

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)

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Introduction:

The 500 Cities Project – Better Health Through Local Data – is a collaboration between the Robert Wood Johnson Foundation, the CDC Foundation, and the Centers for Disease Control and Prevention (CDC). The purpose of the project 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 inform development and implementation of effective, targeted public health prevention activities.

Data sources:

The CDC Behavioral Risk Factor Surveillance System 2015, 2016 data. The Census Bureau 2010 census population data, American Community Survey 2011-2015 and 2012-2016 estimates. Esri ArcGIS Online basemaps.

Methodology:

CDC used small area estimation (SAE) methodology called multi-level 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); predicts individual disease risk and health behaviors in a multi-level modeling framework, and estimates the geographic distributions of population disease burden and health behaviors at city and census tract levels.

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.
- Comparison of Methods for Estimating Prevalence of Chronic Diseases and Health Behaviors for Small Geographic Areas: Boston Validation Study, 2013

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 due to local interventions, these model-based local estimates should not be used to evaluate the effect of local public health programs, policies, or interventions.

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

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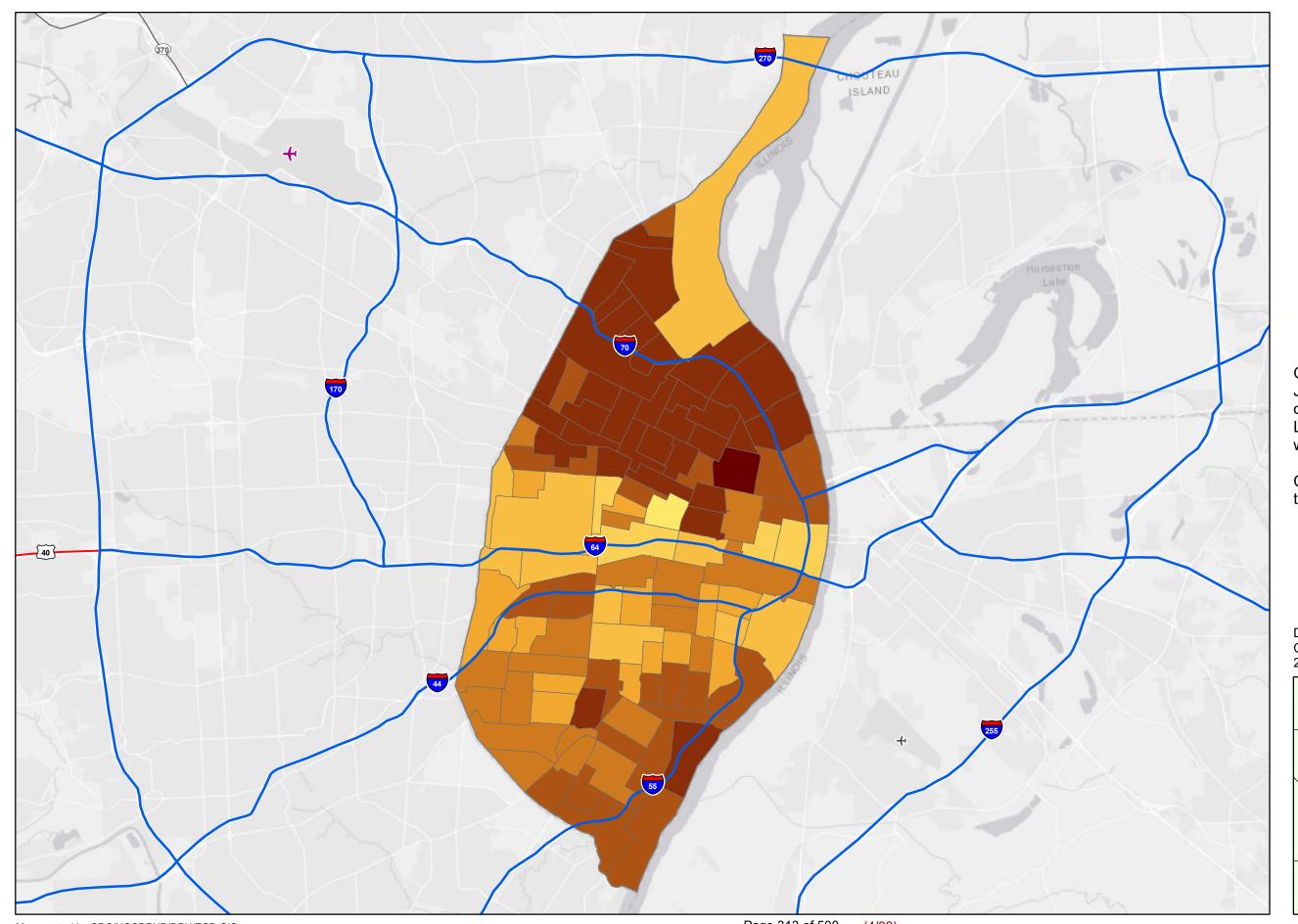
Four of the measures were not included in the 2016 BRFSS, therefore 2015 estimates are presented here. For details on measure definitions, please refer to: https://www.cdc.gov/50ocities/measure-definitions.htm.

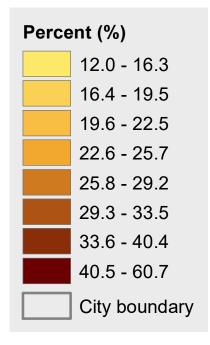
CDC/NCCDPHP/DPH/ESB September 26, 2018

Measure		Crude (%) Prevalence Lower 95% CI Upper 95% CI			Age-adjusted (%) Prevalence Lower 95% CI Upper 95% CI			State Age-adjusted Prevalence (%)	US Age-adjuste Prevalence (%	Production (
St. Louis	МО									
Arthritis among adults ag	·	28.8	28.6	28.9	30.5	30.3	30.6	27.8	23.0	
Current asthma prevalence among adults aged >=18 years		11.4	11.3	11.5	11.4	11.3	11.5	9.8	8.8	
Cancer (excluding skin cancer) among adults aged >=18 years		5.5	5.5	5.5	6.0	5.9	6.0	6.3	5.9	
	ng adults aged >=18 years	34.0	33.9	34.2	35.9	35.8	36.1	31.4	29.4	
High cholesterol among a 5 years	idults aged >=18 years who have been screened in the past	33.0	32.8	33.1	30.3	30.2	30.4	30.8	31.1	
Diagnosed diabetes amou	ng adults aged >=18 years	13.0	13.0	13.1	14.0	13.9	14.1	10.3	9.6	
Chronic kidney disease a	mong adults aged >=18 years	3.3	3.3	3.4	3.6	3.5	3.6	3.4	2.7	
Chronic obstructive pulm	onary disease among adults aged >=18 years	7.8	7.7	7.9	8.2	8.0	8.3	7.9	6.0	
Coronary heart disease a	mong adults aged >=18 years	6.4	6.3	6.4	6.9	6.8	6.9	6.9	5.8	
Stroke among adults age	d >=18 years	4.2	4.2	4.3	4.6	4.5	4.6	4.2	2.9	
Physical health not good	for >=14 days among adults aged >=18 years	15.4	15.2	15.5	15.9	15.7	16.0	13.3	11.5	
Mental health not good f	or >=14 days among adults aged >=18 years	15.5	15.3	15.7	15.2	15.0	15.4	13.8	11.9	
All teeth lost among adul	ts aged >=65 years	23.3	22.4	24.1	23.3	22.5	24.1	18.8	15.0	
Current lack of health ins	urance among adults aged 18-64 years	17.9	17.6	18.3	18.0	17.6	18.3	14.4	14.6	
Visits to doctor for routing years	e checkup within the past year among adults aged >=18	73.7	73.6	73.8	74.6	74.5	74.7	68.8	69.7	
Visits to dentist or dental	clinic among adults aged >=18 years	54.6	54.2	55.0	54.7	54.3	55.1	60.8	65.3	
Taking medicine for high high blood pressure	blood pressure control among adults aged >=18 years with	77.5	77.4	77.6	65.5	65.3	65.6	60.9	57.7	
Cholesterol screening am	ong adults aged >=18 years	70.3	70.1	70.6	72.5	72.3	72.7	72.3	75.2	
Mammography use amor	ng women aged 50-74 years	79.3	78.9	79.6	73.0	72.7	73.4	75.4	77.7	
Papanicolaou smear use	among adult women aged 21-65 years	84.9	84.7	85.2	78.9	78.6	79.2	78.6	80.3	US value based on states available from BRFSS 2016
Fecal occult blood test, si years	gmoidoscopy, or colonoscopy among adults aged 50-75	61.9	61.5	62.3	62.9	62.5	63.3	62.2	64.2	
-	of clinical preventive services (flu shot past year, colorectal cancer screening) among men aged >=65 years	32.7	32.1	33.3	32.4	31.8	33.1	41.2	35.0	
•	of clinical preventive services (same as men plus s) among women aged >=65 years	29.7	29.2	30.3	30.5	30.0	31.0	35.5	31.5	
Binge drinking prevalence	e among adults aged >=18 years	18.6	18.5	18.7	17.7	17.7	17.8	19.9	18.0	
Current smoking among a	adults aged >=18 years	24.9	24.5	25.2	24.7	24.4	25.0	23.4	16.8	
No leisure-time physical a	activity among adults aged >=18 years	28.8	28.5	29.1	29.5	29.2	29.8	24.5	23.7	
Obesity among adults ago	ed >=18 years	36.7	36.5	36.8	37.6	37.5	37.8	31.5	29.5	
Sleeping less than 7 hours among adults aged >=18 years		37.7	37.5	37.8	37.7	37.6	37.9	34.8	35.1	

Health Outcomes

Arthritis among adults aged ≥18 years by census tract, St. Louis, MO, 2016





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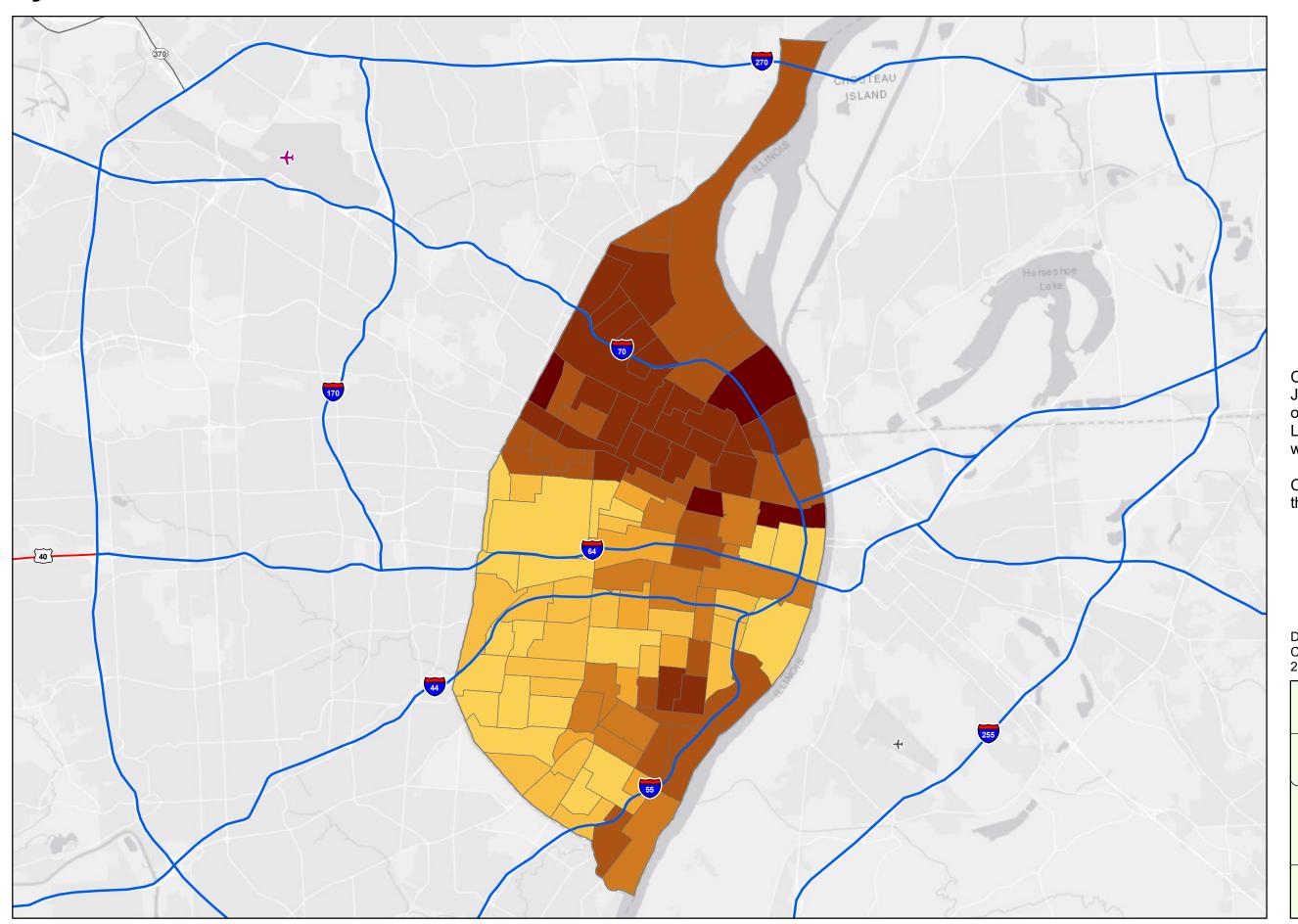
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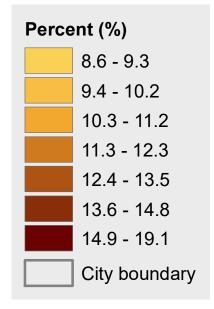


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Current asthma prevalence among adults aged ≥18 years by census tract, St. Louis, MO, 2016

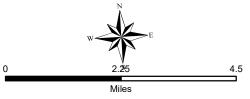




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Census tracts with population less than 50 were excluded from the map.

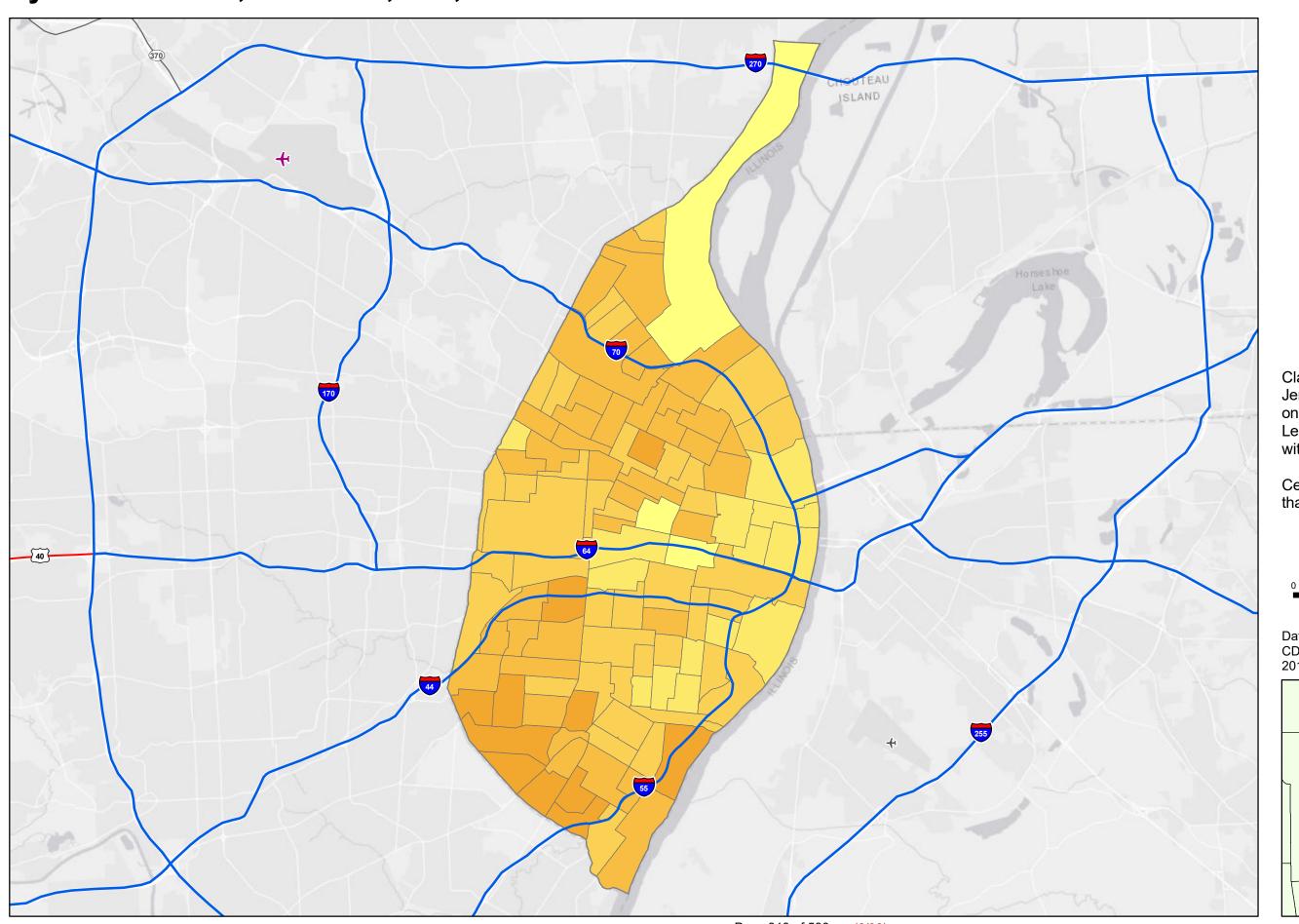


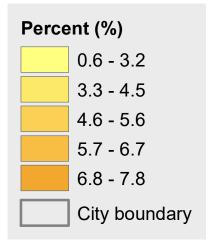
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Date: 8/7/2018

Cancer (excluding skin cancer) among adults aged ≥18 years by census tract, St. Louis, MO, 2016

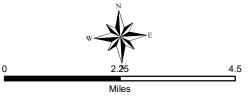




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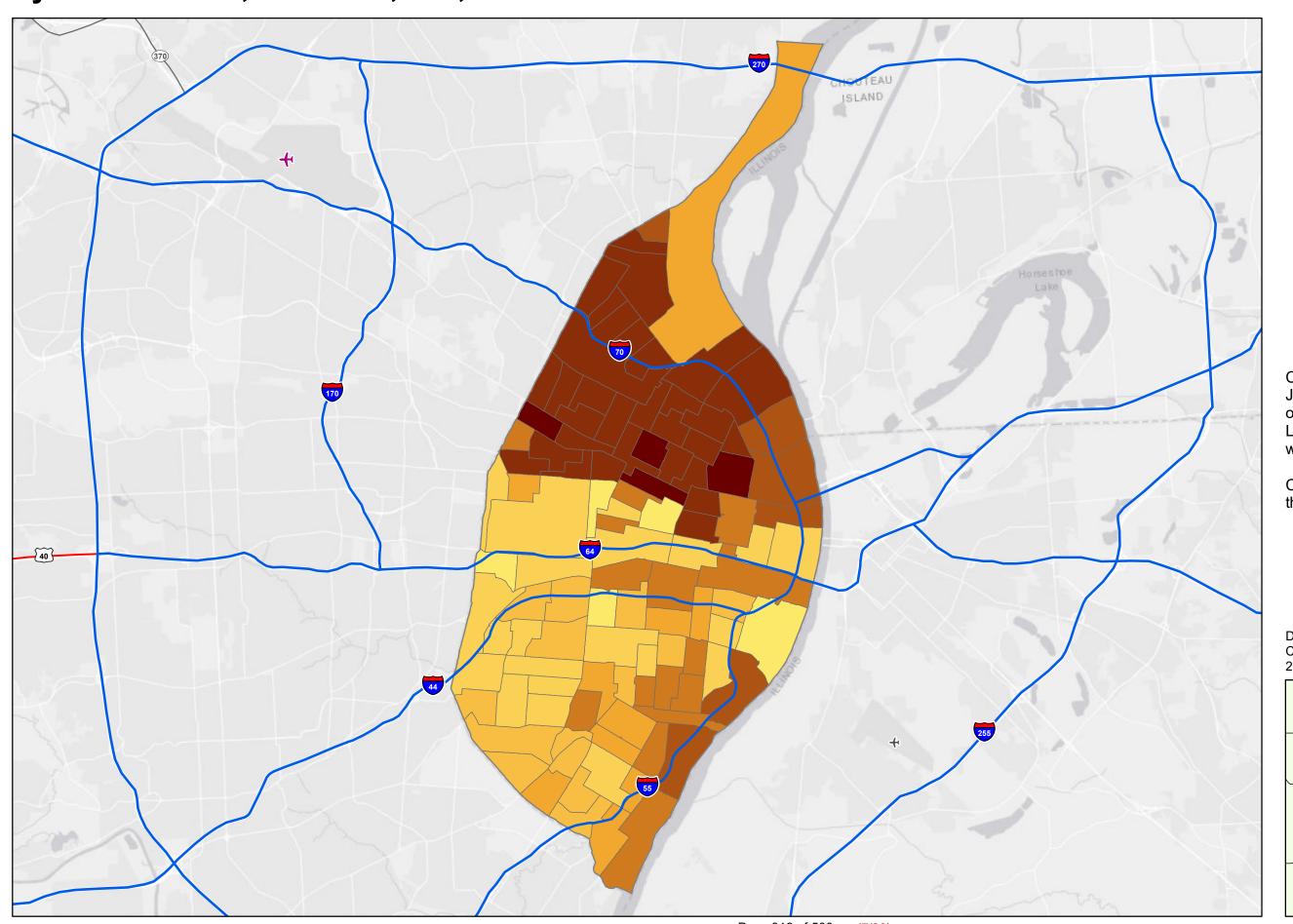


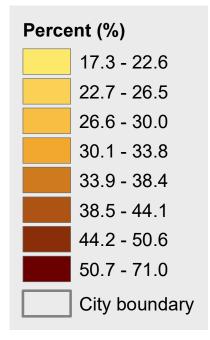
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



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High blood pressure among adults aged ≥18 years by census tract, St. Louis, MO, 2015

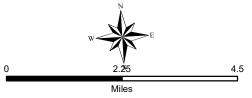




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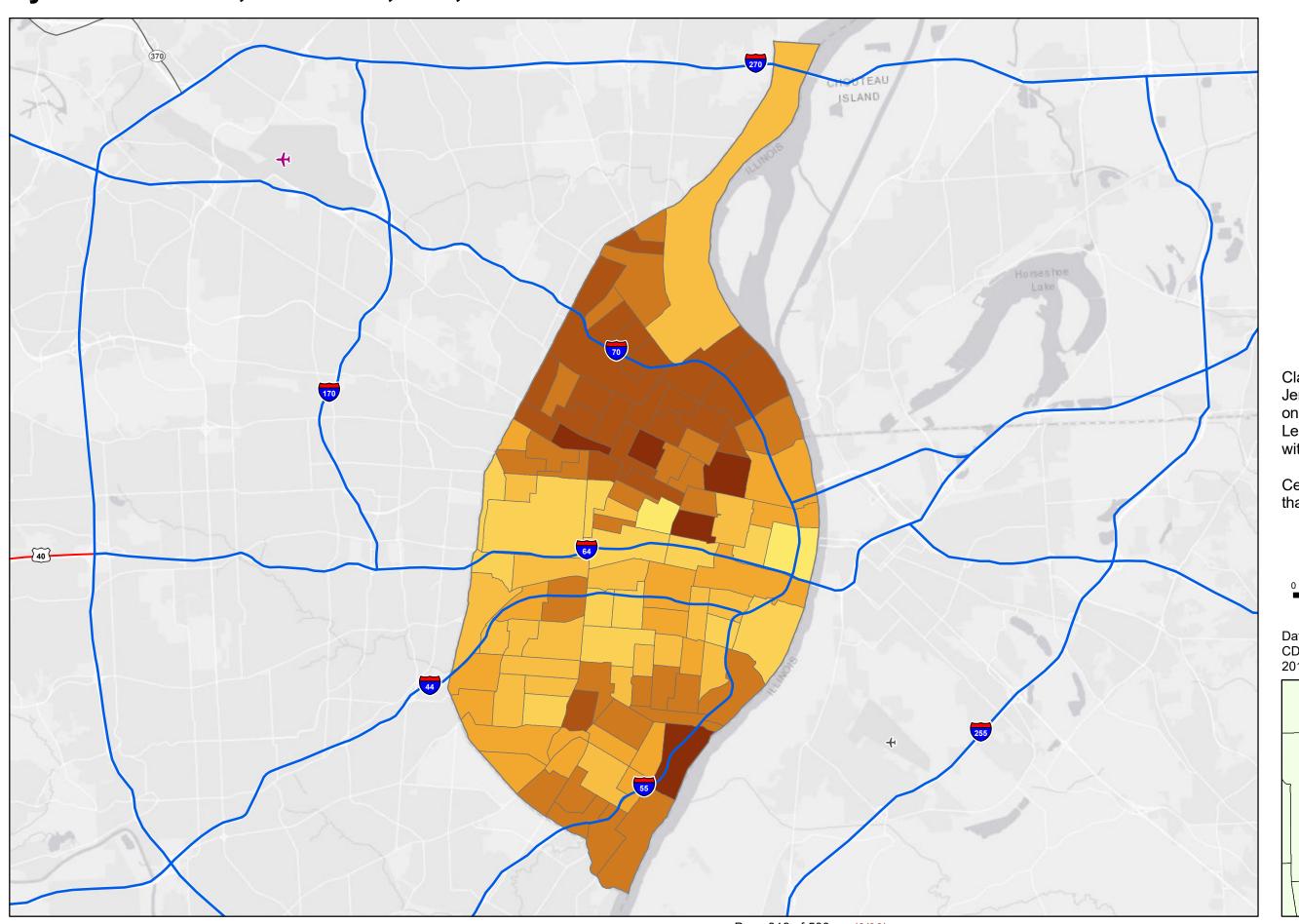
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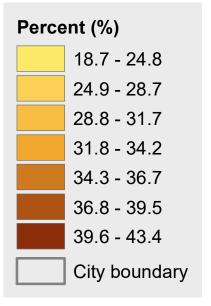


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High cholesterol among adults aged ≥18 years who have been screened in the past 5 years by census tract, St. Louis, MO, 2015

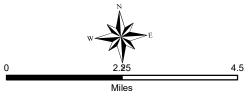




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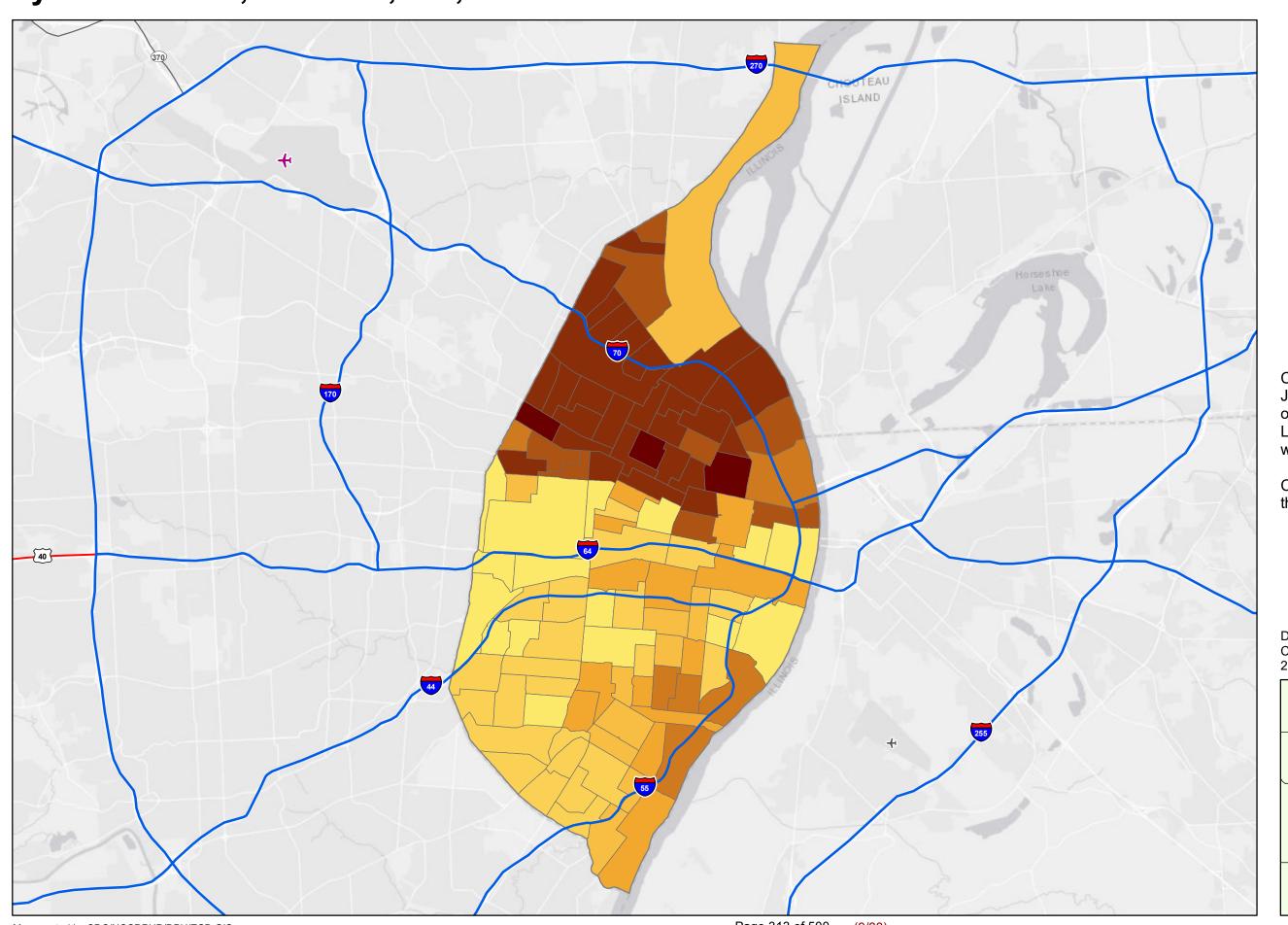
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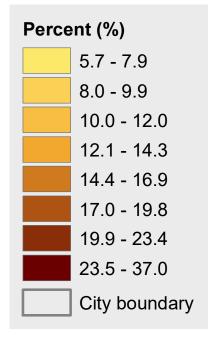


Date: 6/13/2018

Map created by CDC/NCCDPHP/DPH/ESB-GIS
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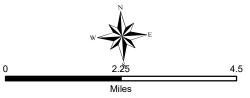
Diagnosed diabetes among adults aged ≥18 years by census tract, St. Louis, MO, 2016





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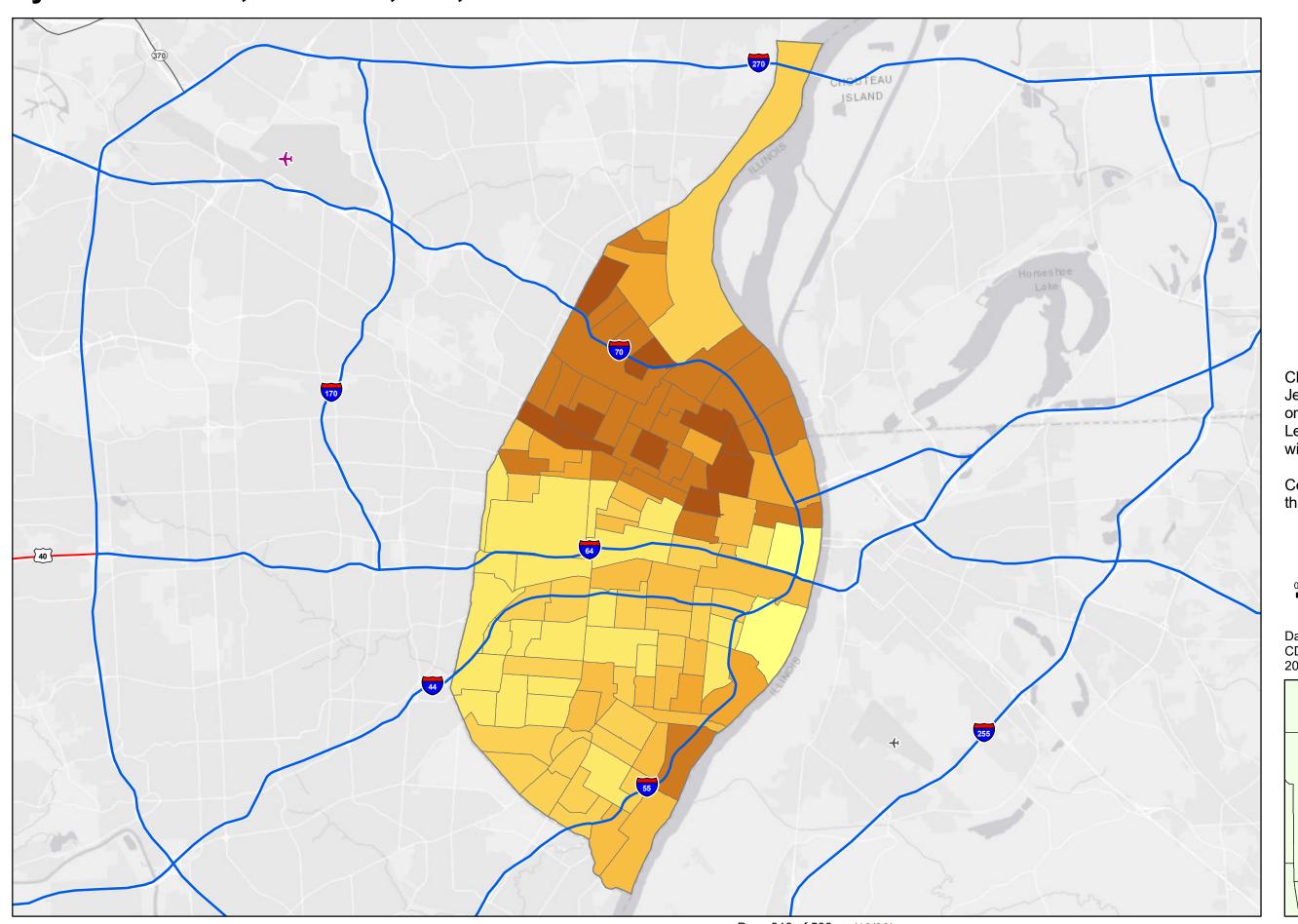
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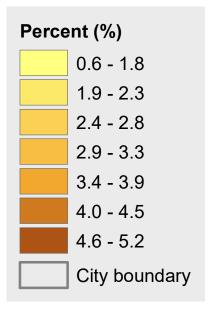


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016.



Chronic kidney disease among adults aged ≥18 years by census tract, St. Louis, MO, 2016





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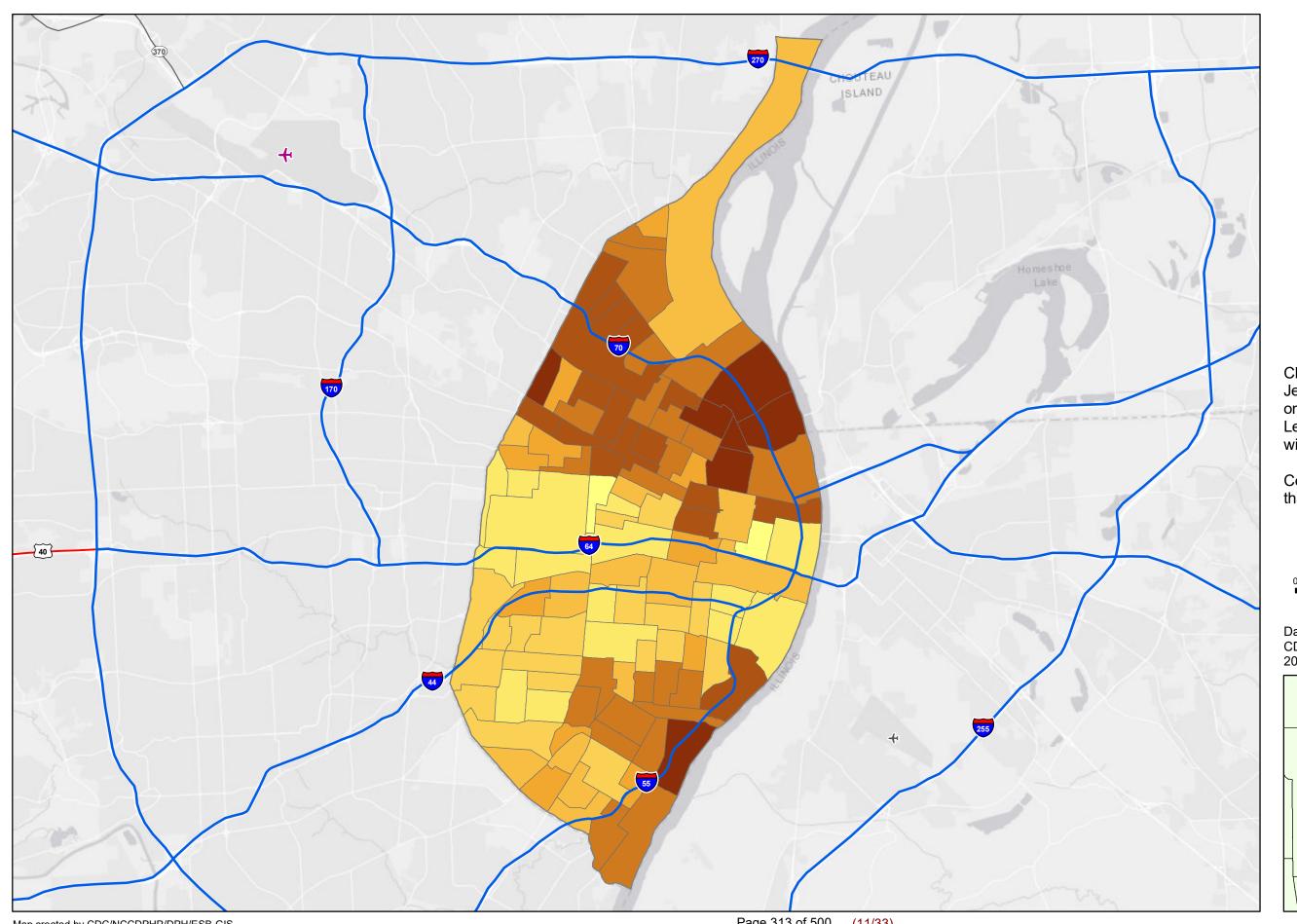
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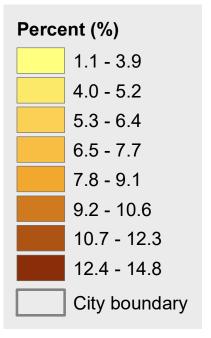


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016.



Chronic obstructive pulmonary disease among adults aged ≥18 years by census tract, St. Louis, MO, 2016





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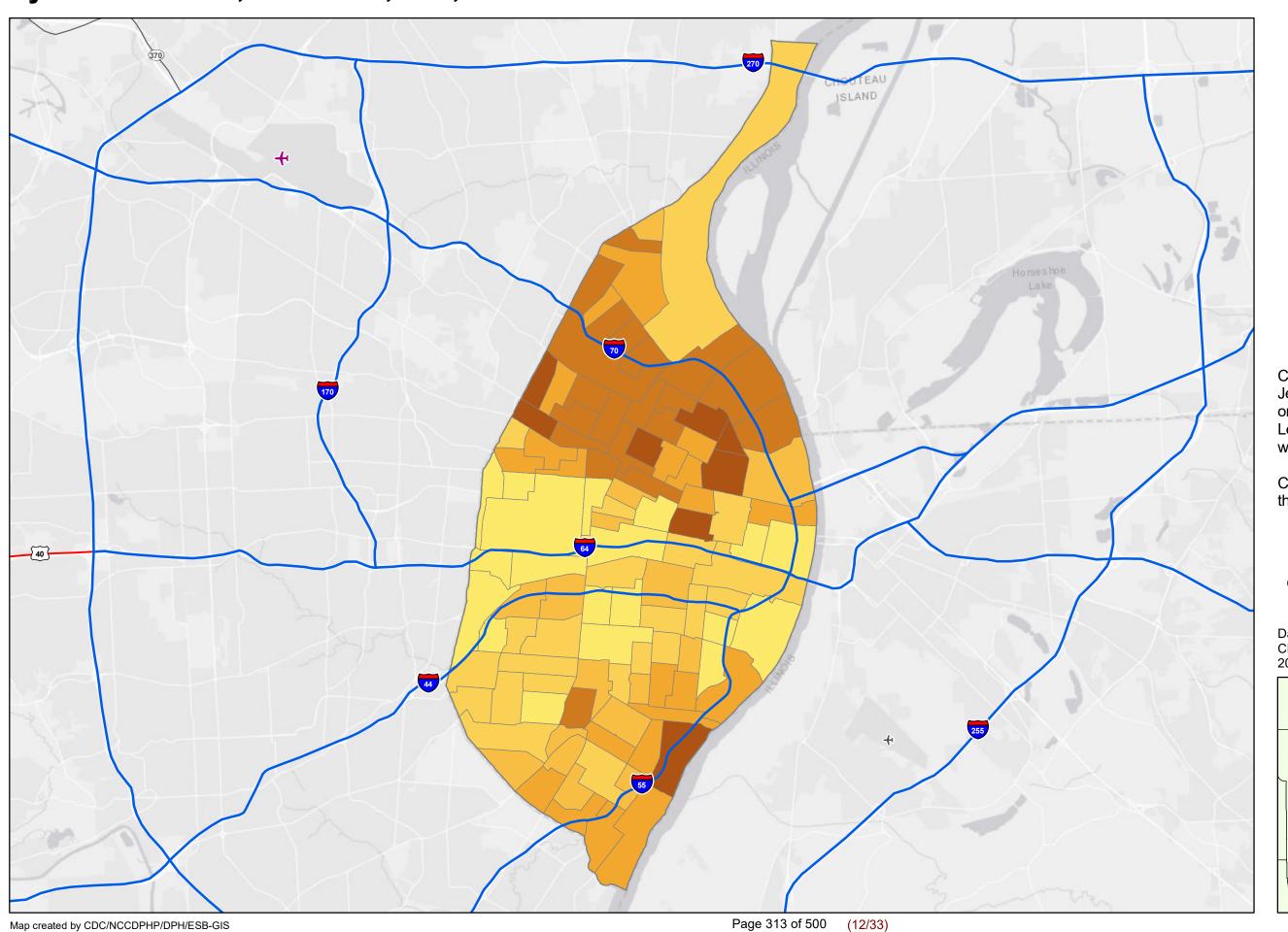
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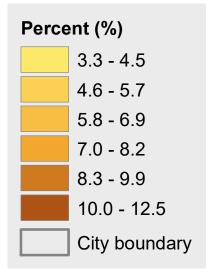


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



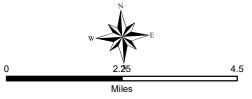
Coronary heart disease among adults aged ≥18 years by census tract, St. Louis, MO, 2016





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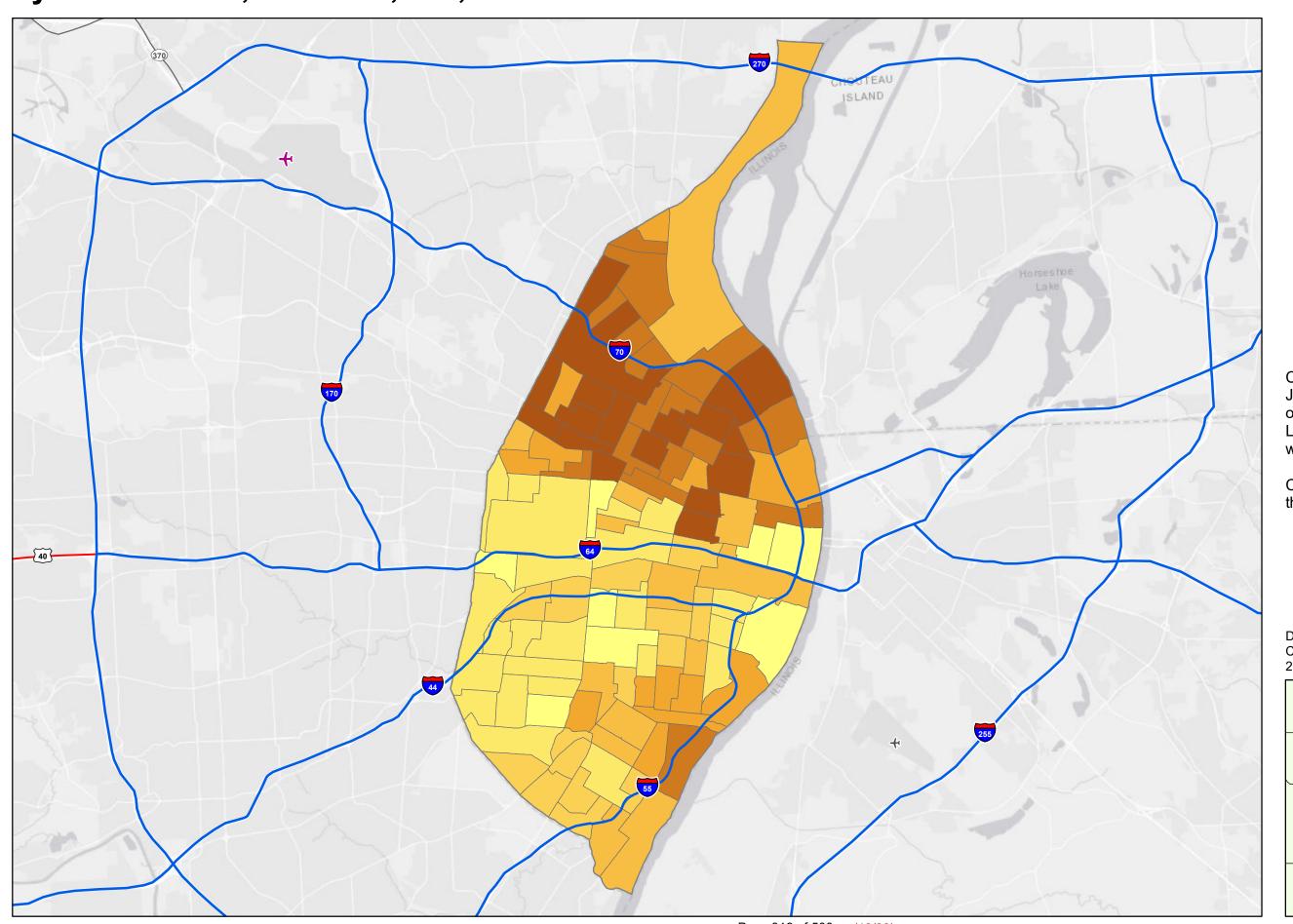
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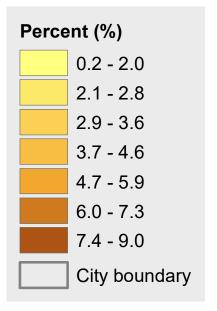


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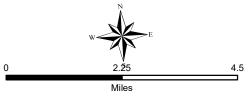
Stroke among adults aged 18 years and older by census tract, St. Louis, MO, 2016





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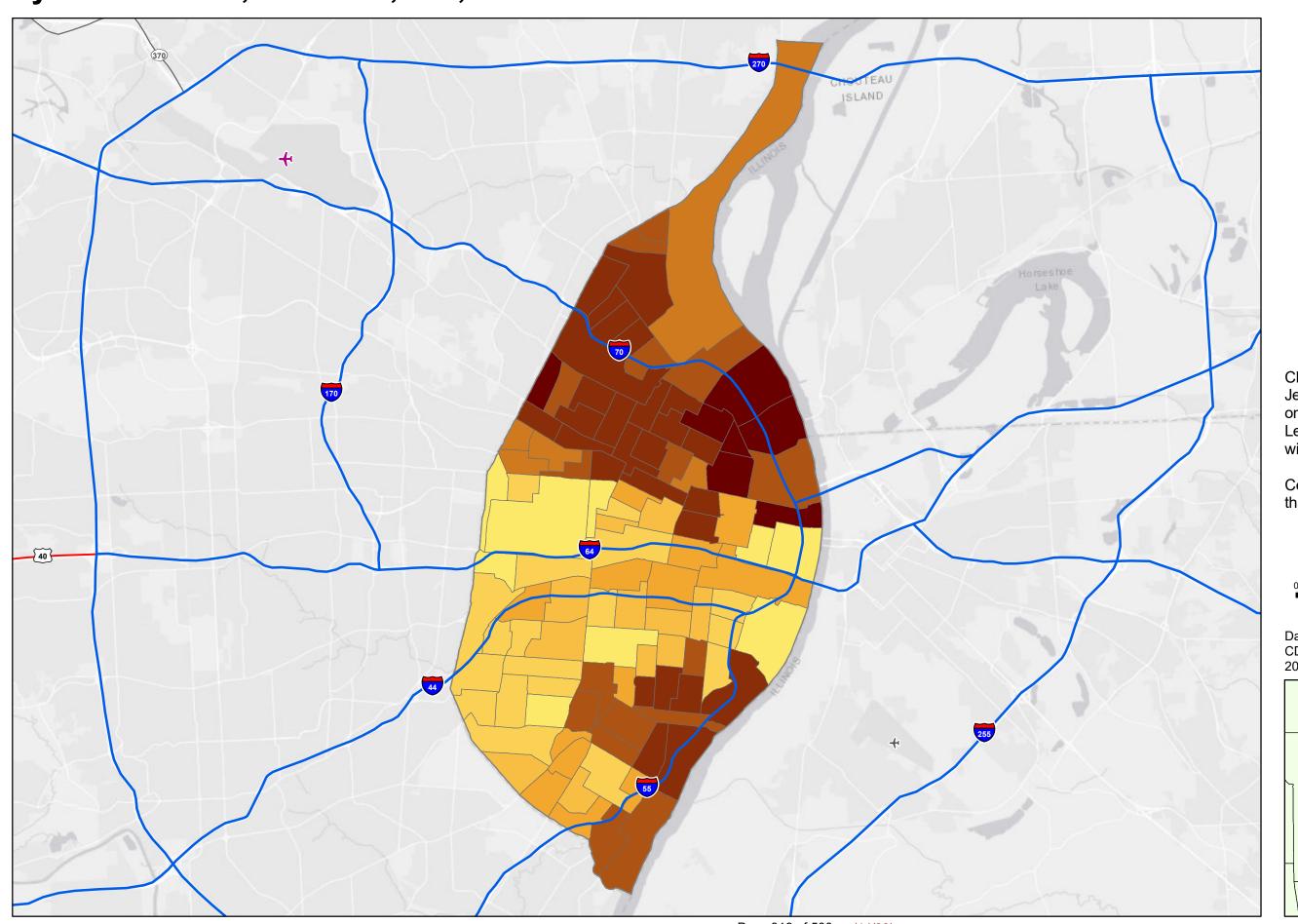
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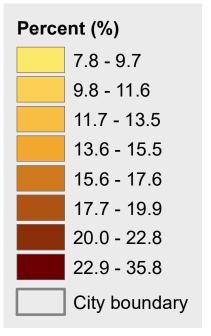


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Physical health not good for 14 or more days among adults aged 18 years and older by census tract, St. Louis, MO, 2016





Classification:

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Census tracts with population less than 50 were excluded from the map.

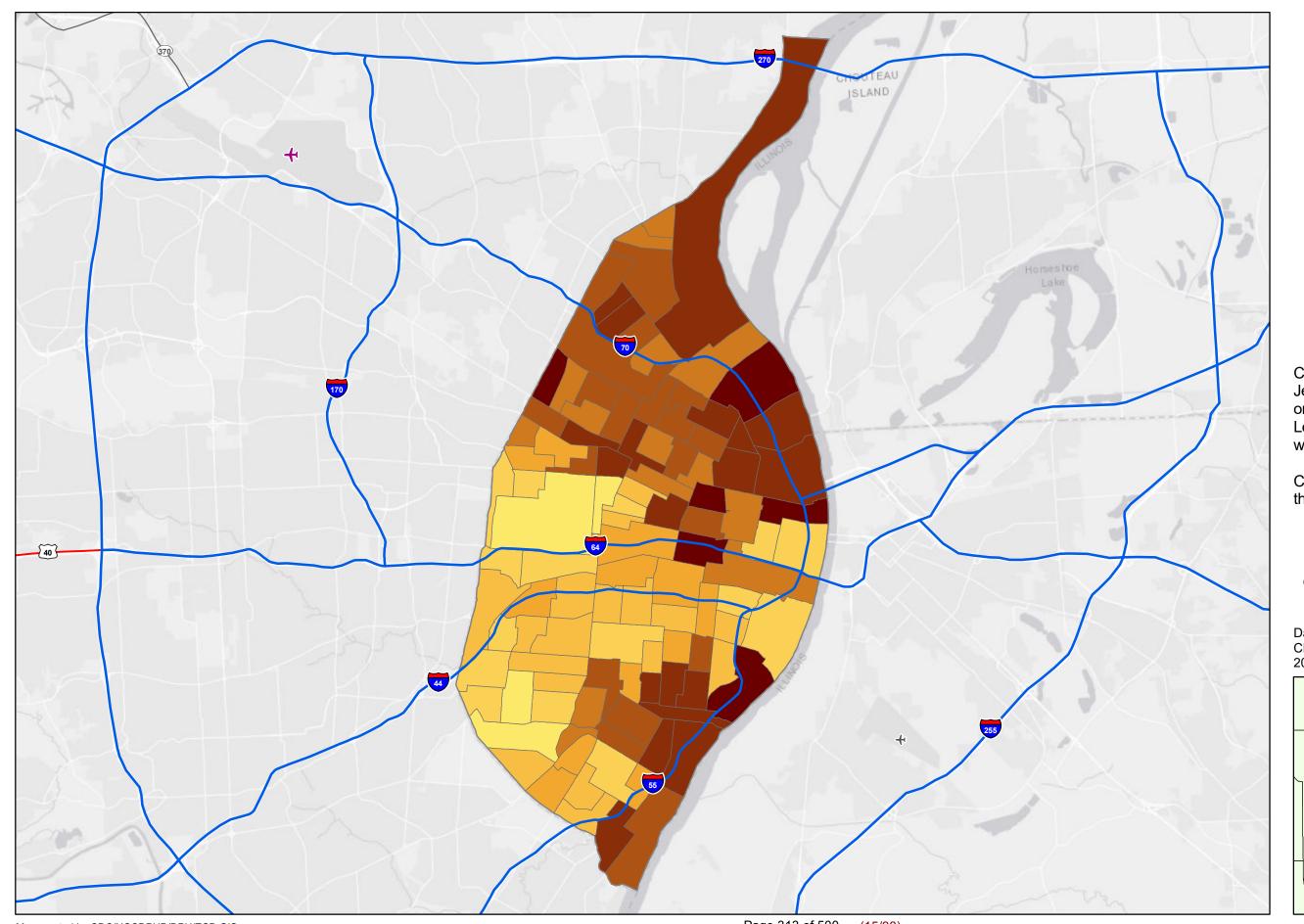


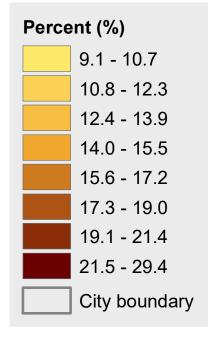
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



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Mental health not good for ≥14 days among adults aged ≥18 years by census tract, St. Louis, MO, 2016

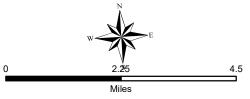




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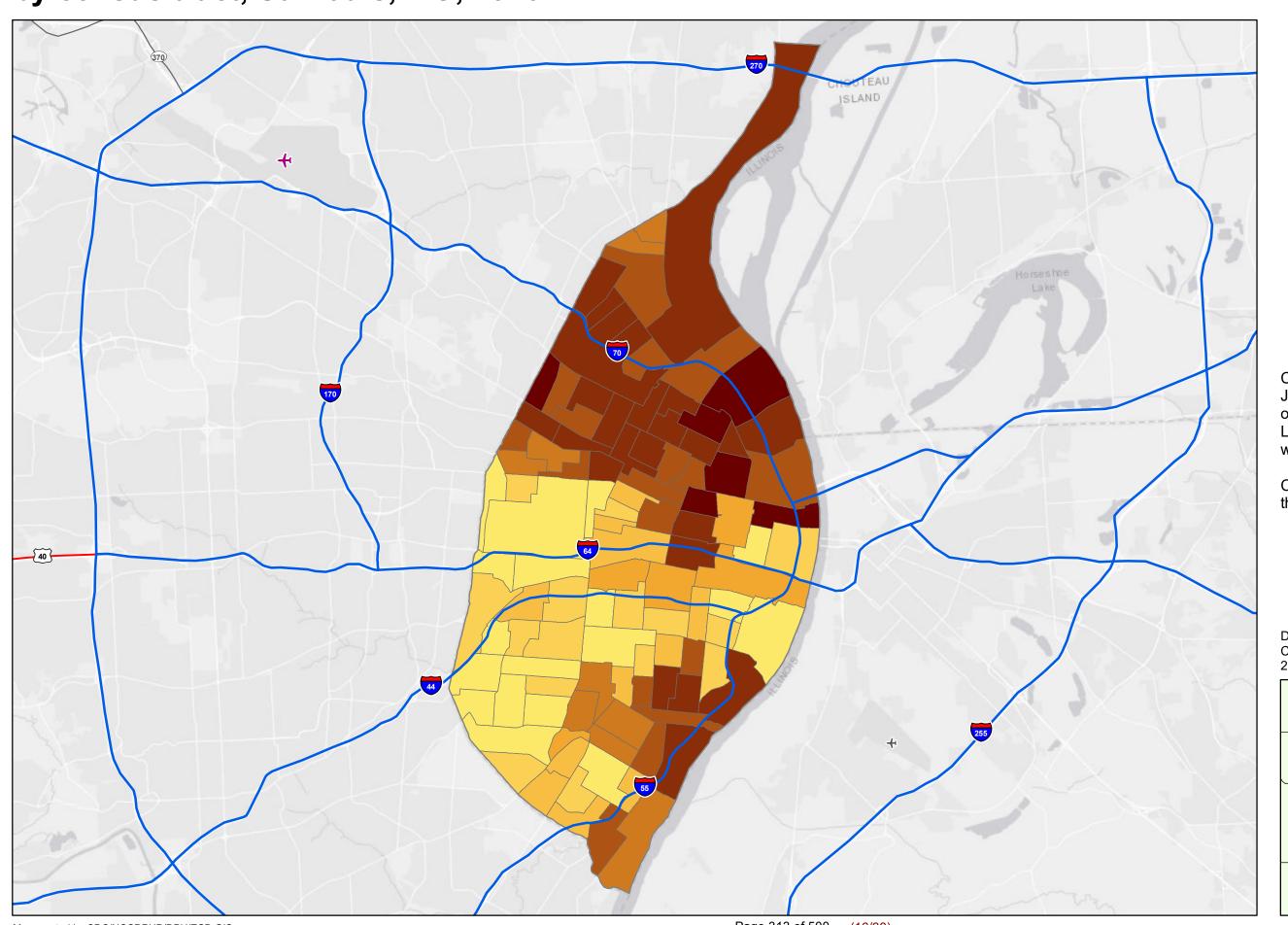
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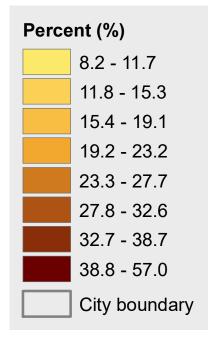


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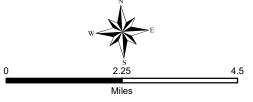
All teeth lost among adults aged >=65 years by census tract, St. Louis, MO, 2016





Classification:

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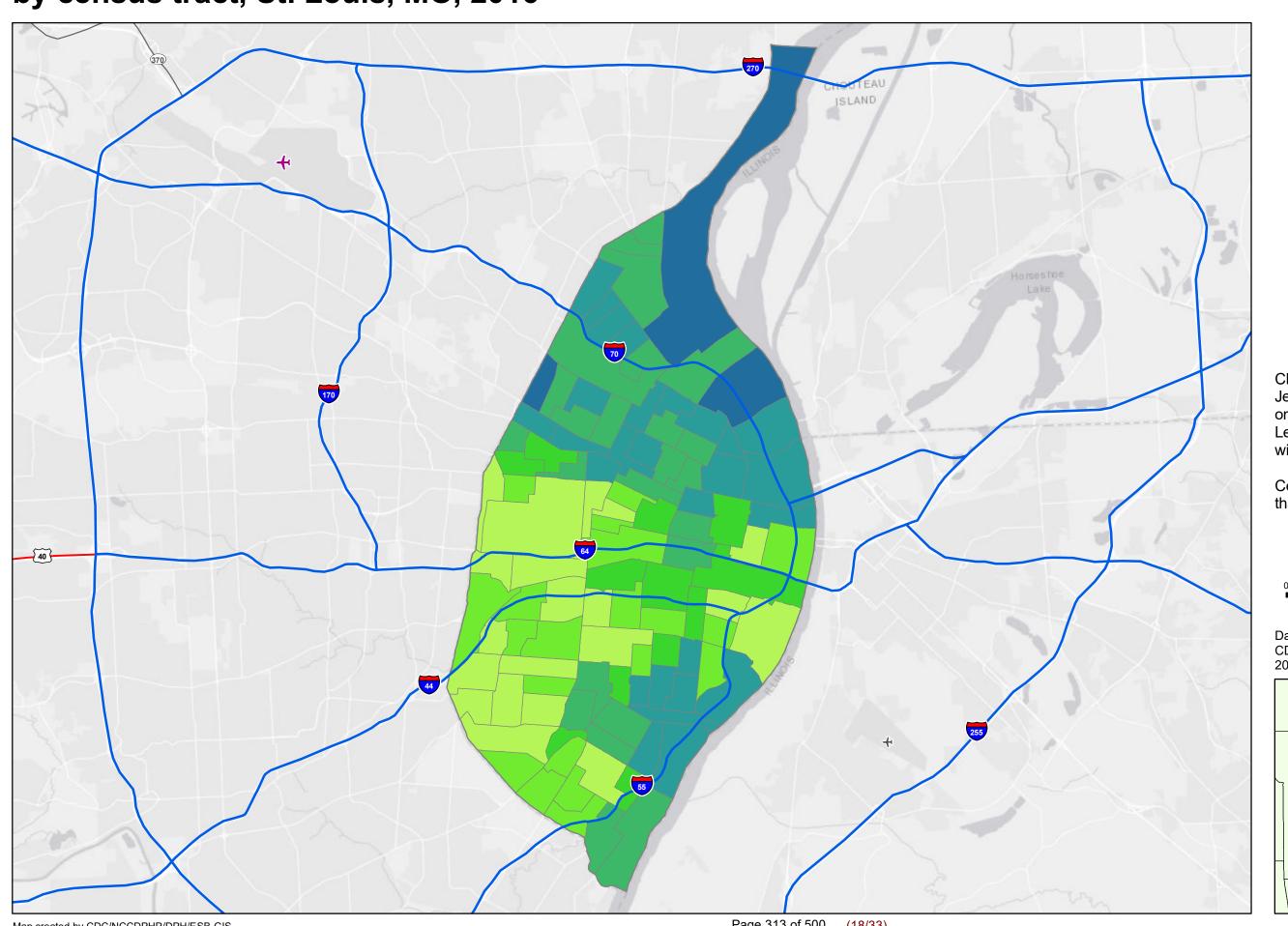


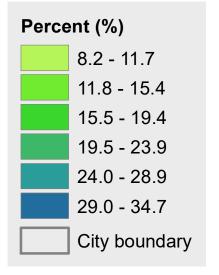
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Use of Preventive Services

Current lack of health insurance among adults aged 18-64 years by census tract, St. Louis, MO, 2016





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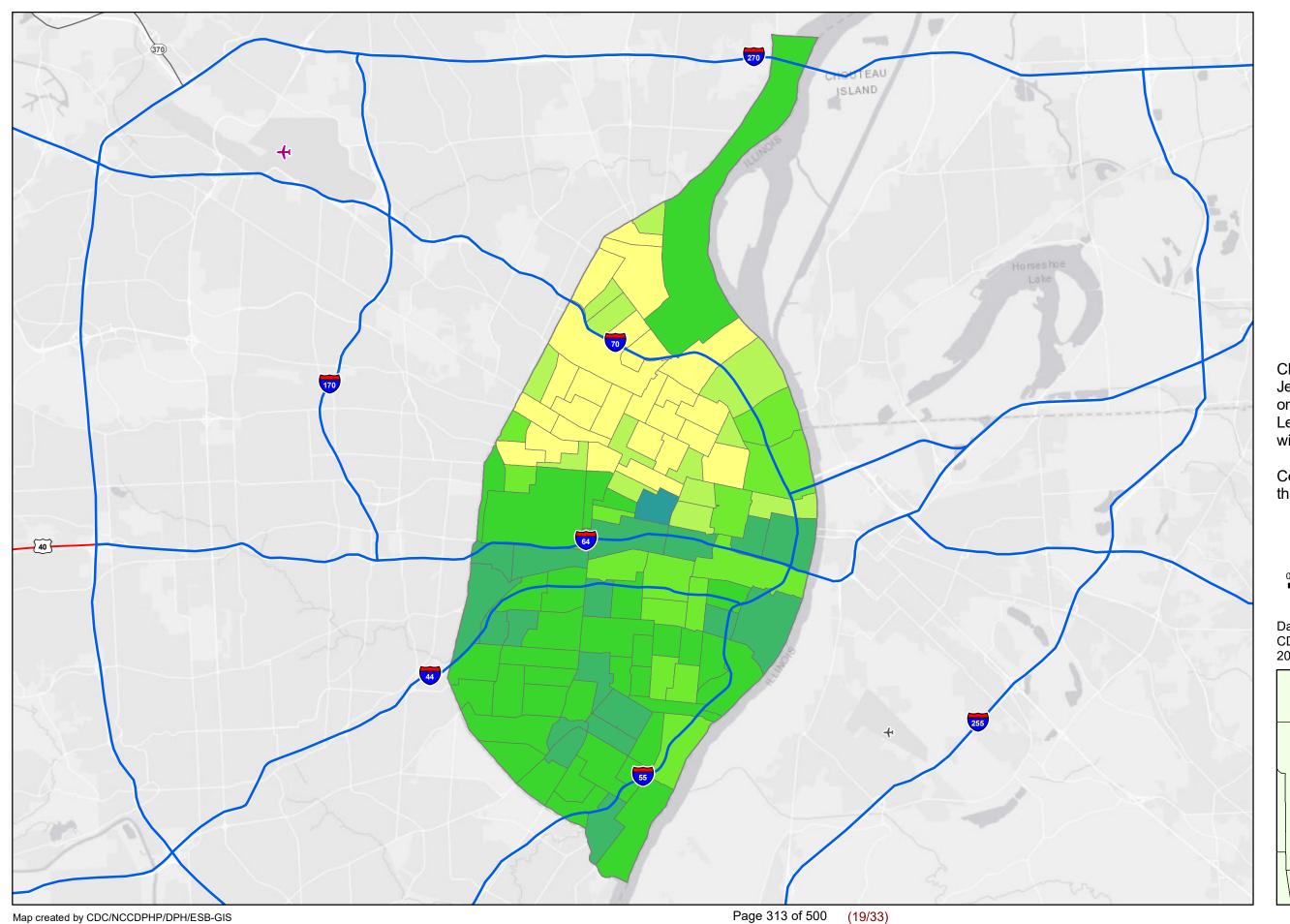


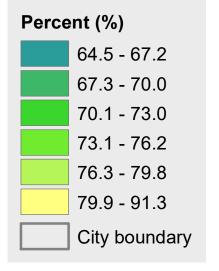
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



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Visits to doctor for routine checkup within the past year among adults aged ≥18 years by census tract, St. Louis, MO, 2016

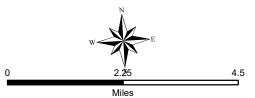




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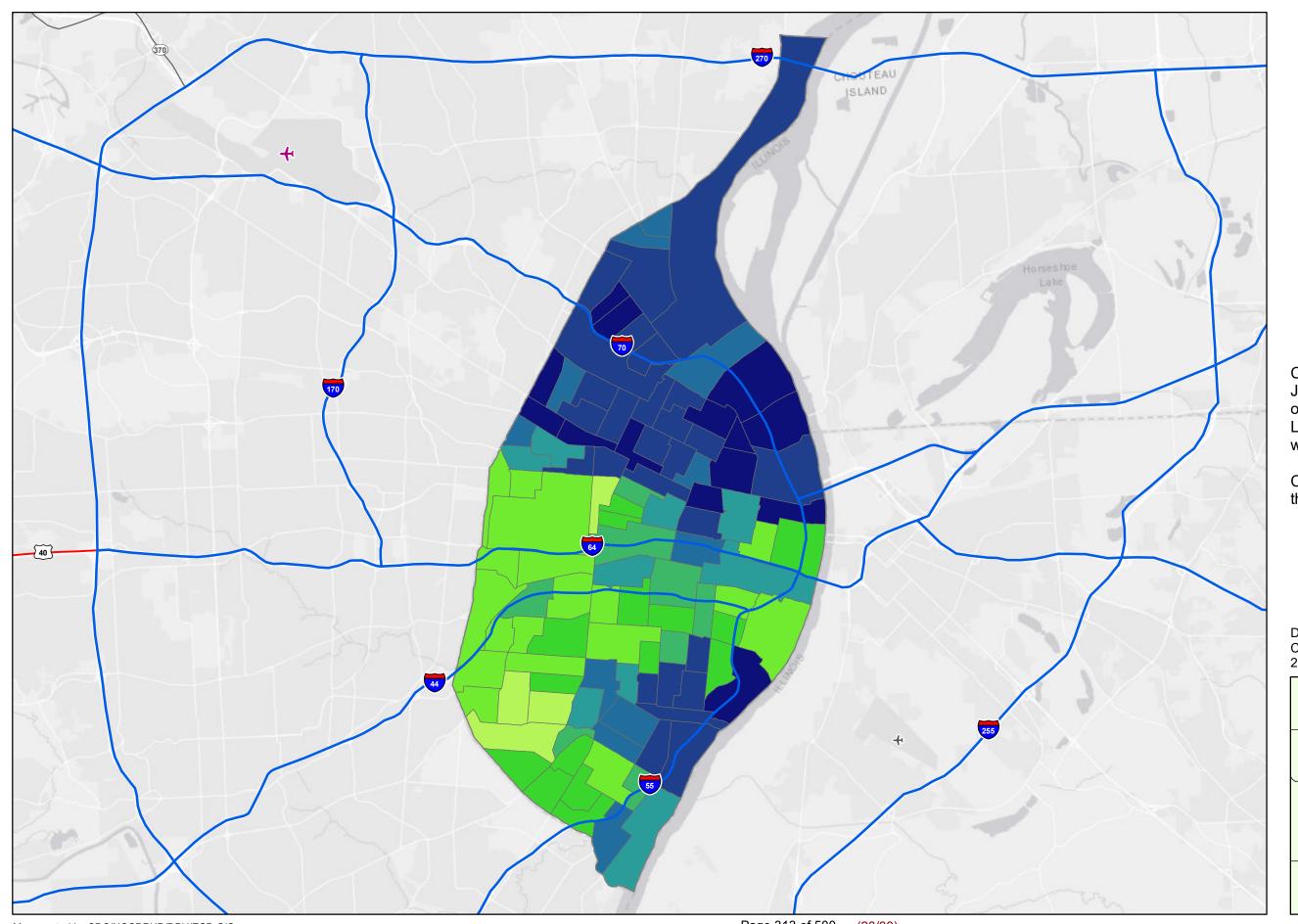


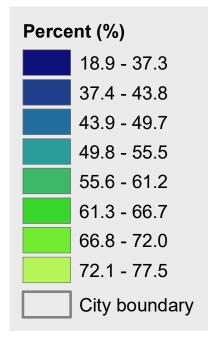
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Date: 8/8/2018

Visits to dentist or dental clinic among adults aged ≥18 years by census tract, St. Louis, MO, 2016

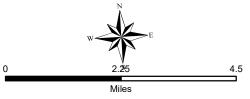




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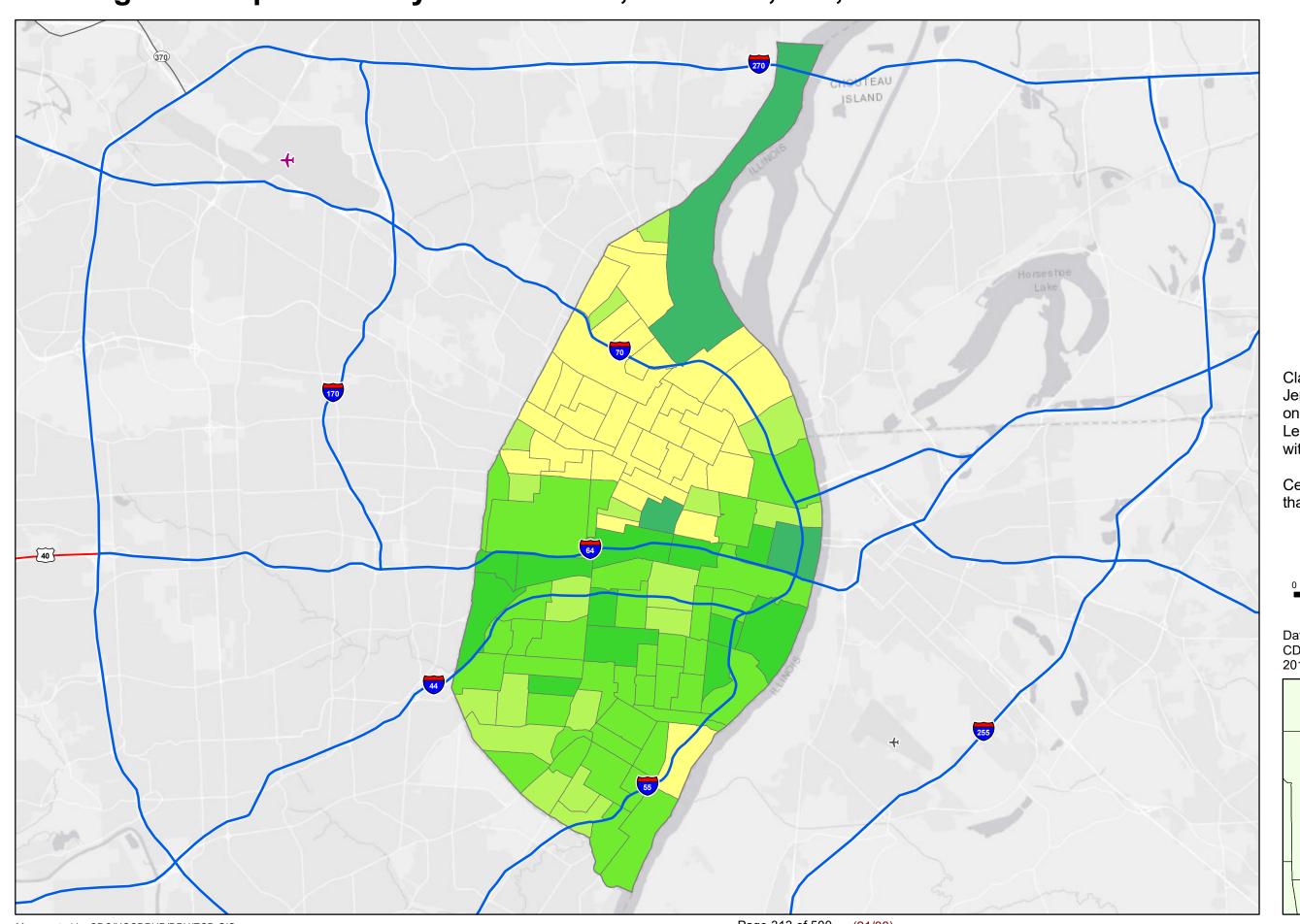
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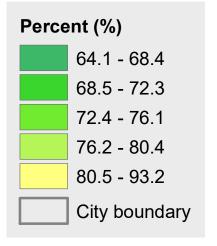


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Date: 8/13/2018

Taking medicine for high blood pressure control among adults aged ≥18 years with high blood pressure by census tract, St. Louis, MO, 2015





Classification:

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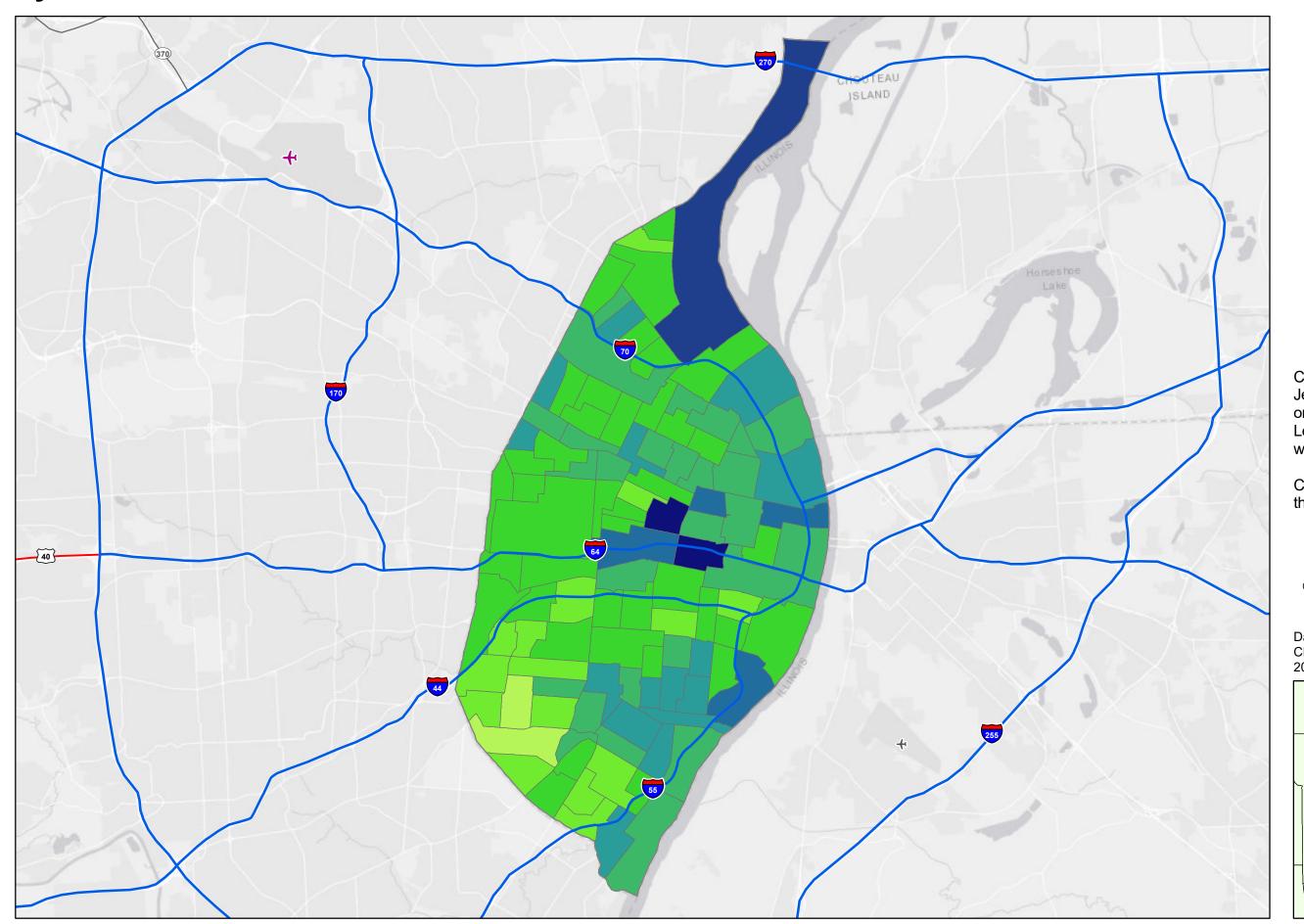


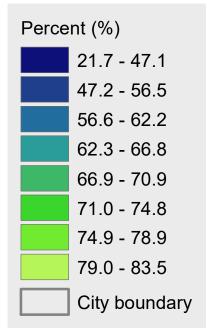
Data sources: CDC BRFSS 2015, US Census Bureau 2010 Census, ACS 2011-2015



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Cholesterol screening among adults aged ≥18 years by census tract, St. Louis, MO, 2015





Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.

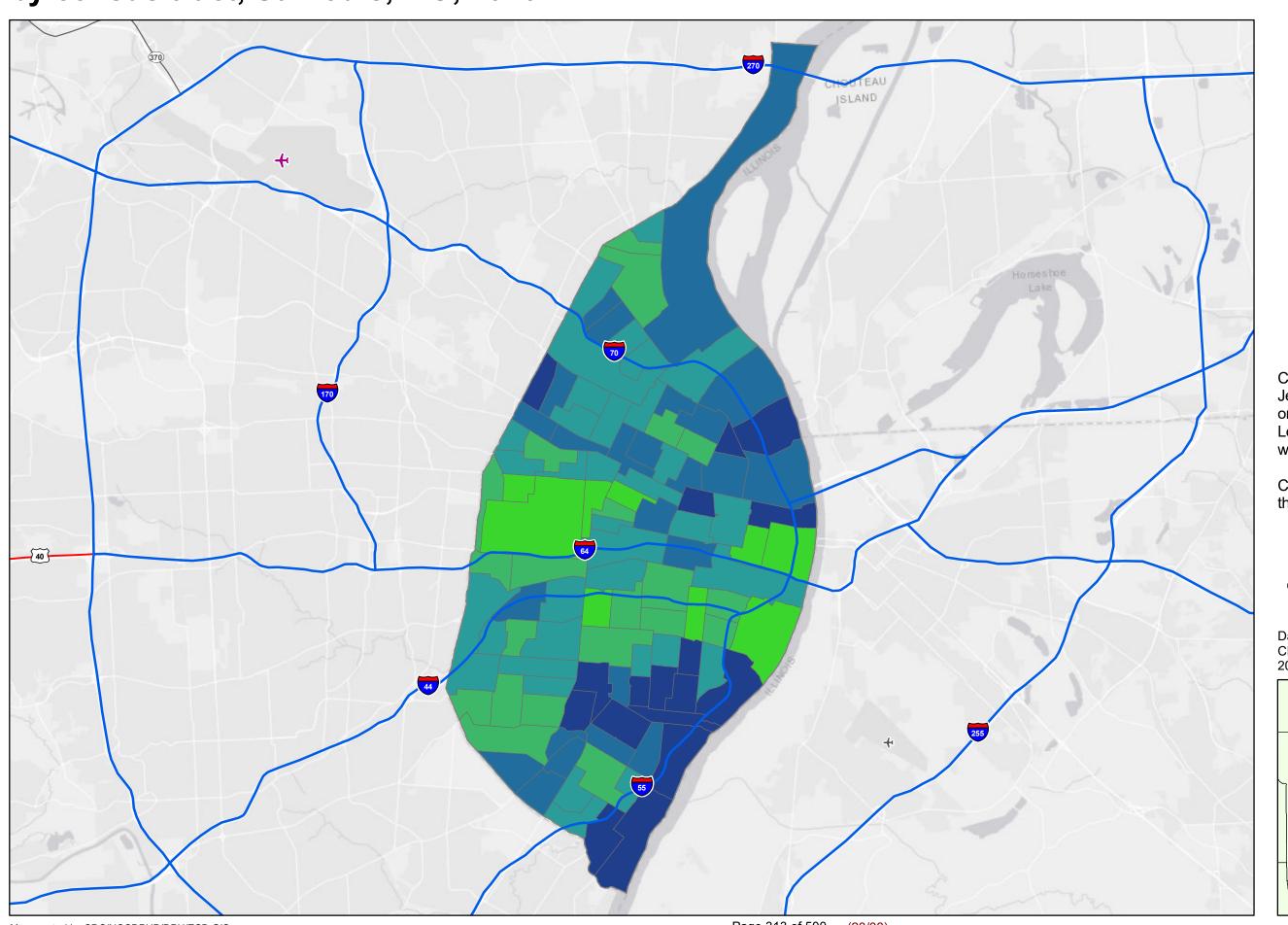


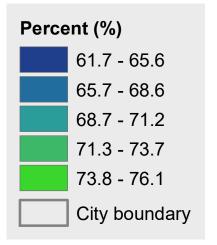
Data sources: CDC BRFSS 2015, US Census Bureau 2010 Census, ACS 2011-2015



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Mammography use among women aged 50-74 years by census tract, St. Louis, MO, 2016

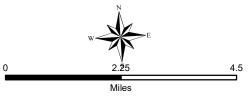




Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.

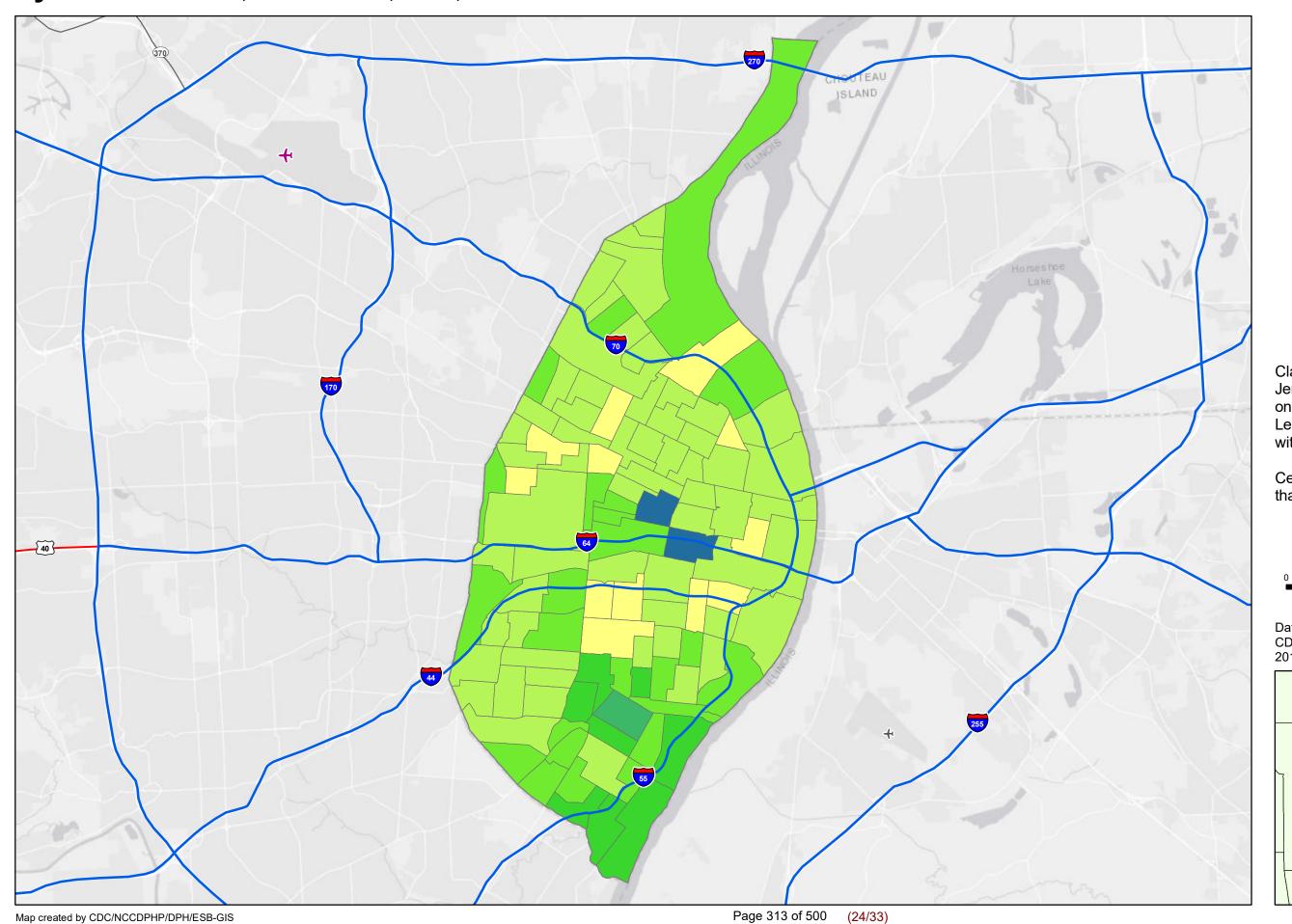


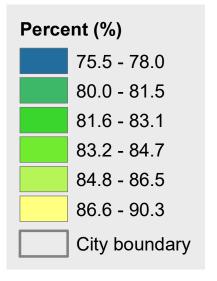
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016.



Date: 9/11/2018

Papanicolaou smear use among adult women aged 21-65 years by census tract, St. Louis, MO, 2016





Classification:

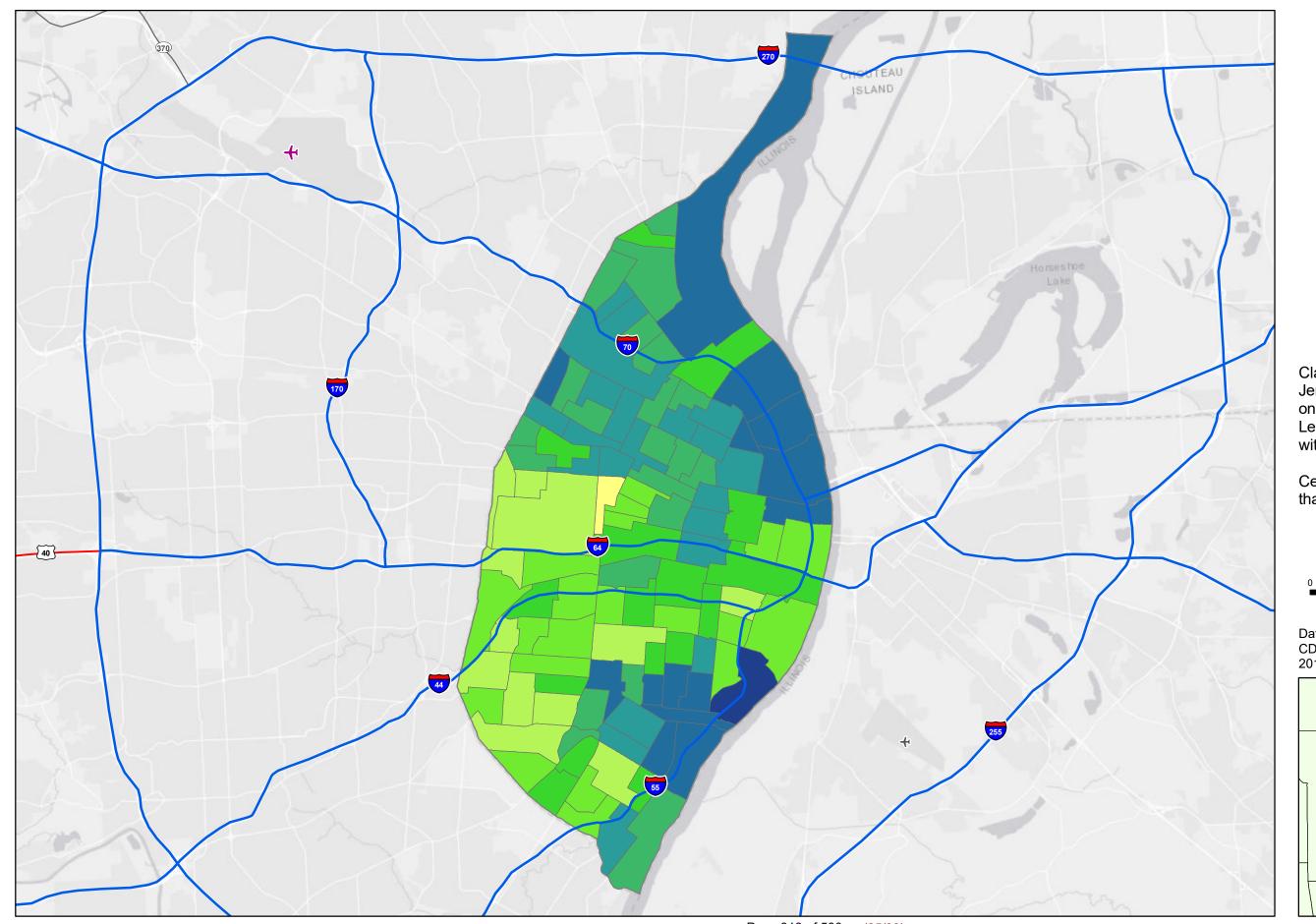
Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

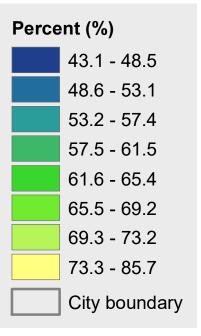


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years by census tract, St. Louis, MO, 2016





Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.

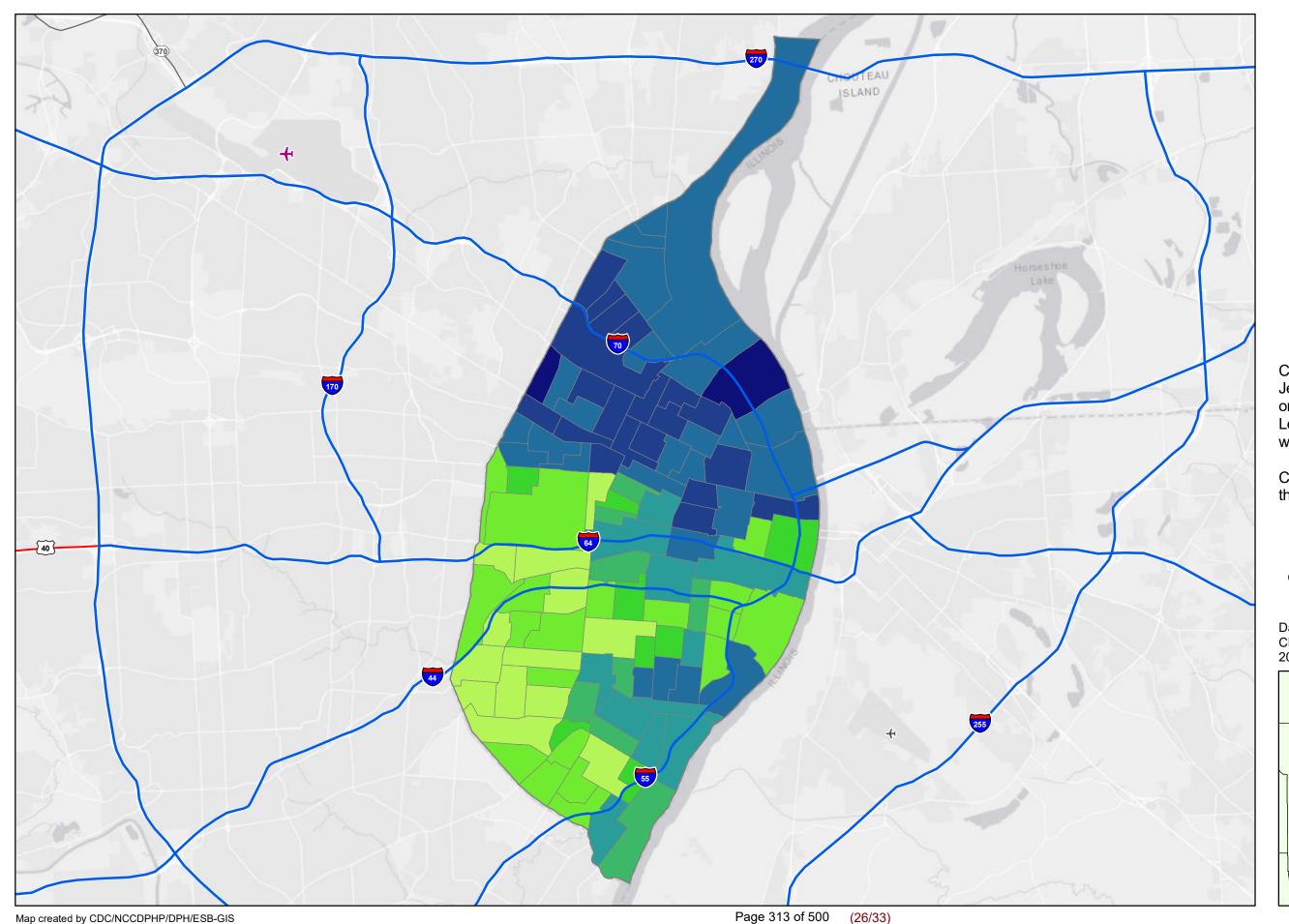


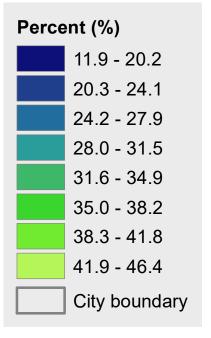
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Map created by CDC/NCCDPHP/DPH/ESB-GIS Page 313 of 500 (25/33) Date: 9/28/2018

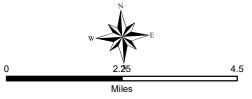
Older adults men aged ≥65 years who are up to date on a core set of clinical preventive services by census tract, St. Louis, MO, 2016





Classification:

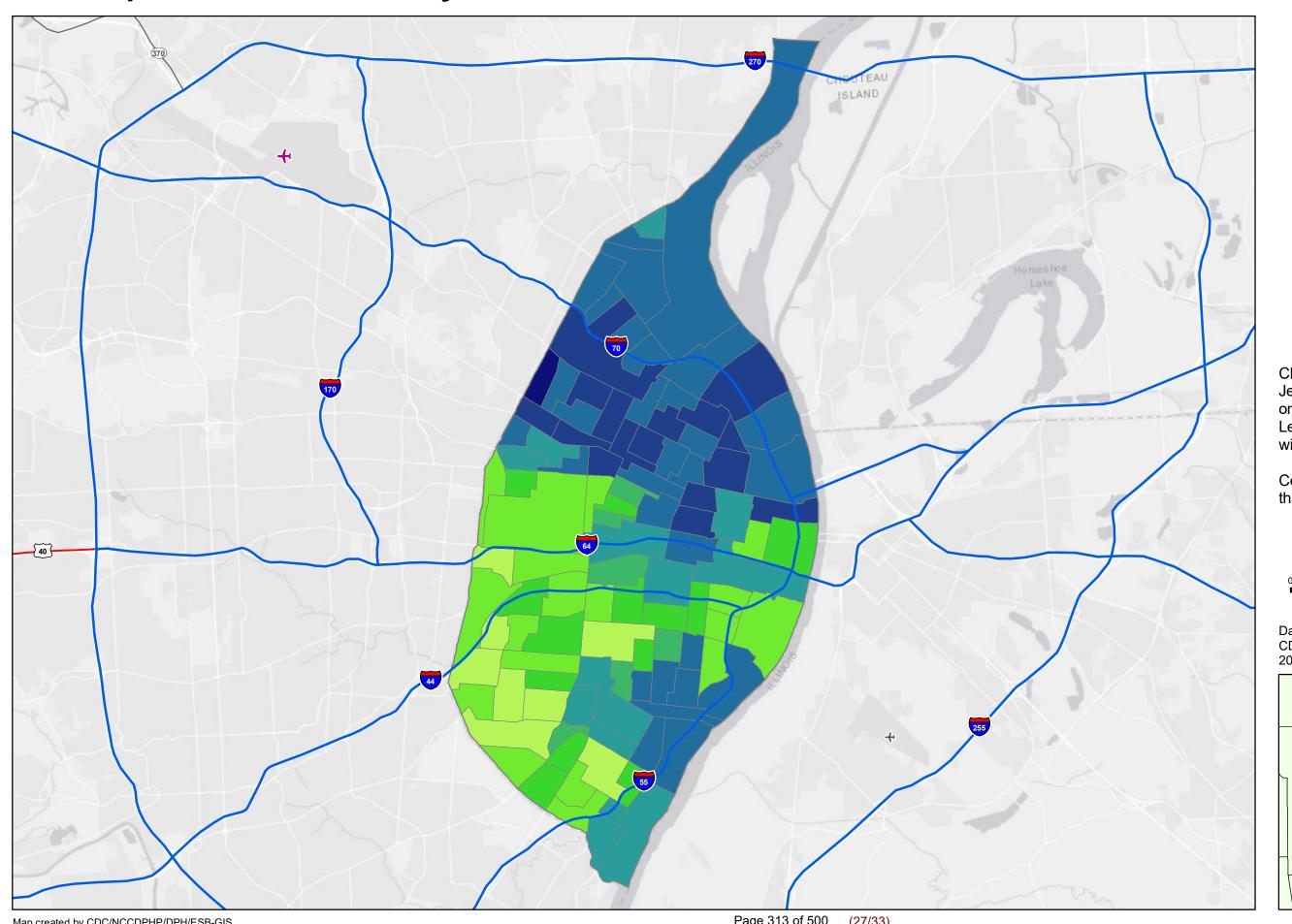
Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

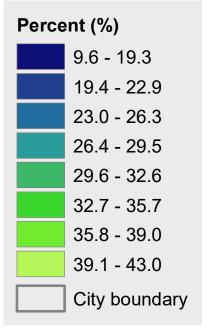


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Older adults women aged ≥65 years who are up to date on a core set of clinical preventive services by census tract, St. Louis, MO, 2016

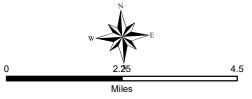




Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.



Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016

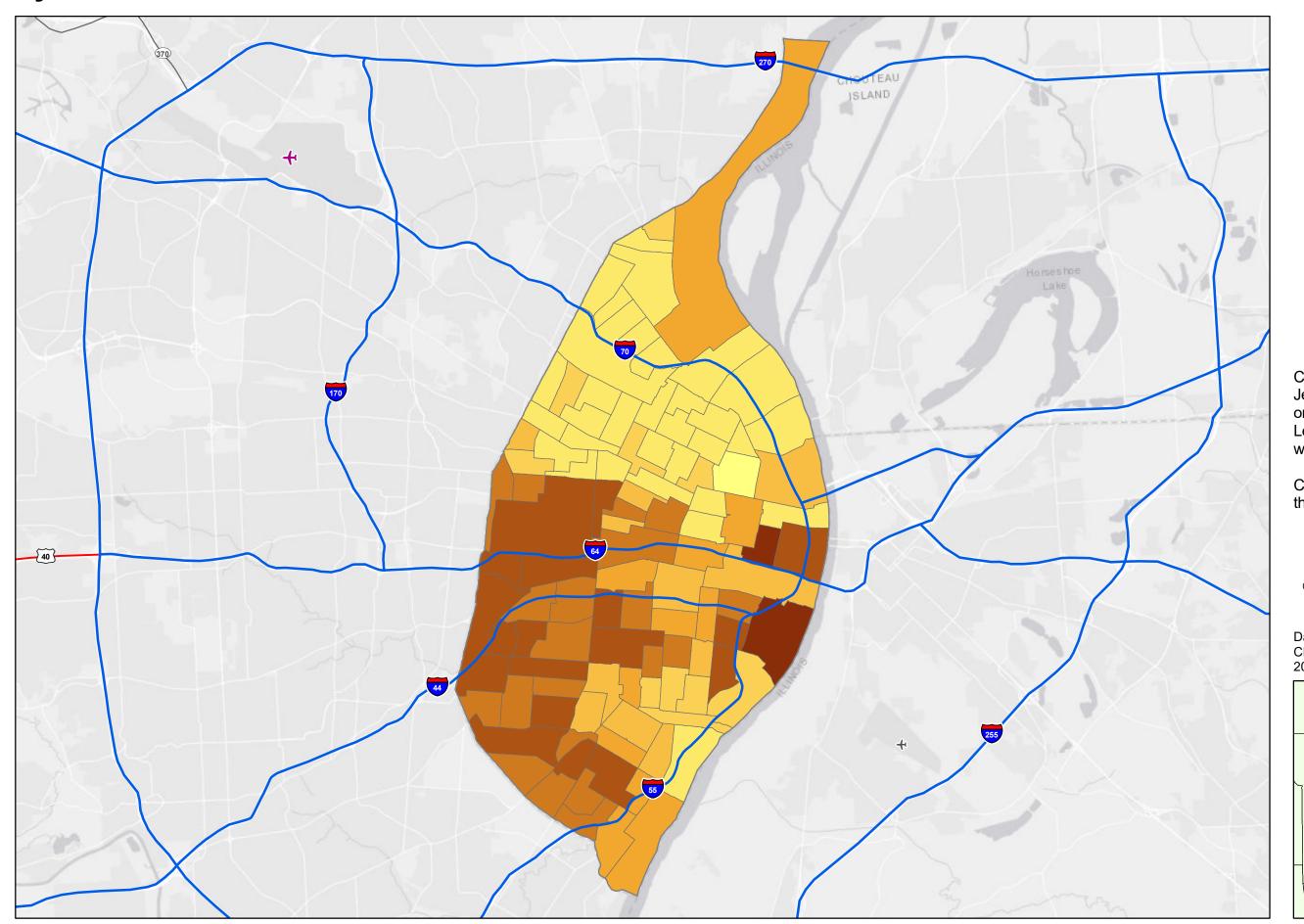


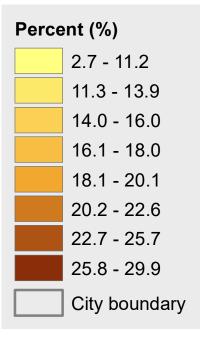
Date: 8/9/2018

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Unhealthy Behaviors

Binge drinking prevalence among adults aged ≥18 years by census tract, St. Louis, MO, 2016





Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.

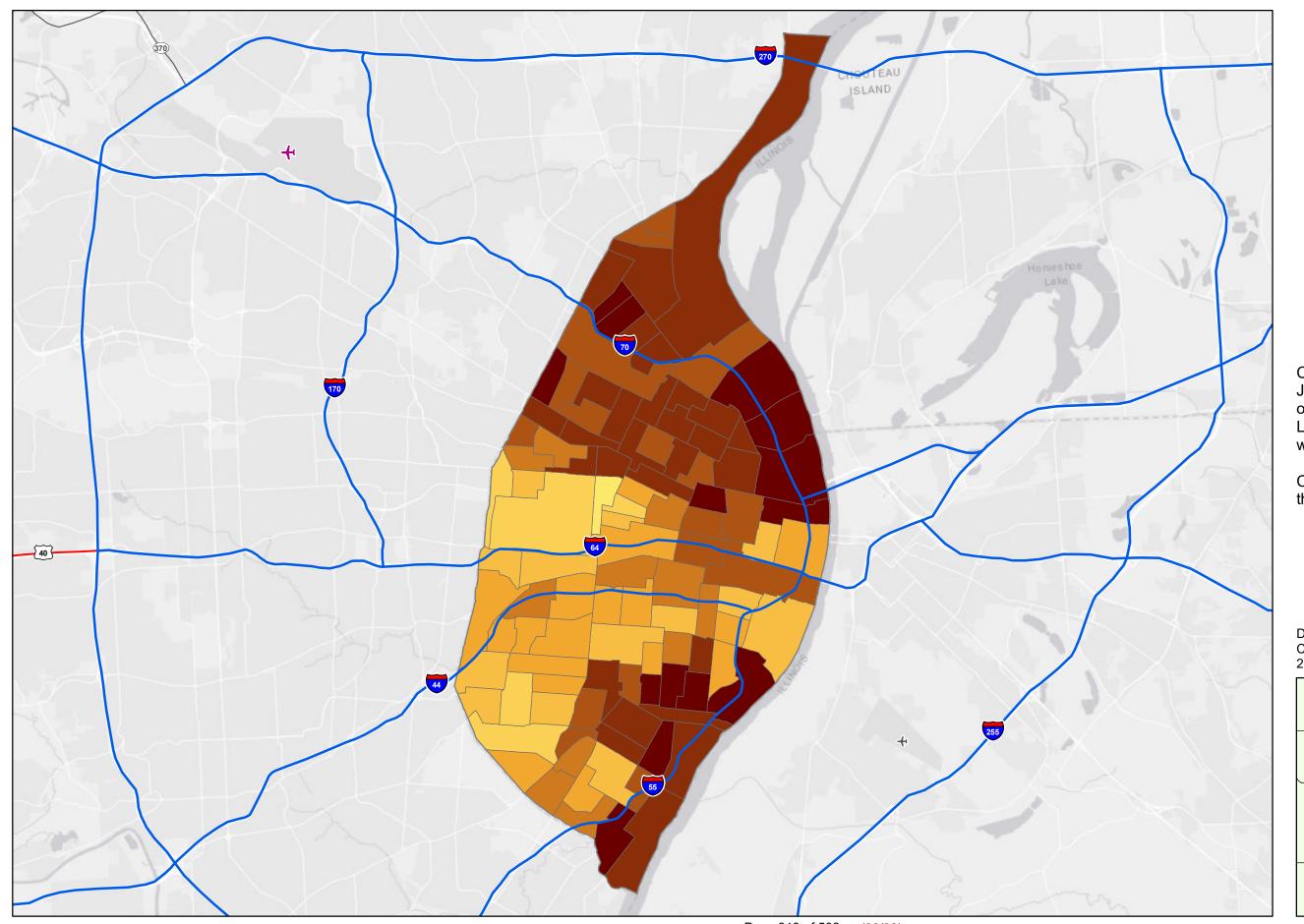


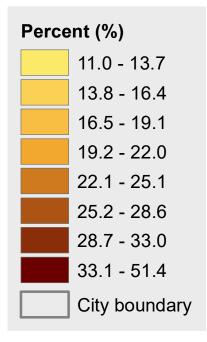
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



Date: 8/6/2018

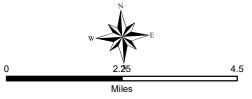
Current smoking among adults aged ≥18 years by census tract, St. Louis, MO, 2016





Classification:

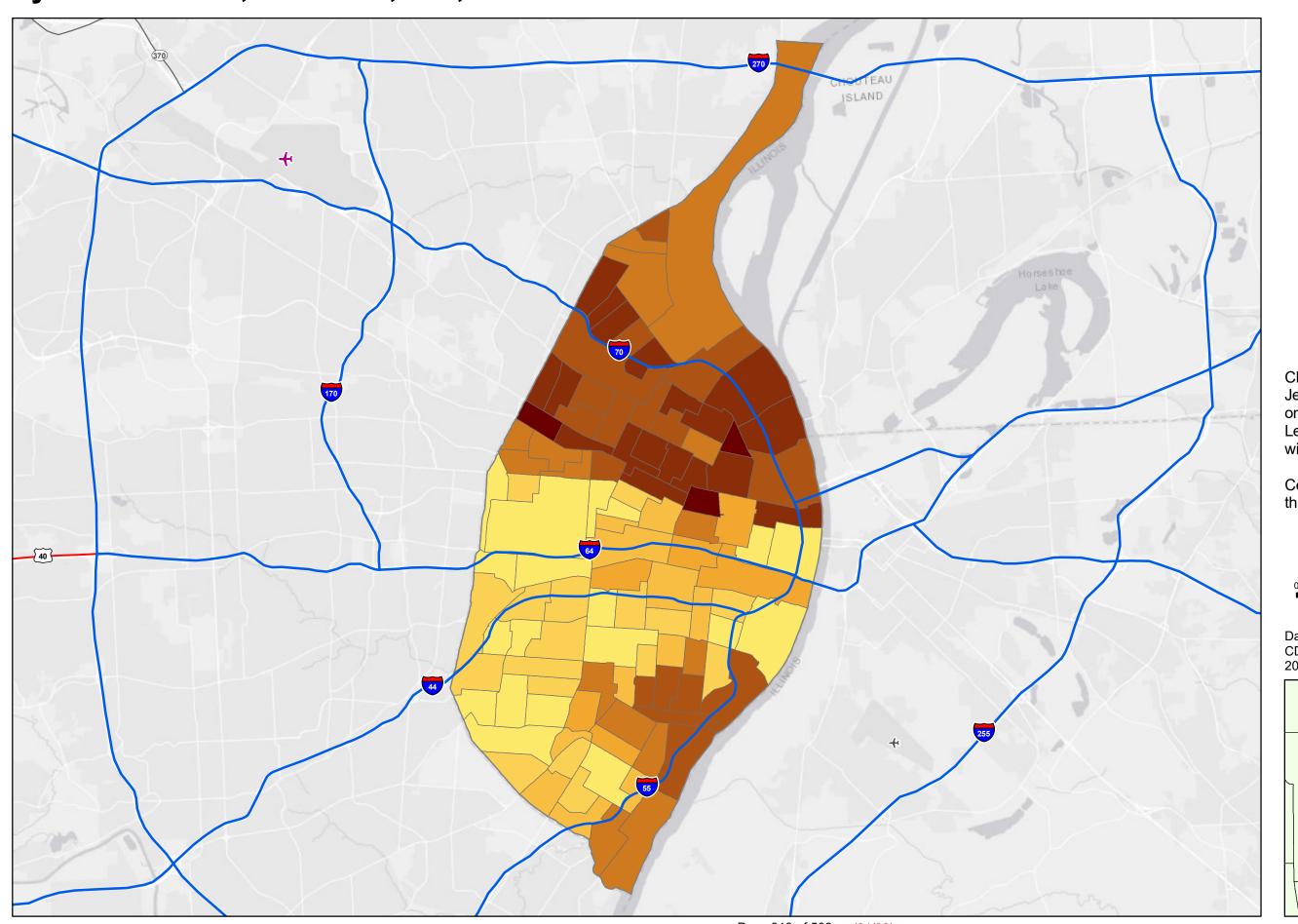
Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

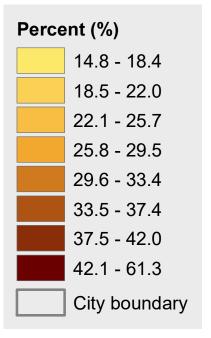


Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016



No leisure-time physical activity among adults aged ≥18 years by census tract, St. Louis, MO, 2016





Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.



Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016.

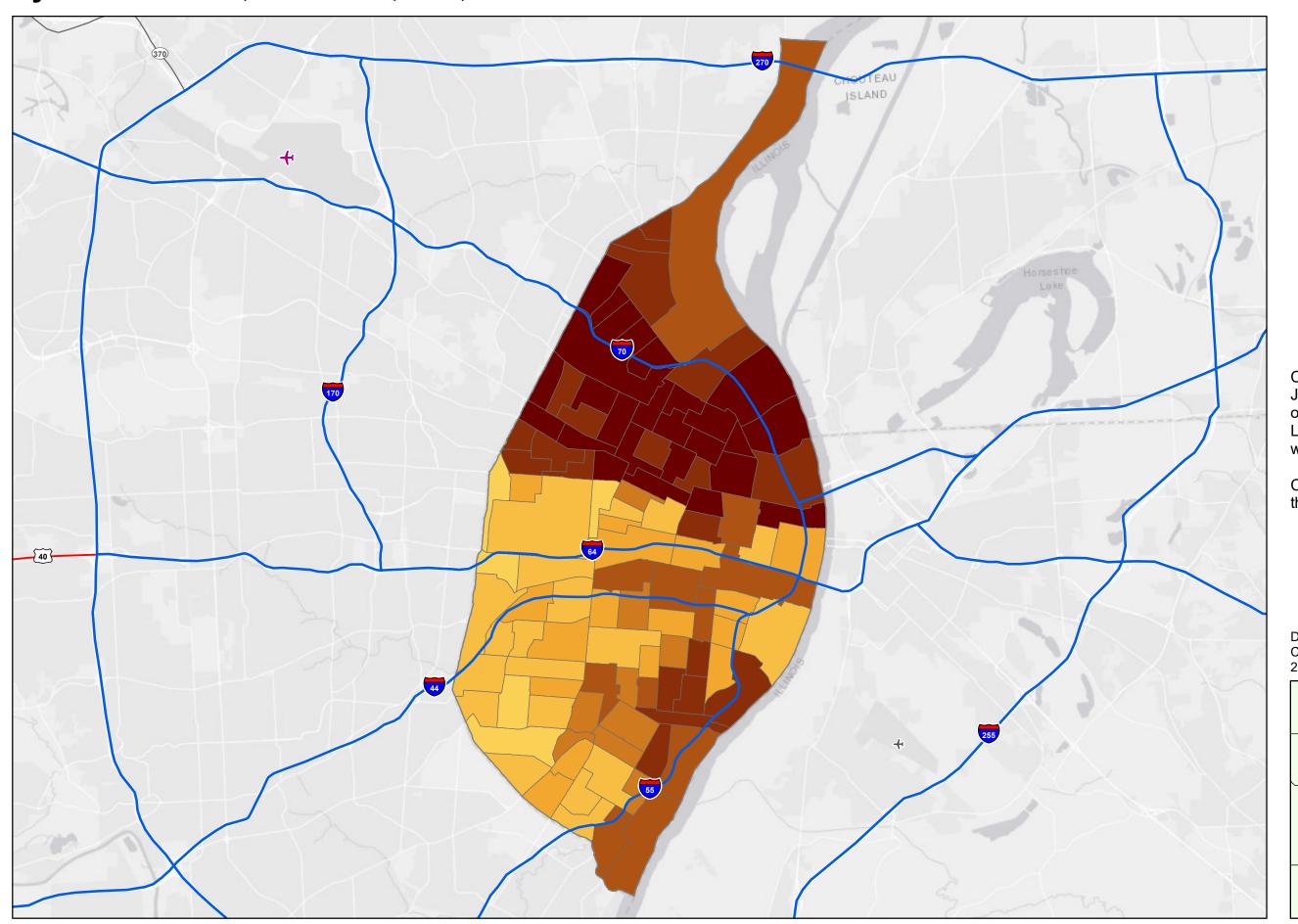


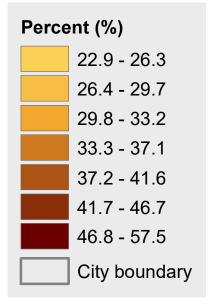
Date: 9/7/2018

Map created by CDC/NCCDPHP/DPH/ESB-GIS

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Obesity among adults aged 18 years and older by census tract, St. Louis, MO, 2016

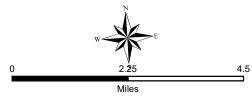




Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.



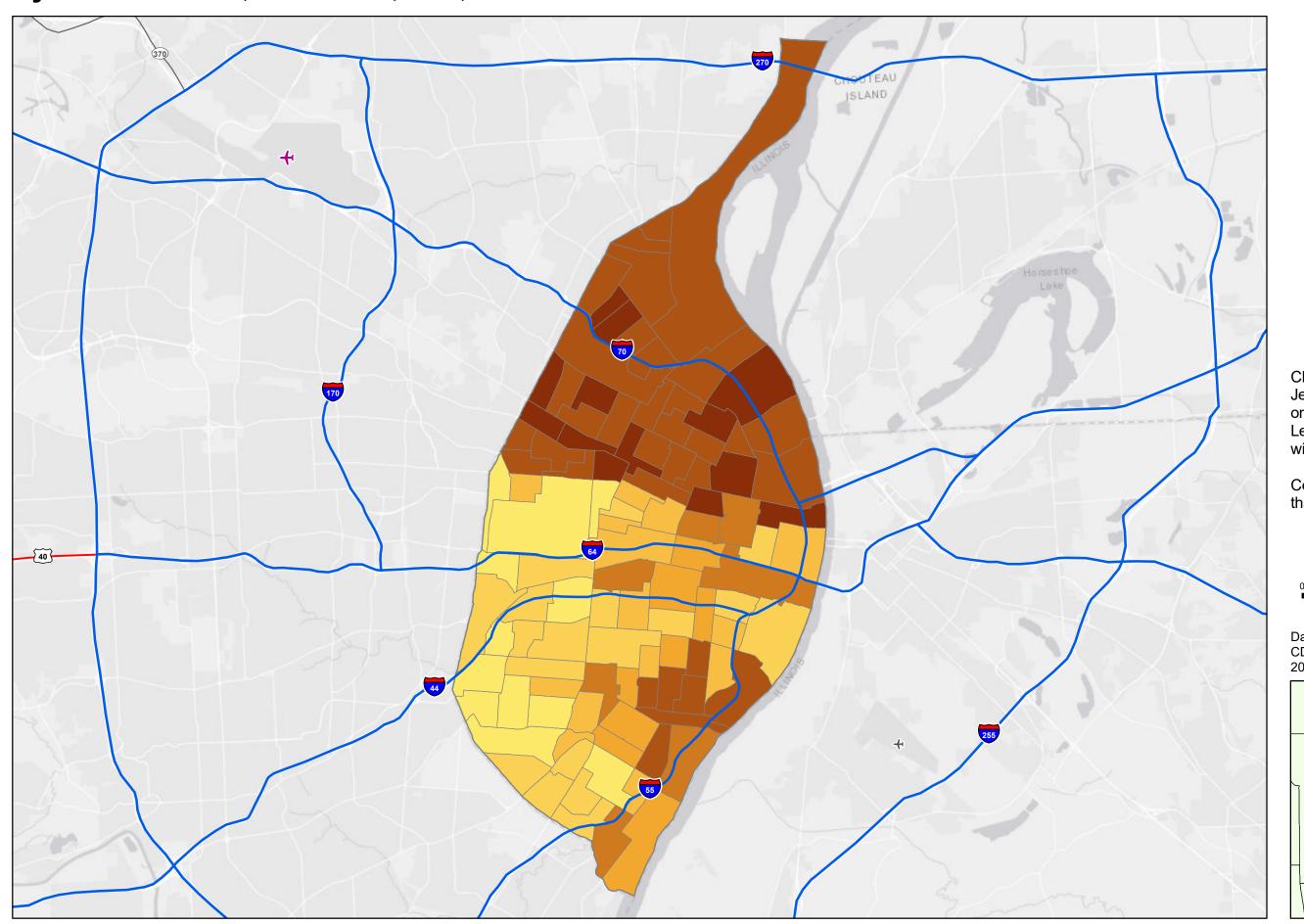
Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016

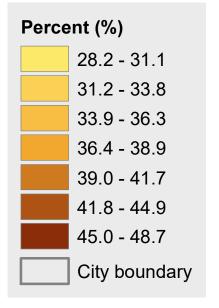


Map created by CDC/NCCDPHP/DPH/ESB-GIS Page 313 of 500 (32/33)

Date: 8/13/2018

Sleeping less than 7 hours among adults aged 18 years and older by census tract, St. Louis, MO, 2016





Classification:

Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.



Data sources: CDC BRFSS 2016, US Census Bureau 2010 Census, ACS 2012-2016

