawa County Findings

The number of housing units in Ottawa 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 Ottawa County, by year of construction. The following table presents the percentage of housing units in the Census Bureau South Region based on the AHHS findings.

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

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

These percentages can then be applied to the number of housing units in Ottawa 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 Ottawa County.

Total Housing Units in Ott	awa County with	ո Lead-Based Pa	aint Hazards by	Tenure
Total Owner-Occupied	Total Housing	Percent w/LBP	Number w/LBP	
Housing Units	Units	Hazards	Hazards	
1978 or Later	3,230	3.57%	115	
1960-1977	2,475	11.18%	277	
1940-1959	2,090	38.48%	804	
1939 or Earlier	1,220	63.38%	773	
Total	9,015	21.84%	1,969	
Total Renter-Occupied	Total Housing	Percent w/LBP	Number w/LBP	
Housing Units	Units	Hazards	Hazards	
1978 or Later	958	3.57%	34	
1960-1977	968	11.18%	108	
1940-1959	740	38.48%	285	
1939 or Earlier	370	63.38%	235	
Total	3,035	21.80%	662	
	Total Housing	Percent w/LBP	Number w/LBP	
Total Housing Units	Units	Hazards	Hazards	
1978 or Later	4,188	3.57%	149	
1960-1977	3,443	11.18%	385	
1940-1959	2,830	38.48%	1,089	
1939 or Earlier	1,590	63.38%	1,008	
Total	12,050	21.83%	2,631	
Sources: American Healthy Home	s Survey Table 5-1 & C	HAS Table 12		

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



Housing Units in Ottawa County with Lead-Based Paint Hazards by Tenure,								
Occupied by Low-Income Families								
Owner-Occupied Housing	Total Housing	Percent w/LBP	Number w/LBP					
Units < 50% AMI	Units	Hazards	Hazards					
1978 or Later	519	3.57%	18					
1960-1977	392	11.18%	44					
1940-1959	490	38.48%	189					
1939 or Earlier	250	63.38%	158					
Total	1,650	24.80%	409					
Renter-Occupied Housing	Total Housing	Percent w/LBP	Number w/LBP					
Units < 50% AMI	Units	Hazards	Hazards					
1978 or Later	430	3.57%	15					
1960-1977	450	11.18%	50					
1940-1959	355	38.48%	137					
1939 or Earlier	190	63.38%	120					
Total	1,425	22.64%	323					
Total Housing Units	Total Housing	Percent w/LBP	Number w/LBP					
< 50% AMI	Units	Hazards	Hazards					
1978 or Later	949	3.57%	34					
1960-1977	842	11.18%	94					
1940-1959	845	38.48%	325					
1939 or Earlier	440	63.38%	279					
Total	3,075	23.80%	732					

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



Housing Units in Ottawa County with Lead-Based Paint Hazards by Tenure,								
Occupied by Moderate-Income Families								
Owner-Occupied Housing	Total Housing	Percent w/LBP	Number w/LBP					
Units 50%-80% AMI	Units	Hazards	Hazards					
1978 or Later	451	3.57%	16					
1960-1977	455	11.18%	51					
1940-1959	405	38.48%	156					
1939 or Earlier	255	63.38%	162					
Total	1,565	24.56%	384					
Renter-Occupied Housing	Total Housing	Percent w/LBP	Number w/LBP					
Units 50%-80% AMI	Units	Hazards	Hazards					
1978 or Later	252	3.57%	9					
1960-1977	239	11.18%	27					
1940-1959	170	38.48%	65					
1939 or Earlier	70	63.38%	44					
Total	730	19.92%	145					
Total Housing Units	Total Housing	Percent w/LBP	Number w/LBP					
50%-80% AMI	Units	Hazards	Hazards					
1978 or Later	702	3.57%	25					
1960-1977	693	11.18%	77					
1940-1959	575	38.48%	221					
1939 or Earlier	325	63.38%	206					
Total	2,295	23.08%	530					

To conclude, we estimate that there are a total of 2,631 homes in Ottawa County containing lead-based paint hazards, 1,969 owner-occupied and 662 renter-occupied. Of the 2,631 homes in the county estimated to have lead-based paint hazards, 732 are estimated to be occupied by households with low-incomes (incomes less than 50% of Area Median Income), and 530 are estimated to be occupied by households with moderate incomes (between 50% and 80% of Area Median Income), for a total of 1,262 housing units in Ottawa 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 Ottawa 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:



otal Housing Units 207 314 54	ed by Low or M Percent w/LBP Hazards 3.57% 19.98%	Number w/LBP Hazards	ne Families
Units 207 314 54	Hazards 3.57%	Hazards	
207 314 54	3.57%		
314 54		7	
54	19.98%		
_		63	
	63.38%	34	
574	18.16%	104	
otal Housing	Percent w/LBP	Number w/LBP	
Units	Hazards	Hazards	
169	3.57%	6	
261	19.98%	52	
74	63.38%	47	
504	20.85%	105	
otal Housing	Percent w/LBP	Number w/LBP	
Units	Hazards	Hazards	
375	3.57%	13	
575	19.98%	115	
128	63.38%	81	
1,078	19.42%	209	
otal Housing	Percent w/LBP	Number w/LBP	
Units	Hazards	Hazards	
680	3.57%	24	
1,050	19.98%	210	
238	63.38%	151	
1,968	19.55%	385	
	Units 169 261 74 504 otal Housing Units 375 575 128 1,078 otal Housing Units 680 1,050 238	Units Hazards 169 3.57% 261 19.98% 74 63.38% 504 20.85% otal Housing Units Hazards 375 3.57% 575 19.98% 128 63.38% 1,078 19.42% otal Housing Units Hazards 680 3.57% 1,050 19.98% 238 63.38%	Units Hazards Hazards 169 3.57% 6 261 19.98% 52 74 63.38% 47 504 20.85% 105 otal Housing Units Percent w/LBP Number w/LBP Units Hazards Hazards 375 3.57% 13 575 19.98% 115 128 63.38% 81 1,078 19.42% 209 otal Housing Units Percent w/LBP Number w/LBP Units Hazards Hazards 680 3.57% 24 1,050 19.98% 210 238 63.38% 151

As shown, we estimate there are 385 housing units in Ottawa County with lead-based paint hazards and children under the age of six present, and that 209 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"

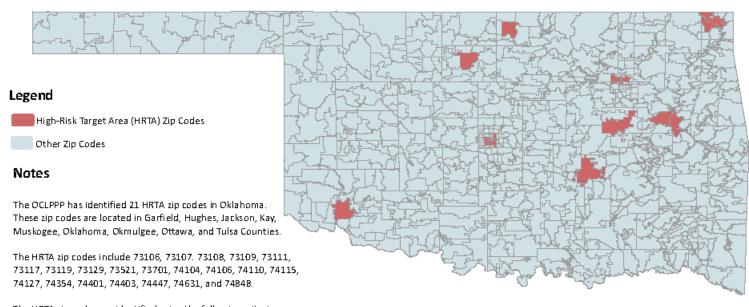


 $\hbox{U.S. Department of Housing and Urban Development, Comprehensive Housing Affordability Strategy (CHAS), 2007-2011}$



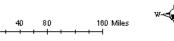
Exhibit #1

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



The HRTA zip codes are identified using the following criteria:

- 1- Zip codes having the highest proportion of pre-1950
- 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) prevelence 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



Exhibit #2

Percentage of Housing Units Containing Lead-Based Paint Hazards

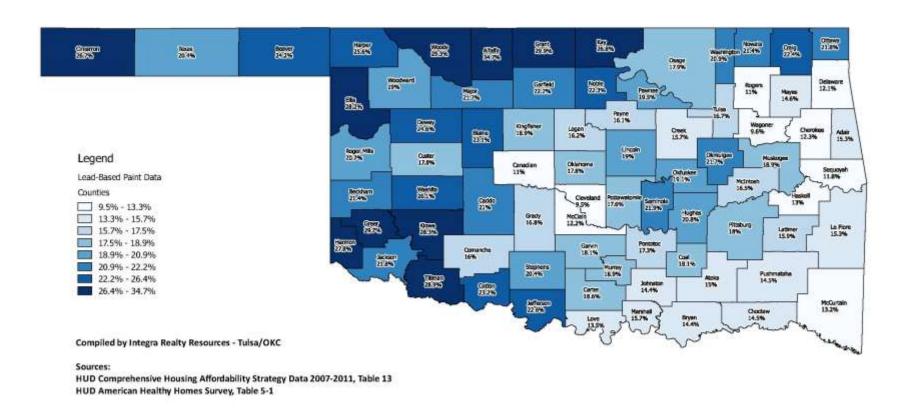




Exhibit #3

Percentage of Housing Units Containing Lead-Based Paint Hazards Occupied by Low to Moderate Income Households

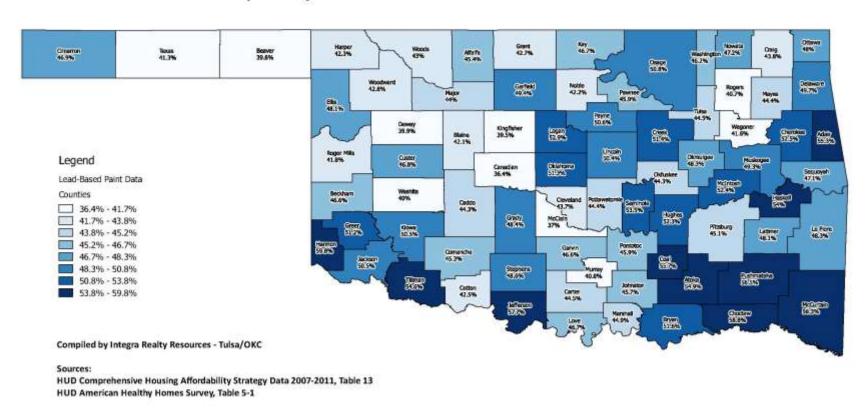




Exhibit #4

Percentage of Housing Units Containing Lead-Based Paint Hazards with Children Age 6 or Younger Present

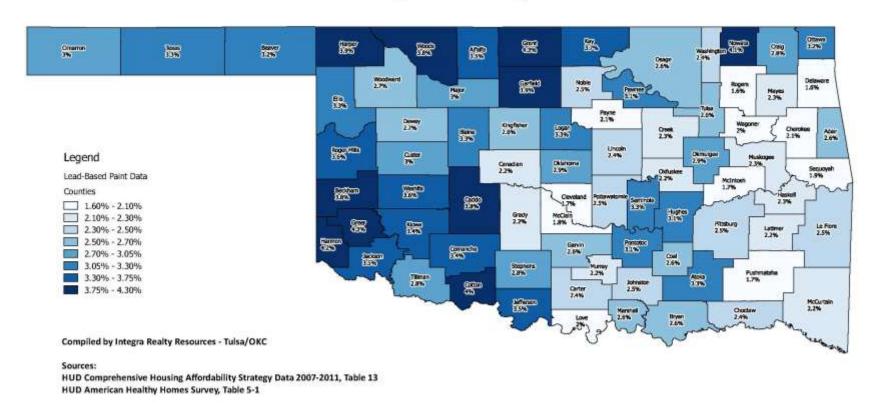




Exhibit #5

Percentage of Housing Units Occupied by Low to Moderate Income Households Containing Lead-Based Paint Hazards with Children Age 6 or Younger Present

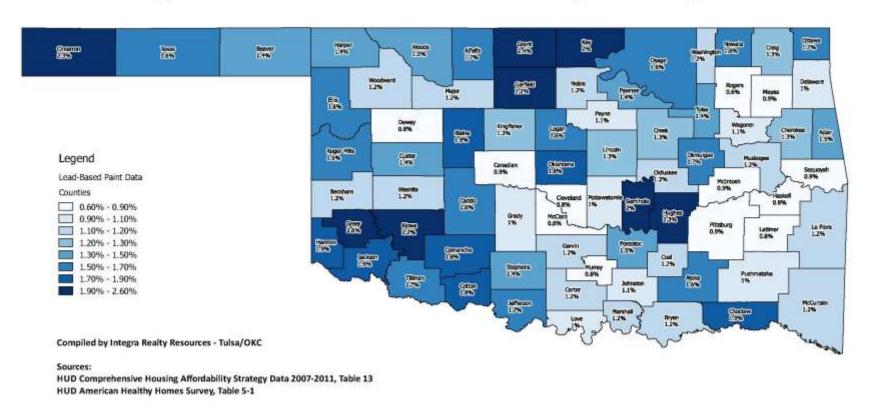
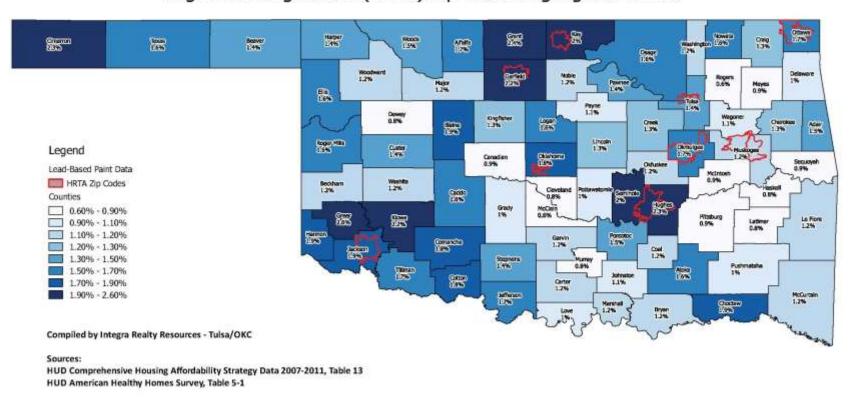




Exhibit #6

Percentage of Housing Units Occupied by Low to Moderate Income Households Containing Lead-Based Paint Hazards with Children Age 6 or Younger Present High-Risk Target Area (HRTA) Zip Codes Highlighted in Red





Conclusions

The previous analysis has attempted to describe the state of the residential housing market in Ottawa 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.

Ottawa County has been relatively stable in terms of population and households over the last fifteen years. It should be noted that several events occurred between 2000 and 2010 that would have an impact on population and household levels in Ottawa County: major flooding of the Neosho River in 2007 (resulting in the demolition of over 100 homes), and the disincorporation of the town of Picher and relocation of its residents due to the Tar Creek Superfund site. Since 2010, growth has resumed in Ottawa County based on estimates from both the U.S. Census Bureau and Nielsen SiteReports, and continued population and household growth is forecasted through the year 2020. New housing development will be needed to meet this demand.

Ottawa County has a relatively high rate of renters with high rent costs (38.47%) as well as homeowners with high ownership costs (18.12%). The county's poverty rate is also above the state, at 21.97% compared with 16.85% statewide. Although the Census Bureau reports a relatively low vacancy rate among rental units in Ottawa County (5.98%) our own survey of many of the larger multifamily developments in Miami shows higher vacancy, and data from HUD shows overall occupancy of 79% among all HUD-assisted units in Ottawa County. Any new rental development should likely target specific, underserved populations, or rehabilitate existing properties.

In terms of disaster resiliency we note that 33 tornadoes have impacted the county between 1959 and 2014, with 473 injuries and 22 fatalities combined. Flooding is a notable issue in Ottawa County (particularly along the Neosho River).

Ottawa County is located within the Northeast Oklahoma Continuum of Care (CoC), which provides services to the area's homeless populations among other functions. Throughout the entire Northeast Oklahoma CoC, there are an estimated 383 homeless persons, 300 of which are estimated to be sheltered. This Continuum of Care has a disproportionately high number of homeless households entirely comprised of children under the age of 18, and a high incidence of homeless victims of domestic violence. We also note that the majority of homeless veterans in this region are unsheltered.

In terms of fair housing issues, 96 affordable housing units are located near elevated numbers of persons with disabilities, and 84 units are located in a food desert.



Due to the age of the county's housing stock, lead-based paint hazards are an issue, with an estimated 2,631 occupied housing units with such hazards, and 385 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 Ottawa 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, though there has been notable development of affordable housing for ownership as well as for rent. As the population continues to grow in Ottawa County as a whole, this demand will continue to increase. We estimate the county will need 216 housing units for ownership and 81 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:

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US Federal Emergency Management Agency, Harold Latham

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

Oklahoma State Agencies

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Department of Human Services, Connie Schlittler

Department of Emergency Management Dara Hayes

Department of Commerce, Rebekah Zahn-Pittser

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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



Pathways, Patrice Pratt

Women's Resource Center, Vanessa Morrison

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Addendum B

Qualifications

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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
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Tulsa Preservation Commission
Tulsa Local Development Act Review Committee
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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

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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.

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- 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:

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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 Blounstein 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)



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AWARDS:

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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.

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

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

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

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

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

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

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



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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.

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Land Development Law (graduate level, at Texas A&M University)

Historic Preservation Law (graduate level, at Texas A&M University)

Introduction to Urban Planning (undergraduate level, at Texas A&M University and Florida State University)

Attorney-Client Communications (undergraduate level, at Florida State University)

Legal Communications (undergraduate level, at Florida State University)

Environmental Law (continuing education, at Rutgers University)

Historic Preservation Law (continuing education, at Rutgers University)

Ordinance Drafting (continuing education, at Rutgers University)

PUBLICATIONS:

Refereed Journal Articles

- K. Frank, J. Macedo, and D. Jourdan, Fostering Rural Adaptive Capacity for Sea Level Rise Planning Using Methods of Community Engagement (pending review- special edition of the Journal of the Community Development Society).
- D. Jourdan and S. Pilat, Preserving Public Housing: Federal, State and Local Efforts to Preserve the Social and Architectural Forms Associated with Housing for the Poor in the Journal of Preservation Education and Research (forthcoming).
- Ozor, B., K. Frank, and **D. Jourdan**, Confronting Wicked Problems with Games: How Role-Play Informs Planning for Sea Level Rise in Northeast Florida (pending review).
- Jourdan, D., A. Ray, and L. Thompson, Relocating from Subsidized Housing in Florida: Are Residents Moving to Opportunity in Journal of Housing and Community Development Law (forthcoming).
- **Jourdan, D.,** K. Hurd, W. Gene Hawkins, and K. Winson Geideman, Evidence Based Sign Regulation: Regulating Signage on the Basis of Empirical Wisdom in *The Urban Lawyer*, 45:2, Spring 2014, 327-348.
- Jourdan, D. S. Van Zandt, and E. Tarleton, Coming home: Resident satisfaction regarding return to a revitalized HOPE VI community in Cities available at: http://www.sciencedirect.com/science/article/pii/S0264275113000322, 2013.
- Jourdan, D., A Response to Mandelker's Free Speech Law for On Premise Signs in Planning and Environmental Law, 65:4, 2013, 4-10.

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

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

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

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

Books

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

Book Chapters and Entries

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

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

Non-Refereed Publications

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

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

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

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



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

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

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

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

Books

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

Book Chapters and Entries

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

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

Non-Refereed Publications

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 Shmaltsuyev, 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.

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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



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

EDUCATION

Texas A&M University

Ph.D in Urban Regional Science

2003 - August 2009

Dissertation: "Integrating Walking for Transportation and Physical Activity for Sedentary Office Workers in Texas"

University of Texas at Austin

Masters of Science in Community & Regional Planning

1993-1995

Thesis: "Building a Community: Transit Options in the Land Development Code and Land Development Process"

Trinity University

Bachelors of Arts

1989-1993

Majors: Philosophy, International Studies (concentration on Latin America), Minor: Spanish

TEACHING

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

PREVIOUS RESEARCH POSITIONS & PRACTICE

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

PUBLICATIONS & REPORTS

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

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

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

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



PAGE 2

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

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

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

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

CONFERENCE & INVITED PRESENTATIONS

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

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

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

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

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

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

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

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

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

Wieters KM, Kim J-H, Lee C. A walk to grab a cup of coffee: Assessment of available research instruments for measuring physical activity. Presented paper at the Association of Collegiate Schools of Planning Conference Chicago, II; 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, WS; 2006.

PAGE 3

INVITED LECTURES

University of Oklahoma

Department of Geography & Sustainability, Spring Colloquium

"Walking & Biking: Active Transportation and the Built Environment" January 2014

Kansas State University - Big 12 Fellowship

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

Department of Biostatistics and Epidemiology College of Public Health,

University of Oklahoma Health Sciences Center

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

GRANT FUNDING

Received Ed Cline Faculty Development Award (\$1450), Spring 2014

Received Big 12 Faculty Fellowship Program Award (\$2500) June 2013

Received College of Architecture IT recipient (\$3450) July 2013

Sooner Parents Mini-Grant Funding (\$500) for student mentoring—prepared and submitted to assist RCPL Student Planning Association July 2013

Received Junior Faculty Research (\$7,000) for summer research on rural planning and physical activity opportunities. University of Oklahoma, Summer 2012

Robert Wood Johnson Active Living Research Dissertation Grant (\$25,000), Texas A&M University, 2007

SERVICE

University-Level Service

Advisory Committee Course Management Systems (ACCMS) Spring 2013

College-Level Service

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



PAGE 4

SERVICE

State-level / City-Level Service

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

National-Level Service

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



Bryce C. Lowery, PhD

Contect

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

Academic Experience

Assistant Professor

College of Architecture - Division of Regional and City Planning
University of Oklahoma - Norman, OK

Education

Doctor of Philosophy - Policy, Planning, and Development 2014

Sol Price School of Public Policy University of Southern California - Los Angeles, CA

Dissertation: Social Construction of the Experience Economy:

The spatial ecology of outdoor advertising in Los Angeles

Jack Dyckman Award - Best Dissertation in Planning & Development

Committee: David Sloane, PhD Tridib Banerjee, PhD

Pierrette Hondagneu-Sotelo, PhD (Sociology)

Master of Landscape Architecture 2008
College of Environmental Design

California State Polytechnic University - Pomona, CA

Master of Science - Environmental Policy and Behavior 2000

School of Natural Resources and Environment University of Michigan - Ann Arbor, MI

Bachelor of Arts - Economics and Environmental Studies 1996

Dornsife College of Letters, Arts, and Sciences University of Southern California - Los Angeles, CA

Publications

The Prospects and Problems of Integrating Sketch Maps with Geographic 2014
Information Systems (GIS) to Understand Environmental Perception:

A case study of mapping youth fear in Los Angeles gang neighborhoods

Environment and Planning B: Planning and Design 41(2): 251-271.

Curtis, J.W., E. Shiau, B. Lowery, D. Sloane, K. Hennigan and A. Curtis

The Prevalence of Harmful Content on Outdoor Advertising in Los Angeles: 2014

Land use, community characteristics, and the spatial inequality of a public health nuisance American Journal of Public Health 104(4): 658–664.

Lowery, B.C. and D.C. Sloane

Presentations

From Regional Center to Sign District: Regulating outdoor advertising in Los Angeles, 1881-2012

Association of Collegiate Schools of Planning – Philadelphia, PA – November 1, 2014 with David Sloane



Do Farmers' Markets Improve the Availability of Healthy Foods for All Communities? A case study of 19 markets in Los Angeles.

Association of Collegiate Schools of Planning - Philadelphia, PA - October 30, 2014 with Denise Payan, LaVonna Blair Lewis and David Sloane

If You See Something, Say Something: Community response [and non-response] to outdoor advertising regulation in Los Angeles Council of Educators in Landscape Architecture - Austin, TX - March 29, 2013

The Spatial Ecology of Outdoor Advertising in Los Angeles:

The unjust impact of the commercial landscape

Association of Collegiate Schools of Planning - Cincinnati, OH - November 3, 2012 with David Sloane

Employing Social Network Analysis to Understand the Formation of Sustainable Social Capital

Council of Educators in Landscape Architecture - Tucson, AZ - January 15, 2009

Teaching Experience	
Assistant Professor University of Oklahoma – College of Architecture Subdivision and Site Planning (graduate) Computer Mapping and GIS in Planning (graduate) Comprehensive Planning Studio (graduate)	2014-present
Lecturer University of California, Irvine – School of Social Ecology Design and Planning Graphics [graduate]	2014
Teaching Assistant University of Southern California - Sol Price School of Public Policy 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)	2008-2013
Graduate Student Instructor University of Michigan - School of Natural Resources and Environment Introduction to Environmental Policy (undergraduate) Introduction to Natural Resource Management (undergraduate)	1999-2000
Other Experience Research Assistant	2009 - 2014
Sol Price School of Public Policy - University of Southern California	2005-2014
Editorial Assistant - Terry L. Cooper The Responsible Administrator: An Approach to Ethics for the Administrative Role, 6th Edition. 2012.	2011-2012
Research Associate Lodestar Management/Research Inc. (now Harder+Company)	2005 - 2006
Project Coordinator Perinatal Advisory Council of Los Angeles County	2004 - 2005
Community Researcher Children's Planning Council - Los Angeles County Board of Supervisors	2002 - 2004
Assistant Director Health DATA Program - UCLA Center for Health Policy Research	5000 - 5005

Bryce C. Lowery - 2



Curriculum Coordinator UCLA Labor, Occupational, Safety and Health Program	5000
Research Coordinator The Wild Thornberry's Television Series Klasky-Csupo Incorporated/Nickelodeon Studios	1996 - 1998
Activities and Service	
Committee Member University of Oklahoma Anna Siprikova – Master of City and Regional Planning Thesis	2014 - present
Reviewer American Journal of Public Health Council of Educators in Landscape Architecture	
Member American Planning Association American Public Health Association American Society of Landscape Architects Association of American Geographers Environmental Design Research Association	
Member Creating/Making Facilities Coordination Team University of Oklahoma – College of Architecture	2014 - present
Member Billboard and Visual Landscape Visioning Group City of Los Angeles	2013
Area Chairperson Hollywood Hills West Neighborhood Council – Area 2: Cahuenga Pass City of Los Angeles	2010 - 2012
Vice-Chairperson Appointee Cahuenga/Ventura Corridor Specific Plan Review Board City of Los Angeles - Council District 4	2010 - 2012 2008 - 2012
President Member Cahuenga Pass Property Owners' Association	2011 - 2012 2000 - 2012

Bryce C. Lovery - 3



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

<u>Executive Manager</u> 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

<u>Team Leader, Housing Development Team,</u> 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 einformation network.
- ✓ Facilitated the development of working partnerships between the state's nonprofit and forprofit 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

<u>Division Head,</u> Code Inspections Division/Department of Environmental Services <u>Assistant Superintendent,</u> Utility Services Division/Water Department <u>Administrative Assistant,</u> Street Maintenance Division, Public Works Department <u>Management Intern,</u> Personnel Department

EDUCATION

Masters of Public Administration, University of Oklahoma 1983 Bachelor of Arts Political Science, University of Oklahoma, 1979

