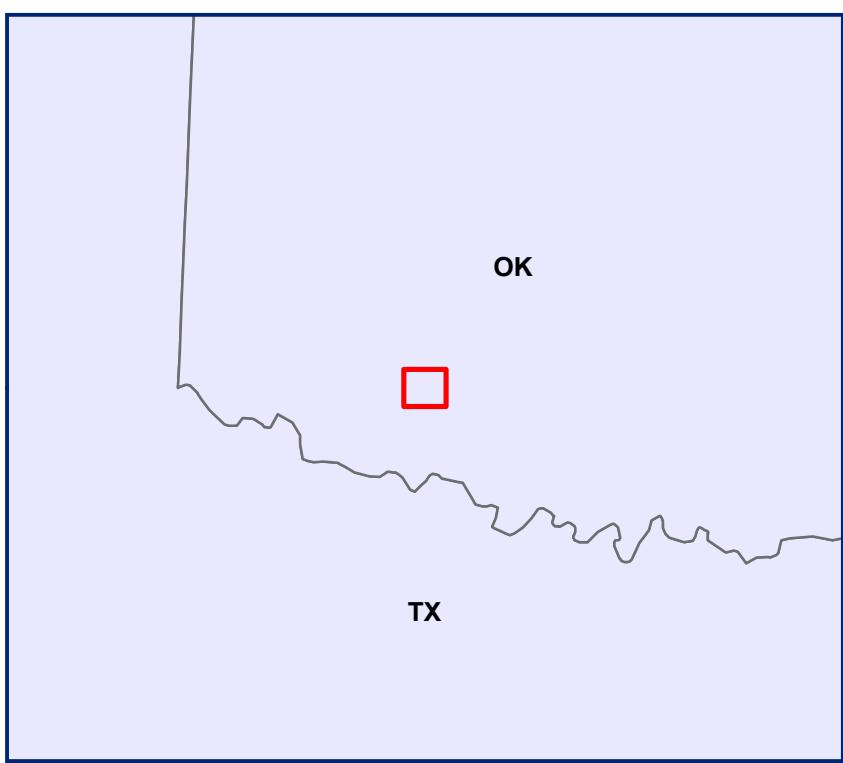


Author: CDC/NCCDPHP/DPH/ESB-GIS

Date: 7/13/2016



Introduction

The 500 Cities Project—Local Data for Better Health—is a collaboration among the Robert Wood Johnson Foundation, the CDC Foundation, and the Centers for Disease Control and Prevention (CDC), whose purpose is to provide high quality small area estimates for behavioral risk factors that influence health status, for health outcomes, and the use of clinical preventive services. These estimates can be used to identify emerging health problems and to develop and implement of effective, targeted public health prevention activities.

Data Sources

Data was obtained from the CDC Behavioral Risk Factor Surveillance System (BRFSS) 2013, 2014, the Census Bureau 2010 census population data, American Community Survey 2009-2013 and 2010-2014 estimates, and Esri ArcGIS Online basemaps.

Methodology

CDC used small area estimation (SAE) methodology called multilevel regression and poststratification (MRP) that links geocoded health surveys and high spatial resolution population demographic and socioeconomic data to produce local level health related estimates. This approach also accounts for the associations between individual health outcomes, individual characteristics, and spatial contexts and factors at multiple levels (e.g., state, county), the approach also predicts individual disease risk and health behaviors in a multilevel modeling framework and estimates the geographic distributions of population disease burden and health behaviors at city and census tract level.

Further information on the small area estimation methodology can be obtained from

- [Multilevel Regression and Poststratification for Small-Area Estimation of Population Health Outcomes: A Case Study of Chronic Obstructive Pulmonary Disease Prevalence Using the Behavioral Risk Factor Surveillance System \[PDF-5.53MB\]](#)
- [Validation of Multilevel Regression and Poststratification Methodology for Small Area Estimation of Health Indicators from the Behavioral Risk Factor Surveillance System](#)

Limitations

All data presented in this map book are model-based estimates that reflect the statistically expected prevalence of each measure. These small area estimates tend to have narrow confidence ranges and may underestimate some areas with high prevalence or overestimate some areas with low prevalence. Because the small area model cannot detect effects because of local interventions, users are cautioned against using these estimates for program or policy evaluations.

Project Website

For more information please refer to <http://www.cdc.gov/500cities/>.

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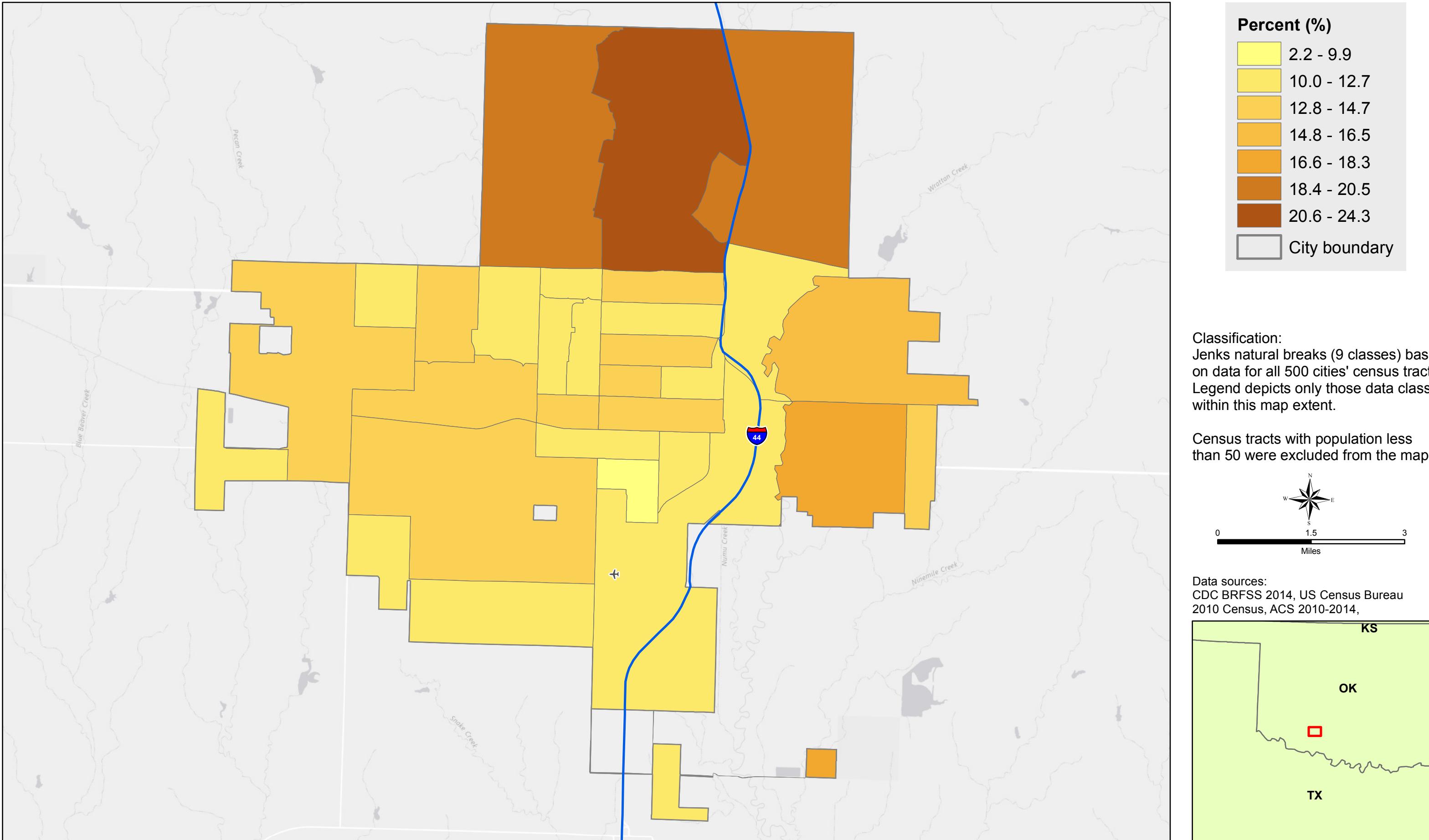
Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health, Epidemiology and Surveillance Branch (CDC/NCCDPHP/DPH/ESB).

October 12, 2016

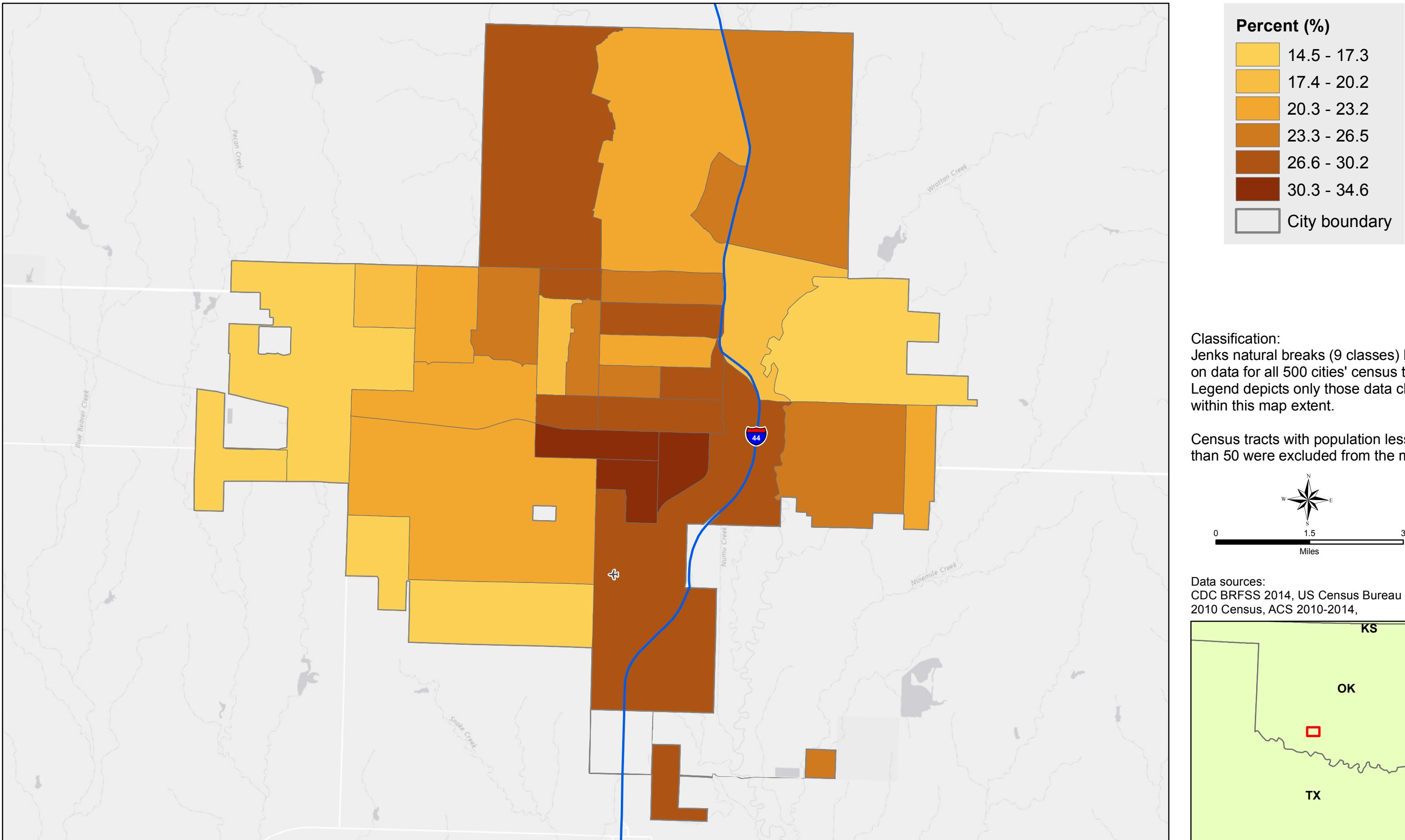
Measure	OK	Crude			Age-Adjusted			State Prevalence	US Age-Adjusted Prevalence
		Prevalence	Low 95% CI	High 95% CI	Prevalence	Low 95% CI	High 95% CI		
Lawton									
Binge drinking prevalence among adults aged >=18 years		14.2	14.1	14.4	12.7	12.5	12.8	13.5	16.8
Current smoking among adults aged >=18 years		23.9	23.3	24.5	23.3	22.7	23.9	21.4	17.7
No leisure-time physical activity among adults aged >=18 years		29.7	29.2	30.3	31.3	30.7	31.8	27.7	23.3
Obesity among adults aged >=18 years		33.9	33.6	34.2	35.4	35.2	35.7	33.1	28.7
Sleeping less than 7 hours among adults aged >=18 years		39.3	38.9	39.6	39.3	39.0	39.6	35.7	35.1
Arthritis among adults aged >=18 years		23.6	23.4	23.7	27.5	27.3	27.7	26.0	23.5
Current asthma prevalence among adults aged >=18 years		10.4	10.3	10.5	10.3	10.2	10.5	9.8	8.8
High blood pressure among adults aged >=18 years		33.2	33.0	33.4	37.6	37.4	37.9	36.0	30.2
High cholesterol among adults aged >=18 years who have been screened in the past 5 years		35.3	35.0	35.6	34.0	33.8	34.2	35.8	33.2
Cancer among adults aged >=18 years		4.8	4.7	4.8	5.8	5.7	5.8	5.8	5.9
Diagnosed diabetes among adults aged >=18 years		10.2	10.1	10.3	12.0	11.9	12.1	11.0	9.4
Chronic kidney disease among adults aged >=18 years		2.3	2.3	2.4	2.7	2.6	2.7	2.5	2.6
Chronic obstructive pulmonary disease among adults aged >=18 years		7.1	6.9	7.3	8.0	7.8	8.2	7.5	6.1
Coronary heart disease among adults aged >=18 years		5.9	5.8	6.0	7.2	7.1	7.3	7.3	6.0
Stroke among adults aged >=18 years		2.9	2.8	2.9	3.4	3.4	3.5	3.2	2.8
Mental health not good for >=14 days among adults aged >=18 years		14.6	14.3	14.8	14.3	14.1	14.6	13.2	11.5
Physical health not good for >=14 days among adults aged >=18 years		13.8	13.6	14.0	15.1	14.8	15.4	13.8	11.6
All teeth lost among adults aged >=65 years		23.3	22.0	24.7	23.1	21.7	24.5	22.9	15.4
Current lack of health insurance among adults aged 18-64 years		20.3	19.7	20.8	18.1	17.6	18.6	17.4	14.9
Visits to doctor for routine checkup within the past year among adults aged >=18 years		63.3	63.0	63.5	65.5	65.3	65.7	62.6	68.7
Visits to dentist or dental clinic among adults aged >=18 years		49.7	48.9	50.5	50.2	49.4	50.9	56.9	64.1
Taking medicine for high blood pressure control among adults aged >=18 years with high blood pressure		72.9	72.6	73.1	63.6	63.4	63.8	65.1	58.2
Cholesterol screening among adults aged >=18 years		66.3	65.7	66.8	71.6	71.1	72.0	72.4	74.8
Mammography use among women aged 50-74 years		67.4	66.6	68.1	67.6	66.8	68.3	69.7	75.5
Papanicolaou smear use among adult women aged 21-65 years		72.7	72.1	73.2	73.5	73.0	74.1	77.4	81.1
Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years		51.3	50.7	52.0	53.2	52.4	53.8	55.9	64.0
Up to date on a core set of clinical preventive services (flu shot past year, pneumococcal shot ever, colorectal cancer screening) among men aged >=65 years		39.9	38.6	41.1	37.5	36.2	38.7	38.8	32.9
Up to date on a core set of clinical preventive services (same as men plus mammogram past 2 years) among women aged >=65 years		42.4	41.3	43.5	35.4	34.3	36.4	34.4	30.7

Unhealthy Behaviors

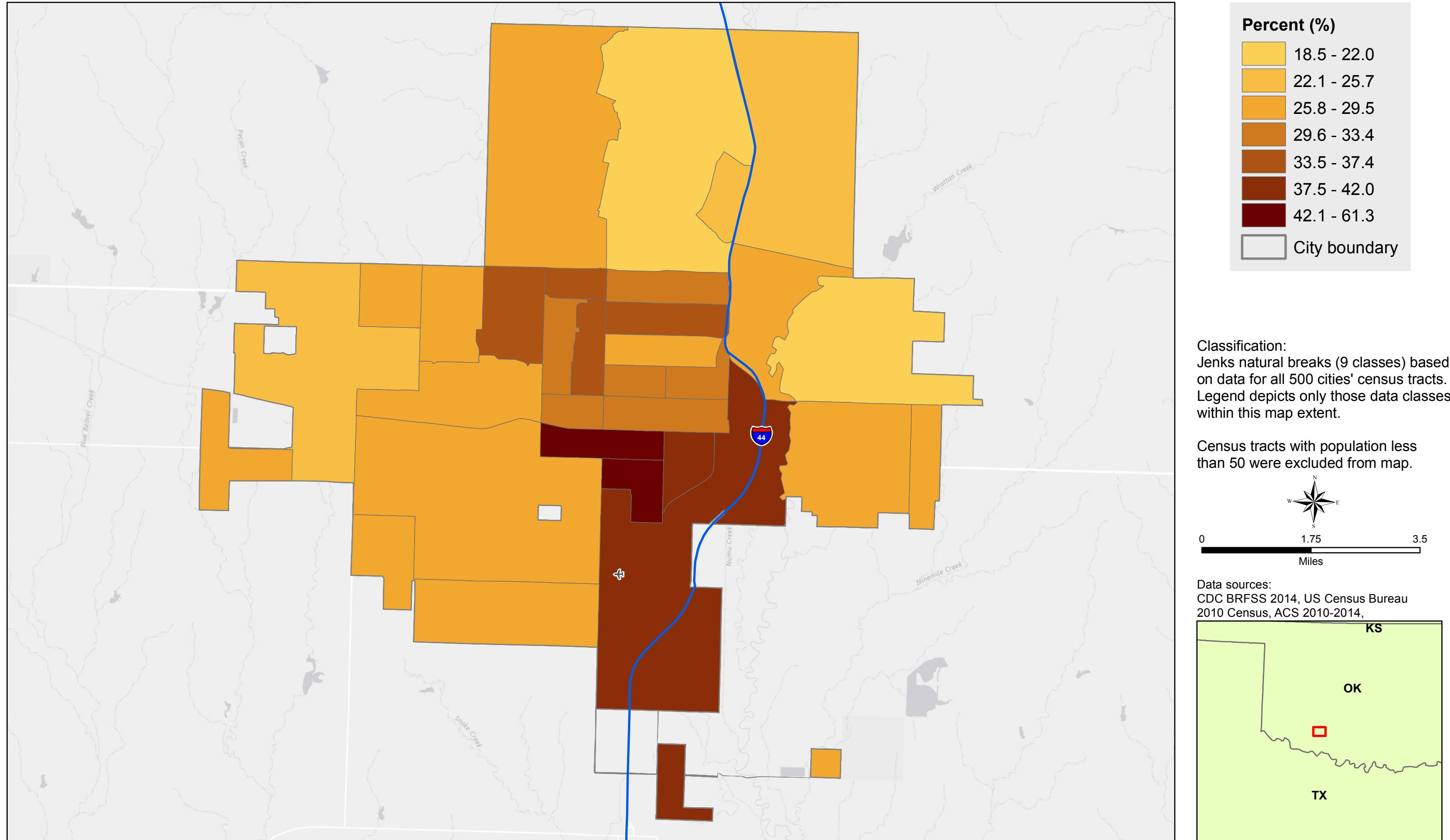
Binge drinking prevalence among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



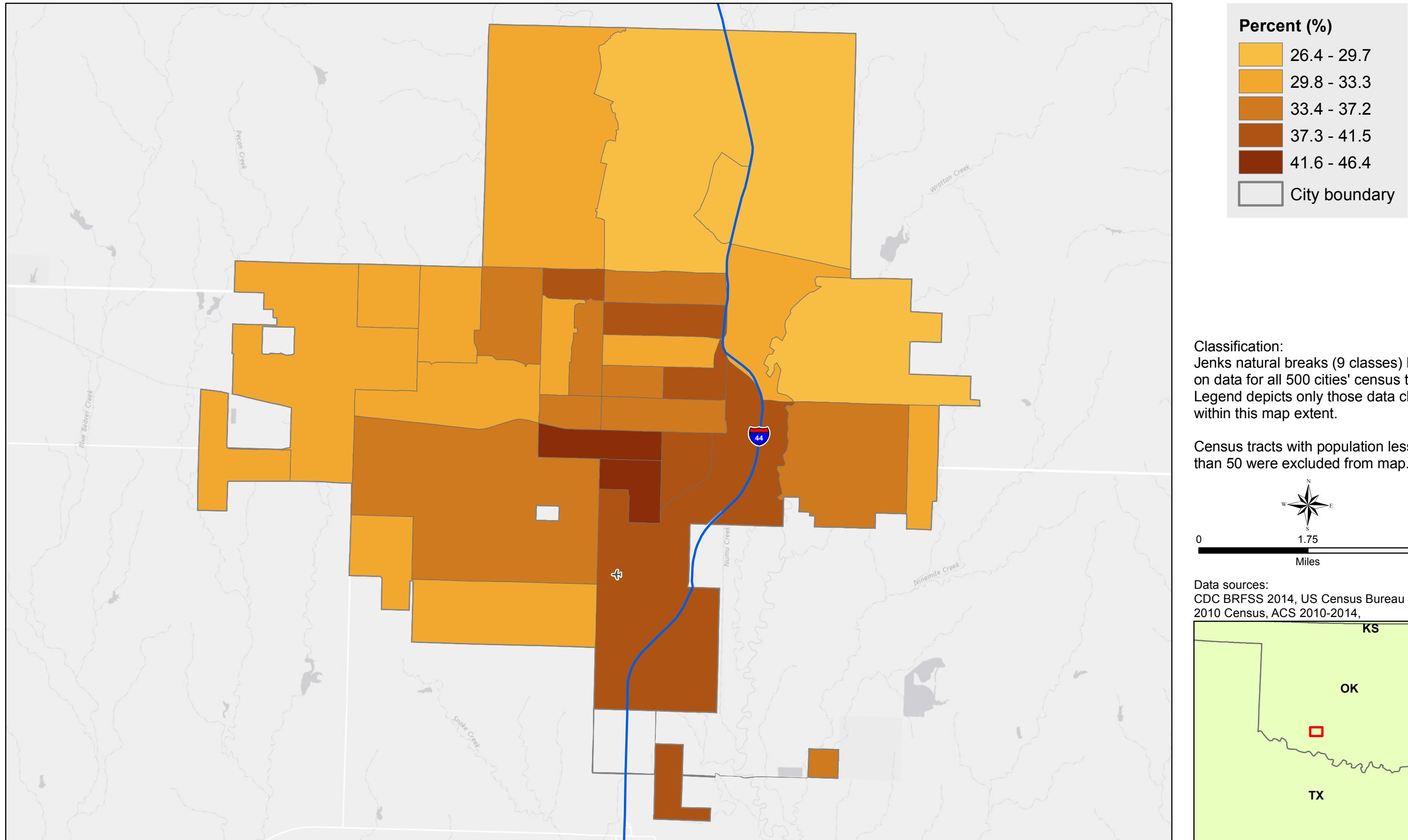
Current smoking among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



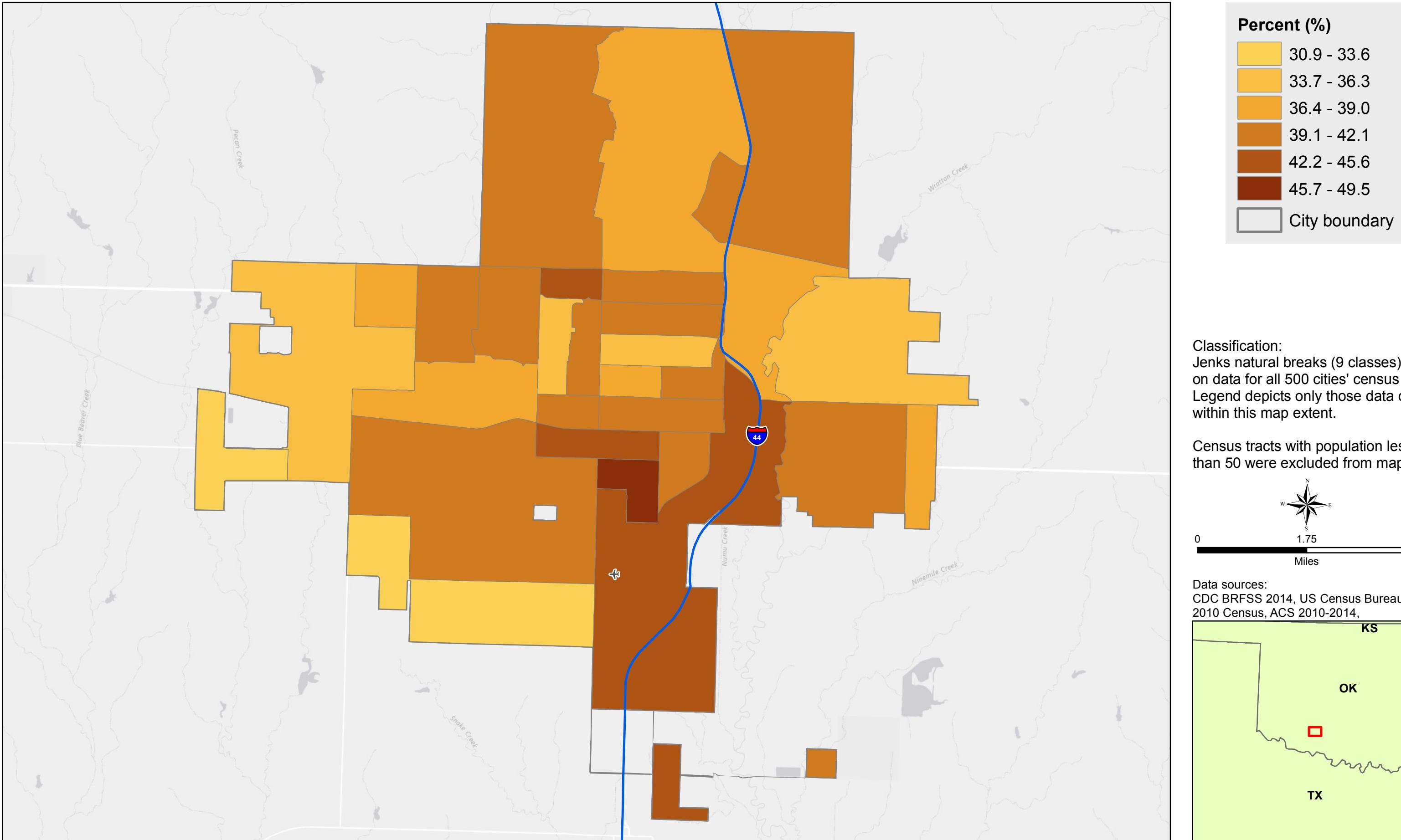
No leisure-time physical activity among adults aged >18 years by census tract, Lawton, OK, 2014



Obesity among adults aged ≥ 18 years by census tract, Lawton, OK, 2014

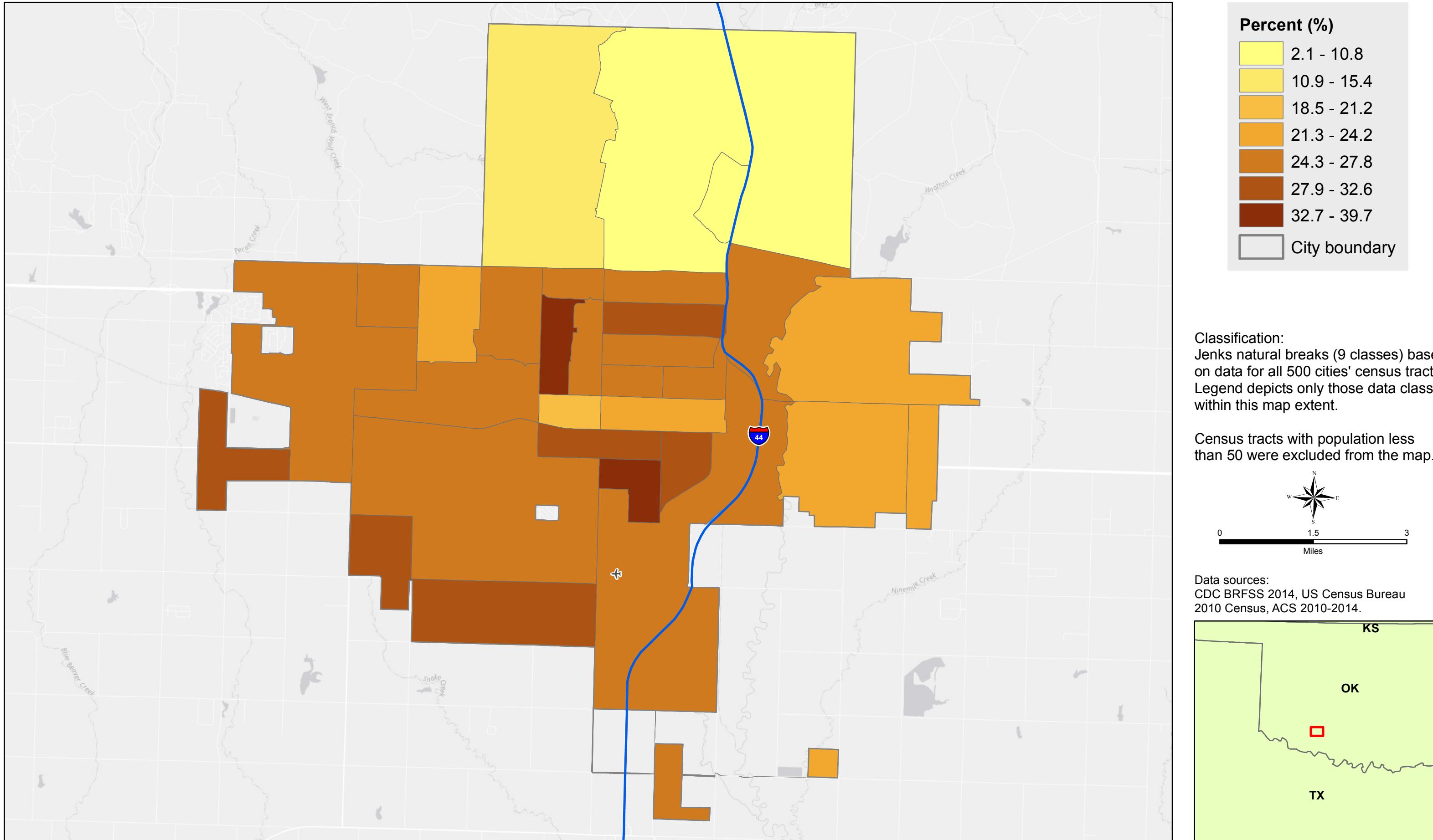


Sleeping less than 7 hours among adults aged ≥ 18 years by census tract, Lawton, OK, 2014

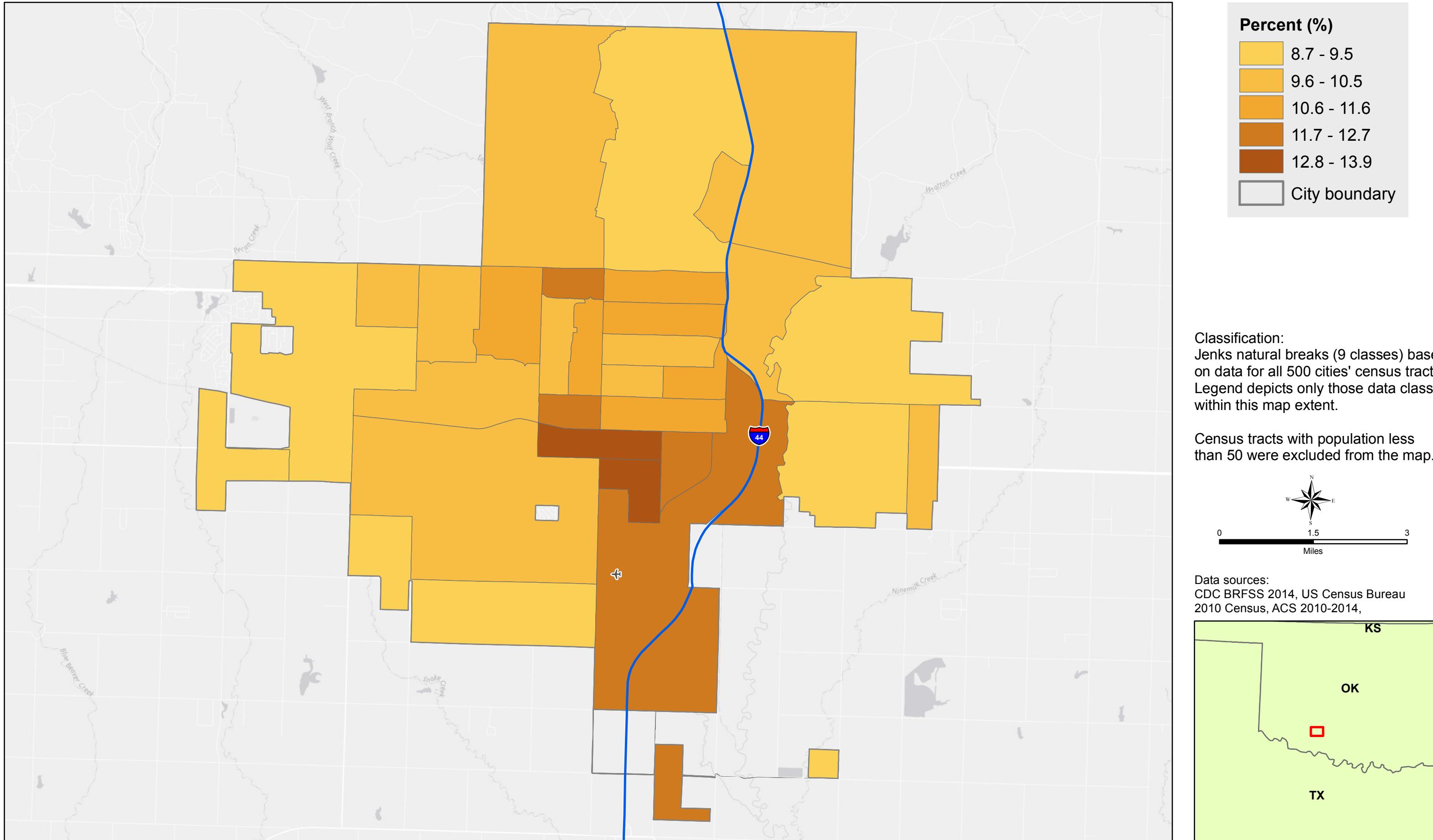


Health Outcomes

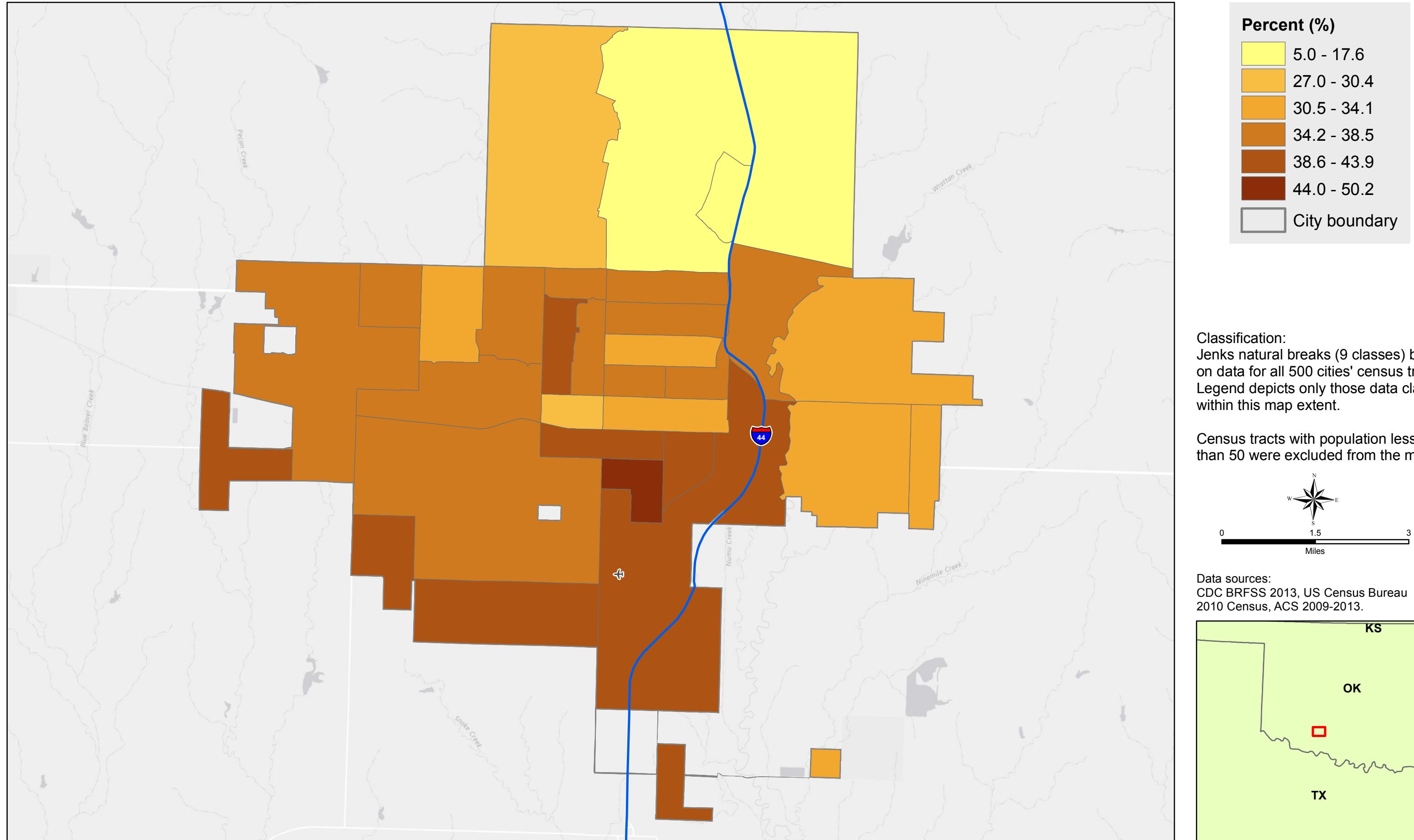
Arthritis among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



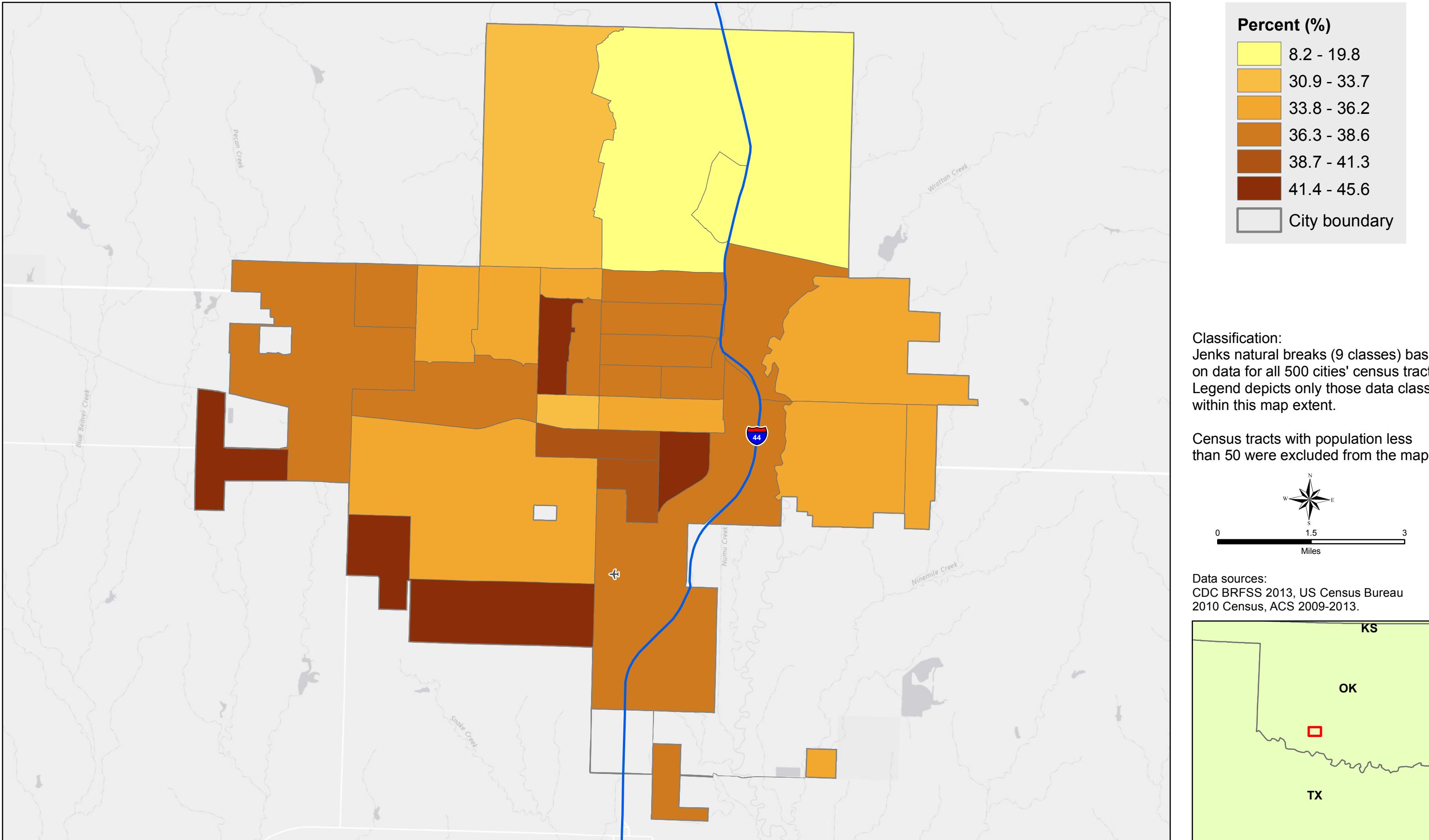
Current asthma prevalence among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



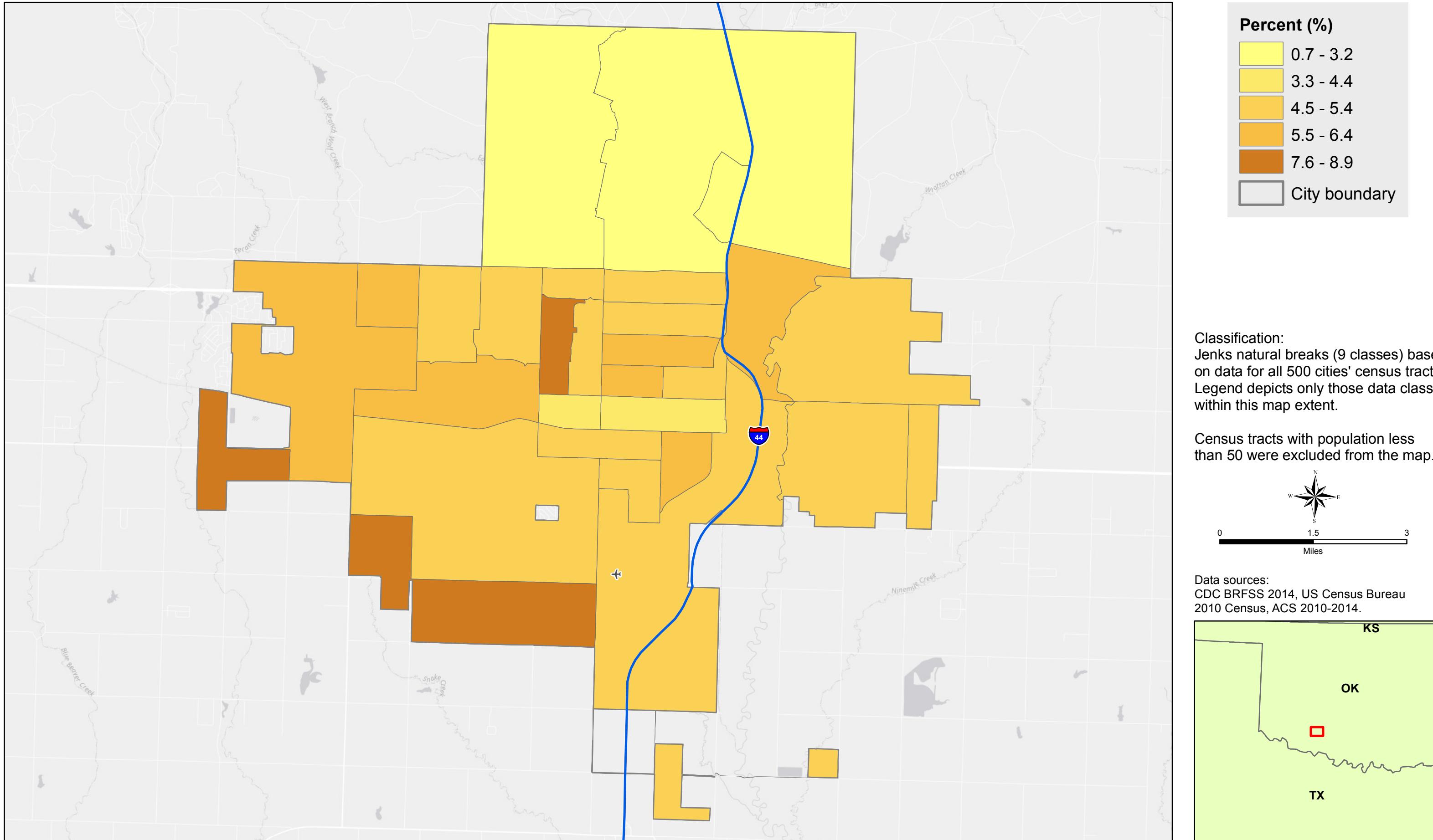
High blood pressure among adults aged ≥ 18 years by census tract, Lawton, OK, 2013



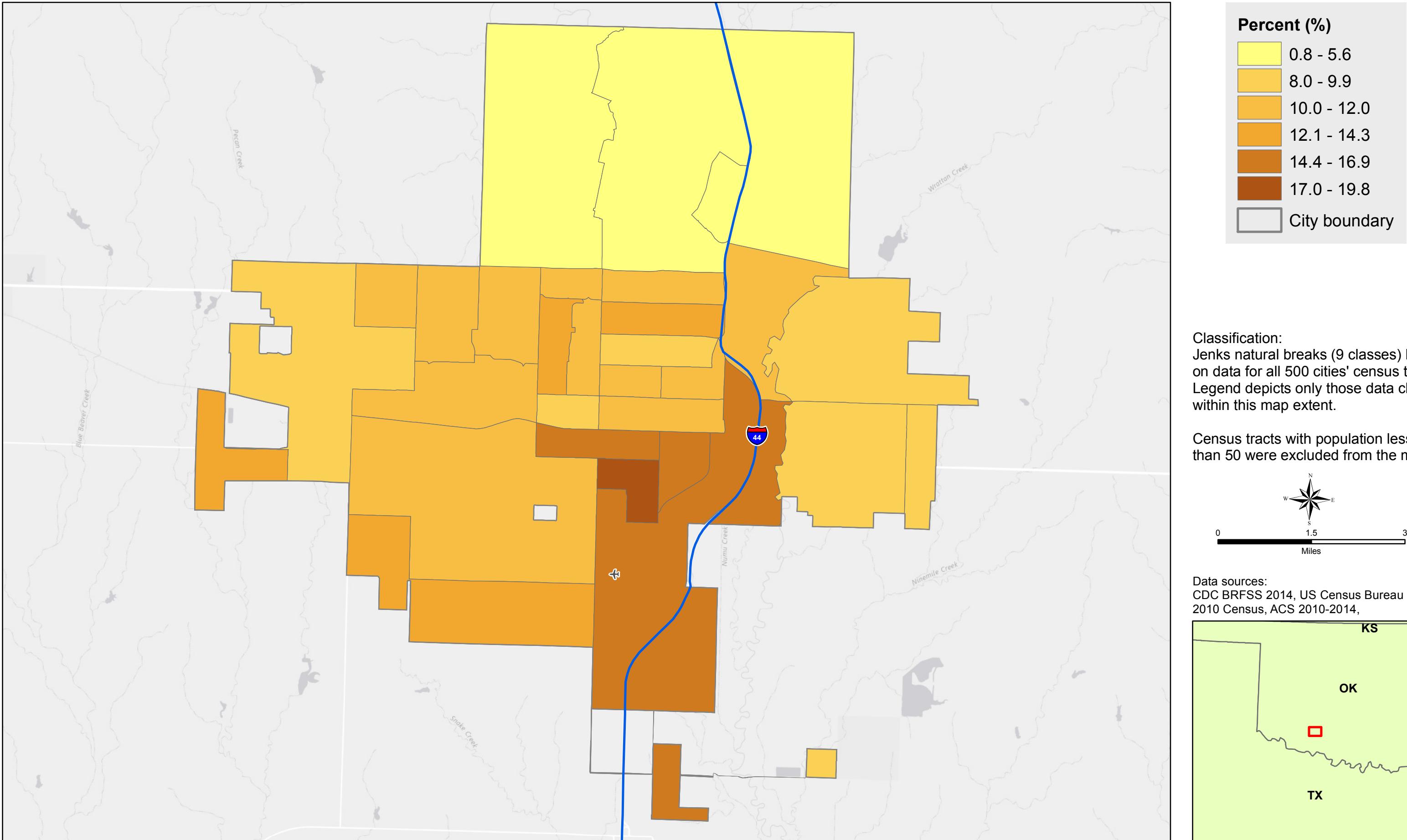
High cholesterol among adults aged ≥ 18 years who have been screened in the past five years by census tract, Lawton, OK, 2013



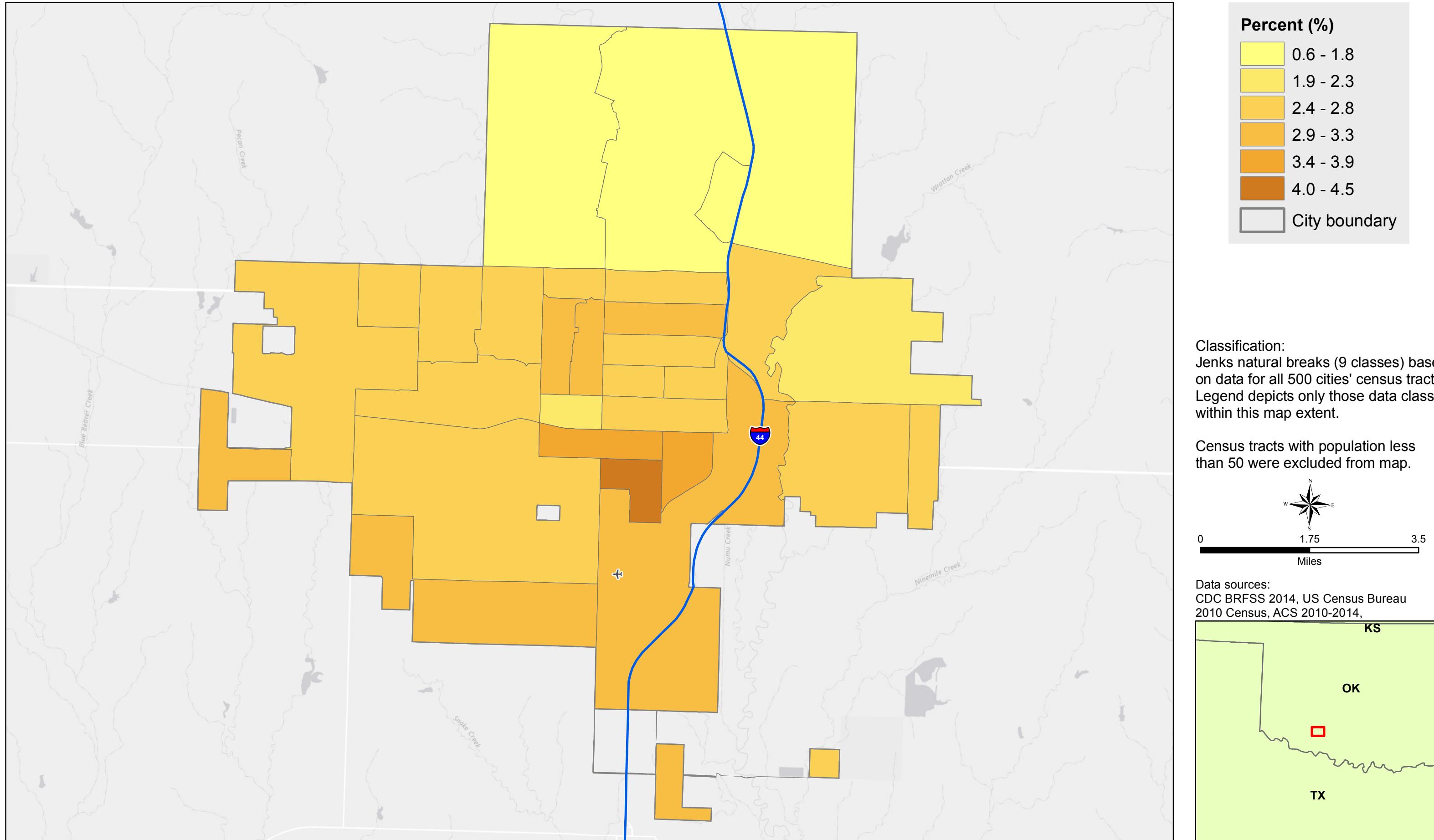
Cancer among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



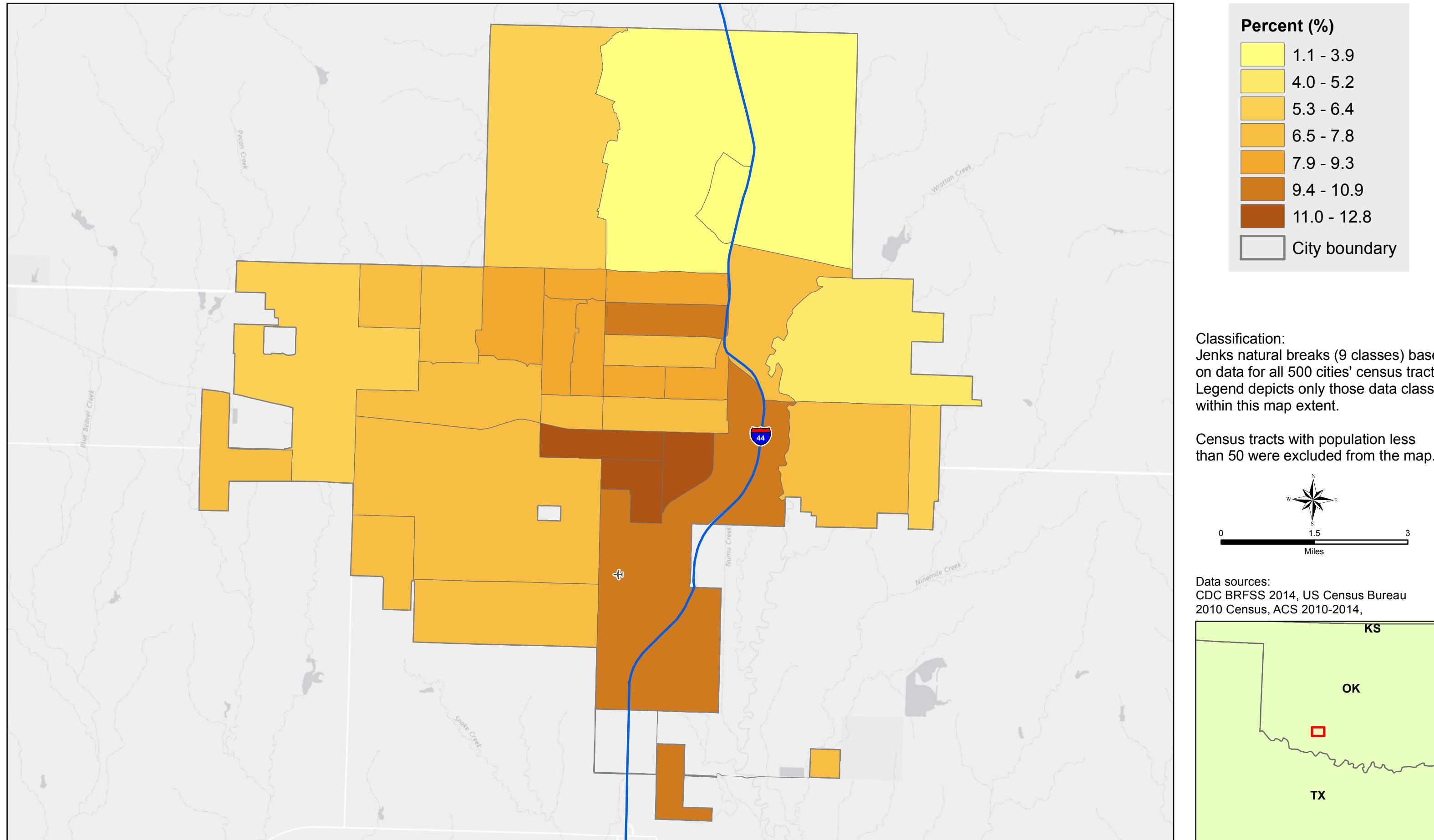
Diagnosed diabetes among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



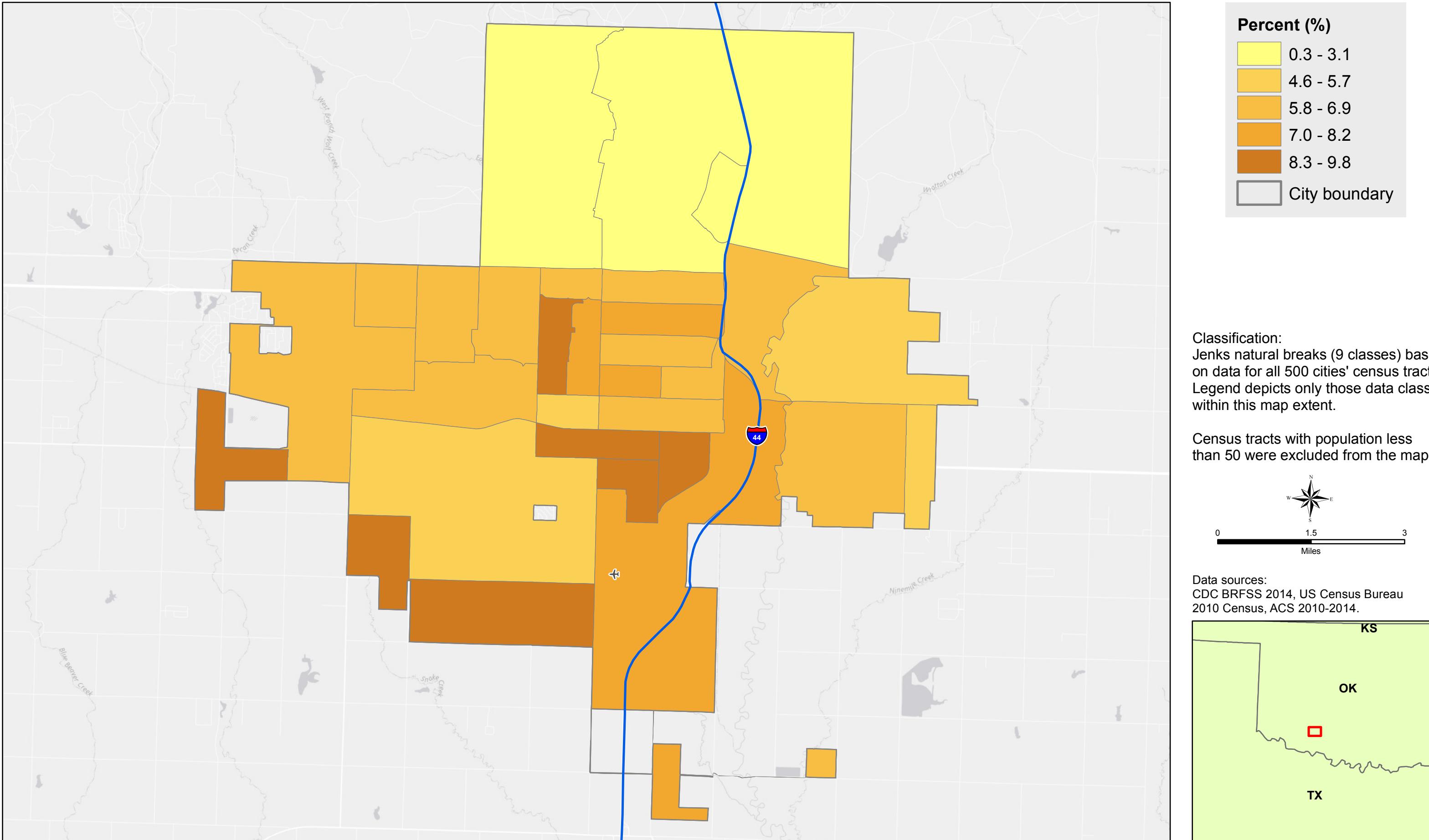
Chronic kidney disease among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



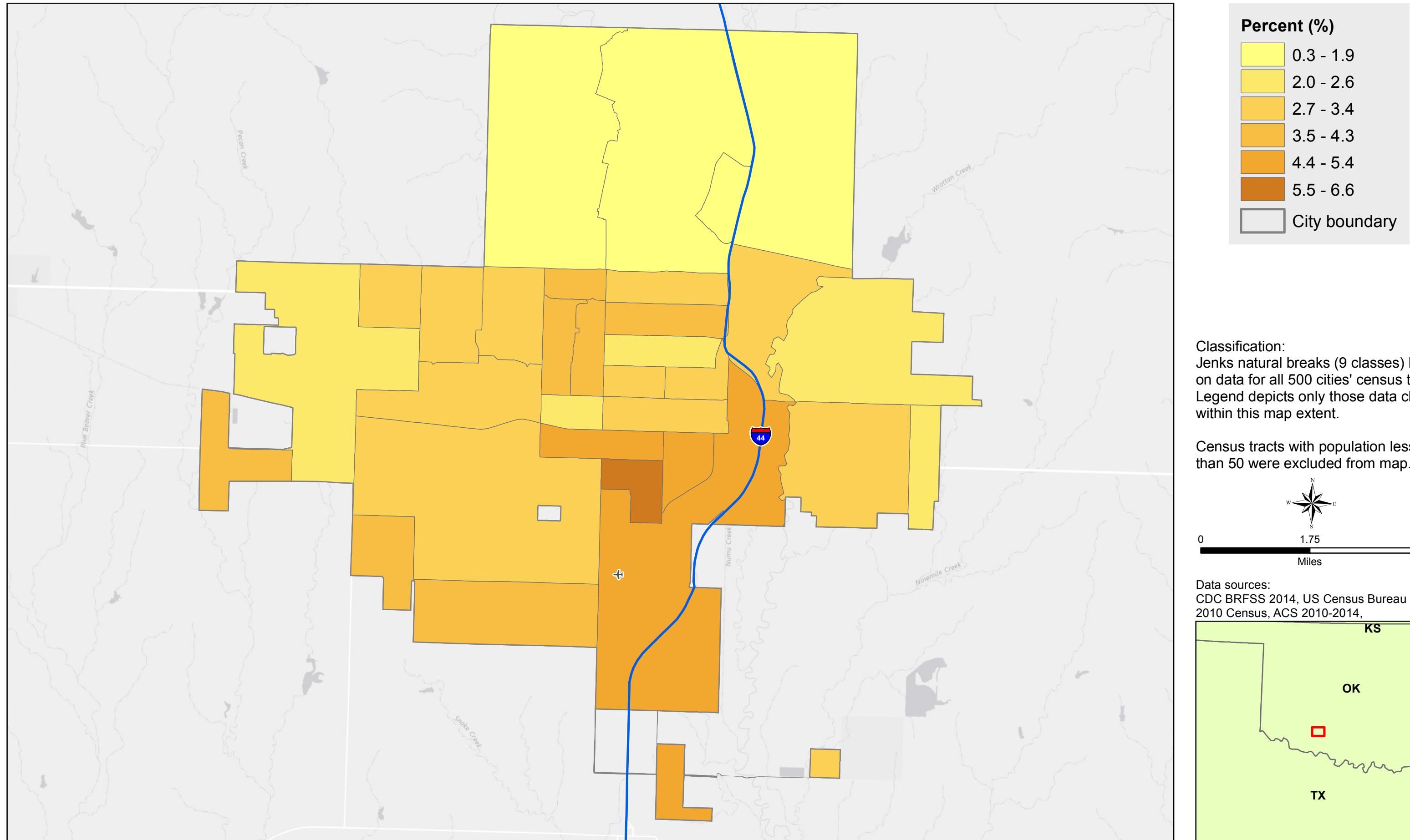
Chronic obstructive pulmonary disease among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



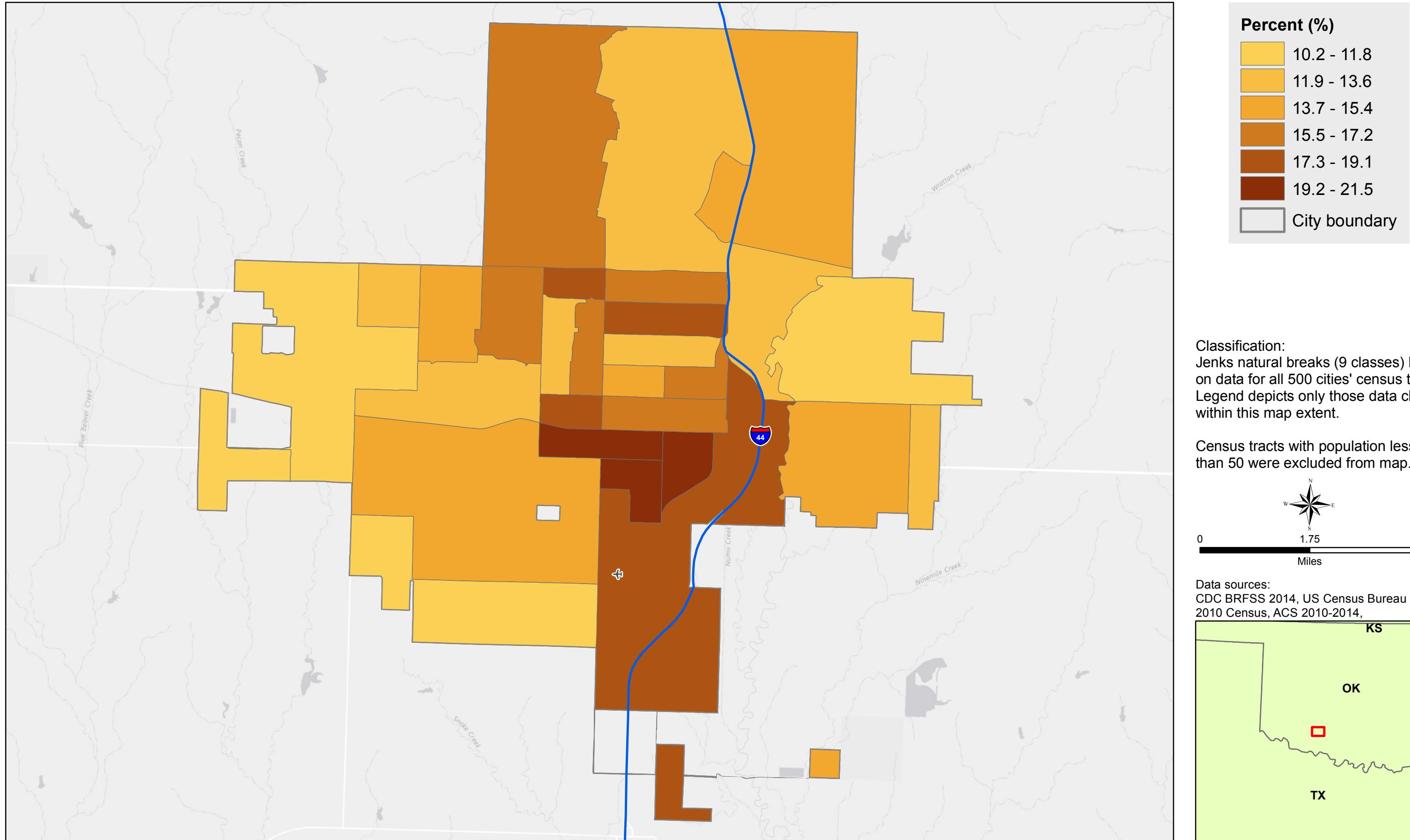
Coronary heart disease among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



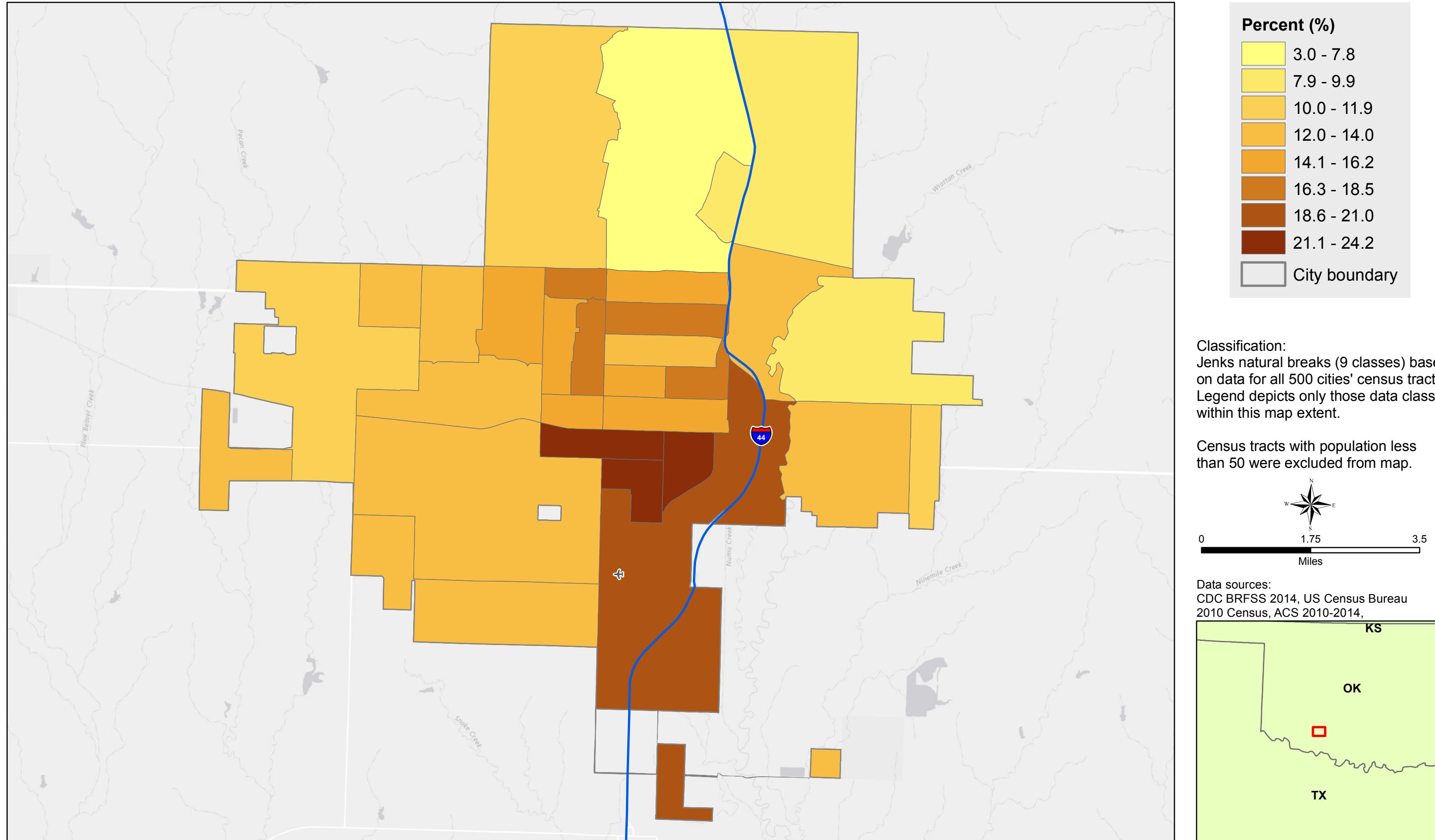
Stroke among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



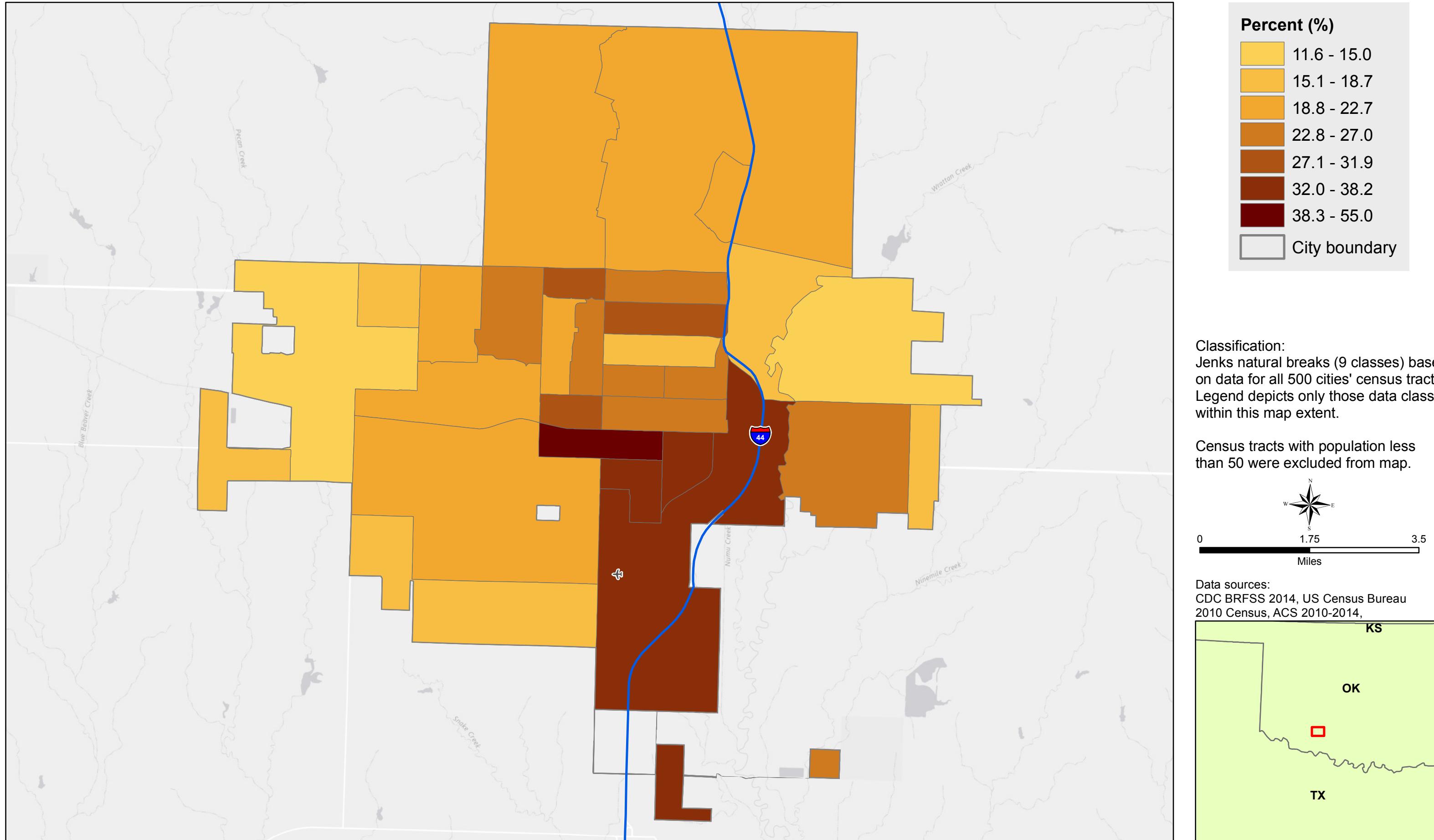
Mental health not good for ≥ 14 days among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



Physical health not good for ≥ 14 days among adults aged ≥ 18 years by census tract, Lawton, OK, 2014

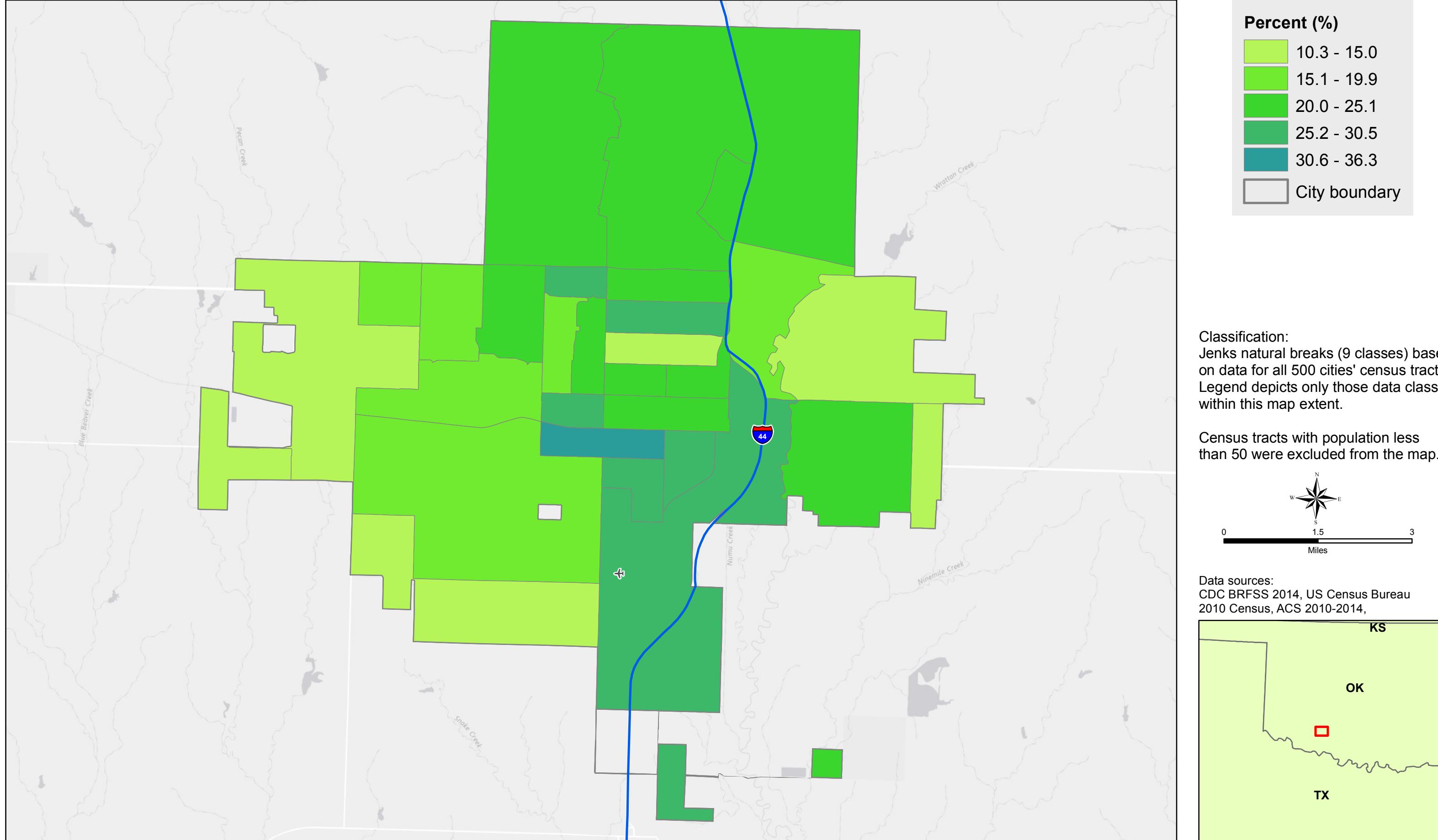


All teeth lost among adults aged ≥ 65 years by census tract, Lawton, OK, 2014

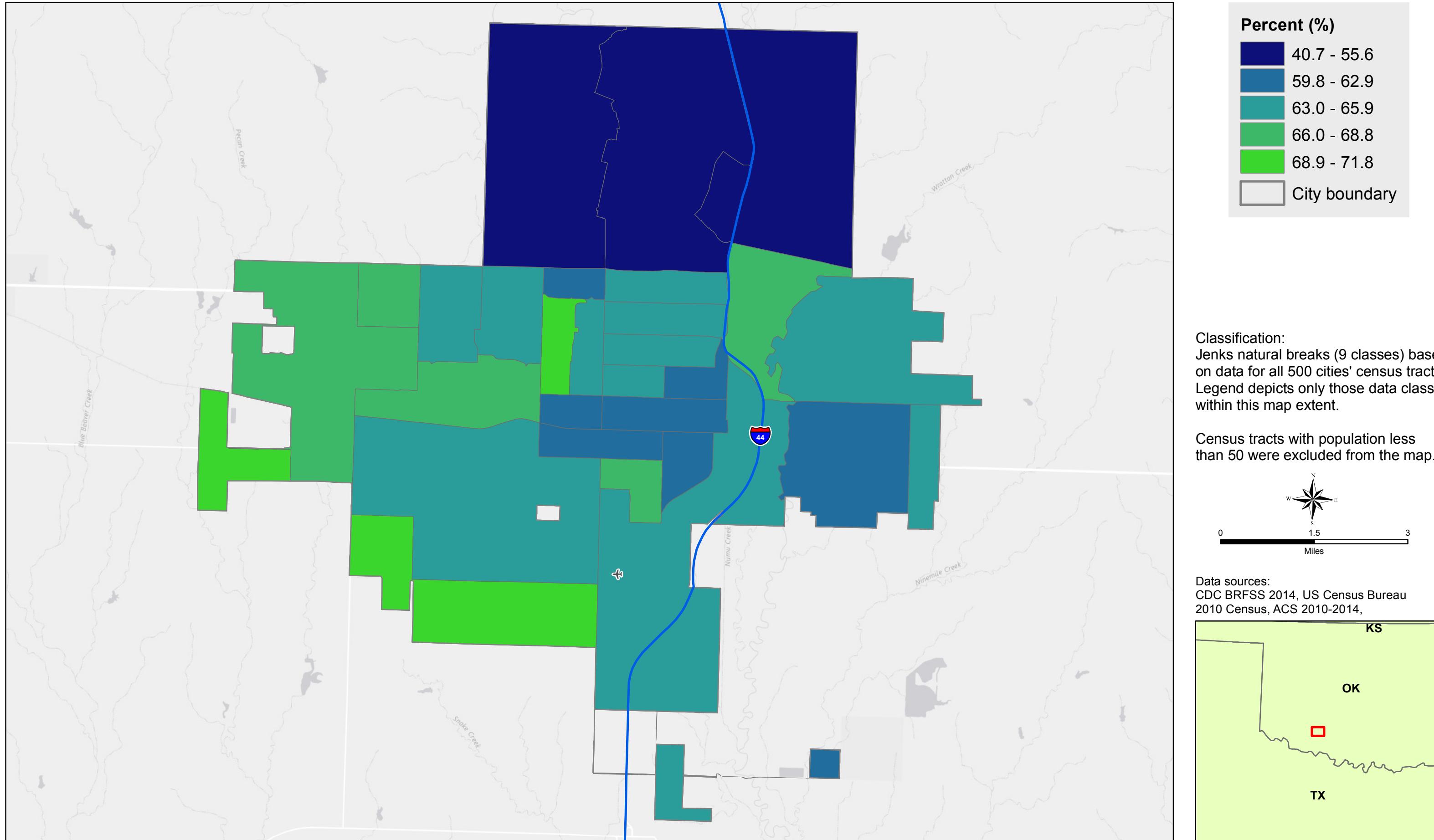


Use of Preventive Services

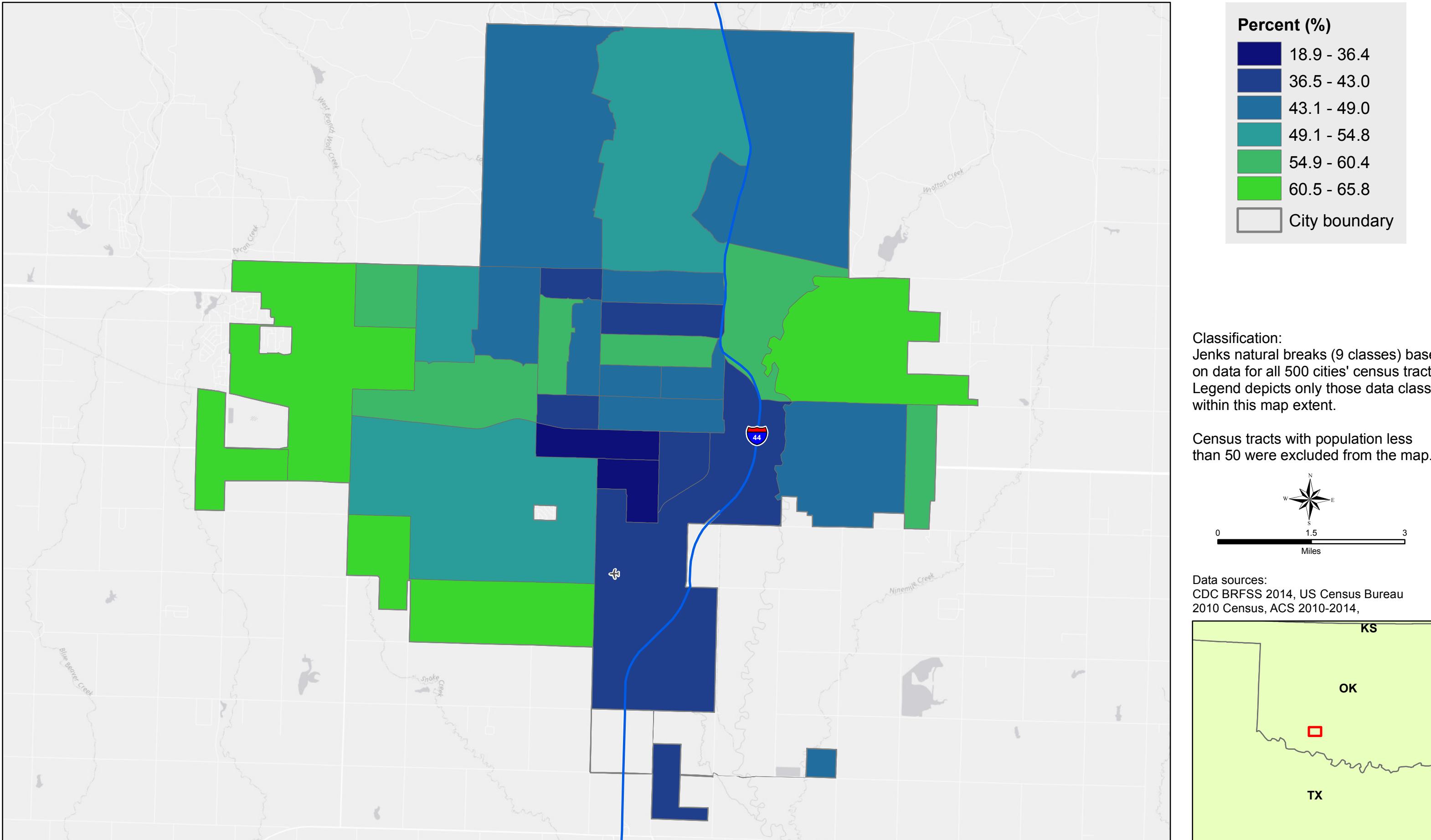
Current lack of health insurance among adults aged 18-64 years by census tract, Lawton, OK, 2014



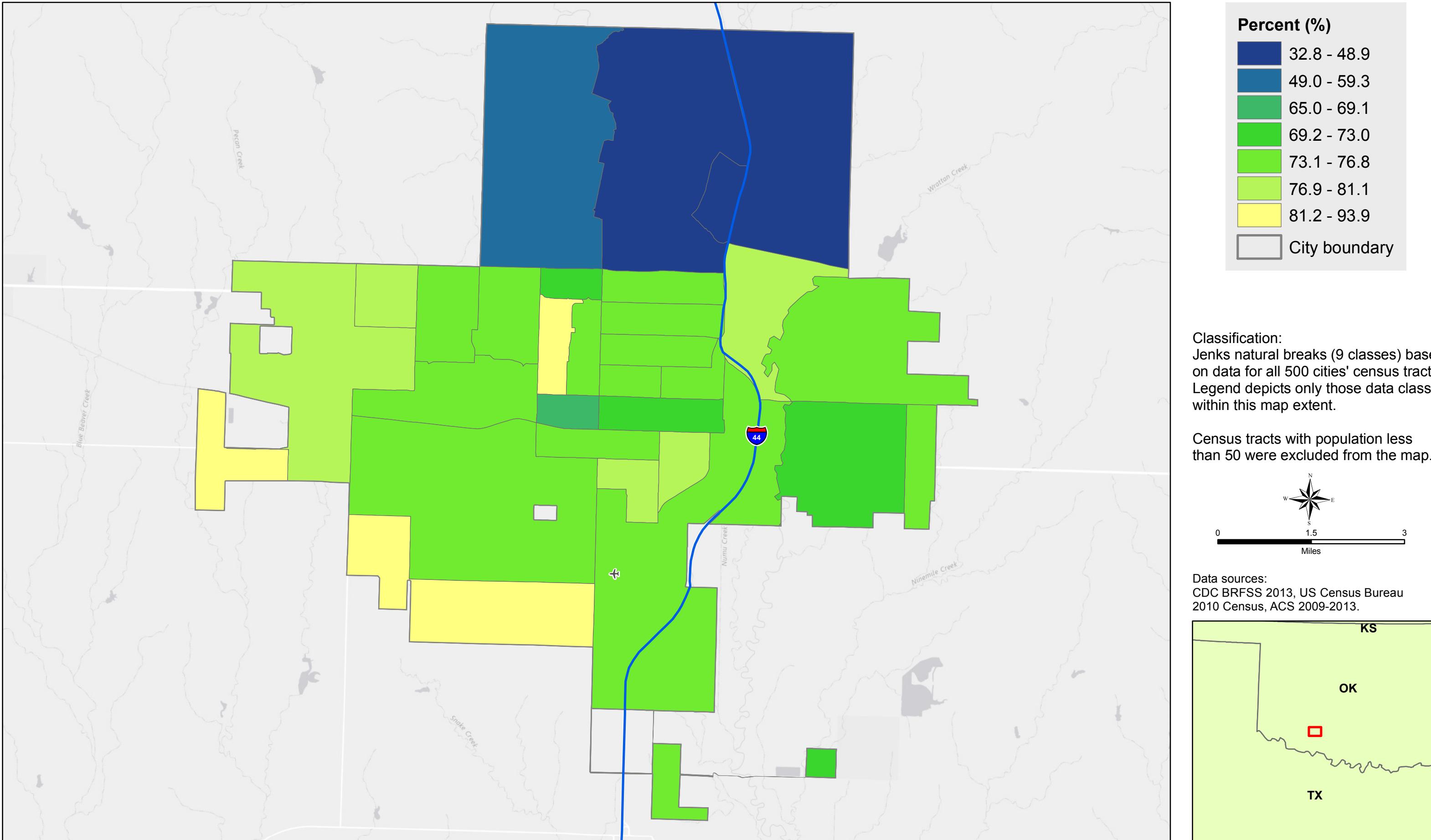
Visits to doctor for routine checkup within the past year among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



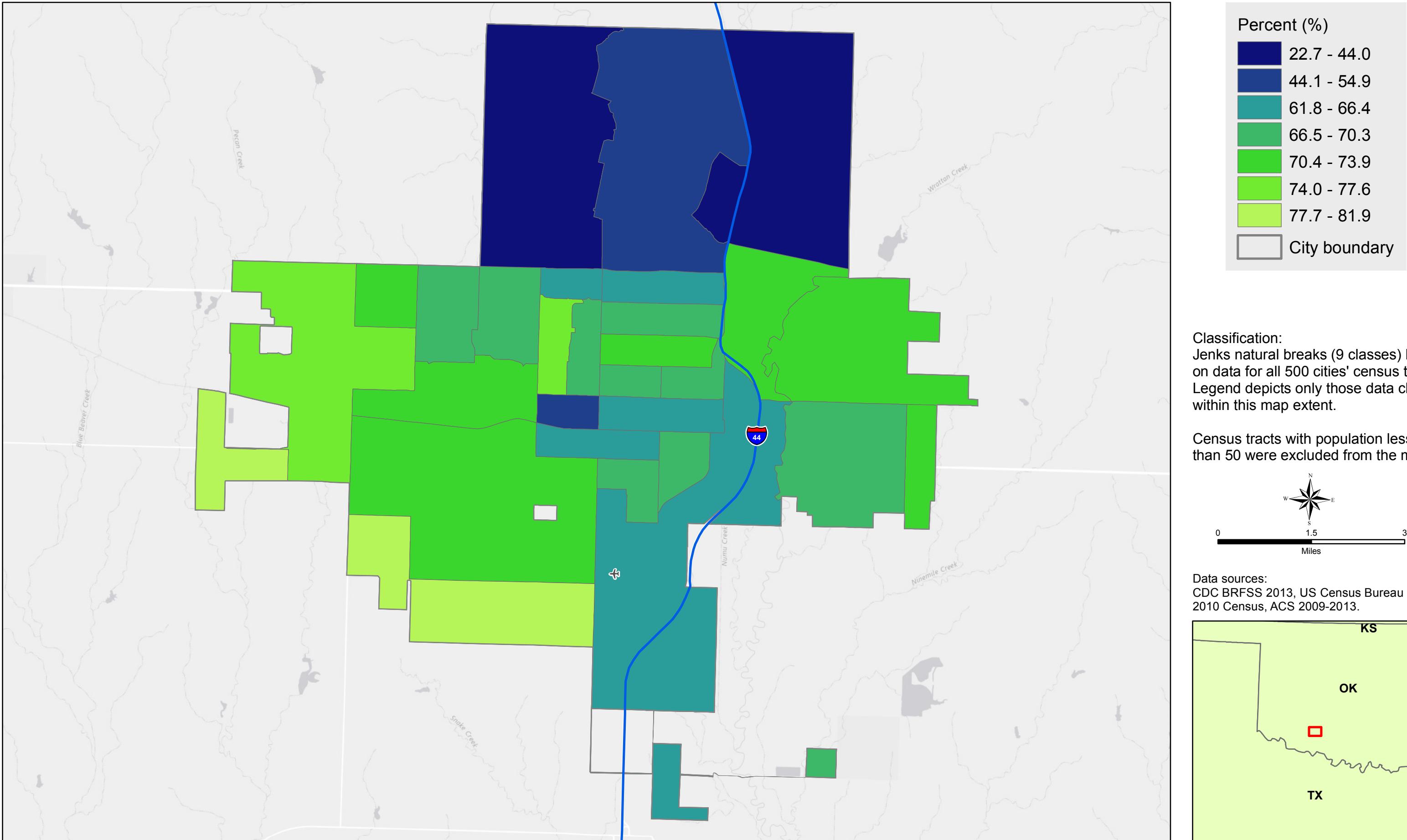
Visits to dentist or dental clinic among adults aged ≥ 18 years by census tract, Lawton, OK, 2014



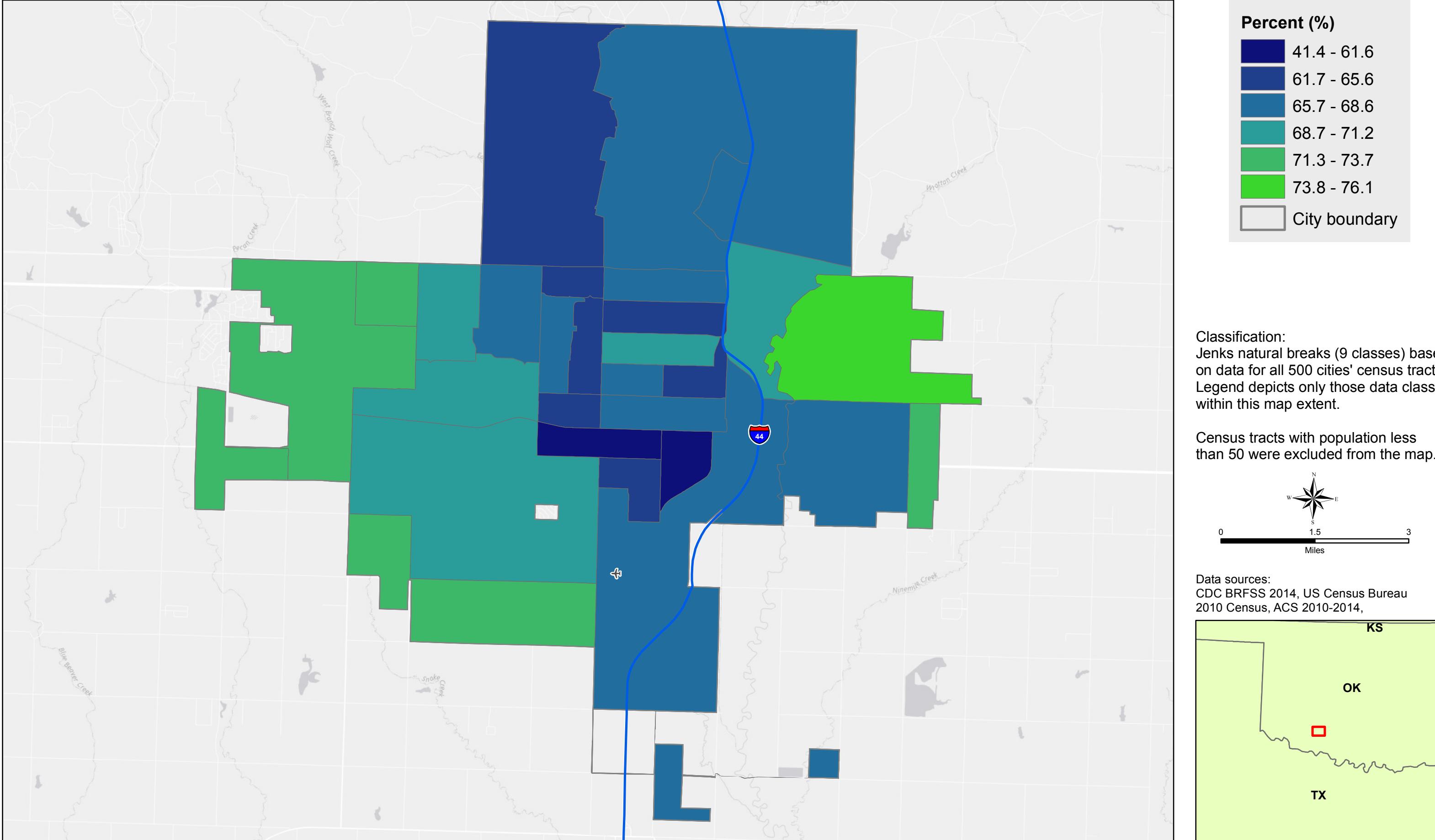
Taking medicine for high blood pressure control among adults aged ≥ 18 years with high blood pressure by census tract, Lawton, OK, 2013



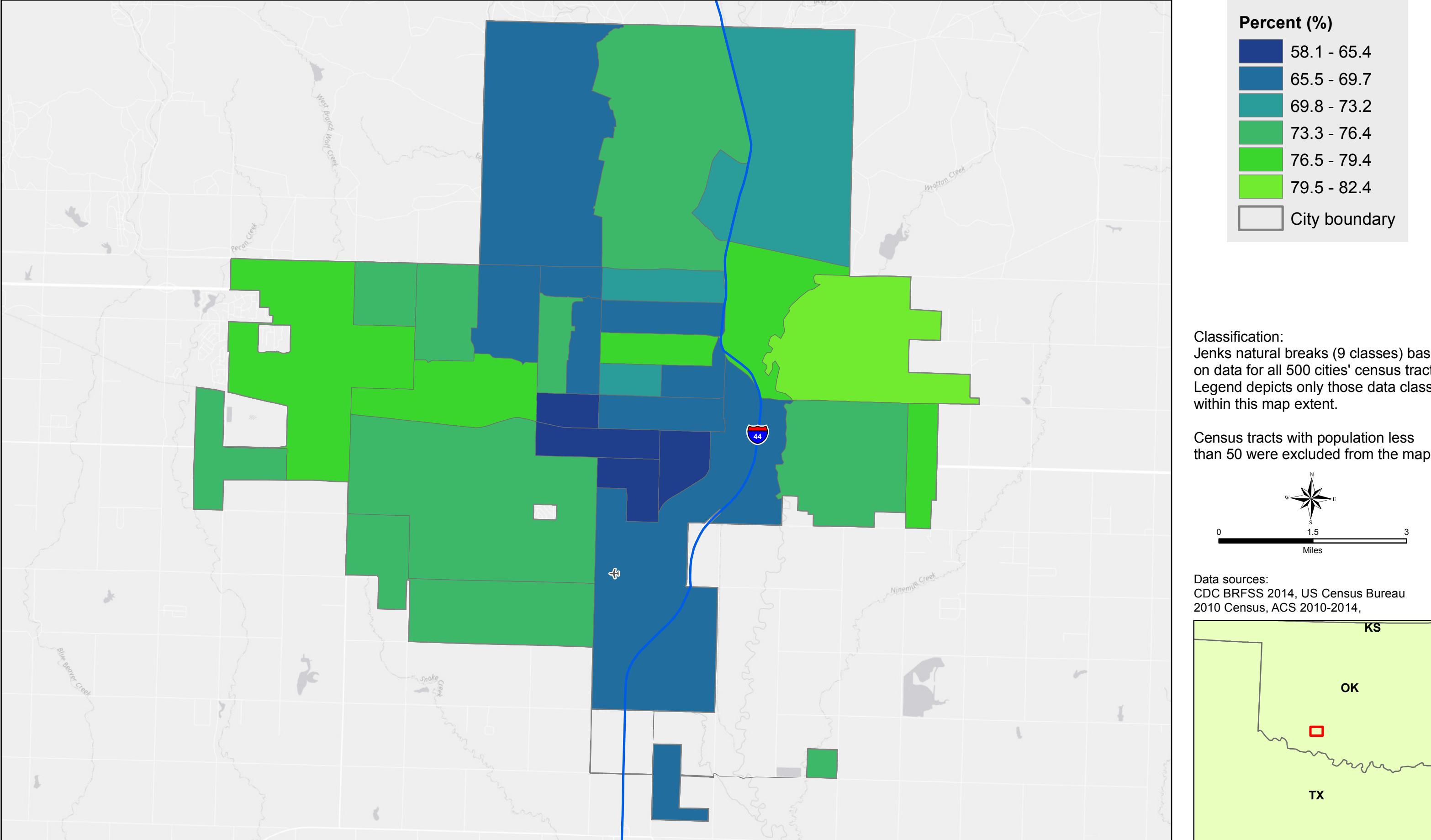
Cholesterol screening among adults aged ≥ 18 years by census tract, Lawton, OK, 2013



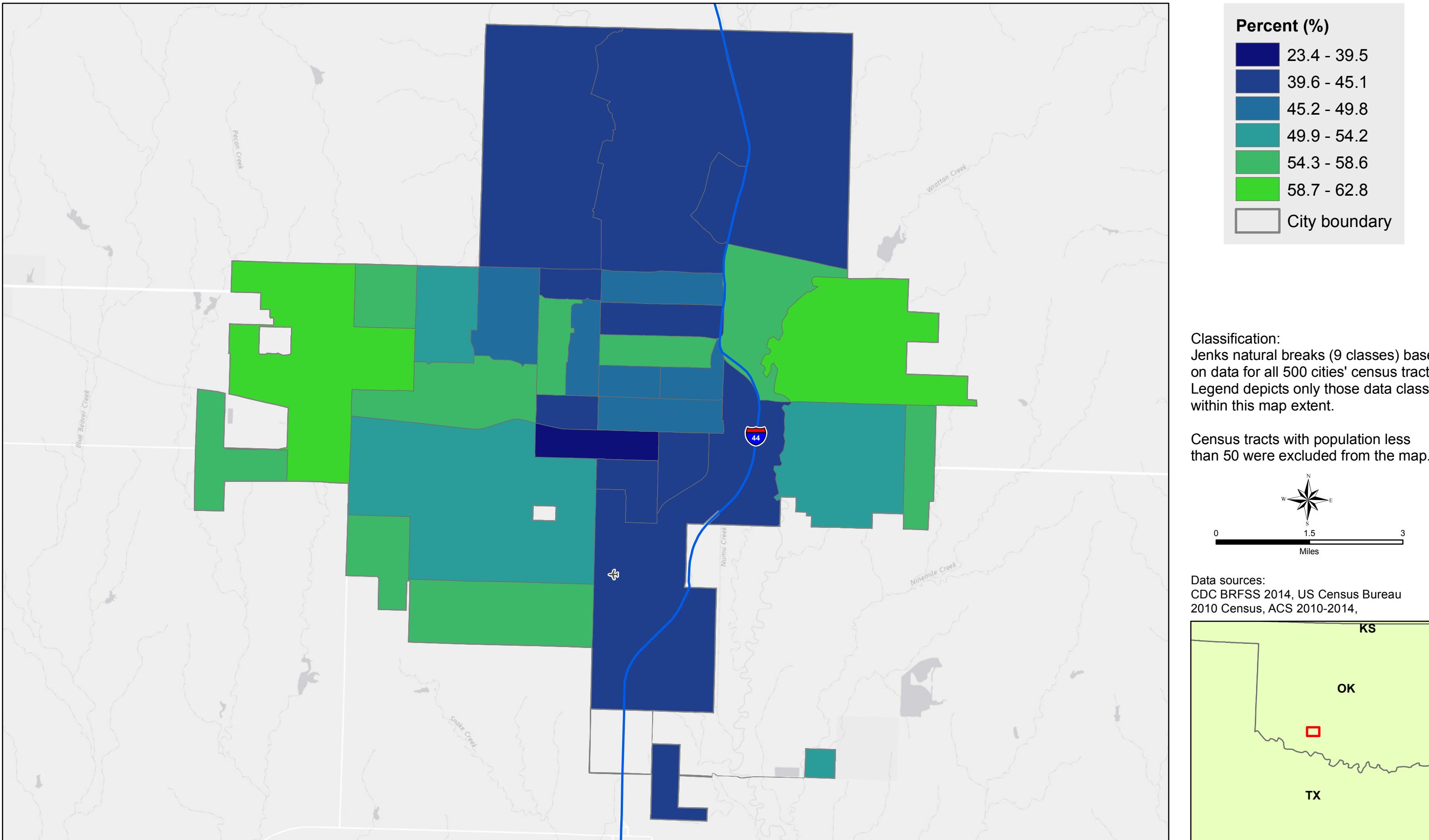
Mammography use among women aged 50-74 years by census tract, Lawton, OK, 2014



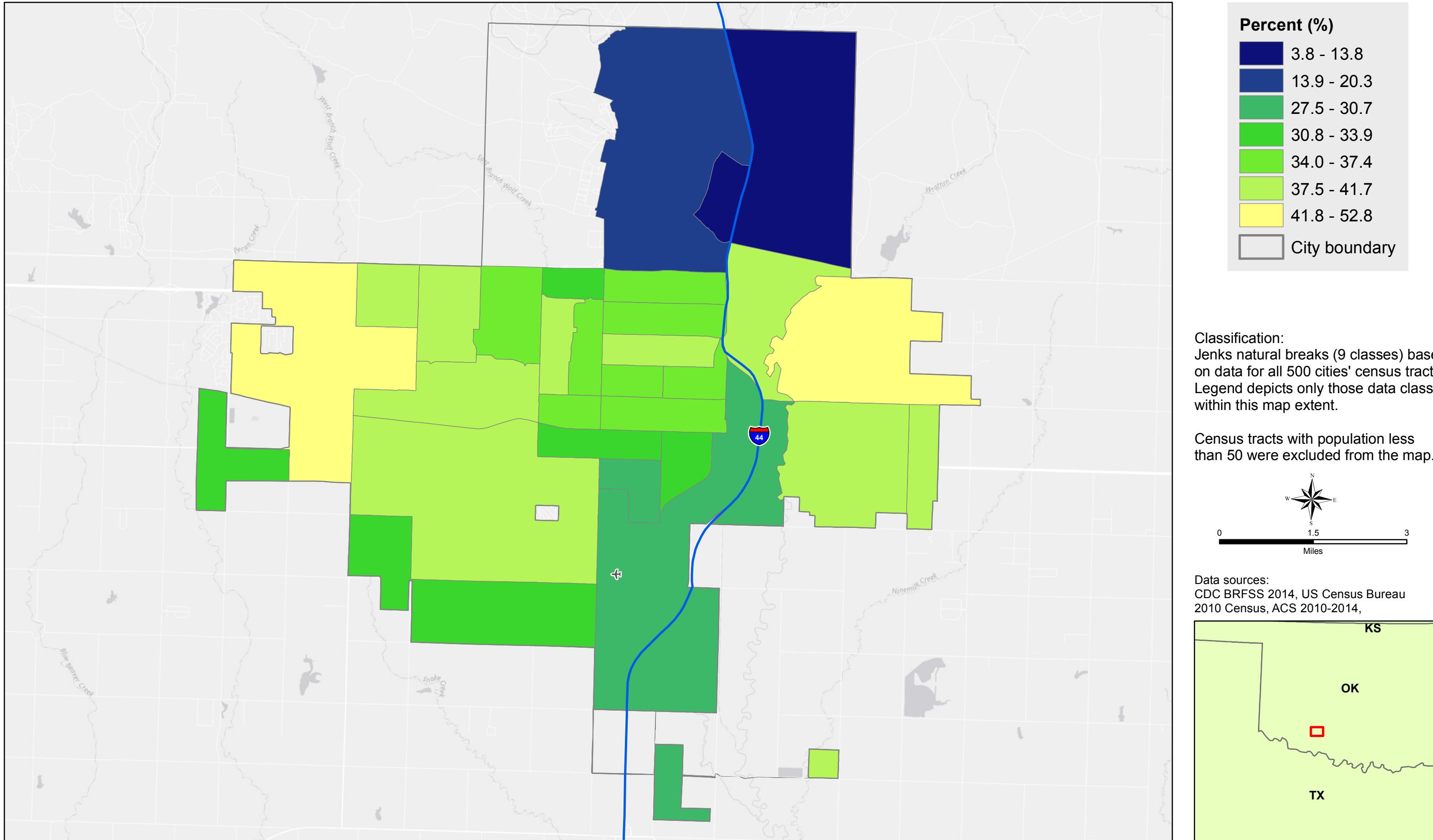
Papanicolaou smear use among adult women aged 21-65 years by census tract, Lawton, OK, 2014



Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years by census tract, Lawton, OK, 2014



Up to date on a core set of clinical preventive services (flu shot past year, pneumococcal shot ever, colorectal cancer screening) among men aged ≥ 65 years by census tract, Lawton, OK, 2014



Up to date on a core set of clinical preventive services (same as men plus mammogram past 2 years) among women aged ≥ 65 years by census tract, Lawton, OK, 2014

